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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 37 volumes of yearbooks presenting streamflow data as early as 1912 up to 1994 totalling 7,372 station-years of record had been published.

This Volume 38 which is the thirty-eighth issues of the series was prepared by the Data Processing and statistic Branch. It consists record, during 1995 water year, of stage and discharge of 160 streams at 232 currently calibrating sites.

Hydrology Division

July 1997

ACKNOWLEDGEMENT

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

Thank to Mr.Mondhian Kangsasitiam, Director of Hydrology Division and Mr. Thada Sukhabunnaphan, chief of Data Processing and Statistic Branch, 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 ccmplete issue of Thailand Hydrological yearbook Volume 38.

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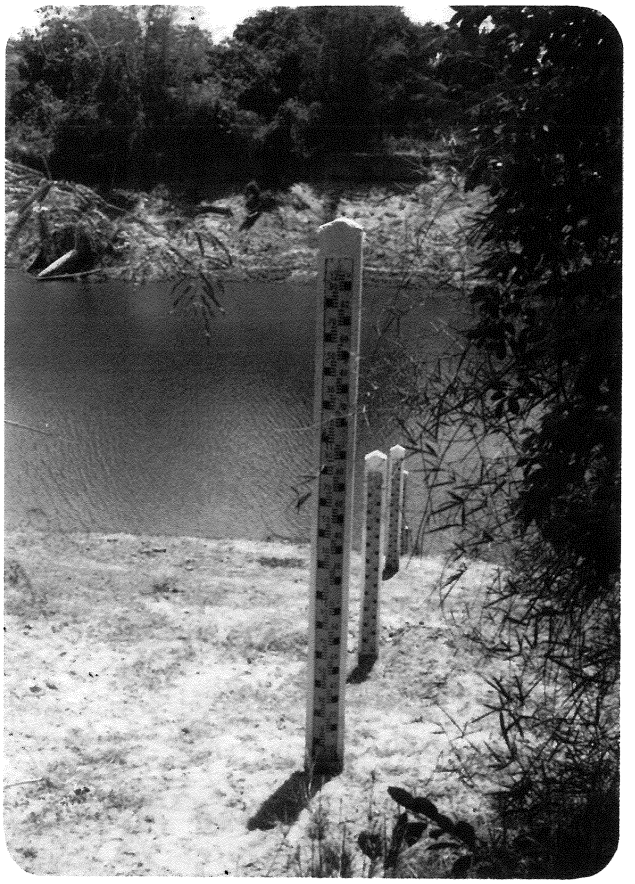


Fig. 1 Typical vertical staff gage

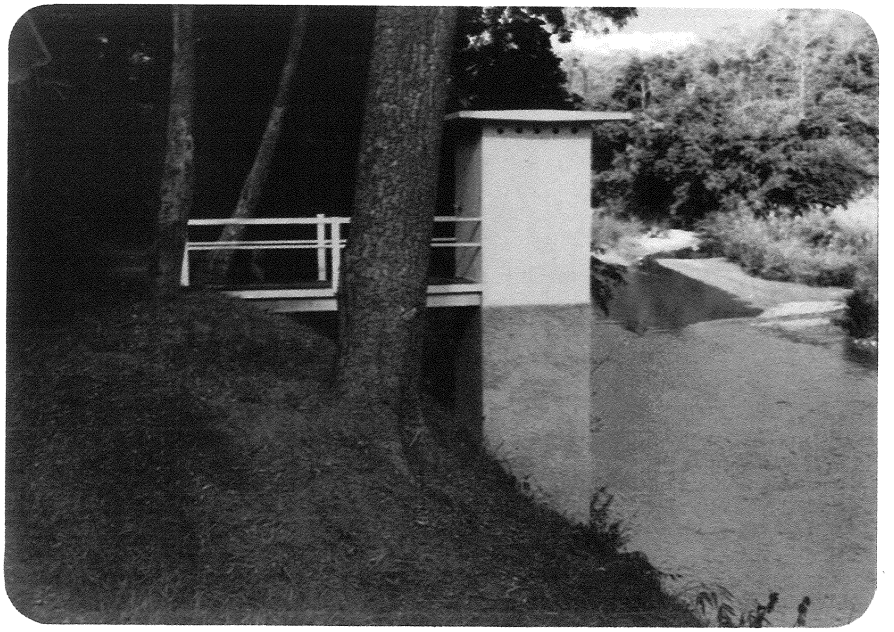


Fig. 2 Typical shelter for water level recorder (Float Type)



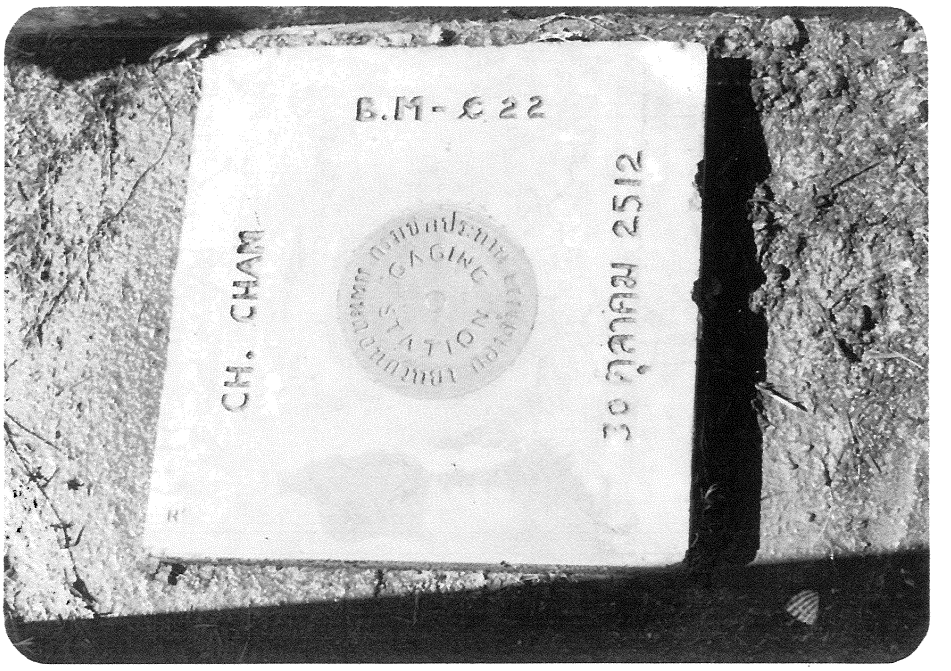


Fig. 3 Standard bench mark



Fig. 4 Close - up of rating operation



Fig. 5 Standard hydrologic equipment

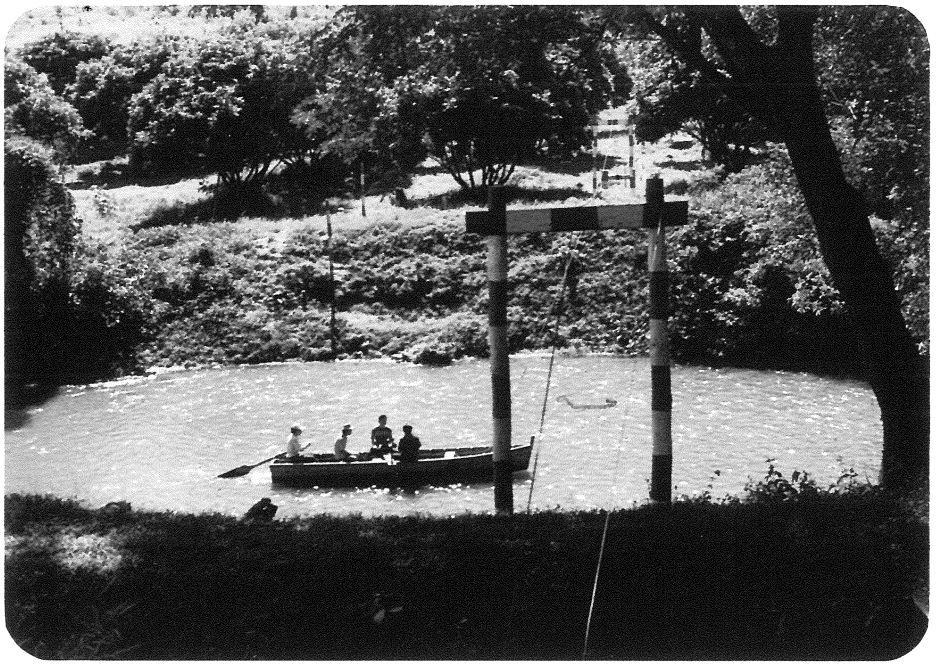


Fig. 6 Measuring line



Fig. 7 Camp for hydrological station

HYDROLOGICAL YEAR BOOK PUBLICATION

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

Introduction

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

Definition of terms and abbreviations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Order of listing of gaging data

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

Series of yearbook publications

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

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

Volume	Water Years	No.of station-years	Date of issuance
6	1960 - 1962	213	October 1973
7	1963 - 1964	182	July 1969
8	1965	113	May 1967
9	1966	129	June 1975
10	1967	172	September 1976
11	1968	187	September 1976
12	1969	182	March 1979
13	1970	182	March 1979
14	1971	182	June 1979
15	1972	184	October 1979
16	1973	187	January 1980
17	1974	191	March 1980
18	1975	182	August 1980
19	1976	184	November 1980
20	1977	192	February 1981
21	1978	210	May 1982
22	1979	237	July 1981
23	1980	231	August 1982
24	1981	213	November 1983
25	1982	224	June 1986
26	1983	235	October 1986
27	1984	242	February 1988
28	1985	232	January 1989
29	1986	245	June 1989
30	1987	271	July 1990
31	1988	267	February 1990
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

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 for been adopted as our standard equipment. Some pneumatic recorder is also being used. Weekly visit to the gage for inspection and changing chart paper by the crew or gage observer is under practice.

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

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

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

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

Office data processing

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

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

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

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

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

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

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

flow computation, are practically made.

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

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

Review of procedure for streamflow data processing.

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

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

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

b) Discrepancies of recording charts, if any.

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

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

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

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

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

4) Checking stability of rating curve used.

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

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

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

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

Classification of streamflow data

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

Future plan for computerization

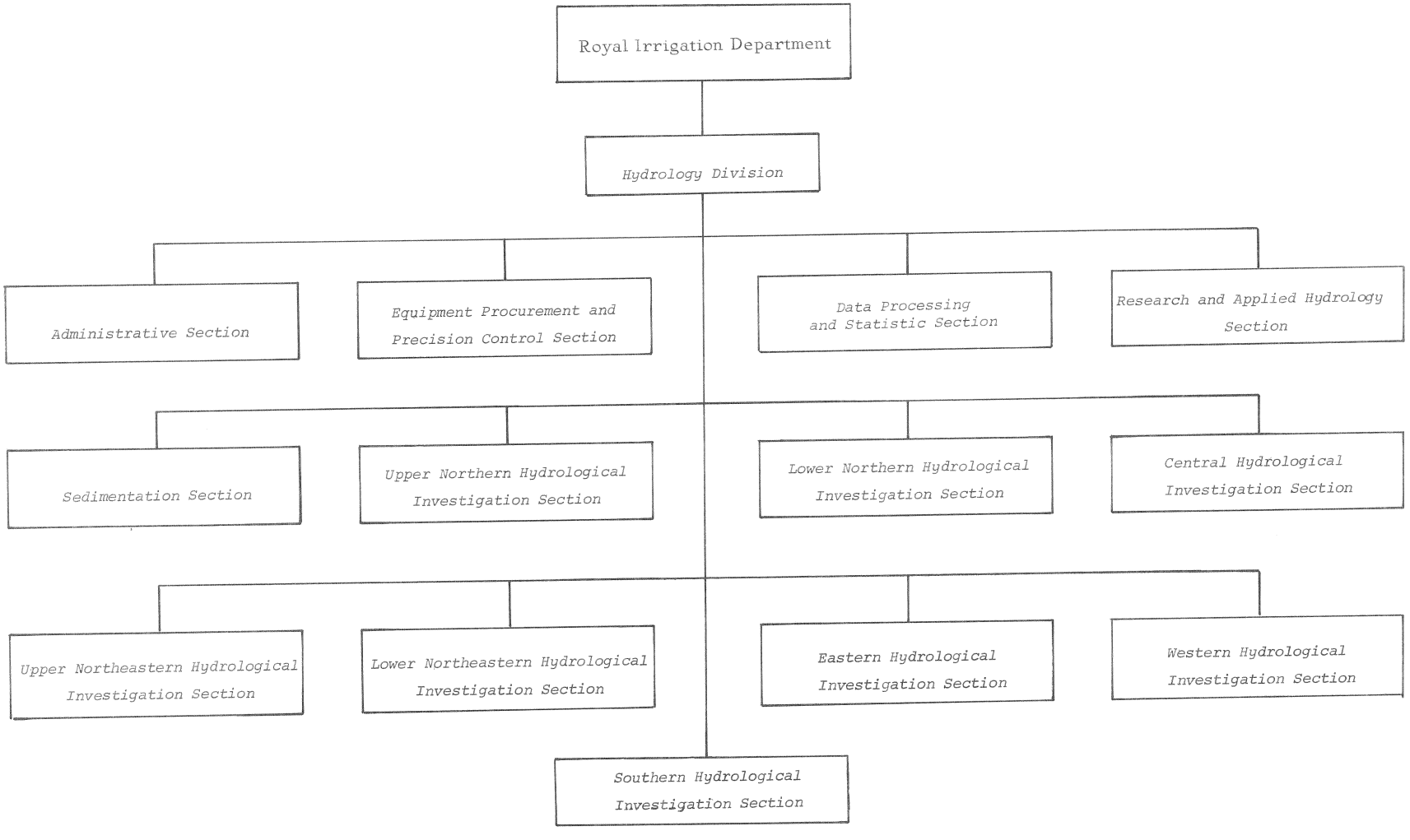
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement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

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

Organization

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

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


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

PARTICIPATION IN STREAM GAGING WORKS

* * * * * * *

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

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

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

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

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

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

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

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

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

UNITS OF MEASURE AND CONVERSION FACTORS

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

Multiply metric or Thai units	By	To obtain English units
	Length	
millimeters (mm)	.03973	inches (in)
meters (m)	39.73	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 **1995**

WATER YEAR 1995

PING RIVER BASIN

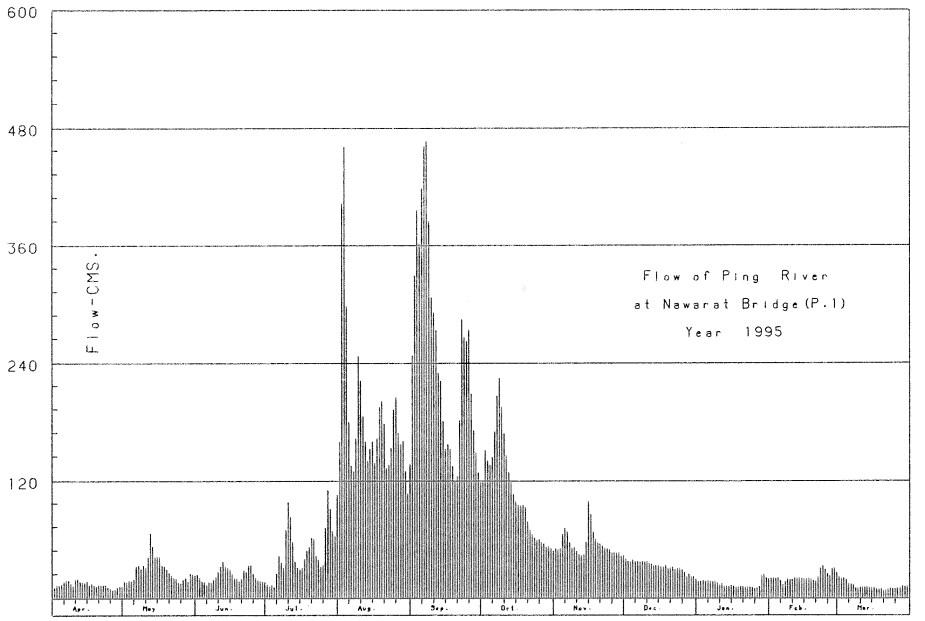
Ping River at Nawarat Bridge, Chiang Mai (P.1)

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	Fairly stable
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. 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 53 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.56	301.63	301.69	301.60	302.63	303.23	302.32	301.88	301.81	301.63	301.66	301.67	
2	301.59	301.62	301.66	301.58	304.19	303.75	302.56	301.87	301.79	301.63	301.66	301.66	
3	301.59	301.64	301.63	301.59	304.53	304.15	302.48	301.88	301.79	301.64	301.66	301.66	
4	301.60	301.63	301.62	301.57	303.55	303.95	302.45	301.97	301.80	301.63	301.66	301.65	
5	301.63	301.65	301.60	301.70	302.77	304.28	302.51	302.01	301.79	301.64	301.64	301.61	
6	301.64	301.75	301.62	301.83	302.44	304.53	302.70	301.99	301.79	301.63	301.60	301.61	
7	301.64	301.76	301.62	301.78	302.40	304.56	302.96	301.92	301.79	301.63	301.63	301.60	
8	301.61	301.73	301.64	301.74	302.65	304.08	303.08	301.88	301.79	301.63	301.65	301.56	
9	301.59	301.76	301.67	302.00	303.23	303.61	302.88	301.89	301.79	301.62	301.65	301.55	
10	301.65	301.74	301.71	302.17	303.06	303.51	302.69	301.86	301.79	301.60	301.65	301.57	
11	301.65	301.82	301.75	302.08	302.81	303.40	302.52	301.84	301.78	301.61	301.66	301.57	
12	301.63	301.98	301.79	301.92	302.63	303.11	302.39	301.83	301.77	301.58	301.66	301.57	
13	301.62	301.89	301.75	301.79	302.48	303.06	302.31	301.84	301.76	301.58	301.66	301.57	
14	301.62	301.82	301.74	301.74	302.57	302.78	302.22	301.92	301.76	301.58	301.66	301.56	
15	301.63	301.82	301.73	301.73	302.63	302.57	302.17	302.17	301.76	301.59	301.65	301.56	
16	301.59	301.82	301.69	301.74	302.46	302.61	302.15	302.10	301.75	301.58	301.65	301.56	
17	301.61	301.76	301.66	301.81	302.65	302.57	302.15	301.99	301.75	301.57	301.66	301.54	
18	301.59	301.75	301.65	301.86	302.88	302.44	302.15	301.94	301.76	301.57	301.65	301.54	
19	301.58	301.73	301.63	301.89	302.92	302.31	302.14	301.92	301.74	301.58	301.64	301.54	
20	301.60	301.70	301.65	301.95	302.76	302.36	302.05	301.91	301.74	301.57	301.63	301.52	
21	301.59	301.68	301.72	301.94	302.42	302.78	302.00	301.90	301.75	301.57	301.67	301.52	
22	301.60	301.66	301.71	301.83	302.45	303.47	301.97	301.88	301.73	301.57	301.74	301.54	
23	301.59	301.65	301.76	301.80	302.58	303.35	301.95	301.88	301.74	301.57	301.76	301.55	
24	301.57	301.62	301.76	301.75	302.86	303.33	301.93	301.87	301.74	301.56	301.73	301.55	
25	301.54	301.61	301.70	301.76	302.95	303.40	301.94	301.85	301.73	301.55	301.70	301.55	
26	301.52	301.64	301.66	302.01	302.69	302.97	301.92	301.85	301.71	301.55	301.68	301.55	
27	301.53	301.66	301.64	302.25	302.61	302.71	301.91	301.85	301.67	301.58	301.74	301.56	
28	301.56	301.63	301.63	302.13	302.63	302.54	301.89	301.85	301.69	301.68	301.74	301.58	
29	301.58	301.70	301.63	301.99	302.40	302.39	301.89	301.83	301.67	301.69	301.71	301.58	
30	301.57	301.69	301.62	301.96	302.22	302.31	301.88	301.83	301.67	301.66		301.58	
31		301.68		302.21	302.45		301.86		301.65	301.65		301.59	
Mean	301.60	301.72	301.68	301.86	302.79	303.20	302.26	301.91	301.75	301.60	301.67	301.57	
Max	301.65	301.98	301.79	302.25	304.53	304.56	303.08	302.17	301.81	301.69	301.76	301.67	304.56
Min	301.52	301.61	301.60	301.57	302.22	302.31	301.86	301.83	301.65	301.55	301.60	301.52	301.52

Annual Max Momentary Gage Height 304.77 M (MSL), at 24.00 Hours, on Aug 2, 1995
Zero Gage at Bottom Elevation 300.50 M (MSL), River Bed 299.36 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.05	17.34	24.33	13.85	160.20	247.50	119.60	51.00	40.50	17.34	20.84	22.01	
2	13.15	16.18	20.84	12.45	403.30	330.00	150.80	49.50	37.65	17.34	20.84	20.84	
3	13.15	18.51	17.34	13.15	461.40	396.50	140.40	51.00	37.65	18.51	20.84	20.84	
4	13.85	17.34	16.18	11.75	298.00	362.50	136.50	65.20	39.00	17.34	20.84	19.67	
5	17.34	19.67	13.85	25.50	179.80	418.60	144.30	71.60	37.65	18.51	18.51	15.01	
6	18.51	32.25	16.18	43.50	135.20	461.40	170.00	68.40	37.65	17.34	13.85	15.01	
7	18.51	33.60	16.18	36.30	130.00	466.80	207.00	57.20	37.65	17.34	17.34	13.85	
8	15.01	29.55	18.51	30.90	163.00	384.60	225.00	51.00	37.65	17.34	19.67	11.05	
9	13.15	33.60	22.01	70.00	247.50	307.60	195.20	52.50	37.65	16.18	19.67	10.35	
10	19.67	30.90	26.85	98.60	222.00	291.60	168.60	48.00	37.65	13.85	19.67	11.75	
11	19.67	42.00	32.25	82.80	185.40	274.00	145.60	45.00	36.30	15.01	20.84	11.75	
12	17.34	66.80	37.65	57.20	160.20	229.50	128.70	43.50	34.95	12.45	20.84	11.75	
13	16.18	52.50	32.25	37.65	140.40	222.00	118.30	45.00	33.60	12.45	20.84	11.75	
14	16.18	42.00	30.90	30.90	152.10	181.20	106.60	57.20	33.60	12.45	20.84	11.05	
15	17.34	42.00	29.55	29.55	160.20	152.10	98.60	98.60	33.60	13.15	19.67	11.05	
16	13.15	42.00	24.33	30.90	137.80	157.40	95.00	86.00	32.25	12.45	19.67	11.05	
17	15.01	33.60	20.84	40.50	163.00	152.10	95.00	68.40	32.25	11.75	20.84	9.65	
18	13.15	32.25	19.67	48.00	195.20	135.20	95.00	60.40	33.60	11.75	19.67	9.65	
19	12.45	29.55	17.34	52.50	201.00	118.30	93.20	57.20	30.90	12.45	18.51	9.65	
20	13.85	25.50	19.67	62.00	178.40	124.80	78.00	55.60	30.90	11.75	17.34	8.25	
21	13.15	23.17	28.20	60.40	132.60	181.20	70.00	54.00	32.25	11.75	22.01	8.25	
22	13.85	20.84	26.85	43.50	136.50	285.20	65.20	51.00	29.55	11.75	30.90	9.65	
23	13.15	19.67	33.60	39.00	153.40	266.00	62.00	51.00	30.90	11.75	33.60	10.35	
24	11.75	16.18	33.60	32.25	192.40	262.80	58.80	49.50	30.90	11.05	29.55	10.35	
25	9.65	15.01	25.50	33.60	205.50	274.00	60.40	46.50	29.55	10.35	25.50	10.35	
26	8.25	18.51	20.84	71.60	168.60	208.50	57.20	46.50	26.85	10.35	23.17	10.35	
27	8.95	20.84	18.51	110.50	157.40	171.40	55.60	46.50	22.01	12.45	30.90	11.05	
28	11.05	17.34	17.34	91.40	160.20	148.20	52.50	46.50	24.33	23.17	30.90	12.45	
29	12.45	25.50	17.34	68.40	130.00	128.70	52.50	43.50	22.01	24.33	26.85	12.45	
30	11.75	24.33	16.18	63.60	106.60	118.30	51.00	43.50	22.01	20.84		12.45	
31		23.17		105.30	136.50		48.00		19.67	19.67		13.15	
Total	421.71	881.70	694.68	1547.55	5753.80	7458.00	3344.60	1660.80	1002.68	464.21	644.51	386.83	24261.07 CMSDAY
Mean	14.06	28.44	23.16	49.92	185.61	248.60	107.89	55.36	32.34	14.97	22.22	12.48	66.29 CMS
Max	19.67	66.80	37.65	110.50	461.40	466.80	225.00	98.60	40.50	24.33	33.60	22.01	466.80 CMS
Min	8.25	15.01	13.85	11.75	106.60	118.30	48.00	43.50	19.67	10.35	13.85	8.25	8.25 CMS
Runoff	36.436	76.179	60.020	133.708	497.128	644.371	288.973	143.493	86.632	40.108	55.686	33.422	2096.157 MCM

Momentary Peak 504.60 CMS, at 304.77 M (MSL), at 24.00 Hours, on Aug 2, 1995

Runoff Yield 10.43 Liters/Second/Square KM, Momentary Peak Yield 79.402 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

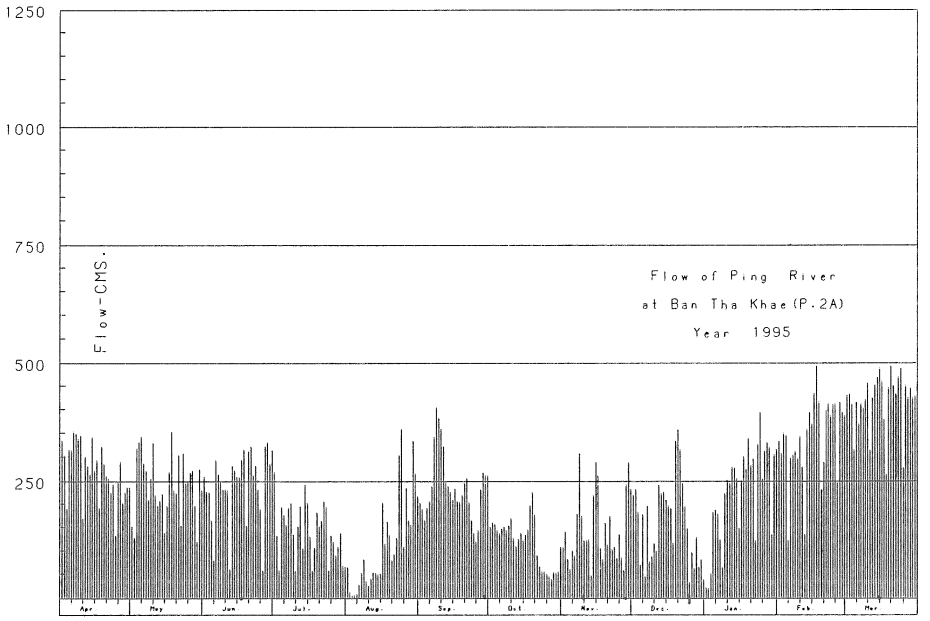
Ping River at Ban Tha Khae, Tak (P.2A)

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 good. Flow regulated by Phumiphol Dam reservoir since 1964. Stage-discharge relation defined by 50 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.60	105.04	105.39	105.42	104.65	105.22	105.04	104.86	105.27	104.35	105.60	105.83	
2	105.52	104.95	105.29	104.97	104.23	105.17	105.07	105.00	105.31	104.33	105.53	105.84	
3	105.18	105.56	105.29	104.61	104.13	105.09	105.06	104.74	105.15	104.57	105.64	105.79	
4	105.55	105.59	105.09	105.19	104.13	105.18	105.01	104.62	104.67	105.15	105.63	105.55	
5	105.55	105.62	104.73	105.13	104.18	105.23	104.99	104.83	105.13	105.17	104.92	105.80	
6	105.65	105.47	105.49	105.05	104.42	105.33	105.02	104.77	104.53	105.14	105.50	105.69	
7	105.64	105.43	105.41	105.18	104.58	105.62	105.04	105.14	105.20	104.93	105.52	105.79	
8	105.61	105.24	105.36	105.22	104.74	105.77	105.01	105.53	104.71	104.65	105.54	105.77	
9	105.63	105.38	105.31	104.98	104.45	105.72	105.05	105.12	104.77	105.28	105.50	105.81	
10	105.10	105.59	105.31	104.60	104.38	105.66	105.10	104.92	104.90	105.37	105.62	105.89	
11	105.51	105.27	105.30	105.04	104.50	105.57	104.94	104.93	104.82	105.35	105.45	105.55	
12	105.46	105.20	104.62	105.19	104.58	105.36	104.87	104.93	105.34	105.45	104.98	105.82	
13	105.41	105.23	105.46	104.85	104.58	105.33	104.94	104.54	105.28	105.45	105.66	105.88	
14	105.62	105.28	105.43	105.34	104.55	105.29	104.99	105.27	105.29	105.38	105.75	105.92	
15	105.43	104.99	105.39	105.22	104.57	105.24	104.92	105.48	105.24	105.03	105.69	105.96	
16	105.49	105.20	105.39	104.96	105.22	105.31	104.97	105.40	105.20	105.37	105.84	105.90	
17	105.18	105.42	105.49	104.61	104.89	105.23	105.02	104.85	105.18	105.51	105.97	105.71	
18	105.57	105.65	105.55	104.85	105.08	105.22	105.20	104.73	104.90	105.44	105.80	105.41	
19	105.47	105.30	105.05	105.15	104.97	105.27	105.29	105.07	105.60	105.61	105.31	105.87	
20	105.40	105.28	105.54	105.04	104.73	105.35	105.13	104.88	105.66	105.46	105.48	105.97	
21	105.38	105.52	105.57	105.08	104.79	105.38	104.78	105.12	105.55	105.50	105.76	105.88	
22	105.29	105.05	105.40	105.23	104.95	105.22	104.66	104.84	105.35	104.92	105.79	105.84	
23	105.34	105.53	105.46	105.19	105.52	105.09	104.59	104.86	105.19	105.58	105.73	105.92	
24	104.97	105.35	105.37	104.61	105.66	104.99	104.59	104.75	105.03	105.75	105.79	105.96	
25	105.36	105.36	105.17	104.97	104.86	104.91	104.56	104.98	104.43	105.38	105.79	105.45	
26	105.48	105.42	104.61	104.91	105.32	105.01	104.52	104.75	104.81	105.54	105.36	105.88	
27	105.22	105.43	105.57	104.78	105.09	105.31	104.49	104.61	104.63	105.59	105.80	105.82	
28	105.29	105.20	105.59	104.86	105.05	105.42	104.58	105.34	104.95	105.56	105.75	105.87	
29	105.32	104.91	105.47	104.99	105.60	105.40	104.58	105.48	104.65	104.98	105.73	105.82	
30	105.32	105.44	105.55	104.66	105.41	105.40	104.59	105.31	104.73	105.52		105.83	
31		105.30		104.65	105.26		104.86		104.48	105.55		105.87	
Mean	105.42	105.33	105.32	104.98	104.81	105.31	104.89	104.99	105.03	105.25	105.60	105.80	
Max	105.65	105.65	105.59	105.42	105.66	105.77	105.29	105.53	105.66	105.75	105.97	105.97	105.97
Min	104.97	104.91	104.61	104.60	104.13	104.91	104.49	104.54	104.43	104.33	104.92	105.41	104.13

Annual Max Momentary Gage Height 106.30 M (MSL), at 7.00 Hours, on Feb 17, 1995
Zero Gage at Bottom Elevation 104.00 M (MSL), River Bed 102.74 M (MSL)
Left Bank Elevation 109.63 M (MSL)
Right Bank Elevation 109.40 M (MSL), Drainage Area 38862 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	336.0	153.2	258.8	269.2	67.0	204.4	153.2	109.2	220.4	23.5	336.0	431.2	
2	305.6	130.0	226.8	134.8	13.1	189.6	161.6	142.0	233.2	21.3	309.4	435.6	
3	192.4	320.8	226.8	59.8	6.8	167.2	158.8	84.0	184.0	53.5	352.0	413.8	
4	317.0	332.2	167.2	195.2	6.8	192.4	144.8	61.6	70.6	184.0	348.0	317.0	
5	317.0	344.0	82.0	178.4	9.8	207.6	139.6	102.6	178.4	189.6	122.8	418.0	
6	356.0	287.2	294.4	156.0	31.8	239.6	147.6	90.0	47.5	181.2	298.0	372.0	
7	352.0	272.8	265.6	192.4	55.0	344.0	153.2	181.2	198.0	125.2	305.6	413.8	
8	340.0	210.8	249.2	204.4	84.0	405.4	144.8	309.4	78.0	67.0	313.2	405.4	
9	348.0	255.6	233.2	137.2	36.0	384.4	156.0	175.6	90.0	223.6	298.0	422.4	
10	170.0	332.2	233.2	58.0	26.8	360.0	170.0	122.8	118.0	252.4	344.0	457.6	
11	301.8	220.4	230.0	153.2	43.0	324.6	127.6	125.2	100.4	246.0	280.0	317.0	
12	283.6	198.0	61.6	195.2	55.0	249.2	111.4	125.2	242.8	280.0	137.2	426.8	
13	265.6	207.6	283.6	107.0	55.0	239.6	127.6	49.0	223.6	280.0	360.0	453.2	
14	344.0	223.6	272.8	242.8	50.5	226.8	139.6	220.4	226.8	255.6	397.0	471.6	
15	272.8	139.6	258.8	204.4	53.5	210.8	122.8	290.8	210.8	150.4	372.0	490.8	
16	294.4	198.0	258.8	132.4	204.4	233.2	134.8	262.0	198.0	252.4	435.6	462.0	
17	192.4	269.2	294.4	59.8	115.8	207.6	147.6	107.0	192.4	301.8	495.6	380.2	
18	324.6	356.0	317.0	107.0	164.4	204.4	198.0	82.0	118.0	276.4	418.0	265.6	
19	287.2	230.0	156.0	184.0	134.8	220.4	226.8	161.6	336.0	340.0	233.2	448.8	
20	262.0	223.6	313.2	153.2	82.0	246.0	178.4	113.6	360.0	283.6	290.8	495.6	
21	255.6	305.6	324.6	164.4	94.0	255.6	92.0	175.6	317.0	298.0	401.2	453.2	
22	226.8	156.0	262.0	207.6	130.0	204.4	68.8	104.8	246.0	122.8	413.8	435.6	
23	242.8	309.4	283.6	195.2	305.6	167.2	56.5	109.2	195.2	328.4	388.6	471.6	
24	134.8	246.0	252.4	59.8	360.0	139.6	56.5	86.0	150.4	397.0	413.8	490.8	
25	249.2	249.2	189.6	134.8	109.2	120.4	52.0	137.2	33.2	255.6	413.8	280.0	
26	290.8	269.2	59.8	120.4	236.4	144.8	46.0	86.0	98.2	313.2	249.2	453.2	
27	204.4	272.8	324.6	92.0	167.2	233.2	41.6	59.8	63.4	332.2	418.0	426.8	
28	226.8	198.0	332.2	109.2	156.0	269.2	55.0	242.8	130.0	320.8	397.0	448.8	
29	236.4	120.4	287.2	139.6	336.0	262.0	55.0	290.8	67.0	137.2	388.6	426.8	
30	236.4	276.4	317.0	68.8	265.6	262.0	56.5	233.2	82.0	305.6		431.2	
31		230.0		67.0	217.2		109.2		40.2	317.0		448.8	
Total	8166.4	7537.8	7316.4	4483.2	3672.7	7115.6	3733.3	4440.6	5049.5	7115.3	9930.4	13065.2	81626.4 CMSDAY
Mean	272.2	243.2	243.9	144.6	118.5	237.2	120.4	148.0	162.9	229.5	342.4	421.5	223.0 CMS
Max	356.0	356.0	332.2	269.2	360.0	405.4	226.8	309.4	360.0	397.0	495.6	495.6	495.6 CMS
Min	134.8	120.4	59.8	58.0	6.8	120.4	41.6	49.0	33.2	21.3	122.8	265.6	6.8 CMS
Runoff	705.58	651.27	632.14	387.35	317.32	614.79	322.56	383.67	436.28	614.76	857.99	1128.83	7052.52 MCM

Momentary Peak 659.00 CMS, at 106.30 M (MSL), at 7.00 Hours, on Feb 17, 1995

Runoff Yield 5.74 Liters/Second/Square KM, Momentary Peak Yield 16.957 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

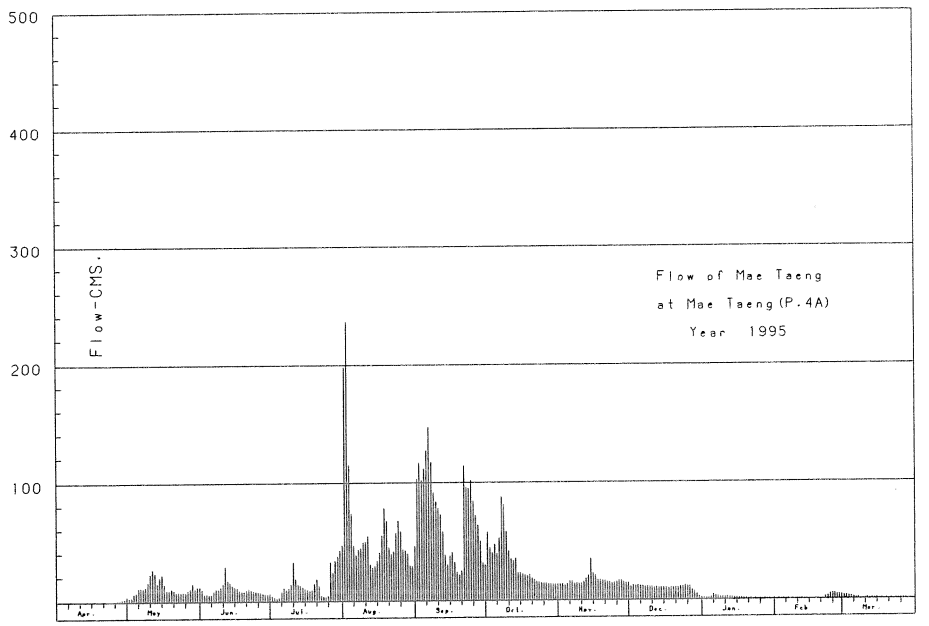
Mae Taeng River at Mae Taeng, Chiang Mai (P.4A)

Location	Lat. 19°-07'-15" N., Long. 98°-56'-51" E., on right bank at the bridge of Chiang Mai-Fang Highway, Amphoe Mae Taeng, Chiang Mai.
Drainage Area	1,902 sq.km.
Type of Gage	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	No overbank flow.
General Description	Records fair. Flow regulated by Mae Taeng weir about 7 kilometers above gage site. Stage-discharge relation defined by 51 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	334.78	335.05	335.53	335.19	338.25	337.55	336.91	335.73	335.80	335.10	334.98	335.30	
2	334.78	335.10	335.30	335.07	338.45	337.69	336.64	335.72	335.85	335.09	334.98	335.27	
3	334.78	335.31	335.28	335.03	337.68	337.54	336.55	335.69	335.85	335.08	334.98	335.24	
4	334.78	335.39	335.27	335.04	337.19	337.64	336.71	335.73	335.85	335.18	334.98	335.19	
5	334.78	335.62	335.25	335.42	336.69	337.78	336.52	335.84	335.84	335.35	334.98	335.13	
6	334.78	335.60	335.46	335.59	336.51	337.94	336.81	335.83	335.81	335.30	334.98	335.06	
7	334.78	335.60	335.54	335.52	336.62	337.70	337.38	335.75	335.80	335.24	334.98	335.05	
8	334.78	335.63	335.56	335.58	336.64	337.42	337.29	335.75	335.80	335.19	334.98	335.03	
9	334.78	335.85	335.62	335.75	336.75	337.33	336.93	335.75	335.79	335.19	334.98	335.03	
10	334.75	336.08	335.78	336.37	336.75	337.25	336.59	335.74	335.78	335.19	334.98	335.03	
11	334.73	336.20	336.26	335.93	336.85	337.17	336.42	335.82	335.76	335.19	334.98	335.02	
12	334.73	336.11	335.89	335.75	336.31	336.93	336.37	335.91	335.77	335.16	334.97	335.03	
13	334.73	335.80	335.80	335.69	336.23	336.51	336.42	336.01	335.75	335.15	334.97	335.02	
14	334.72	335.98	335.71	335.64	336.27	336.29	336.10	336.42	335.75	335.12	334.96	335.02	
15	334.72	336.07	335.64	335.55	336.38	336.49	336.09	336.35	335.75	335.10	334.95	335.02	
16	334.72	335.75	335.61	335.50	336.55	336.55	336.07	336.27	335.74	335.09	334.95	335.01	
17	334.71	335.52	335.48	335.47	336.87	336.35	336.03	336.10	335.74	335.08	334.95	335.01	
18	334.71	335.47	335.45	335.49	337.26	336.11	336.02	336.08	335.74	335.06	334.95	335.00	
19	334.71	335.58	335.42	335.76	337.09	336.05	336.04	336.07	335.75	335.04	334.96	335.00	
20	334.71	335.49	335.51	335.94	336.66	336.14	335.95	336.05	335.75	335.03	334.96	335.00	
21	334.70	335.41	335.57	335.69	336.52	337.67	335.89	336.02	335.75	335.02	334.97	335.00	
22	334.70	335.40	335.53	335.19	336.58	337.47	335.83	336.00	335.78	335.01	335.16	334.99	
23	334.70	335.38	335.45	335.15	336.90	337.46	335.79	335.95	335.81	335.01	335.26	335.00	
24	334.70	335.39	335.45	335.08	337.10	337.54	335.78	335.97	335.85	335.01	335.37	335.00	
25	334.75	335.39	335.42	335.19	336.94	337.34	335.77	336.02	335.83	335.01	335.44	335.00	
26	334.80	335.48	335.37	336.35	336.61	337.16	335.76	336.06	335.80	335.00	335.40	335.00	
27	334.87	335.59	335.34	336.11	336.60	337.03	335.75	336.07	335.64	335.00	335.36	335.00	
28	334.90	335.77	335.30	336.38	336.53	336.76	335.73	335.99	335.54	335.00	335.33	334.99	
29	335.00	335.57	335.29	336.48	336.28	336.33	335.72	335.96	335.42	335.00	335.31	334.98	
30	335.14	335.63	335.31	336.60	336.26	336.29	335.71	335.95	335.23	335.00		334.98	
31		335.66		336.70	336.68		335.71		335.15	334.99		334.98	
Mean	334.77	335.61	335.51	335.68	336.81	337.05	336.23	335.95	335.72	335.10	335.07	335.04	
Max	335.14	336.20	336.26	336.70	338.45	337.94	337.38	336.42	335.85	335.35	335.44	335.30	338.45
Min	334.70	335.05	335.25	335.03	336.23	336.05	335.71	335.69	335.15	334.99	334.95	334.98	334.70

Annual Max Momentary Gage Height 338.84 M (MSL), at 17.00 Hours, on Aug 1, 1995
Zero Gage at Bottom Elevation 333.74 M (MSL), River Bed 334.43 M (MSL)
Left Bank Elevation 339.63 M (MSL)
Right Bank Elevation 340.00 M (MSL), Drainage Area 1902 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	2.90	9.94	4.58	198.00	103.50	58.00	13.96	11.60	1.80	1.00	3.80	
2	0.60	3.50	6.20	3.14	237.00	117.00	44.80	13.74	12.55	1.73	1.00	3.47	
3	0.60	6.36	5.90	2.66	116.00	102.60	40.90	13.09	12.55	1.66	1.00	3.14	
4	0.60	7.64	5.75	2.78	74.35	112.00	48.00	13.96	12.55	2.52	1.00	2.61	
5	0.60	11.62	5.45	8.12	47.05	127.20	39.64	16.46	12.36	4.45	1.00	2.07	
6	0.60	11.20	8.76	11.02	39.22	147.60	53.00	16.22	11.79	3.80	1.00	1.52	
7	0.60	11.20	10.12	9.76	43.90	118.00	88.40	14.40	11.60	3.14	1.00	1.45	
8	0.60	11.83	10.48	10.84	44.80	91.80	81.30	14.40	11.60	2.61	1.00	1.31	
9	0.60	16.70	11.62	14.40	50.00	84.40	59.00	14.40	11.42	2.61	1.00	1.31	
10	0.45	23.16	15.06	33.60	50.00	78.50	42.58	14.18	11.24	2.61	1.00	1.31	
11	0.35	27.00	29.28	18.71	55.00	73.05	35.60	15.98	10.88	2.61	1.00	1.24	
12	0.35	24.12	17.66	14.40	31.20	59.00	33.60	18.17	11.06	2.34	0.95	1.31	
13	0.35	15.50	15.50	13.09	28.14	39.22	35.60	20.92	10.70	2.25	0.95	1.24	
14	0.30	20.06	13.52	12.04	29.66	30.42	23.80	35.60	10.70	1.98	0.90	1.24	
15	0.30	22.84	12.04	10.30	34.00	38.40	23.48	23.20	10.70	1.80	0.85	1.24	
16	0.30	14.40	11.41	9.40	40.90	40.90	22.84	21.34	10.52	1.73	0.85	1.17	
17	0.25	9.76	9.08	8.92	56.00	32.80	21.56	17.60	10.52	1.66	0.85	1.17	
18	0.25	8.92	8.60	9.24	79.20	24.12	21.24	17.18	10.52	1.52	0.85	1.10	
19	0.25	10.84	8.12	14.62	67.90	22.20	21.88	16.97	10.70	1.38	0.90	1.10	
20	0.25	9.24	9.58	18.98	45.70	25.08	19.25	16.55	10.70	1.31	0.90	1.10	
21	0.20	7.96	10.66	13.09	39.64	115.00	17.66	15.92	10.70	1.24	0.95	1.10	
22	0.20	7.80	9.94	4.58	42.16	96.30	16.22	15.50	11.24	1.17	2.34	1.05	
23	0.20	7.48	8.60	4.10	57.50	95.40	15.28	14.50	11.79	1.17	3.36	1.10	
24	0.20	7.64	8.60	3.26	68.50	102.60	15.06	14.90	12.55	1.17	4.71	1.10	
25	0.45	7.64	8.12	4.58	59.50	85.20	14.84	15.92	12.17	1.17	5.70	1.10	
26	0.70	9.08	7.32	32.80	43.45	72.40	14.62	16.76	11.60	1.10	5.10	1.10	
27	1.20	11.02	6.84	24.12	43.00	64.30	14.40	16.97	8.78	1.10	4.58	1.10	
28	1.42	14.84	6.20	34.00	40.06	50.50	13.96	15.30	7.20	1.10	4.19	1.05	
29	2.30	10.66	6.05	38.00	30.04	32.00	13.74	14.70	5.40	1.10	3.93	1.00	
30	3.98	11.83	6.36	43.00	29.28	30.42	13.52	14.50	3.03	1.10		1.00	
31		12.46		47.50	46.60		13.52		2.25	1.05		1.00	
Total	19.65	377.20	302.76	479.63	1867.75	2211.91	977.29	503.29	322.97	57.98	53.86	45.60	7219.89 CMSDAY
Mean	0.65	12.17	10.09	15.47	60.25	73.73	31.53	16.78	10.42	1.87	1.86	1.47	19.73 CMS
Max	3.98	27.00	29.28	47.50	237.00	147.60	88.40	35.60	12.55	4.45	5.70	3.80	237.00 CMS
Min	0.20	2.90	5.45	2.66	28.14	22.20	13.52	13.09	2.25	1.05	0.85	1.00	0.20 CMS
Runoff	1.698	32.590	26.158	41.440	161.374	191.109	84.438	43.484	27.905	5.009	4.654	3.940	623.799 MCM

Momentary Peak 329.40 CMS, at 338.84 M (MSL), at 17.00 Hours, on Aug 1, 1995

Runoff Yield 10.37 Liters/Second/Square KM, Momentary Peak Yield 173.186 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

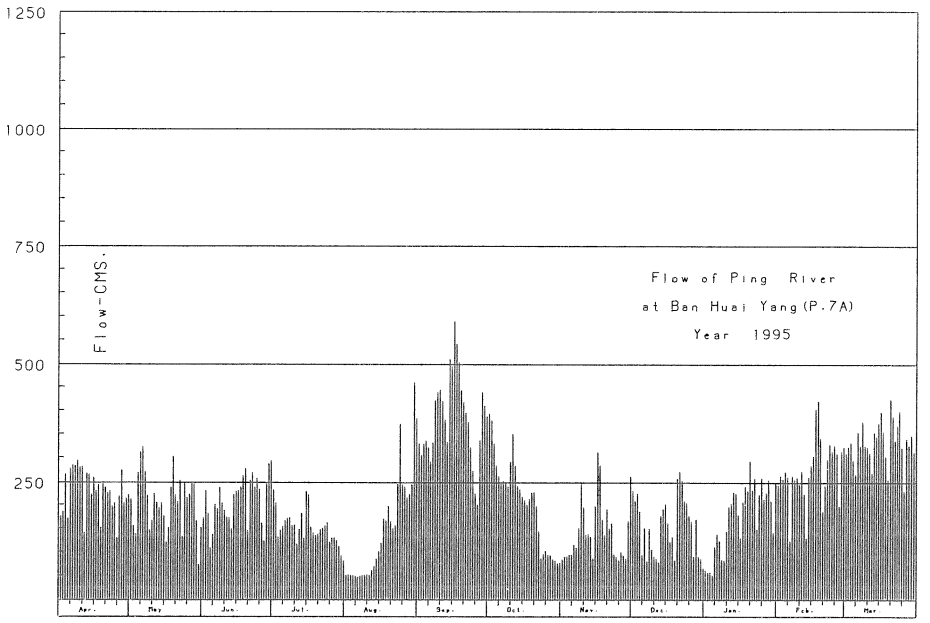
Ping River at Ban Huai Yang, Kamphaeng Phet (P.7A)

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.
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 26 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	73.30	73.43	73.28	73.50	72.73	73.81	73.99	72.90	73.49	72.78	73.53	73.75	
2	73.33	73.22	73.49	73.40	72.73	73.74	73.95	72.92	73.42	72.76	73.60	73.79	
3	73.61	73.14	73.32	73.11	72.73	73.81	73.81	72.93	73.47	72.76	73.58	73.82	
4	73.28	73.62	73.01	73.18	72.72	73.83	73.67	72.94	73.33	72.73	73.63	73.70	
5	73.65	73.76	73.14	73.21	72.72	73.79	73.60	72.95	72.94	73.02	73.59	73.61	
6	73.67	73.79	73.39	73.26	72.70	73.69	73.55	73.04	73.20	73.14	73.08	73.88	
7	73.67	73.63	73.36	73.28	72.72	73.82	73.56	73.01	72.88	73.08	73.60	73.80	
8	73.70	73.46	73.52	73.28	72.72	74.06	73.55	73.20	73.19	72.89	73.57	73.94	
9	73.66	73.18	73.40	73.22	72.73	74.11	73.52	73.54	73.00	72.89	73.59	73.80	
10	73.66	73.26	73.34	73.22	72.73	74.12	73.69	73.37	72.92	73.17	73.54	73.79	
11	73.15	73.47	73.29	73.05	72.73	74.06	73.87	73.13	72.90	73.37	73.63	73.75	
12	73.62	73.41	73.28	73.18	72.78	73.95	73.67	73.14	72.87	73.40	73.47	73.62	
13	73.61	73.36	73.19	73.32	72.83	73.82	73.53	73.12	73.30	73.48	73.10	73.88	
14	73.47	73.40	73.46	73.10	72.90	74.29	73.50	72.91	73.35	73.47	73.59	73.85	
15	73.59	73.30	73.49	73.49	72.98	74.25	73.45	73.38	73.39	73.31	73.67	73.93	
16	73.49	73.07	73.49	73.46	73.06	74.49	73.42	73.76	73.24	73.10	73.73	74.00	
17	73.54	73.20	73.52	73.21	73.27	74.37	73.39	73.67	73.07	73.41	74.01	73.88	
18	73.20	73.52	73.60	73.15	73.26	74.27	73.43	73.27	73.11	73.52	74.06	73.73	
19	73.54	73.73	73.65	73.13	73.38	74.12	73.48	73.13	72.89	73.49	73.84	73.57	
20	73.52	73.46	73.17	73.14	73.25	74.05	73.48	73.35	73.58	73.70	73.33	74.07	
21	73.48	73.41	73.57	73.18	73.19	73.99	73.38	73.19	73.63	73.50	73.53	73.97	
22	73.49	73.57	73.62	73.20	73.22	73.94	73.17	73.24	73.57	73.58	73.71	73.83	
23	73.38	73.12	73.52	73.22	73.54	73.79	72.91	72.95	73.42	73.19	73.81	73.92	
24	73.40	73.55	73.58	73.24	73.93	73.63	72.95	72.92	73.40	73.46	73.76	74.00	
25	73.11	73.44	73.50	73.07	73.54	73.47	72.98	72.89	73.30	73.59	73.80	73.79	
26	73.45	73.47	73.24	73.10	73.52	73.39	72.94	72.97	73.25	73.43	73.75	73.49	
27	73.64	73.56	73.08	73.11	73.44	73.83	72.94	72.94	72.92	73.48	73.38	73.84	
28	73.40	73.55	73.55	73.08	73.47	74.11	72.90	72.90	73.27	73.57	73.76	73.80	
29	73.44	73.26	73.68	73.03	73.54	74.03	72.88	73.26	72.93	73.42	73.79	73.86	
30	73.46	72.85	73.70	72.93	74.16	73.97	72.86	73.60	72.90	73.15		73.76	
31		73.20		72.88	73.96		72.86		72.81	73.55		73.85	
Mean	73.48	73.40	73.41	73.19	73.13	73.95	73.38	73.15	73.19	73.27	73.62	73.82	
Max	73.70	73.79	73.70	73.50	74.16	74.49	73.99	73.76	73.63	73.70	74.06	74.07	74.49
Min	73.11	72.85	73.01	72.88	72.70	73.39	72.86	72.89	72.81	72.73	73.08	73.49	72.70

Annual Max Momentary Gage Height 74.52 M (MSL), at 12.00 Hours, on Sep 16, 1995
Zero Gage at Bottom Elevation 71.73 M (MSL), River Bed 71.27 M (MSL)
Left Bank Elevation 77.74 M (MSL)
Right Bank Elevation 77.53 M (MSL), Drainage Area 42700 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	180.0	214.7	174.8	235.0	53.4	331.6	396.4	87.0	232.1	62.4	243.7	312.0	
2	187.8	159.2	232.1	206.0	53.4	308.8	382.0	91.2	211.8	58.8	264.0	324.8	
3	267.2	140.2	185.2	133.3	53.4	331.6	331.6	93.3	226.3	58.8	258.2	335.2	
4	174.8	270.4	110.3	149.4	51.6	338.8	286.4	95.4	187.8	53.4	273.6	296.0	
5	280.0	315.2	140.2	156.6	51.6	324.8	264.0	97.5	95.4	112.6	261.1	267.2	
6	286.4	324.8	203.4	169.6	48.0	292.8	249.5	117.2	154.0	140.2	126.4	356.8	
7	286.4	273.6	195.6	174.8	51.6	335.2	252.4	110.3	82.8	126.4	264.0	328.0	
8	296.0	223.4	240.8	174.8	51.6	422.8	249.5	154.0	151.7	84.9	255.3	378.4	
9	283.2	149.4	206.0	159.2	53.4	441.8	240.8	246.6	108.0	84.9	261.1	328.0	
10	283.2	169.6	190.4	159.2	53.4	445.6	292.8	198.2	91.2	147.1	246.6	324.8	
11	142.5	226.3	177.4	119.5	53.4	422.8	353.2	137.9	87.0	198.2	273.6	312.0	
12	270.4	208.9	174.8	149.4	62.4	382.0	286.4	140.2	80.7	206.0	226.3	270.4	
13	267.2	195.6	151.7	185.2	72.3	335.2	243.7	135.6	180.0	229.2	131.0	356.8	
14	226.3	206.0	223.4	131.0	87.0	512.0	235.0	89.1	193.0	226.3	261.1	346.0	
15	261.1	180.0	232.1	232.1	103.8	496.0	220.5	200.8	203.4	182.6	286.4	374.8	
16	232.1	124.1	232.1	223.4	121.8	592.0	211.8	315.2	164.4	131.0	305.6	400.0	
17	246.6	154.0	240.8	156.6	172.2	544.0	203.4	286.4	124.1	208.9	403.8	356.8	
18	154.0	240.8	264.0	142.5	169.6	504.0	214.7	172.2	133.3	240.8	422.8	305.6	
19	246.6	305.6	280.0	137.9	200.8	445.6	229.2	137.9	84.9	232.1	342.4	255.3	
20	240.8	223.4	147.1	140.2	167.0	419.0	229.2	193.0	258.2	296.0	187.8	426.6	
21	229.2	208.9	255.3	149.4	151.7	396.4	200.8	151.7	273.6	235.0	243.7	389.2	
22	232.1	255.3	270.4	154.0	159.2	378.4	147.1	164.4	255.3	258.2	299.2	338.8	
23	200.8	135.6	240.8	159.2	246.6	324.8	89.1	97.5	211.8	151.7	331.6	371.2	
24	206.0	249.5	258.2	164.4	374.8	273.6	97.5	91.2	206.0	223.4	315.2	400.0	
25	133.3	217.6	235.0	124.1	246.6	226.3	103.8	84.9	180.0	261.1	328.0	324.8	
26	220.5	226.3	164.4	131.0	240.8	203.4	95.4	101.7	167.0	214.7	312.0	232.1	
27	276.8	252.4	126.4	133.3	217.6	338.8	95.4	95.4	91.2	229.2	200.8	342.4	
28	206.0	249.5	249.5	126.4	226.3	441.8	87.0	87.0	172.2	255.3	315.2	328.0	
29	217.6	169.6	289.6	114.9	246.6	411.4	82.8	169.6	93.3	211.8	324.8	349.6	
30	223.4	76.5	296.0	93.3	460.8	389.2	78.6	264.0	87.0	142.5		315.2	
31		154.0		82.8	385.6		78.6		68.1	249.5		346.0	
Total	6958.3	6500.4	6387.8	4768.5	4688.3	11610.5	6528.6	4406.4	4855.6	5513.0	7965.3	10392.8	80575.5 CMSDAY
Mean	231.9	209.7	212.9	153.8	151.2	387.0	210.6	146.9	156.6	177.8	274.7	335.3	220.2 CMS
Max	296.0	324.8	296.0	235.0	460.8	592.0	396.4	315.2	273.6	296.0	422.8	426.6	592.0 CMS
Min	133.3	76.5	110.3	82.8	48.0	203.4	78.6	84.9	68.1	53.4	126.4	232.1	48.0 CMS
Runoff	601.20	561.63	551.91	412.00	405.07	1003.15	564.07	380.71	419.52	476.32	688.20	897.94	6961.72 MCM

Momentary Peak 604.00 CMS, at 74.52 M (MSL), at 12.00 Hours, on Sep 16, 1995

Runoff Yield 5.16 Liters/Second/Square KM, Momentary Peak Yield 14.15 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

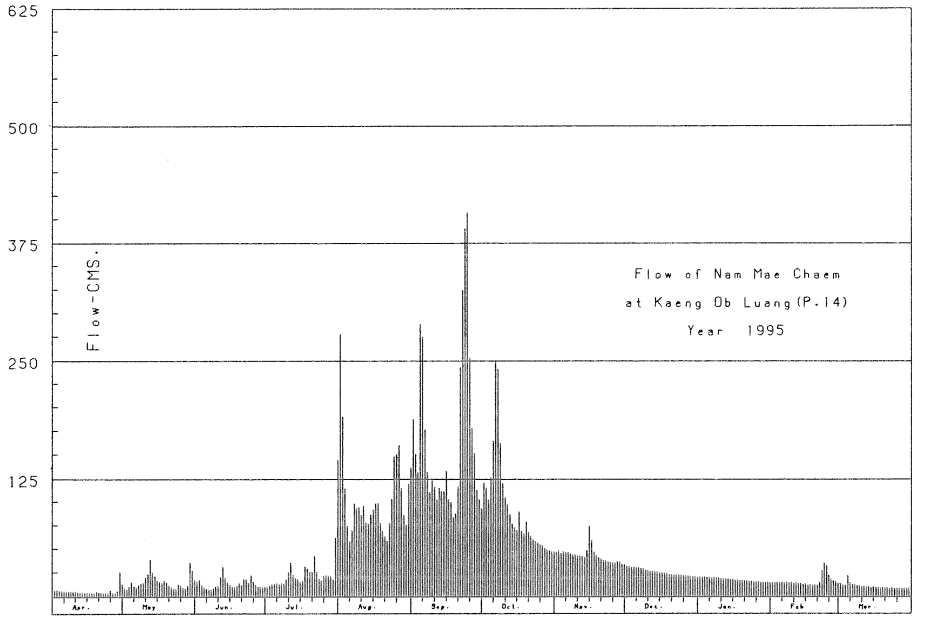
Nam Mae Chaem at Kaeng Ob Luang, Chiang Mai (P.14)

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.
Overbank Flow Conditions	Overbank flow starts at elevation +282.26 m.(M.S.L.), and is included.
General Description	Records good. The concrete weir situated about 6 kilometers downstream from the gage site. Stage-discharge relation defined by 106 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	277.72	277.81	278.01	277.84	281.02	280.19	279.51	278.61	278.37	278.14	277.99	277.96	
2	277.72	277.78	278.07	277.90	280.22	279.83	279.45	278.63	278.36	278.14	278.00	277.92	
3	277.70	277.86	277.91	277.93	279.44	279.63	279.31	278.59	278.35	278.14	278.00	277.92	
4	277.68	278.00	277.82	277.96	278.98	281.12	279.58	278.61	278.34	278.14	278.00	278.18	
5	277.68	277.88	277.80	277.97	278.77	281.00	279.97	278.60	278.34	278.13	278.00	277.99	
6	277.67	277.83	277.76	277.95	278.93	280.09	280.76	278.60	278.33	278.13	278.00	277.94	
7	277.66	277.92	277.73	277.97	279.26	279.64	280.69	278.58	278.33	278.13	278.00	277.93	
8	277.66	277.95	277.80	277.96	279.20	279.40	279.94	278.56	278.32	278.13	278.00	277.91	
9	277.66	277.99	277.86	278.07	279.22	279.56	279.51	278.56	278.30	278.12	278.00	277.89	
10	277.66	278.12	277.88	278.25	279.12	279.46	279.34	278.54	278.28	278.11	277.99	277.88	
11	277.64	278.21	278.14	278.42	279.23	279.31	279.25	278.54	278.27	278.10	277.98	277.87	
12	277.63	278.48	278.35	278.18	279.02	279.45	279.13	278.53	278.26	278.10	277.97	277.86	
13	277.62	278.24	278.11	278.11	279.01	279.41	279.01	278.52	278.26	278.09	277.96	277.85	
14	277.61	278.16	278.00	278.08	279.12	279.41	278.96	278.63	278.25	278.09	277.95	277.85	
15	277.60	278.05	277.92	278.01	279.19	279.65	278.93	278.98	278.24	278.08	277.95	277.85	
16	277.60	278.01	277.87	278.03	279.26	279.31	279.16	278.79	278.23	278.07	277.93	277.84	
17	277.60	277.98	277.83	278.35	279.27	279.28	278.92	278.61	278.23	278.06	277.93	277.84	
18	277.59	278.04	277.90	278.32	279.02	279.09	278.88	278.55	278.21	278.06	277.92	277.83	
19	277.67	278.00	277.97	278.24	278.92	279.13	279.04	278.52	278.20	278.05	277.92	277.83	
20	277.64	277.90	277.92	278.25	278.84	279.47	278.91	278.49	278.19	278.05	277.92	277.83	
21	277.60	277.84	278.08	278.54	278.78	280.70	278.85	278.47	278.19	278.04	277.99	277.82	
22	277.59	277.80	278.07	278.25	279.02	281.44	278.80	278.46	278.19	278.04	278.29	277.81	
23	277.59	277.78	277.99	278.10	279.32	282.01	278.77	278.45	278.19	278.02	278.42	277.81	
24	277.59	277.94	278.18	278.04	279.80	282.14	278.75	278.43	278.18	278.02	278.38	277.81	
25	277.70	277.89	278.02	278.16	279.83	280.80	278.73	278.43	278.18	278.02	278.19	277.81	
26	277.60	277.81	277.92	278.17	279.92	280.10	278.71	278.42	278.17	278.02	278.09	277.80	
27	277.61	277.80	277.87	278.17	279.45	279.84	278.67	278.45	278.17	278.01	278.05	277.80	
28	277.67	277.90	277.85	278.15	279.12	279.43	278.64	278.44	278.15	278.00	278.02	277.80	
29	278.25	278.43	277.84	278.08	278.99	279.31	278.63	278.40	278.15	278.00	277.98	277.82	
30	277.95	278.27	277.84	278.82	279.50	279.20	278.61	278.39	278.14	278.00		277.81	
31		278.06		279.77	279.68		278.61		278.14	277.99		277.81	
Mean	277.67	277.99	277.94	278.19	279.30	279.95	279.16	278.55	278.24	278.07	278.03	277.87	
Max	278.25	278.48	278.35	279.77	281.02	282.14	280.76	278.98	278.37	278.14	278.42	278.18	282.14
Min	277.59	277.78	277.73	277.84	278.77	279.09	278.61	278.39	278.14	277.99	277.92	277.80	277.59

Annual Max Momentary Gage Height 283.28 M (MSL), at 22.00 Hours, on Sep 22, 1995
Zero Gage at Bottom Elevation 275.80 M (MSL), River Bed 277.18 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.08	9.30	15.90	10.20	278.20	187.95	120.90	47.97	33.12	21.30	15.15	14.10	
2	7.08	8.52	18.30	12.00	191.10	151.50	115.50	49.31	32.56	21.30	15.50	12.70	
3	6.60	10.80	12.35	13.05	114.60	131.85	103.35	46.67	32.00	21.30	15.50	12.70	
4	6.12	15.50	9.60	14.10	75.30	289.20	127.20	47.97	31.44	21.30	15.50	23.10	
5	6.12	11.40	9.00	14.45	59.04	276.00	165.50	47.30	31.44	20.85	15.50	15.15	
6	5.88	9.90	8.04	13.75	71.05	177.50	249.60	47.30	30.88	20.85	15.50	13.40	
7	5.64	12.70	7.32	14.45	99.10	132.80	241.90	46.04	30.88	20.85	15.50	13.05	
8	5.64	13.75	9.00	14.10	94.00	111.00	162.50	44.78	30.32	20.85	15.50	12.35	
9	5.64	15.15	10.80	18.30	95.70	125.40	120.90	44.78	29.20	20.40	15.50	11.70	
10	5.64	20.40	11.40	26.60	87.20	116.40	105.90	43.52	28.16	19.95	15.15	11.40	
11	5.16	24.52	21.30	36.04	96.55	103.35	98.25	43.52	27.64	19.50	14.80	11.10	
12	4.92	39.76	32.00	23.10	78.70	115.50	88.05	42.89	27.12	19.50	14.45	10.80	
13	4.68	26.08	19.95	19.95	77.85	111.90	77.85	42.26	27.12	19.10	14.10	10.50	
14	4.44	22.20	15.50	18.70	87.20	111.90	73.60	49.31	26.60	19.10	13.75	10.50	
15	4.20	17.50	12.70	15.90	93.15	133.75	71.05	75.30	26.08	18.70	13.75	10.50	
16	4.20	15.90	11.10	16.70	99.10	103.35	90.60	60.48	25.56	18.30	13.05	10.20	
17	4.20	14.80	9.90	32.00	99.95	100.80	70.20	47.97	25.56	17.90	13.05	10.20	
18	4.02	17.10	12.00	30.32	78.70	84.65	67.04	44.15	24.52	17.90	12.70	9.90	
19	5.88	15.50	14.45	26.08	70.20	88.05	80.40	42.26	24.00	17.50	12.70	9.90	
20	5.16	12.00	12.70	26.60	64.12	117.30	69.35	40.38	23.55	17.50	12.70	9.90	
21	4.20	10.20	18.70	43.52	59.76	243.00	64.85	39.14	23.55	17.10	15.15	9.60	
22	4.02	9.00	18.30	26.60	78.70	325.60	61.20	38.52	23.55	17.10	28.68	9.30	
23	4.02	8.52	15.15	19.50	104.20	391.25	59.04	37.90	23.55	16.30	36.04	9.30	
24	4.02	13.40	23.10	17.10	148.50	407.50	57.60	36.66	23.10	16.30	33.68	9.30	
25	6.60	11.70	16.30	22.20	151.50	254.00	56.16	36.66	23.10	16.30	23.55	9.30	
26	4.20	9.30	12.70	22.65	160.50	178.50	54.72	36.04	22.65	16.30	19.10	9.00	
27	4.44	9.00	11.10	22.65	115.50	152.50	51.99	37.90	22.65	15.90	17.50	9.00	
28	5.88	12.00	10.50	21.75	87.20	113.70	49.98	37.28	21.75	15.50	16.30	9.00	
29	26.60	36.66	10.20	18.70	76.15	103.35	49.31	34.80	21.75	15.50	14.80	9.60	
30	13.75	27.64	10.20	62.66	120.00	94.00	47.97	34.24	21.30	15.50		9.30	
31		17.90		145.50	136.60		47.97		21.30	15.15		9.30	
Total	186.03	498.10	419.56	819.22	3249.42	5033.55	2900.43	1323.30	816.00	570.90	494.15	345.15	16655.81 CMSDAY
Mean	6.20	16.07	13.99	26.43	104.82	167.79	93.56	44.11	26.32	18.42	17.04	11.13	45.51 CMS
Max	26.60	39.76	32.00	145.50	278.20	407.50	249.60	75.30	33.12	21.30	36.04	23.10	407.50 CMS
Min	4.02	8.52	7.32	10.20	59.04	84.65	47.97	34.24	21.30	15.15	12.70	9.00	4.02 CMS
Runoff	16.073	43.036	36.250	70.781	280.750	434.899	250.597	114.333	70.502	49.326	42.695	29.821	1439.062 MCM

Momentary Peak 553.40 CMS, at 283.28 M (MSL), at 22.00 Hours, on Sep 22, 1995

Runoff Yield 11.81 Liters/Second/Square KM, Momentary Peak Yield 143.628 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

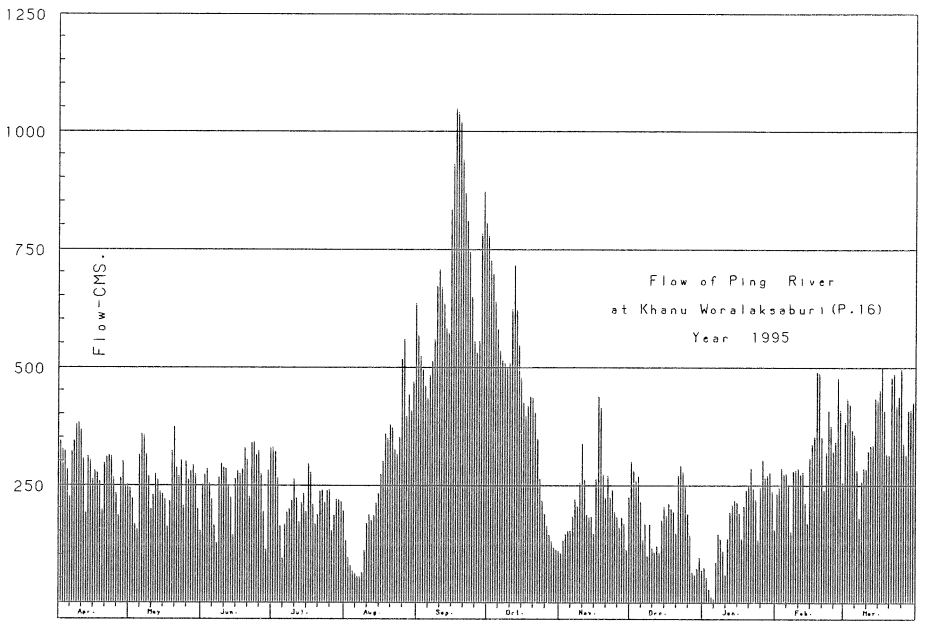
Ping River at Khanu Woralaksaburi, Kamphaeng Phet (P.16)

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	No overbank flow.
General Description	Records good. Flow effected by Phumiphol Dam. Stage-discharge relation defined by 74 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.32	43.05	43.07	43.28	42.65	43.84	44.29	42.54	43.20	42.42	43.02	43.42	
2	43.27	42.99	43.13	43.26	42.50	43.74	44.18	42.65	43.15	42.30	43.05	43.54	
3	43.26	42.79	43.16	43.11	42.44	43.68	44.12	42.70	43.09	42.15	43.16	43.51	
4	43.16	42.74	43.08	42.77	42.38	43.60	44.00	42.73	43.12	42.01	43.13	43.38	
5	43.00	43.24	42.98	42.50	42.36	43.54	43.87	42.73	42.96	41.97	43.13	43.35	
6	43.26	43.36	42.78	42.79	42.32	43.65	43.77	42.85	42.65	42.46	43.07	43.15	
7	43.32	43.35	42.63	42.88	42.31	43.72	43.72	42.98	42.79	42.70	42.72	42.84	
8	43.41	43.24	43.11	42.91	42.37	43.82	43.71	42.93	42.52	42.66	43.15	43.09	
9	43.42	43.12	43.19	42.97	42.56	44.07	43.69	43.08	42.78	42.56	43.15	43.16	
10	43.38	42.91	43.17	43.10	42.79	44.14	43.71	43.30	42.58	42.34	43.16	43.16	
11	43.22	43.01	43.16	42.99	42.86	44.06	43.96	43.10	42.55	42.66	43.13	43.26	
12	42.88	43.13	43.07	42.81	42.82	43.99	44.16	42.86	42.60	42.88	43.14	43.29	
13	43.23	43.10	43.00	42.96	42.86	43.87	43.96	42.84	42.54	42.94	42.95	43.29	
14	43.21	43.03	42.69	43.02	42.95	43.85	43.79	42.85	42.82	42.97	42.80	43.54	
15	43.10	43.02	43.10	42.89	43.02	44.41	43.64	42.71	42.92	42.96	43.22	43.53	
16	43.15	42.98	43.15	43.19	43.13	44.61	43.52	43.10	42.85	42.87	43.30	43.58	
17	43.14	42.77	43.13	43.14	43.20	44.86	43.45	43.55	42.95	42.66	43.34	43.69	
18	43.09	42.97	43.16	42.94	43.36	44.84	43.50	43.49	42.91	42.93	43.67	43.48	
19	42.90	43.26	43.28	42.79	43.33	44.80	43.55	43.13	42.88	43.04	43.66	43.24	
20	43.19	43.40	43.21	42.86	43.41	44.63	43.54	42.99	42.71	43.06	43.34	43.24	
21	43.23	43.17	43.00	43.03	43.39	44.48	43.47	43.12	43.12	43.16	43.04	43.64	
22	43.24	43.12	43.31	43.04	43.27	44.36	43.33	43.00	43.18	43.05	43.25	43.66	
23	43.23	43.21	43.31	42.96	43.24	44.22	43.10	43.04	43.14	42.98	43.48	43.50	
24	43.11	42.93	43.24	43.04	43.34	44.02	42.97	42.88	43.06	42.65	43.40	43.55	
25	43.02	43.20	43.26	43.04	43.73	43.81	42.87	42.84	42.87	43.05	43.26	43.68	
26	42.86	43.10	43.13	42.73	43.82	43.76	42.77	42.76	42.69	43.21	43.31	43.30	
27	43.11	43.15	42.89	42.86	43.45	43.81	42.70	42.84	42.37	43.11	43.64	43.24	
28	43.20	43.18	42.57	42.98	43.56	44.30	42.64	42.79	42.33	43.12	43.48	43.48	
29	43.07	43.13	43.15	42.98	43.48	44.49	42.59	42.57	42.41	43.14	43.08	43.48	
30	43.07	42.91	43.28	42.96	43.62	44.35	42.57	43.00	42.50	43.03		43.52	
31		42.73		42.89	43.99		42.56		42.39	42.74		43.52	
Mean	43.17	43.07	43.08	42.96	43.05	44.11	43.47	42.93	42.79	42.77	43.21	43.40	
Max	43.42	43.40	43.31	43.28	43.99	44.86	44.29	43.55	43.20	43.21	43.67	43.69	44.86
Min	42.86	42.73	42.57	42.50	42.31	43.54	42.56	42.54	42.33	41.97	42.72	42.84	41.97

Annual Max Momentary Gage Height 44.88 M (MSL), at 12.00 Hours, on Sep 17, 1995
Zero Gage at Bottom Elevation 41.78 M (MSL), River Bed 40.01 M (MSL)
Left Bank Elevation 46.28 M (MSL)
Right Bank Elevation 46.43 M (MSL), Drainage Area 45677 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	345.0	243.7	251.2	330.0	132.5	568.0	777.8	105.0	300.0	75.0	232.5	383.5	
2	326.2	222.3	273.8	322.5	95.0	523.0	725.5	132.5	281.3	52.5	243.7	434.5	
3	322.5	167.5	285.0	266.3	80.0	496.0	697.0	145.0	258.7	28.8	285.0	421.7	
4	285.0	155.0	255.0	162.5	66.5	460.0	640.0	152.5	270.0	11.2	273.8	367.5	
5	225.0	315.0	219.5	95.0	63.0	434.5	581.5	152.5	214.0	8.5	273.8	356.2	
6	322.5	360.0	165.0	167.5	56.0	482.5	536.5	183.7	132.5	85.0	251.2	281.3	
7	345.0	356.2	127.5	192.0	54.3	514.0	514.0	219.5	167.5	145.0	150.0	181.0	
8	379.2	315.0	266.3	200.3	64.7	559.0	509.5	205.8	100.0	135.0	281.3	258.7	
9	383.5	270.0	296.2	216.8	110.0	673.2	500.5	255.0	165.0	110.0	281.3	285.0	
10	367.5	200.3	288.7	262.5	167.5	706.5	509.5	337.5	115.0	59.5	285.0	285.0	
11	307.5	228.7	285.0	222.3	186.5	668.5	622.0	262.5	107.5	135.0	273.8	322.5	
12	192.0	273.8	251.2	172.8	175.5	635.5	716.0	186.5	120.0	192.0	277.5	333.7	
13	311.2	262.5	225.0	214.0	186.5	581.5	622.0	181.0	105.0	208.5	211.3	333.7	
14	303.7	236.2	142.5	232.5	211.3	572.5	545.5	183.7	175.5	216.8	170.0	434.5	
15	262.5	232.5	262.5	194.7	232.5	834.8	478.0	147.5	203.0	214.0	307.5	430.2	
16	281.3	219.5	281.3	296.2	273.8	929.8	426.0	262.5	183.7	189.2	337.5	451.5	
17	277.5	162.5	273.8	277.5	300.0	1050.0	396.2	438.7	211.3	135.0	352.5	500.5	
18	258.7	216.8	285.0	208.5	360.0	1040.0	417.5	413.3	200.3	205.8	491.5	409.0	
19	197.5	322.5	330.0	167.5	348.8	1020.0	438.7	273.8	192.0	240.0	487.0	315.0	
20	296.2	375.0	303.7	186.5	379.2	939.3	434.5	222.3	147.5	247.5	352.5	315.0	
21	311.2	288.7	225.0	236.2	371.2	868.0	404.8	270.0	270.0	285.0	240.0	478.0	
22	315.0	270.0	341.3	240.0	326.2	811.0	348.8	225.0	292.5	243.7	318.7	487.0	
23	311.2	303.7	341.3	214.0	315.0	744.5	262.5	240.0	277.5	219.5	409.0	417.5	
24	266.3	205.8	315.0	240.0	352.5	649.5	216.8	192.0	247.5	132.5	375.0	438.7	
25	232.5	300.0	322.5	240.0	518.5	554.5	189.2	181.0	189.2	243.7	322.5	496.0	
26	186.5	262.5	273.8	152.5	559.0	532.0	162.5	160.0	142.5	303.7	341.3	337.5	
27	266.3	281.3	194.7	186.5	396.2	554.5	145.0	181.0	64.7	266.3	478.0	315.0	
28	300.0	292.5	112.5	219.5	443.0	782.5	130.0	167.5	57.8	270.0	409.0	409.0	
29	251.2	273.8	281.3	219.5	409.0	872.8	117.5	112.5	72.5	277.5	255.0	409.0	
30	251.2	200.3	330.0	214.0	469.0	806.2	112.5	225.0	95.0	236.2		426.0	
31		152.5		194.7	635.5		110.0		68.2	155.0		426.0	
Total	8680.9	7966.1	7805.6	6744.8	8338.7	20864.1	13287.8	6414.8	5427.2	5327.4	8967.2	11739.7	111564.3 CMSDAY
Mean	289.4	257.0	260.2	217.6	269.0	695.5	428.6	213.8	175.1	171.9	309.2	378.7	304.8 CMS
Max	383.5	375.0	341.3	330.0	635.5	1050.0	777.8	438.7	300.0	303.7	491.5	500.5	1050.0 CMS
Min	186.5	152.5	112.5	95.0	54.3	434.5	110.0	105.0	57.8	8.5	150.0	181.0	8.5 CMS
Runoff	750.03	688.27	674.40	582.75	720.46	1802.66	1148.07	554.24	468.91	460.29	774.77	1014.31	9639.16 MCM

Momentary Peak 1060.00 CMS, at 44.88 M (MSL), at 12.00 Hours, on Sep 17, 1995

Runoff Yield 6.67 Liters/Second/Square KM, Momentary Peak Yield 23.206 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

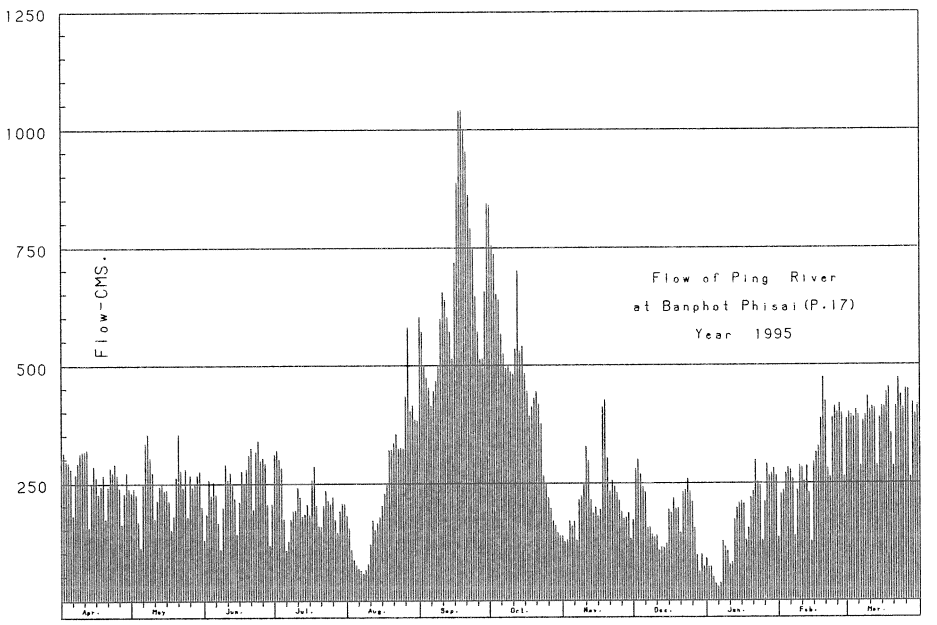
Ping River at Banphot Phisai, Nakhon Sawan (P.17)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Phumiphol Dam. Stage-discharge relation defined by 39 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.38	35.15	34.97	35.40	34.86	36.07	36.47	34.76	35.28	34.53	35.11	35.63	
2	35.33	35.11	35.21	35.34	34.69	35.90	36.43	34.77	35.34	34.54	35.14	35.61	
3	35.32	34.91	35.10	35.29	34.61	35.83	36.25	34.92	35.25	34.40	35.25	35.60	
4	35.28	34.71	35.20	34.93	34.55	35.77	36.22	34.88	35.16	34.30	35.29	35.64	
5	34.96	35.18	35.11	34.69	34.52	35.67	36.06	34.91	35.13	34.23	35.27	35.61	
6	35.25	35.44	34.90	34.76	34.49	35.75	35.96	34.77	34.86	34.31	35.22	35.30	
7	35.32	35.50	34.70	34.93	34.45	35.81	35.88	35.07	34.87	34.76	34.80	35.58	
8	35.38	35.35	35.02	34.99	34.50	35.89	35.90	35.10	34.81	34.72	35.14	35.61	
9	35.39	35.26	35.31	35.00	34.57	36.13	35.86	35.19	34.79	34.68	35.30	35.72	
10	35.39	34.93	35.21	35.16	34.74	36.26	35.85	35.42	34.81	34.56	35.29	35.64	
11	35.40	35.07	35.26	35.09	34.92	36.22	35.98	35.33	34.69	34.58	35.20	35.66	
12	34.87	35.17	35.19	34.95	34.85	36.14	36.36	35.07	34.71	34.93	35.30	35.65	
13	35.18	35.18	35.08	34.97	34.90	36.07	35.97	34.98	34.71	35.01	35.12	35.30	
14	35.30	35.14	34.82	35.04	34.95	35.93	36.00	35.02	34.74	35.05	34.76	35.60	
15	35.23	35.14	35.06	34.96	35.03	36.39	35.85	34.95	35.00	35.06	35.32	35.66	
16	35.11	35.06	35.27	35.21	35.12	36.72	35.75	35.00	34.98	35.04	35.38	35.66	
17	35.17	34.85	35.19	35.30	35.19	37.00	35.61	35.66	35.08	34.77	35.42	35.74	
18	35.24	34.95	35.28	35.03	35.40	37.00	35.66	35.70	35.01	34.86	35.59	35.77	
19	34.93	35.23	35.37	34.88	35.40	36.93	35.71	35.35	35.01	35.09	35.83	35.50	
20	35.16	35.50	35.41	34.87	35.44	36.84	35.75	35.13	34.83	35.13	35.69	35.30	
21	35.29	35.27	35.00	35.03	35.50	36.67	35.68	35.21	35.13	35.33	35.28	35.66	
22	35.26	35.16	35.39	35.14	35.41	36.54	35.56	35.17	35.14	35.20	35.23	35.82	
23	35.31	35.28	35.46	35.07	35.41	36.46	35.24	35.12	35.22	35.17	35.60	35.73	
24	35.24	34.95	35.33	35.04	35.41	36.24	35.18	35.07	35.13	34.77	35.66	35.65	
25	35.16	35.24	35.35	35.09	35.72	36.07	35.09	34.99	35.06	35.06	35.63	35.76	
26	34.89	35.16	35.32	34.93	36.09	35.93	35.01	34.93	34.86	35.31	35.68	35.76	
27	35.12	35.18	35.04	34.83	35.64	35.93	34.92	34.94	34.65	35.24	35.62	35.23	
28	35.26	35.24	34.73	34.99	35.67	36.26	34.88	34.98	34.47	35.25	35.23	35.68	
29	35.15	35.27	35.04	35.05	35.59	36.64	34.83	34.78	34.65	35.28	35.59	35.62	
30	35.12	35.02	35.37	35.04	35.58	36.63	34.80	34.92	34.54	35.24		35.67	
31		34.77		34.96	36.14		34.80		34.62	34.79		35.66	
Mean	35.21	35.14	35.16	35.03	35.14	36.26	35.66	35.07	34.92	34.88	35.34	35.61	
Max	35.40	35.50	35.46	35.40	36.14	37.00	36.47	35.70	35.34	35.33	35.83	35.82	37.00
Min	34.87	34.71	34.70	34.69	34.45	35.67	34.80	34.76	34.47	34.23	34.76	35.23	34.23

Annual Max Momentary Gage Height 37.05 M (MSL), at 18.00 Hours, on Sep 17, 1995
Zero Gage at Bottom Elevation 32.00 M (MSL), River Bed 32.70 M (MSL)
Left Bank Elevation 38.03 M (MSL)
Right Bank Elevation 37.89 M (MSL), Drainage Area 45851 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	314.5	238.0	184.6	321.3	153.8	573.1	756.3	126.2	280.2	71.0	226.0	401.1	
2	297.3	226.0	256.4	300.7	107.5	502.0	736.7	128.9	300.7	73.0	235.0	393.7	
3	293.9	167.8	223.0	283.6	87.5	475.8	652.8	170.6	270.0	50.0	270.0	390.0	
4	280.2	112.7	253.0	173.4	75.0	453.2	639.4	159.4	241.0	37.0	283.6	404.8	
5	181.8	247.0	226.0	107.5	69.0	415.9	568.8	167.8	232.0	29.3	276.8	393.7	
6	270.0	335.1	165.0	126.2	63.5	445.7	526.6	128.9	153.8	38.3	259.8	287.0	
7	293.9	355.7	110.0	173.4	57.5	468.3	494.5	214.0	156.6	126.2	137.0	383.1	
8	314.5	304.2	199.0	190.2	65.0	498.2	502.0	223.0	139.8	115.4	235.0	393.7	
9	317.9	273.4	290.4	193.0	79.0	599.4	487.0	250.0	134.3	105.0	287.0	434.5	
10	317.9	173.4	256.4	241.0	120.8	657.2	483.2	328.2	139.8	77.0	283.6	404.8	
11	321.3	214.0	273.4	220.0	170.6	639.4	534.8	297.3	107.5	81.0	253.0	412.2	
12	156.6	244.0	250.0	179.0	151.0	603.8	703.2	214.0	112.7	173.4	287.0	408.5	
13	247.0	247.0	217.0	184.6	165.0	573.1	530.7	187.4	112.7	196.0	229.0	287.0	
14	287.0	235.0	142.6	205.0	179.0	514.3	543.0	199.0	120.8	208.0	126.2	390.0	
15	263.2	235.0	211.0	181.8	202.0	717.3	483.2	179.0	193.0	211.0	293.9	412.2	
16	226.0	211.0	276.8	256.4	229.0	888.4	445.7	193.0	187.4	205.0	314.5	412.2	
17	244.0	151.0	250.0	287.0	250.0	1041.0	393.7	412.2	217.0	128.9	328.2	442.0	
18	266.6	179.0	280.2	202.0	321.3	1041.0	412.2	427.0	196.0	153.8	386.6	453.2	
19	173.4	263.2	311.0	159.4	321.3	1001.8	430.7	304.2	196.0	220.0	475.8	355.7	
20	241.0	355.7	324.8	156.6	335.1	952.8	445.7	232.0	145.4	232.0	423.3	287.0	
21	283.6	276.8	193.0	202.0	355.7	861.6	419.6	256.4	232.0	297.3	280.2	412.2	
22	273.4	241.0	317.9	235.0	324.8	792.2	376.3	244.0	235.0	253.0	263.2	472.0	
23	290.4	280.2	341.3	214.0	324.8	751.4	266.6	229.0	259.8	244.0	390.0	438.2	
24	266.6	179.0	297.3	205.0	324.8	648.3	247.0	214.0	232.0	128.9	412.2	408.5	
25	241.0	266.6	304.2	220.0	434.5	573.1	220.0	190.2	211.0	211.0	401.1	449.5	
26	162.2	241.0	293.9	173.4	581.7	514.3	196.0	173.4	153.8	290.4	419.6	449.5	
27	229.0	247.0	205.0	145.4	404.8	514.3	170.6	176.2	97.5	266.6	397.4	263.2	
28	273.4	266.6	118.1	190.2	415.9	657.2	159.4	187.4	60.5	270.0	263.2	419.6	
29	238.0	276.8	205.0	208.0	386.6	845.5	145.4	131.6	97.5	280.2	386.6	397.4	
30	229.0	199.0	311.0	205.0	383.1	840.1	137.0	170.6	73.0	266.6		415.9	
31		128.9		181.8	603.8		137.0		90.0	134.3		412.2	
Total	7794.6	7371.1	7287.9	6321.9	7743.4	20059.7	13245.1	6514.9	5378.8	5173.6	8824.8	12284.6	108000.4 CMSDAY
Mean	259.8	237.8	242.9	203.9	249.8	668.7	427.3	217.2	173.5	166.9	304.3	396.3	295.1 CMS
Max	321.3	355.7	341.9	321.3	603.8	1041.0	756.3	427.0	300.7	297.3	475.8	472.0	1041.0 CMS
Min	156.6	112.7	110.0	107.5	57.5	415.9	137.0	126.2	60.5	29.3	126.2	263.2	29.3 CMS
Runoff	673.45	636.86	629.67	546.21	669.03	1733.16	1144.38	562.89	464.73	447.00	762.46	1061.39	9331.23 MCM

Momentary Peak 1069.50 CMS, at 37.05 M (MSL), at 18.00 Hours, on Sep 17, 1995

Runoff Yield 6.44 Liters/Second/Square KM, Momentary Peak Yield 23.326 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

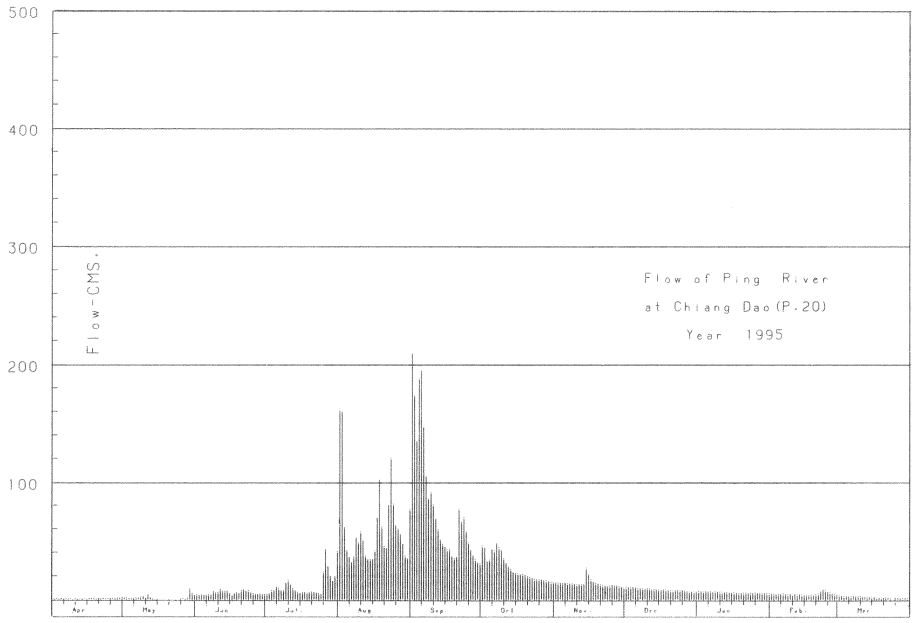
Ping River at Chiang Dao, Chiang Mai (P.20)

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 fair. Flow effected by the local weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 103 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.54	0.30	0.32	2.42	2.74	1.21	0.65	0.54	0.42	0.35	0.29	
2	0.46	0.50	0.30	0.35	2.40	2.50	1.19	0.64	0.54	0.42	0.34	0.28	
3	0.46	0.50	0.30	0.44	1.42	2.18	1.01	0.64	0.54	0.41	0.33	0.27	
4	0.45	0.50	0.30	0.44	1.15	2.61	1.03	0.64	0.54	0.42	0.33	0.27	
5	0.45	0.50	0.31	0.55	1.07	2.65	1.17	0.65	0.53	0.42	0.34	0.27	
6	0.45	0.52	0.31	0.50	1.00	2.30	1.15	0.64	0.51	0.41	0.35	0.27	
7	0.46	0.56	0.31	0.44	1.07	1.90	1.24	0.63	0.51	0.41	0.34	0.27	
8	0.45	0.64	0.41	0.43	1.30	1.70	1.19	0.62	0.51	0.41	0.33	0.27	
9	0.44	0.67	0.38	0.64	1.25	1.76	1.16	0.62	0.50	0.41	0.33	0.27	
10	0.43	0.67	0.38	0.70	1.37	1.64	1.05	0.61	0.50	0.40	0.34	0.27	
11	0.42	0.87	0.47	0.60	1.27	1.51	0.99	0.61	0.50	0.40	0.34	0.26	
12	0.43	0.60	0.43	0.50	1.08	1.39	0.94	0.61	0.48	0.39	0.33	0.25	
13	0.43	0.38	0.41	0.44	1.04	1.28	0.90	0.62	0.48	0.39	0.33	0.25	
14	0.43	0.35	0.43	0.39	1.03	1.23	0.85	0.92	0.48	0.38	0.32	0.25	
15	0.43	0.40	0.35	0.36	1.04	1.20	0.83	0.82	0.47	0.38	0.31	0.25	
16	0.45	0.37	0.32	0.38	1.15	1.16	0.83	0.71	0.46	0.38	0.31	0.25	
17	0.48	0.33	0.35	0.38	1.52	1.17	0.82	0.67	0.48	0.38	0.30	0.24	
18	0.48	0.31	0.38	0.37	1.87	1.08	0.82	0.64	0.47	0.37	0.31	0.23	
19	0.45	0.30	0.35	0.38	1.42	1.05	0.81	0.63	0.46	0.37	0.31	0.23	
20	0.45	0.31	0.44	0.40	1.20	1.07	0.78	0.61	0.45	0.37	0.32	0.23	
21	0.47	0.31	0.46	0.39	1.18	1.60	0.76	0.59	0.44	0.37	0.35	0.23	
22	0.47	0.30	0.43	0.37	1.64	1.48	0.75	0.58	0.45	0.37	0.42	0.23	
23	0.46	0.31	0.44	0.35	2.05	1.52	0.72	0.57	0.46	0.37	0.48	0.23	
24	0.45	0.42	0.38	0.33	1.65	1.37	0.72	0.57	0.45	0.37	0.46	0.35	
25	0.46	0.44	0.34	0.85	1.44	1.25	0.72	0.59	0.45	0.37	0.41	0.55	
26	0.47	0.45	0.33	1.17	1.40	1.16	0.71	0.58	0.43	0.37	0.38	0.55	
27	0.50	0.45	0.33	0.94	1.34	1.09	0.70	0.59	0.42	0.37	0.35	0.53	
28	0.51	0.49	0.33	0.78	1.23	1.04	0.69	0.56	0.42	0.37	0.32	0.55	
29	0.54	0.50	0.33	0.68	1.08	1.00	0.68	0.55	0.41	0.37	0.31	0.56	
30	0.60	0.35	0.32	0.77	1.05	0.98	0.66	0.54	0.41	0.36		0.55	
31		0.30		1.14	1.60		0.66		0.41	0.35		0.54	
Mean	0.46	0.46	0.36	0.54	1.38	1.55	0.89	0.63	0.47	0.39	0.35	0.32	
Max	0.60	0.87	0.47	1.17	2.42	2.74	1.24	0.92	0.54	0.42	0.48	0.56	2.74
Min	0.42	0.30	0.30	0.32	1.00	0.98	0.66	0.54	0.41	0.35	0.30	0.23	0.23

Annual Max Momentary Gage Height 3.27 M (A.D), at 19.00 Hours, on Sep 1, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.91 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	2.40	4.80	5.36	163.60	210.40	46.76	15.60	11.68	8.16	6.20	4.52	
2	1.80	2.10	4.80	6.20	161.00	174.00	45.34	15.20	11.68	8.16	5.92	4.24	
3	1.80	2.10	4.80	8.72	62.76	135.80	33.46	15.20	11.68	7.88	5.64	3.96	
4	1.72	2.10	4.80	8.72	42.70	189.60	34.78	15.20	11.68	8.16	5.64	3.96	
5	1.72	2.10	5.08	12.00	37.42	196.00	44.02	15.60	11.36	8.16	5.92	3.96	
6	1.72	2.25	5.08	10.40	32.80	149.00	42.70	15.20	10.72	7.88	6.20	3.96	
7	1.80	2.55	5.08	8.72	37.42	106.00	49.04	14.80	10.72	7.88	5.92	3.96	
8	1.72	3.19	7.88	8.44	53.60	87.00	45.34	14.40	10.72	7.88	5.64	3.96	
9	1.65	3.45	7.04	15.20	49.80	92.40	43.36	14.40	10.40	7.88	5.64	3.96	
10	1.57	3.45	7.04	17.60	58.92	81.60	36.10	14.00	10.40	7.60	5.92	3.96	
11	1.50	5.57	9.56	13.60	51.32	69.90	32.22	14.00	10.40	7.60	5.92	3.68	
12	1.57	2.85	8.44	10.40	38.08	60.44	29.32	14.00	9.84	7.32	5.64	3.40	
13	1.57	1.20	7.88	8.72	35.44	52.08	27.00	14.40	9.84	7.32	5.64	3.40	
14	1.57	0.97	8.44	7.32	34.78	48.28	24.40	28.16	9.84	7.04	5.36	3.40	
15	1.57	1.35	6.20	6.48	35.44	46.00	23.36	22.84	9.56	7.04	5.08	3.40	
16	1.72	1.13	5.36	7.04	42.70	43.36	23.36	18.02	9.28	7.04	5.08	3.40	
17	1.95	0.83	6.20	7.04	70.80	44.02	22.84	16.40	9.84	7.04	4.80	3.12	
18	1.95	0.67	7.04	6.76	103.00	38.08	22.84	15.20	9.56	6.76	5.08	2.84	
19	1.72	0.60	6.20	7.04	62.76	36.10	22.32	14.80	9.28	6.76	5.08	2.84	
20	1.72	0.67	8.72	7.60	46.00	37.42	20.96	14.00	9.00	6.76	5.36	2.84	
21	1.87	0.67	9.28	7.32	44.68	78.00	20.12	13.28	8.72	6.76	6.20	2.84	
22	1.87	0.60	8.44	6.76	81.60	67.44	19.70	12.96	9.00	6.76	8.16	2.84	
23	1.80	0.67	8.72	6.20	121.50	70.80	18.44	12.64	9.28	6.76	9.84	2.84	
24	1.72	1.50	7.04	5.64	82.50	58.92	18.44	12.64	9.00	6.76	9.28	0.97	
25	1.80	1.65	5.92	24.40	64.32	49.80	18.44	13.28	9.00	6.76	7.88	2.48	
26	1.87	1.72	5.64	44.02	61.20	43.36	18.02	12.96	8.44	6.76	7.04	2.48	
27	2.10	1.72	5.64	29.32	56.64	38.74	17.60	13.28	8.16	6.76	6.20	2.32	
28	2.17	2.02	5.64	20.96	48.28	35.44	17.20	12.32	8.16	6.76	5.36	2.48	
29	2.40	10.40	5.64	16.80	38.08	32.80	16.80	12.00	7.88	6.76	5.08	2.55	
30	2.85	6.20	5.36	20.54	36.10	31.64	16.00	11.68	7.88	6.48		2.48	
31		4.80		42.04	78.00		16.00		7.88	6.20		2.40	
Total	54.59	73.48	197.76	407.36	1933.24	2404.42	866.28	448.46	300.88	223.84	176.72	99.44	7186.47 CMSDAY
Mean	1.82	2.37	6.59	13.14	62.36	80.15	27.94	14.95	9.71	7.22	6.09	3.21	19.64 CMS
Max	2.85	10.40	9.56	44.02	163.60	210.40	49.04	28.16	11.68	8.16	9.84	4.52	210.40 CMS
Min	1.50	0.60	4.80	5.36	32.80	31.64	16.00	11.68	7.88	6.20	4.80	0.97	0.60 CMS
Runoff	4.717	6.349	17.086	35.196	167.032	207.742	74.847	38.747	25.996	19.340	15.269	8.592	620.911 MCM

Momentary Peak 309.40 CMS, at 3.27 M (A.D), at 19.00 Hours, on Sep 1, 1995

Runoff Yield 14.49 Liters/Second/Square KM, Momentary Peak Yield 228.339 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

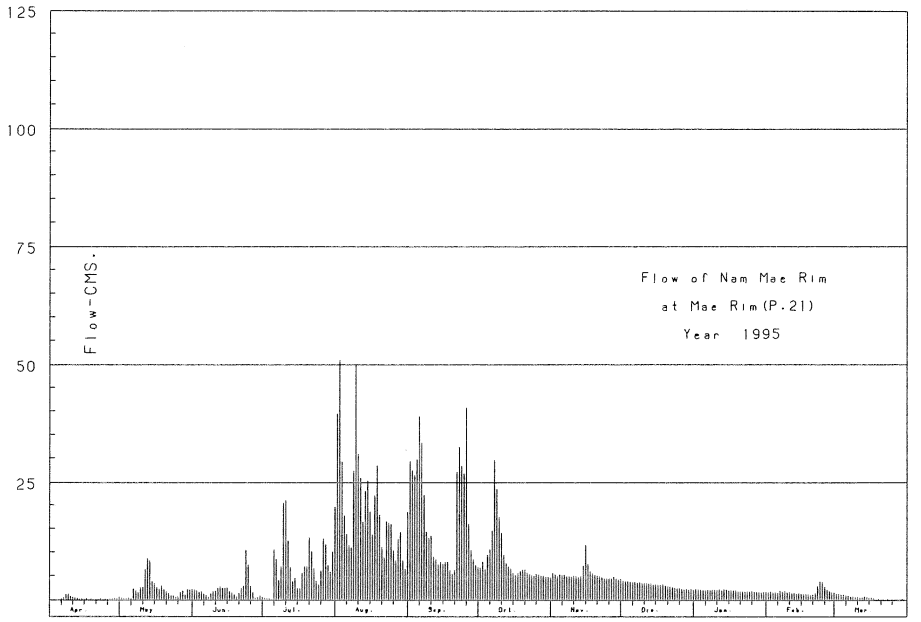
Nam Mae Rim at Mae Rim, Chiang Mai (P.21)

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	Overbank flow starts at elevation +322.59 m.(M.S.L.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 46 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.12	320.29	320.60	320.27	322.56	322.17	321.03	320.94	320.80	320.61	320.52	320.47	
2	320.12	320.23	320.56	320.26	322.97	322.10	321.13	320.92	320.80	320.61	320.53	320.46	
3	320.10	320.23	320.53	320.19	322.17	322.05	321.01	320.88	320.79	320.59	320.52	320.44	
4	320.15	320.25	320.53	320.17	321.67	322.19	321.22	320.92	320.79	320.59	320.51	320.42	
5	320.24	320.24	320.47	321.30	321.47	322.54	321.30	320.91	320.78	320.58	320.51	320.41	
6	320.29	320.63	320.40	321.16	321.34	322.32	321.51	320.91	320.78	320.58	320.56	320.37	
7	320.46	320.56	320.34	320.82	321.32	321.87	322.18	320.89	320.77	320.59	320.54	320.35	
8	320.45	320.52	320.48	321.06	322.09	321.50	321.93	320.88	320.77	320.59	320.55	320.34	
9	320.37	320.65	320.54	321.79	322.94	321.43	321.65	320.88	320.76	320.60	320.52	320.33	
10	320.32	320.66	320.55	321.82	322.23	321.45	321.49	320.89	320.76	320.58	320.52	320.33	
11	320.30	321.01	320.65	321.40	322.03	321.20	321.22	320.88	320.75	320.60	320.50	320.32	
12	320.26	321.18	320.68	321.04	321.60	321.16	321.11	320.87	320.75	320.58	320.50	320.32	
13	320.22	321.14	320.65	320.80	321.91	321.09	321.05	320.88	320.75	320.60	320.47	320.34	
14	320.20	320.80	320.64	320.85	322.00	321.12	321.02	321.07	320.73	320.60	320.48	320.34	
15	320.20	320.75	320.66	320.63	321.71	321.10	320.94	321.35	320.73	320.58	320.47	320.28	
16	320.21	320.65	320.55	320.64	321.47	321.12	320.91	321.09	320.73	320.58	320.44	320.32	
17	320.20	320.62	320.50	320.94	321.86	321.13	320.94	320.98	320.72	320.58	320.46	320.23	
18	320.18	320.70	320.44	321.06	322.14	320.99	320.98	320.93	320.73	320.57	320.44	320.20	
19	320.17	320.61	320.34	321.05	321.67	320.93	321.00	320.91	320.71	320.55	320.41	320.17	
20	320.18	320.53	320.50	321.43	321.32	320.99	321.00	320.89	320.68	320.53	320.42	320.15	
21	320.18	320.47	320.63	321.27	321.19	322.08	320.95	320.88	320.67	320.53	320.50	320.18	
22	320.24	320.40	320.70	321.03	321.61	322.29	320.92	320.87	320.67	320.54	320.70	320.16	
23	320.18	320.37	321.29	320.80	321.59	322.13	320.90	320.85	320.64	320.54	320.80	320.18	
24	320.18	320.33	321.08	320.73	321.58	322.07	320.90	320.84	320.64	320.55	320.78	320.17	
25	320.17	320.36	320.69	320.98	321.28	322.61	320.92	320.84	320.63	320.54	320.67	320.14	
26	320.18	320.51	320.52	321.42	321.14	321.58	320.91	320.85	320.61	320.54	320.60	320.15	
27	320.24	320.57	320.29	321.36	321.42	321.29	320.90	320.88	320.61	320.53	320.56	320.15	
28	320.23	320.42	320.33	321.08	321.49	321.16	320.89	320.84	320.61	320.51	320.51	320.16	
29	320.24	320.61	320.37	320.96	321.15	321.08	320.88	320.83	320.60	320.52	320.50	320.20	
30	320.36	320.59	320.34	321.27	321.01	321.04	320.87	320.84	320.61	320.52		320.18	
31		320.60		321.75	321.70		320.86		320.60	320.52		320.15	
Mean	320.23	320.56	320.56	321.01	321.73	321.59	321.11	320.91	320.71	320.57	320.53	320.27	
Max	320.46	321.18	321.29	321.82	322.97	322.61	322.18	321.35	320.80	320.61	320.80	320.47	322.97
Min	320.10	320.23	320.29	320.17	321.01	320.93	320.86	320.83	320.60	320.51	320.41	320.14	320.10

Annual Max Momentary Gage Height 323.09 M (MSL), at 9.00 Hours, on Aug 2, 1995
Zero Gage at Bottom Elevation 319.70 M (MSL), River Bed 319.71 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.48	2.20	0.43	39.62	29.42	6.79	5.68	4.00	2.28	1.64	1.35	
2	0.15	0.34	1.92	0.41	50.96	27.60	8.15	5.44	4.00	2.28	1.71	1.30	
3	0.12	0.34	1.71	0.25	29.42	26.45	6.53	4.96	3.90	2.13	1.64	1.20	
4	0.19	0.39	1.71	0.23	17.97	29.94	9.52	5.44	3.90	2.13	1.57	1.10	
5	0.36	0.36	1.35	10.80	13.93	39.08	10.80	5.32	3.80	2.06	1.57	1.05	
6	0.48	2.44	1.00	8.60	11.52	33.32	14.70	5.32	3.80	2.06	1.92	0.85	
7	1.30	1.92	0.70	4.24	11.16	22.34	29.68	5.08	3.70	2.13	1.78	0.75	
8	1.25	1.64	1.40	7.18	27.37	14.50	23.69	4.96	3.70	2.13	1.85	0.70	
9	0.85	2.60	1.78	20.58	50.12	13.17	17.55	4.96	3.60	2.20	1.64	0.65	
10	0.60	2.68	1.85	21.24	30.98	13.55	14.31	5.08	3.60	2.06	1.64	0.65	
11	0.50	6.53	2.60	12.60	25.99	9.20	9.52	4.96	3.50	2.20	1.50	0.60	
12	0.41	8.90	2.84	6.92	16.50	8.60	7.85	4.84	3.50	2.06	1.50	0.60	
13	0.32	8.30	2.60	4.00	23.23	7.57	7.05	4.96	3.50	2.20	1.35	0.70	
14	0.27	4.00	2.52	4.60	25.30	8.00	6.66	7.31	3.30	2.20	1.40	0.70	
15	0.27	3.50	2.68	2.44	18.82	7.70	5.68	11.70	3.30	2.06	1.35	0.45	
16	0.29	2.60	1.85	2.52	13.93	8.00	5.32	7.57	3.30	2.06	1.20	0.60	
17	0.27	2.36	1.50	5.68	22.12	8.15	5.68	6.16	3.20	2.06	1.30	0.34	
18	0.24	3.00	1.20	7.18	28.64	6.28	6.16	5.56	3.30	1.99	1.20	0.27	
19	0.23	2.28	0.70	7.05	17.97	5.56	6.40	5.32	3.10	1.85	1.05	0.23	
20	0.24	1.71	1.50	13.17	11.16	6.28	6.40	5.08	2.84	1.71	1.10	0.19	
21	0.24	1.35	2.44	10.32	9.05	27.14	5.80	4.96	2.76	1.71	1.50	0.24	
22	0.36	1.00	3.00	6.79	16.71	32.54	5.44	4.84	2.76	1.78	3.00	0.21	
23	0.24	0.85	10.64	4.00	16.30	28.38	5.20	4.60	2.52	1.78	4.00	0.24	
24	0.24	0.65	7.44	3.30	16.10	26.91	5.20	4.48	2.52	1.85	3.80	0.23	
25	0.23	0.80	2.92	6.16	10.48	40.97	5.44	4.48	2.44	1.78	2.76	0.18	
26	0.24	1.57	1.64	12.98	8.30	16.10	5.32	4.60	2.28	1.78	2.20	0.19	
27	0.36	1.99	0.48	11.88	12.98	10.64	5.20	4.96	2.28	1.71	1.92	0.19	
28	0.34	1.10	0.65	7.44	14.31	8.60	5.08	4.48	2.28	1.57	1.57	0.21	
29	0.36	2.28	0.85	5.92	8.45	7.44	4.96	4.36	2.20	1.64	1.50	0.27	
30	0.80	2.13	0.70	10.32	6.53	6.92	4.84	4.48	2.28	1.64		0.24	
31		2.20		19.70	18.60		4.72		2.20	1.64		0.19	
Total	11.90	72.29	66.37	238.93	624.52	530.35	265.64	161.94	97.36	60.73	52.16	16.67	2198.86 CMSDAY
Mean	0.40	2.33	2.21	7.71	20.15	17.68	8.57	5.40	3.14	1.96	1.80	0.54	6.01 CMS
Max	1.30	8.90	10.64	21.24	50.96	40.97	29.68	11.70	4.00	2.28	4.00	1.35	50.96 CMS
Min	0.12	0.34	0.48	0.23	6.53	5.56	4.72	4.36	2.20	1.57	1.05	0.18	0.12 CMS
Runoff	1.028	6.246	5.734	20.644	53.959	45.822	22.951	13.992	8.412	5.247	4.507	1.440	189.982 MCM

Momentary Peak 54.50 CMS, at 323.09 M (MSL), at 9.00 Hours, on Aug 2, 1995

Runoff Yield 11.67 Liters/Second/Square KM, Momentary Peak Yield 105.825 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

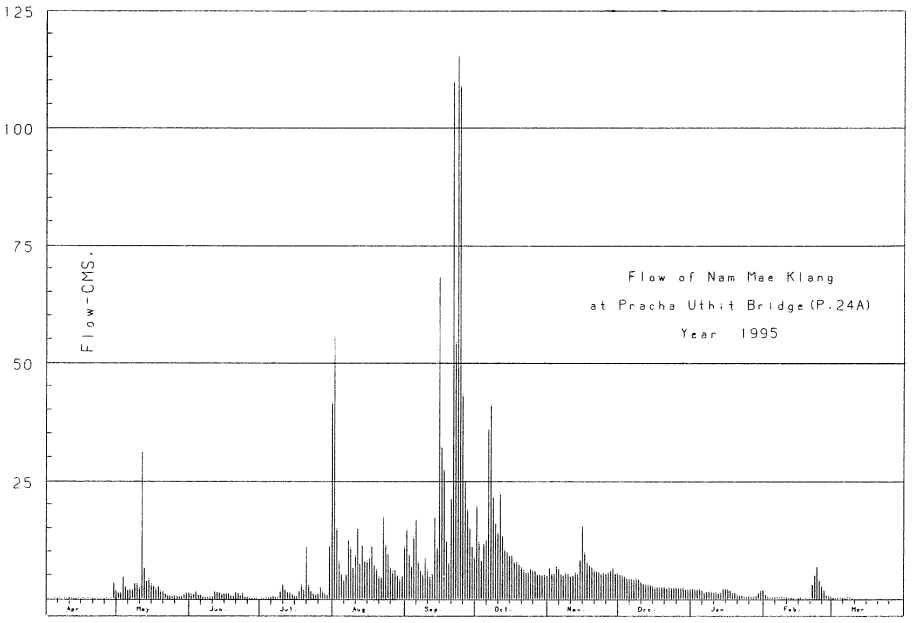
Nam Mae Klang at Pracha Uthit Bridge, Chiang Mai (P.24A)

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	Rather unstable by some scouring.
Overbank Flow Conditions	Overbank flow starts at elevation +277.86 m.(M.S.L.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 38 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.61	275.76	275.73	275.59	277.78	276.55	276.76	275.96	275.89	275.71	275.63	275.55	
2	275.58	275.75	275.73	275.61	276.56	276.31	276.43	275.89	275.88	275.70	275.59	275.56	
3	275.59	276.04	275.78	275.63	276.23	276.17	276.24	275.90	275.87	275.70	275.58	275.55	
4	275.60	275.87	275.71	275.62	276.08	276.48	276.41	275.97	275.84	275.70	275.57	275.57	
5	275.59	275.82	275.71	275.63	275.99	276.64	276.45	275.95	275.84	275.69	275.60	275.56	
6	275.61	275.82	275.63	275.65	276.07	276.23	277.33	275.89	275.83	275.65	275.58	275.56	
7	275.60	275.83	275.62	275.63	276.45	276.13	277.46	275.88	275.83	275.66	275.57	275.57	
8	275.60	275.94	275.62	275.62	276.38	276.07	276.56	275.90	275.84	275.67	275.57	275.58	
9	275.59	275.94	275.64	275.79	276.16	276.27	276.36	275.90	275.83	275.67	275.57	275.51	
10	275.60	275.86	275.66	275.92	276.30	276.14	276.28	275.86	275.79	275.66	275.57	275.52	
11	275.61	277.19	275.78	275.82	276.56	276.04	276.59	275.88	275.78	275.66	275.56	275.51	
12	275.61	276.16	275.78	275.78	276.20	276.09	276.26	275.91	275.77	275.65	275.55	275.51	
13	275.60	275.98	275.76	275.76	276.40	276.66	276.15	275.90	275.77	275.65	275.55	275.50	
14	275.59	276.02	275.72	275.73	276.24	276.37	276.12	276.04	275.76	275.71	275.55	275.51	
15	275.59	275.94	275.74	275.68	276.24	277.99	276.08	276.34	275.74	275.71	275.55	275.51	
16	275.59	275.90	275.73	275.65	276.27	277.22	276.08	276.11	275.73	275.70	275.55	275.50	
17	275.60	275.85	275.74	275.80	276.40	277.06	276.02	276.02	275.73	275.69	275.54	275.49	
18	275.60	275.89	275.67	275.93	276.19	276.44	276.02	275.98	275.73	275.65	275.54	275.49	
19	275.61	275.81	275.67	275.82	276.14	276.21	276.00	275.97	275.73	275.66	275.54	275.49	
20	275.59	275.78	275.76	276.39	276.05	276.83	275.97	275.93	275.73	275.63	275.56	275.50	
21	275.59	275.74	275.75	275.91	276.04	278.45	275.94	275.92	275.72	275.61	275.77	275.51	
22	275.59	275.69	275.68	275.80	276.67	277.75	275.91	275.92	275.73	275.61	275.88	275.49	
23	275.59	275.67	275.75	275.73	276.40	278.50	275.91	275.89	275.72	275.58	275.97	275.50	
24	275.58	275.66	275.64	275.71	276.32	278.44	275.95	275.90	275.72	275.59	275.81	275.49	
25	275.58	275.67	275.62	275.72	276.16	277.51	275.93	275.90	275.72	275.60	275.74	275.49	
26	275.59	275.66	275.61	275.88	276.12	276.98	275.93	275.91	275.72	275.59	275.69	275.48	
27	275.59	275.65	275.60	275.79	276.14	276.73	275.89	275.93	275.72	275.59	275.62	275.47	
28	275.60	275.64	275.60	275.73	276.07	276.56	275.88	275.95	275.72	275.60	275.60	275.48	
29	275.95	275.72	275.59	275.71	276.00	276.39	275.88	275.90	275.70	275.65	275.58	275.49	
30	275.80	275.75	275.59	276.39	276.06	276.28	275.88	275.90	275.70	275.68		275.49	
31		275.77		277.47	276.39		275.87		275.70	275.69		275.48	
Mean	275.61	275.86	275.69	275.84	276.29	276.78	276.21	275.94	275.77	275.66	275.62	275.51	
Max	275.95	277.19	275.78	277.47	277.78	278.50	277.46	276.34	275.89	275.71	275.97	275.58	278.50
Min	275.58	275.64	275.59	275.59	275.99	276.04	275.87	275.86	275.70	275.58	275.54	275.47	275.47

Annual Max Momentary Gage Height 279.25 M (MSL), at 3.00 Hours, on Sep 21, 1995
Zero Gage at Bottom Elevation 274.69 M (MSL), River Bed 275.36 M (MSL)
Left Bank Elevation 277.85 M (MSL)
Right Bank Elevation 278.43 M (MSL), Drainage Area 460 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	1.44	1.17	0.32	56.00	14.95	19.78	6.70	5.32	2.26	1.08	0.40	
2	0.30	1.35	1.17	0.40	15.18	9.61	12.19	5.32	5.14	2.10	0.60	0.45	
3	0.32	4.76	1.62	0.51	8.07	6.93	8.26	5.50	4.96	2.10	0.55	0.40	
4	0.35	2.57	0.99	0.46	5.32	13.34	11.73	6.90	4.42	2.10	0.50	0.50	
5	0.32	2.02	0.99	0.51	4.07	17.02	12.65	6.50	4.42	1.95	0.65	0.45	
6	0.40	2.02	0.51	0.62	5.18	8.07	36.20	5.32	4.24	1.37	0.55	0.45	
7	0.35	2.13	0.46	0.51	12.65	6.17	41.40	5.14	4.24	1.52	0.50	0.50	
8	0.35	3.42	0.46	0.46	11.08	5.18	21.80	5.50	4.42	1.67	0.50	0.55	
9	0.32	3.42	0.57	1.71	6.74	8.83	16.22	5.50	4.24	1.67	0.50	0.20	
10	0.35	2.46	0.68	3.16	9.40	6.36	14.08	4.78	3.54	1.52	0.50	0.25	
11	0.40	31.40	1.62	2.02	15.18	4.76	22.70	5.14	3.38	1.52	0.45	0.20	
12	0.40	6.74	1.62	1.62	7.50	5.46	13.56	5.70	3.22	1.37	0.40	0.20	
13	0.35	3.94	1.44	1.44	11.50	17.48	10.85	5.50	3.22	1.37	0.40	0.15	
14	0.32	4.48	1.08	1.17	8.26	10.87	10.16	8.38	3.06	2.26	0.40	0.20	
15	0.32	3.42	1.26	0.79	8.26	68.40	9.26	15.68	2.74	2.26	0.40	0.20	
16	0.32	2.90	1.17	0.62	8.83	32.36	9.26	9.93	2.58	2.10	0.40	0.15	
17	0.35	2.35	1.26	1.80	11.50	27.50	7.94	7.94	2.58	1.95	0.35	0.13	
18	0.35	2.79	0.74	3.29	7.31	12.42	7.94	7.10	2.58	1.37	0.35	0.13	
19	0.40	1.91	0.74	2.02	6.36	7.69	7.50	6.90	2.58	1.52	0.35	0.13	
20	0.32	1.62	1.44	11.29	4.90	21.39	6.90	6.10	2.58	1.08	0.45	0.15	
21	0.32	1.26	1.35	3.03	4.76	110.00	6.30	5.90	2.42	0.79	3.22	0.20	
22	0.32	0.84	0.79	1.80	17.71	54.50	5.70	5.90	2.58	0.79	5.14	0.13	
23	0.32	0.74	1.35	1.17	11.50	115.50	5.70	5.32	2.42	0.55	6.90	0.15	
24	0.30	0.68	0.57	0.99	9.82	108.90	6.50	5.50	2.42	0.60	3.88	0.13	
25	0.30	0.74	0.46	1.08	6.74	43.45	6.10	5.50	2.42	0.65	2.74	0.13	
26	0.32	0.68	0.40	2.68	5.98	25.16	6.10	5.70	2.42	0.60	1.95	0.12	
27	0.32	0.62	0.35	1.71	6.36	19.09	5.32	6.10	2.42	0.60	0.94	0.11	
28	0.35	0.57	0.35	1.17	5.18	15.18	5.14	6.50	2.42	0.65	0.65	0.12	
29	3.55	1.08	0.32	0.99	4.20	11.29	5.14	5.50	2.10	1.37	0.55	0.13	
30	1.80	1.35	0.32	11.29	5.04	9.02	5.14	5.50	2.10	1.81		0.13	
31		1.53		41.80	11.29		4.96		2.10	1.95		0.12	
Total	14.89	97.23	27.25	102.43	311.87	816.88	362.48	192.95	99.28	45.42	35.85	7.26	2113.79 CMSDAY
Mean	0.50	3.14	0.91	3.30	10.06	27.23	11.69	6.43	3.20	1.47	1.24	0.23	5.78 CMS
Max	3.55	31.40	1.62	41.80	56.00	115.50	41.40	15.68	5.32	2.26	6.90	0.55	115.50 CMS
Min	0.30	0.57	0.32	0.32	4.07	4.76	4.96	4.78	2.10	0.55	0.35	0.11	0.11 CMS
Runoff	1.286	8.401	2.354	8.850	26.946	70.578	31.318	16.671	8.578	3.924	3.097	0.627	182.631 MCM

Momentary Peak 225.50 CMS, at 279.25 M (MSL), at 3.00 Hours, on Sep 21, 1995

Runoff Yield 12.56 Liters/Second/Square KM, Momentary Peak Yield 490.217 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

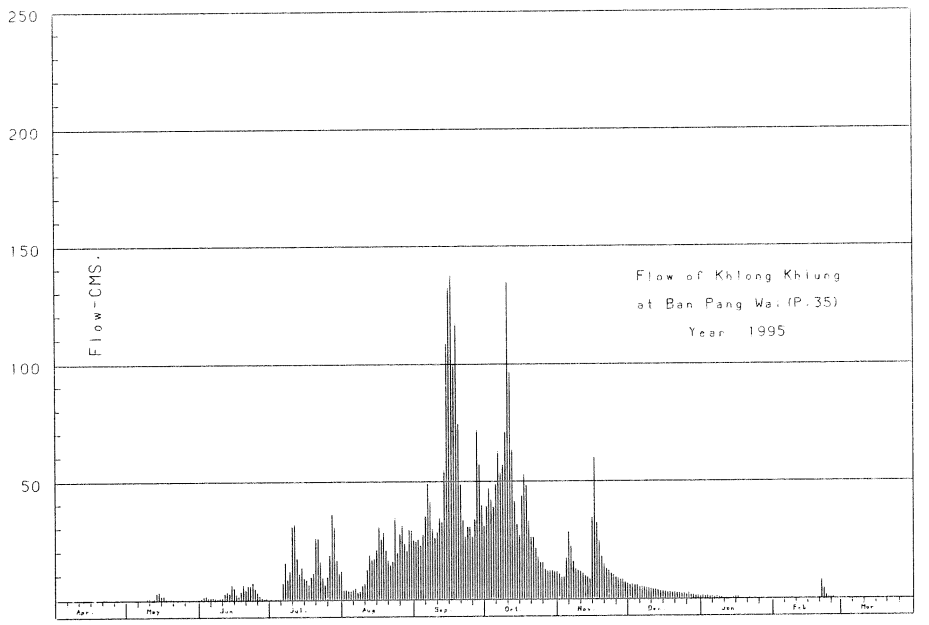
Khlong Khlung at Ban Pang Wai, Kamphaeng Phet (P.35)

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	Overbank flow starts at elevation + 4.36 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 124 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.21	-0.28	0.05	0.03	0.85	2.56	3.12	1.62	1.15	0.33	-0.03	-0.15	
2	-0.22	-0.28	0.37	-0.01	0.84	2.60	3.32	1.46	1.14	0.33	-0.03	-0.15	
3	-0.22	-0.28	0.38	-0.03	0.81	2.49	3.20	1.49	1.13	0.31	-0.02	-0.15	
4	-0.20	-0.28	0.24	0.05	0.76	2.69	3.11	2.15	1.10	0.28	-0.02	-0.15	
5	-0.23	-0.25	0.25	0.11	0.87	2.99	3.37	2.74	1.02	0.22	-0.04	-0.16	
6	-0.23	-0.25	0.22	1.22	0.96	3.38	3.67	2.46	1.01	0.22	-0.07	-0.17	
7	-0.23	-0.25	0.20	2.04	0.70	3.17	3.48	2.06	1.00	0.24	-0.07	-0.18	
8	-0.23	-0.26	0.13	1.41	0.73	2.79	3.55	1.79	0.93	0.22	-0.05	-0.18	
9	-0.23	0.17	0.12	1.71	1.11	2.64	3.83	1.75	0.95	0.12	-0.05	-0.19	
10	-0.23	0.18	0.16	2.84	1.19	2.74	4.70	1.69	0.87	0.01	-0.06	-0.19	
11	-0.24	-0.12	0.63	2.86	1.80	2.95	4.23	1.62	0.87	-0.01	-0.07	-0.20	
12	-0.24	0.14	0.70	2.17	2.25	2.90	3.68	1.54	0.84	-0.03	-0.08	-0.20	
13	-0.24	0.67	0.65	1.62	2.12	3.50	3.18	1.47	0.81	-0.04	-0.09	-0.21	
14	-0.24	0.71	1.14	1.85	2.14	4.40	2.87	1.41	0.73	0.18	-0.10	-0.22	
15	-0.24	0.42	0.97	1.46	2.39	4.67	2.67	2.96	0.76	0.18	-0.10	-0.22	
16	-0.25	0.42	0.52	1.37	2.83	4.73	3.25	3.62	0.69	0.27	-0.11	-0.23	
17	-0.25	0.13	0.38	1.17	2.62	4.27	3.46	2.89	0.66	-0.04	-0.12	-0.23	
18	-0.26	-0.01	0.79	1.52	2.73	4.50	3.36	2.57	0.65	-0.02	-0.12	-0.23	
19	-0.27	0.11	1.14	1.64	2.40	3.89	2.91	2.22	0.65	-0.02	-0.13	-0.23	
20	-0.27	0.03	0.88	2.63	2.09	3.37	2.64	1.96	0.63	0.01	0.11	-0.23	
21	-0.27	-0.02	1.08	2.63	1.95	2.92	2.65	1.83	0.62	0.19	1.32	-0.24	
22	-0.27	-0.08	1.08	2.07	2.05	2.65	2.44	1.73	0.59	-0.04	0.91	-0.24	
23	-0.27	-0.18	1.28	1.46	2.96	2.83	2.18	1.64	0.55	-0.04	0.41	-0.24	
24	-0.27	-0.03	0.97	1.16	2.33	2.82	2.04	1.57	0.54	-0.02	0.19	-0.24	
25	-0.28	-0.11	0.66	1.52	2.71	2.66	2.01	1.49	0.48	-0.01	0.13	-0.24	
26	-0.28	-0.01	0.39	2.24	2.84	2.94	1.80	1.43	0.58	-0.02	0.06	-0.23	
27	-0.28	-0.09	0.22	3.02	2.52	3.84	1.74	1.40	0.45	-0.04	-0.01	-0.23	
28	-0.28	-0.12	0.13	2.82	2.38	3.56	1.72	1.37	0.40	-0.04	-0.03	-0.23	
29	-0.28	-0.13	0.07	2.11	2.78	3.12	1.75	1.27	0.36	-0.05	-0.04	-0.23	
30	-0.29	-0.10	0.06	1.65	2.76	2.83	1.70	1.19	0.33	-0.05		-0.24	
31		-0.11		1.72	2.60		1.69		0.29	-0.06		-0.24	
Mean	-0.25	-0.01	0.53	1.61	1.94	3.25	2.88	1.88	0.73	0.08	0.06	-0.21	
Max	-0.20	0.71	1.28	3.02	2.96	4.73	4.70	3.62	1.15	0.33	1.32	-0.15	4.73
Min	-0.29	-0.28	0.05	-0.03	0.70	2.49	1.69	1.19	0.29	-0.06	-0.13	-0.24	-0.29

Annual Max Momentary Gage Height 4.82 M (A.D), at 14.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.35 M (A.D)
Left Bank Elevation 12.37 M (A.D)
Right Bank Elevation 4.36 M (A.D), Drainage Area 730 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.02	0.63	0.58	4.25	24.64	39.74	11.02	6.42	1.52	0.44	0.20	
2	0.08	0.02	1.68	0.48	4.18	25.50	47.10	9.33	6.35	1.52	0.44	0.20	
3	0.08	0.02	1.72	0.44	3.97	23.13	42.30	9.65	6.28	1.44	0.46	0.20	
4	0.10	0.02	1.16	0.63	3.68	27.66	39.42	17.50	6.05	1.32	0.46	0.20	
5	0.07	0.05	1.20	0.78	4.39	35.62	49.10	28.86	5.45	1.08	0.42	0.18	
6	0.07	0.05	1.08	6.99	5.02	49.50	62.94	22.49	5.38	1.08	0.36	0.16	
7	0.07	0.05	1.00	15.96	3.35	41.34	53.94	16.24	5.30	1.16	0.36	0.14	
8	0.07	0.04	0.83	8.80	3.52	30.06	57.13	12.89	4.81	1.08	0.40	0.14	
9	0.07	0.93	0.80	12.01	6.13	26.46	71.22	12.45	4.95	0.80	0.40	0.12	
10	0.07	0.95	0.90	31.42	6.73	28.86	135.00	11.79	4.39	0.52	0.38	0.12	
11	0.06	0.26	2.97	31.98	13.00	34.50	96.68	11.02	4.39	0.48	0.36	0.10	
12	0.06	0.85	3.35	17.78	18.95	33.10	63.44	10.17	4.18	0.44	0.34	0.10	
13	0.06	3.19	3.07	11.02	17.08	54.85	41.66	9.44	3.97	0.42	0.32	0.09	
14	0.06	3.40	6.35	13.60	17.36	109.00	32.26	8.80	3.52	0.95	0.30	0.08	
15	0.06	1.90	5.09	9.33	21.05	132.15	27.18	34.78	3.68	0.95	0.30	0.08	
16	0.05	1.90	2.40	8.42	31.14	137.85	44.30	60.41	3.29	1.28	0.28	0.07	
17	0.05	0.83	1.72	6.57	25.98	99.58	53.03	32.82	3.13	0.42	0.26	0.07	
18	0.04	0.48	3.85	9.96	28.62	117.25	48.70	24.85	3.07	0.46	0.26	0.07	
19	0.03	0.78	6.35	11.24	21.20	74.68	33.38	18.50	3.07	0.46	0.24	0.07	
20	0.03	0.58	4.46	26.22	16.66	49.10	26.46	14.92	2.97	0.52	0.78	0.07	
21	0.03	0.46	5.90	26.22	14.80	33.66	26.70	13.36	2.91	0.98	7.94	0.06	
22	0.03	0.34	5.90	16.38	16.10	26.70	22.06	12.23	2.75	0.42	4.67	0.06	
23	0.03	0.14	7.56	9.33	34.78	31.14	17.92	11.24	2.55	0.42	1.85	0.06	
24	0.03	0.44	5.09	6.50	20.15	30.86	15.96	10.49	2.50	0.46	0.98	0.06	
25	0.02	0.28	3.13	9.96	28.14	26.94	15.54	9.65	2.20	0.48	0.83	0.06	
26	0.02	0.48	1.76	18.80	31.42	34.22	13.00	9.01	2.70	0.46	0.65	0.07	
27	0.02	0.32	1.08	36.54	23.78	71.80	12.34	8.70	2.05	0.42	0.48	0.07	
28	0.02	0.26	0.83	30.86	20.90	57.58	12.12	8.42	1.80	0.42	0.44	0.07	
29	0.02	0.24	0.68	16.94	29.82	39.74	12.45	7.46	1.64	0.40	0.42	0.07	
30	0.01	0.30	0.65	11.35	29.34	31.14	11.90	6.73	1.52	0.40		0.06	
31		0.28		12.12	25.50		11.79		1.36	0.38		0.06	
Total	1.50	19.86	83.19	419.21	530.99	1538.61	1236.76	475.22	114.63	23.14	25.82	3.16	4472.09 CMSDAY
Mean	0.05	0.64	2.77	13.52	17.13	51.29	39.90	15.84	3.70	0.75	0.89	0.10	12.22 CMS
Max	0.10	3.40	7.56	36.54	34.78	137.85	135.00	60.41	6.42	1.52	7.94	0.20	137.85 CMS
Min	0.01	0.02	0.63	0.44	3.35	23.13	11.79	6.73	1.36	0.38	0.24	0.06	0.01 CMS
Runoff	0.130	1.716	7.188	36.220	45.878	132.936	106.856	41.059	9.904	1.999	2.231	0.273	386.389 MCM

Momentary Peak 146.55 CMS, at 4.82 M (A.D), at 14.00 Hours, on Sep 15, 1995

Runoff Yield 16.74 Liters/Second/Square KM, Momentary Peak Yield 200.75 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

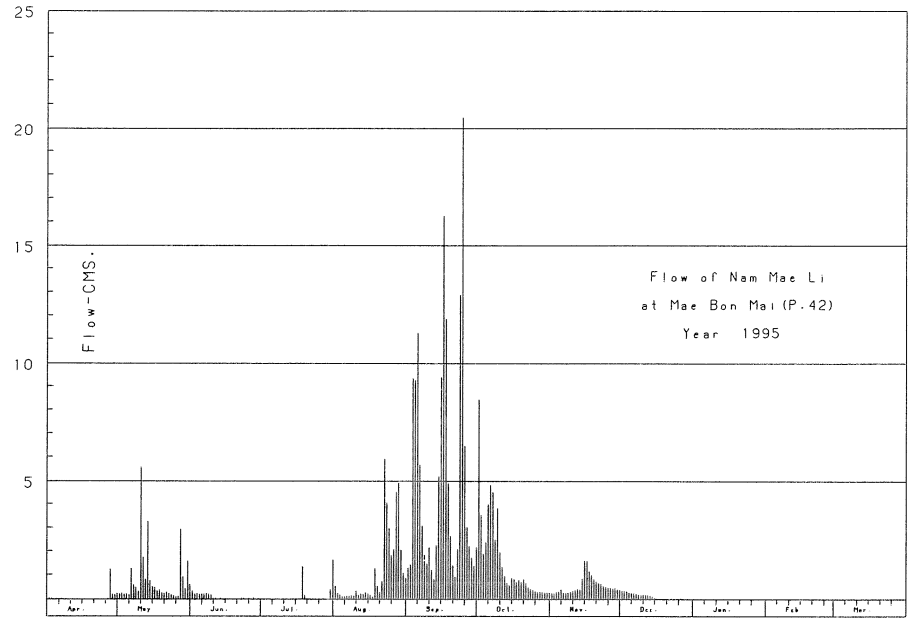
Nam Mae Li at Ban Mae Bon Mai, Lamphun (P.42)

Location	Lat. 17°-53'-16" N., Long. 99°-05'-20" E., on right bank at Ban Mae Bon Mai, Amphoe Thung Hua Chang, Lamphun.
Drainage Area	315 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+500.10 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at the top staff gage.
Elevation	+505.708 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 102 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	500.41	500.50	500.54	500.37	500.63	500.90	502.06	500.51	500.55	500.38	500.38	500.37	
2	500.41	500.50	500.50	500.37	500.51	500.94	501.36	500.50	500.54	500.38	500.38	500.37	
3	500.39	500.49	500.50	500.36	500.47	502.17	501.05	500.53	500.54	500.37	500.38	500.37	
4	500.38	500.49	500.49	500.36	500.44	502.16	501.16	500.53	500.51	500.38	500.38	500.36	
5	500.38	500.48	500.49	500.36	500.44	502.39	501.43	500.57	500.51	500.38	500.38	500.36	
6	500.38	500.89	500.49	500.35	500.44	501.67	501.55	500.51	500.50	500.38	500.38	500.36	
7	500.38	500.65	500.50	500.35	500.45	501.29	501.51	500.51	500.50	500.38	500.38	500.36	
8	500.38	500.60	500.49	500.35	500.45	501.04	501.18	500.51	500.47	500.38	500.38	500.36	
9	500.38	500.54	500.47	500.35	500.45	500.95	501.41	500.53	500.47	500.38	500.38	500.36	
10	500.37	501.66	500.40	500.35	500.54	501.11	501.07	500.54	500.47	500.38	500.38	500.35	
11	500.36	501.02	500.40	500.35	500.47	500.87	500.91	500.56	500.47	500.38	500.38	500.35	
12	500.36	500.74	500.40	500.34	500.49	500.74	500.79	500.57	500.46	500.38	500.38	500.35	
13	500.36	501.32	500.40	500.38	500.49	501.13	500.67	500.57	500.46	500.38	500.38	500.35	
14	500.36	500.71	500.40	500.38	500.51	501.60	500.64	500.74	500.43	500.38	500.36	500.34	
15	500.33	500.62	500.39	500.37	500.50	502.18	500.75	500.98	500.41	500.38	500.36	500.33	
16	500.32	500.60	500.39	500.39	500.46	502.87	500.74	500.98	500.41	500.38	500.36	500.33	
17	500.31	500.55	500.39	500.37	500.43	502.45	500.69	500.86	500.38	500.38	500.36	500.33	
18	500.19	500.56	500.38	500.92	500.90	501.56	500.73	500.80	500.38	500.38	500.36	500.33	
19	500.27	500.52	500.38	500.46	500.63	501.21	500.69	500.74	500.38	500.38	500.37	500.33	
20	500.28	500.50	500.39	500.40	500.52	500.93	500.74	500.70	500.38	500.38	500.38	500.33	
21	500.28	500.53	500.40	500.39	500.70	500.77	500.67	500.68	500.40	500.38	500.38	500.33	
22	500.28	500.50	500.41	500.35	501.71	501.10	500.61	500.66	500.40	500.38	500.39	500.33	
23	500.27	500.48	500.39	500.35	501.44	502.55	500.57	500.63	500.40	500.38	500.38	500.33	
24	500.26	500.45	500.40	500.36	501.27	503.24	500.56	500.61	500.40	500.38	500.38	500.32	
25	500.26	500.44	500.40	500.37	501.03	501.79	500.54	500.60	500.40	500.38	500.38	500.30	
26	500.39	500.44	500.39	500.39	501.09	501.28	500.52	500.59	500.40	500.38	500.38	500.30	
27	500.89	501.26	500.41	500.38	501.51	501.12	500.53	500.59	500.39	500.38	500.37	500.30	
28	500.48	500.78	500.40	500.37	501.56	501.01	500.52	500.59	500.38	500.38	500.36	500.31	
29	500.48	500.58	500.39	500.37	501.09	500.92	500.52	500.57	500.38	500.38	500.37	500.31	
30	500.50	500.98	500.38	500.56	500.83	501.11	500.51	500.56	500.39	500.38		500.31	
31		500.65		500.99	500.76		500.51		500.38	500.38		500.31	
Mean	500.37	500.68	500.43	500.41	500.75	501.50	500.88	500.63	500.44	500.38	500.38	500.34	
Max	500.89	501.66	500.54	500.99	501.71	503.24	502.06	500.98	500.55	500.38	500.39	500.37	503.24
Min	500.19	500.44	500.38	500.34	500.43	500.74	500.51	500.50	500.38	500.37	500.36	500.30	500.19

Annual Max Momentary Gage Height 504.00 M (MSL), at 22.00 Hours, on Sep 23, 1995
Zero Gage at Bottom Elevation 500.10 M (MSL), River Bed 500.00 M (MSL)
Left Bank Elevation 505.99 M (MSL)
Right Bank Elevation 504.40 M (MSL), Drainage Area 315 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.25	0.35	0.02	0.57	1.32	8.48	0.28	0.37	0.02	0.02	0.02	
2	0.07	0.25	0.25	0.02	0.28	1.48	3.57	0.25	0.35	0.02	0.02	0.02	
3	0.04	0.23	0.25	0.01	0.19	9.36	1.93	0.32	0.35	0.02	0.02	0.02	
4	0.03	0.23	0.23	0.01	0.13	9.28	2.43	0.32	0.28	0.02	0.02	0.01	
5	0.03	0.21	0.23	0.01	0.13	11.31	4.02	0.43	0.28	0.02	0.02	0.01	
6	0.03	1.29	0.23	0.00	0.13	5.69	4.85	0.28	0.25	0.02	0.02	0.01	
7	0.03	0.62	0.25	0.00	0.15	3.14	4.57	0.28	0.25	0.02	0.02	0.01	
8	0.03	0.50	0.23	0.00	0.15	1.89	2.52	0.28	0.19	0.02	0.02	0.01	
9	0.03	0.35	0.19	0.00	0.15	1.52	3.89	0.32	0.19	0.02	0.02	0.01	
10	0.02	5.62	0.05	0.00	0.35	2.19	2.01	0.35	0.19	0.02	0.02	0.00	
11	0.01	1.80	0.05	0.00	0.19	1.23	1.36	0.40	0.19	0.02	0.02	0.00	
12	0.01	0.86	0.05	0.00	0.23	0.86	0.99	0.43	0.17	0.02	0.02	0.00	
13	0.01	3.32	0.05	0.03	0.23	2.28	0.68	0.43	0.17	0.02	0.02	0.00	
14	0.01	0.78	0.05	0.03	0.28	5.20	0.60	0.86	0.11	0.02	0.01	0.00	
15	0.00	0.55	0.04	0.02	0.25	9.44	0.89	1.64	0.07	0.02	0.01	0.00	
16	0.00	0.50	0.04	0.04	0.17	16.27	0.86	1.64	0.07	0.02	0.01	0.00	
17	0.00	0.37	0.04	0.02	0.11	11.90	0.72	1.20	0.03	0.02	0.01	0.00	
18	0.00	0.40	0.03	1.40	1.32	4.92	0.83	1.02	0.03	0.02	0.01	0.00	
19	0.00	0.30	0.03	0.17	0.57	2.68	0.72	0.86	0.03	0.02	0.02	0.00	
20	0.00	0.25	0.04	0.05	0.30	1.44	0.86	0.75	0.03	0.02	0.02	0.00	
21	0.00	0.32	0.05	0.04	0.75	0.94	0.68	0.70	0.04	0.02	0.02	0.00	
22	0.00	0.25	0.07	0.00	5.97	2.14	0.52	0.65	0.04	0.02	0.03	0.00	
23	0.00	0.21	0.04	0.00	4.09	12.90	0.43	0.57	0.04	0.02	0.02	0.00	
24	0.00	0.15	0.05	0.01	3.03	20.48	0.40	0.52	0.04	0.02	0.02	0.00	
25	0.00	0.13	0.05	0.02	1.85	6.53	0.35	0.50	0.04	0.02	0.02	0.00	
26	0.04	0.13	0.04	0.04	2.10	3.08	0.30	0.47	0.04	0.02	0.02	0.00	
27	1.29	2.97	0.07	0.03	4.57	2.24	0.32	0.47	0.03	0.02	0.02	0.00	
28	0.21	0.97	0.05	0.02	4.92	1.76	0.30	0.47	0.02	0.02	0.01	0.00	
29	0.21	0.45	0.04	0.02	2.10	1.40	0.30	0.43	0.02	0.02	0.02	0.00	
30	0.25	1.64	0.03	0.40	1.11	2.19	0.28	0.40	0.03	0.02		0.00	
31		0.62		1.68	0.91		0.28		0.02	0.02		0.00	
Total	2.42	26.52	3.17	4.09	37.28	157.06	50.94	17.52	3.96	0.62	0.53	0.12	304.23 CMSDAY
Mean	0.08	0.86	0.11	0.13	1.20	5.24	1.64	0.58	0.13	0.02	0.02	0.00	0.83 CMS
Max	1.29	5.62	0.35	1.68	5.97	20.48	8.48	1.64	0.37	0.02	0.03	0.02	20.48 CMS
Min	0.00	0.13	0.03	0.00	0.11	0.86	0.28	0.25	0.02	0.02	0.01	0.00	0.00 CMS
Runoff	0.209	2.291	0.274	0.353	3.221	13.570	4.401	1.514	0.342	0.054	0.046	0.010	26.285 MCM

Momentary Peak 30.50 CMS, at 504.00 M (MSL), at 22.00 Hours, on Sep 23, 1995

Runoff Yield 2.64 Liters/Second/Square KM, Momentary Peak Yield 96.825 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

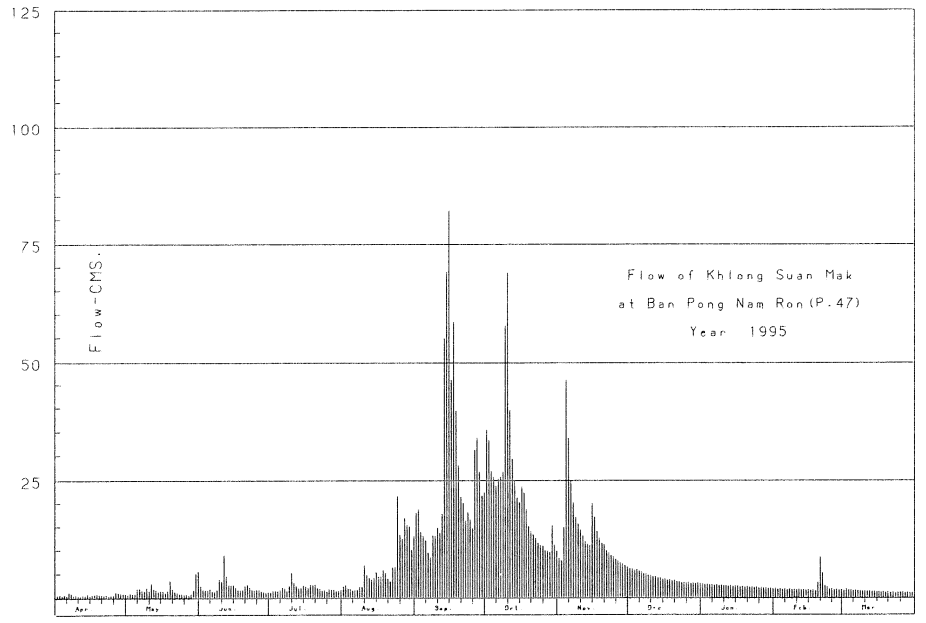
Khlong Suan Mak at Ban Pong Nam Ron, Kamphaeng Phet (P.47)

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. Stage-discharge relation defined by 70 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.20	-0.20	0.05	-0.11	0.05	0.89	1.43	0.42	0.32	0.10	0.00	-0.05	
2	-0.21	-0.14	-0.03	-0.08	0.07	0.92	1.38	0.40	0.31	0.10	-0.01	-0.02	
3	-0.22	-0.17	-0.05	-0.06	0.01	0.71	1.20	0.76	0.30	0.09	-0.01	-0.03	
4	-0.21	-0.15	-0.04	-0.09	-0.02	0.66	1.16	1.63	0.30	0.09	-0.02	-0.05	
5	-0.22	-0.02	-0.02	-0.04	-0.05	0.62	1.10	1.39	0.29	0.08	-0.02	-0.05	
6	-0.13	0.01	-0.08	0.02	-0.06	0.49	1.15	1.13	0.27	0.08	-0.02	-0.06	
7	-0.14	-0.07	-0.11	0.00	-0.03	0.43	1.16	0.98	0.25	0.08	-0.02	-0.06	
8	-0.21	-0.07	-0.03	-0.06	0.03	0.67	1.20	0.85	0.24	0.07	-0.02	-0.07	
9	-0.21	0.01	0.16	0.06	0.04	0.66	1.78	0.80	0.23	0.07	-0.03	-0.07	
10	-0.22	-0.06	0.14	0.26	0.35	0.75	1.90	0.73	0.22	0.07	-0.03	-0.08	
11	-0.23	0.10	0.46	0.11	0.22	0.70	1.52	0.67	0.21	0.06	-0.03	-0.08	
12	-0.22	-0.01	0.20	0.06	0.19	0.88	1.28	0.60	0.20	0.06	-0.03	-0.08	
13	-0.21	-0.06	0.08	0.00	0.16	1.75	1.13	0.58	0.19	0.06	-0.04	-0.08	
14	-0.18	-0.10	0.06	0.02	0.19	1.90	1.01	0.56	0.18	0.05	-0.04	-0.09	
15	-0.21	-0.09	0.08	0.06	0.27	2.01	0.98	0.97	0.17	0.05	-0.04	-0.09	
16	-0.21	-0.09	0.02	0.04	0.20	1.63	1.09	0.86	0.17	0.05	-0.05	-0.10	
17	-0.18	-0.12	-0.04	0.02	0.20	1.79	1.05	0.72	0.16	0.04	-0.05	-0.10	
18	-0.17	-0.08	-0.06	0.08	0.30	1.52	0.92	0.64	0.16	0.04	-0.06	-0.10	
19	-0.18	0.15	-0.03	0.08	0.25	1.24	0.77	0.59	0.15	0.04	0.12	-0.11	
20	-0.20	-0.02	0.05	0.08	0.17	1.02	0.71	0.57	0.15	0.04	0.44	-0.11	
21	-0.20	-0.09	0.09	0.02	0.14	0.97	0.68	0.51	0.14	0.04	0.25	-0.12	
22	-0.20	-0.13	0.02	-0.01	0.33	0.82	0.64	0.48	0.13	0.03	0.07	-0.12	
23	-0.22	-0.15	-0.03	-0.05	0.33	0.90	0.59	0.46	0.12	0.03	0.03	-0.13	
24	-0.23	-0.17	-0.06	-0.05	1.03	0.83	0.56	0.44	0.12	0.03	0.00	-0.13	
25	-0.20	-0.18	-0.03	-0.08	0.68	0.75	0.56	0.42	0.12	0.02	-0.01	-0.11	
26	-0.13	-0.18	-0.05	-0.03	0.63	1.33	0.51	0.39	0.12	0.02	-0.03	-0.12	
27	-0.14	-0.20	-0.08	-0.02	0.85	1.39	0.50	0.38	0.11	0.02	-0.03	-0.13	
28	-0.17	-0.17	-0.11	-0.04	0.78	1.20	0.49	0.36	0.11	0.01	-0.04	-0.13	
29	-0.16	-0.04	-0.12	-0.07	0.77	1.03	0.77	0.35	0.11	0.01	-0.04	-0.12	
30	-0.19	0.24	-0.12	-0.08	0.52	1.05	0.57	0.33	0.11	0.00		-0.13	
31		0.28		-0.05	0.66		0.50		0.11	0.00		-0.13	
Mean	-0.19	-0.06	0.01	0.00	0.30	1.05	0.98	0.67	0.19	0.05	0.01	-0.09	
Max	-0.13	0.28	0.46	0.26	1.03	2.01	1.90	1.63	0.32	0.10	0.44	-0.02	2.01
Min	-0.23	-0.20	-0.12	-0.11	-0.06	0.43	0.49	0.33	0.11	0.00	-0.06	-0.13	-0.23

Annual Max Momentary Gage Height 3.10 M (A.D), at 18.00 Hours, on Oct 9, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.92 M (A.D)
Left Bank Elevation 7.34 M (A.D)
Right Bank Elevation 6.06 M (A.D), Drainage Area 521 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.70	2.60	1.33	2.60	18.16	35.79	8.40	6.48	3.10	2.10	1.75	
2	0.63	1.12	1.89	1.54	2.80	18.92	33.68	8.00	6.29	3.10	2.03	1.96	
3	0.56	0.91	1.75	1.68	2.20	14.20	27.00	15.20	6.10	3.00	2.03	1.89	
4	0.63	1.05	1.82	1.47	1.96	13.20	25.80	46.31	6.10	3.00	1.96	1.75	
5	0.56	1.96	1.96	1.82	1.75	12.40	24.00	34.09	5.95	2.90	1.96	1.75	
6	1.19	2.20	1.54	2.30	1.68	9.80	25.50	24.90	5.65	2.90	1.96	1.68	
7	1.12	1.61	1.33	2.10	1.89	8.60	25.80	20.48	5.35	2.90	1.96	1.68	
8	0.63	1.61	1.89	1.68	2.40	13.40	27.00	17.20	5.20	2.80	1.96	1.61	
9	0.63	2.20	4.00	2.70	2.50	13.20	57.80	16.00	5.05	2.80	1.89	1.61	
10	0.56	1.68	3.70	5.50	7.05	15.00	69.20	14.60	4.90	2.80	1.89	1.54	
11	0.49	3.10	9.20	3.25	4.90	14.00	39.90	13.40	4.75	2.70	1.89	1.54	
12	0.56	2.03	4.60	2.70	4.45	17.92	29.72	12.00	4.60	2.70	1.89	1.54	
13	0.63	1.68	2.90	2.10	4.00	55.25	24.90	11.60	4.45	2.70	1.82	1.54	
14	0.84	1.40	2.70	2.30	4.45	69.20	21.30	11.20	4.30	2.60	1.82	1.47	
15	0.63	1.47	2.90	2.70	5.65	82.40	20.48	20.22	4.15	2.60	1.82	1.47	
16	0.63	1.47	2.30	2.50	4.60	46.31	23.70	17.44	4.15	2.60	1.75	1.40	
17	0.84	1.26	1.82	2.30	4.60	58.65	22.50	14.40	4.00	2.50	1.75	1.40	
18	0.91	1.54	1.68	2.90	6.10	39.90	18.92	12.80	4.00	2.50	1.68	1.40	
19	0.84	3.85	1.89	2.90	5.35	28.36	15.40	11.80	3.85	2.50	3.40	1.33	
20	0.70	1.96	2.60	2.90	4.15	21.60	14.20	11.40	3.85	2.50	8.80	1.33	
21	0.70	1.47	3.00	2.30	3.70	20.22	13.60	10.20	3.70	2.50	5.35	1.26	
22	0.70	1.19	2.30	2.03	6.67	16.48	12.80	9.60	3.55	2.40	2.80	1.26	
23	0.56	1.05	1.89	1.75	6.67	18.40	11.80	9.20	3.40	2.40	2.40	1.19	
24	0.49	0.91	1.68	1.75	21.90	16.72	11.20	8.80	3.40	2.40	2.10	1.19	
25	0.70	0.84	1.89	1.54	13.60	15.00	11.20	8.40	3.40	2.30	2.03	1.33	
26	1.19	0.84	1.75	1.89	12.60	31.63	10.20	7.81	3.40	2.30	1.89	1.26	
27	1.12	0.70	1.54	1.96	17.20	34.09	10.00	7.62	3.25	2.30	1.89	1.19	
28	0.91	0.91	1.33	1.82	15.60	27.00	9.80	7.24	3.25	2.20	1.82	1.19	
29	0.98	1.82	1.26	1.61	15.40	21.90	15.40	7.05	3.25	2.20	1.82	1.26	
30	0.77	5.20	1.26	1.54	10.40	22.50	11.40	6.67	3.25	2.10		1.19	
31		5.80		1.75	13.20		10.00		3.25	2.10		1.19	
Total	22.40	55.53	72.97	68.61	212.02	794.41	709.99	424.03	136.27	80.40	68.46	45.15	2690.24 CMSDAY
Mean	0.75	1.79	2.43	2.21	6.84	26.48	22.90	14.13	4.40	2.59	2.36	1.46	7.35 CMS
Max	1.19	5.80	9.20	5.50	21.90	82.40	69.20	46.31	6.48	3.10	8.80	1.96	82.40 CMS
Min	0.49	0.70	1.26	1.33	1.68	8.60	9.80	6.67	3.25	2.10	1.68	1.19	0.49 CMS
Runoff	1.935	4.798	6.305	5.928	18.319	68.637	61.343	36.636	11.774	6.947	5.915	3.901	232.437 MCM

Momentary Peak 327.00 CMS, at 3.10 M (A.D), at 18.00 Hours, on Oct 9, 1995

Runoff Yield 14.11 Liters/Second/Square KM, Momentary Peak Yield 627.639 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

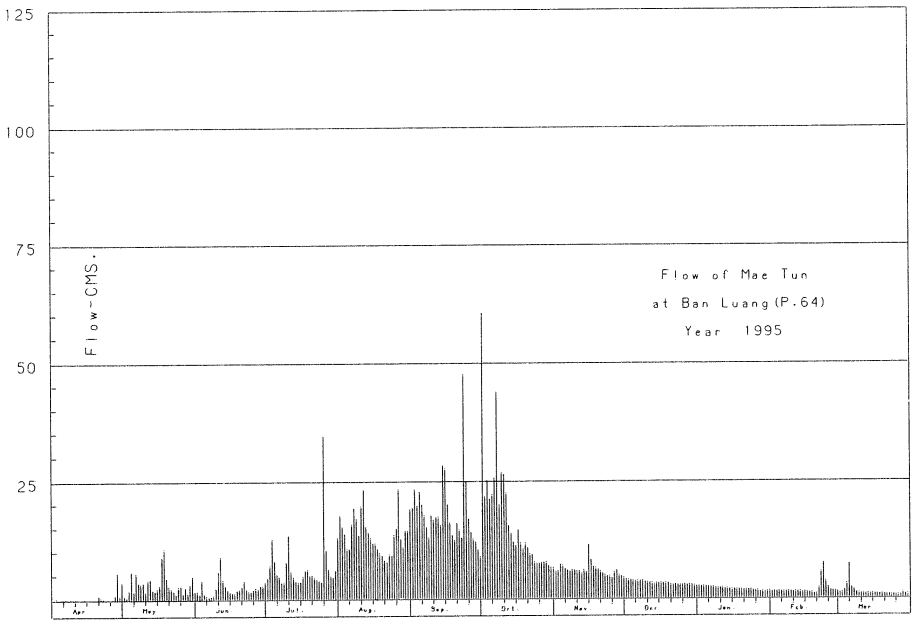
Nam Mae Tun at Ban Luang, Chiang Mai (P.64)

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 fair. Stage-discharge relation defined by 174 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.39	0.48	0.56	0.73	1.22	1.26	2.14	0.80	0.72	0.63	0.55	0.53	
2	0.40	0.42	0.52	0.85	1.14	1.36	1.32	0.80	0.71	0.63	0.55	0.53	
3	0.38	0.57	0.70	1.05	1.09	1.27	1.41	0.86	0.71	0.63	0.55	0.57	
4	0.36	0.80	0.52	0.89	0.98	1.35	1.31	0.85	0.70	0.63	0.55	0.66	
5	0.36	0.56	0.47	0.77	0.98	1.28	1.33	0.82	0.70	0.62	0.55	0.86	
6	0.37	0.78	0.45	0.74	1.16	1.22	1.42	0.81	0.70	0.62	0.55	0.61	
7	0.37	0.68	0.45	0.68	1.26	1.14	1.83	0.80	0.70	0.62	0.55	0.57	
8	0.36	0.66	0.49	0.68	1.20	1.06	1.28	0.81	0.70	0.61	0.55	0.53	
9	0.36	0.68	0.61	0.88	1.08	1.22	1.45	0.81	0.69	0.61	0.55	0.52	
10	0.36	0.55	0.80	1.08	1.27	1.19	1.44	0.80	0.68	0.61	0.55	0.52	
11	0.36	0.71	0.92	0.80	1.36	1.21	1.34	0.80	0.68	0.61	0.55	0.52	
12	0.36	0.72	0.71	0.74	1.14	1.21	1.15	0.78	0.67	0.60	0.55	0.51	
13	0.36	0.59	0.64	0.70	1.10	1.15	1.09	0.81	0.66	0.60	0.55	0.51	
14	0.36	0.57	0.58	0.68	1.06	1.49	1.03	0.79	0.67	0.59	0.54	0.51	
15	0.36	0.60	0.55	0.69	1.02	1.47	1.00	1.01	0.67	0.59	0.54	0.51	
16	0.35	0.64	0.54	0.75	1.02	1.28	1.12	0.90	0.67	0.59	0.53	0.51	
17	0.35	0.92	0.53	0.81	0.98	1.17	1.02	0.84	0.67	0.59	0.53	0.50	
18	0.35	0.98	0.58	0.82	0.95	1.08	0.98	0.83	0.67	0.59	0.53	0.50	
19	0.35	0.73	0.59	0.76	0.93	1.04	1.02	0.82	0.67	0.58	0.51	0.50	
20	0.48	0.63	0.63	0.76	0.89	1.17	0.99	0.80	0.65	0.58	0.51	0.50	
21	0.44	0.60	0.70	0.74	0.88	1.12	0.94	0.78	0.65	0.58	0.61	0.49	
22	0.38	0.57	0.60	0.72	0.94	1.06	0.94	0.76	0.65	0.58	0.79	0.49	
23	0.37	0.52	0.56	0.70	0.93	1.90	0.88	0.75	0.65	0.58	0.87	0.49	
24	0.35	0.63	0.56	0.69	1.08	1.40	0.87	0.75	0.65	0.57	0.69	0.49	
25	0.34	0.64	0.58	1.64	1.13	1.20	0.87	0.73	0.65	0.57	0.61	0.48	
26	0.35	0.53	0.61	0.97	1.36	1.10	0.87	0.79	0.65	0.57	0.57	0.48	
27	0.50	0.62	0.60	0.82	1.05	1.05	0.88	0.81	0.65	0.55	0.56	0.48	
28	0.79	0.53	0.64	0.75	0.99	1.03	0.88	0.76	0.65	0.55	0.55	0.53	
29	0.47	0.65	0.64	0.74	1.11	0.97	0.85	0.75	0.65	0.55	0.54	0.50	
30	0.68	0.75	0.68	0.81	1.11	0.92	0.83	0.73	0.64	0.56		0.50	
31		0.56		1.06	1.25		0.83		0.63	0.56		0.50	
Mean	0.40	0.64	0.60	0.82	1.09	1.21	1.14	0.81	0.67	0.59	0.57	0.53	
Max	0.79	0.98	0.92	1.64	1.36	1.90	2.14	1.01	0.72	0.63	0.87	0.86	2.14
Min	0.34	0.42	0.45	0.68	0.88	0.92	0.83	0.73	0.63	0.55	0.51	0.48	0.34

Annual Max Momentary Gage Height 3.43 M (A.D), at 6.00 Hours, on Oct 1, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.30 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.31	0.87	1.78	4.60	17.96	19.48	60.75	6.00	4.40	2.81	1.65	1.39	
2	0.35	0.48	1.26	7.25	15.46	23.40	21.80	6.00	4.20	2.81	1.65	1.39	
3	0.28	1.91	4.00	12.85	14.01	19.86	25.40	7.50	4.20	2.81	1.65	1.91	
4	0.21	6.00	1.26	8.25	10.82	23.00	21.40	7.25	4.00	2.81	1.65	3.32	
5	0.21	1.78	0.81	5.40	10.82	20.24	22.20	6.50	4.00	2.64	1.65	7.50	
6	0.24	5.60	0.67	4.80	16.04	17.96	25.80	6.25	4.00	2.64	1.65	2.47	
7	0.24	3.66	0.67	3.66	19.48	15.46	44.16	6.00	4.00	2.64	1.65	1.91	
8	0.21	3.32	0.94	3.66	17.20	13.14	20.24	6.25	4.00	2.47	1.65	1.39	
9	0.21	3.66	2.47	8.00	13.72	17.96	27.00	6.25	3.83	2.47	1.65	1.26	
10	0.21	1.65	6.00	13.72	19.86	16.91	26.60	6.00	3.66	2.47	1.65	1.26	
11	0.21	4.20	9.08	6.00	23.40	17.58	22.60	6.00	3.66	2.47	1.65	1.26	
12	0.21	4.40	4.20	4.80	15.46	17.58	15.75	5.60	3.49	2.30	1.65	1.13	
13	0.21	2.17	2.98	4.00	14.30	15.75	14.01	6.25	3.32	2.30	1.65	1.13	
14	0.21	1.91	2.04	3.66	13.14	28.60	12.27	5.80	3.49	2.17	1.52	1.13	
15	0.21	2.30	1.65	3.83	11.98	27.80	11.40	11.69	3.49	2.17	1.52	1.13	
16	0.17	2.98	1.52	5.00	11.98	20.24	14.88	8.50	3.49	2.17	1.39	1.13	
17	0.17	9.08	1.39	6.25	10.82	16.33	11.98	7.00	3.49	2.17	1.39	1.00	
18	0.17	10.82	2.04	6.50	9.95	13.72	10.82	6.75	3.49	2.17	1.39	1.00	
19	0.17	4.60	2.17	5.20	9.37	12.56	11.98	6.50	3.49	2.04	1.13	1.00	
20	0.87	2.81	2.81	5.20	8.25	16.33	11.11	6.00	3.15	2.04	1.13	1.00	
21	0.61	2.30	4.00	4.80	8.00	14.88	9.66	5.60	3.15	2.04	2.47	0.94	
22	0.28	1.91	2.30	4.40	9.66	13.14	9.66	5.20	3.15	2.04	5.80	0.94	
23	0.24	1.26	1.78	4.00	9.37	47.75	8.00	5.00	3.15	2.04	7.75	0.94	
24	0.17	2.81	1.78	3.83	13.72	25.00	7.75	5.00	3.15	1.91	3.83	0.94	
25	0.14	2.98	2.04	34.80	15.17	17.20	7.75	4.60	3.15	1.91	2.47	0.87	
26	0.17	1.39	2.47	10.53	23.40	14.30	7.75	5.80	3.15	1.91	1.91	0.87	
27	1.00	2.64	2.30	6.50	12.85	12.85	8.00	6.25	3.15	1.65	1.78	0.87	
28	5.80	1.39	2.98	5.00	11.11	12.27	8.00	5.20	3.15	1.65	1.65	1.39	
29	0.81	3.15	2.98	4.80	14.59	10.53	7.25	5.00	3.15	1.65	1.52	1.00	
30	3.66	5.00	3.66	6.25	14.59	9.08	6.75	4.60	2.98	1.78		1.00	
31		1.78		13.14	19.10		6.75		2.81	1.78		1.00	
Total	17.95	100.81	76.03	220.68	435.58	550.90	519.47	186.34	108.99	68.93	60.10	45.47	2391.25 CMSDAY
Mean	0.60	3.25	2.53	7.12	14.05	18.36	16.76	6.21	3.52	2.22	2.07	1.47	6.53 CMS
Max	5.80	10.82	9.08	34.80	23.40	47.75	60.75	11.69	4.40	2.81	7.75	7.50	60.75 CMS
Min	0.14	0.48	0.67	3.66	8.00	9.08	6.75	4.60	2.81	1.65	1.13	0.87	0.14 CMS
Runoff	1.551	8.710	6.569	19.067	37.634	47.598	44.882	16.100	9.417	5.956	5.193	3.929	206.604 MCM

Momentary Peak 148.25 CMS, at 3.43 M (A.D), at 6.00 Hours, on Oct 1, 1995

Runoff Yield 19.44 Liters/Second/Square KM, Momentary Peak Yield 441.220 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

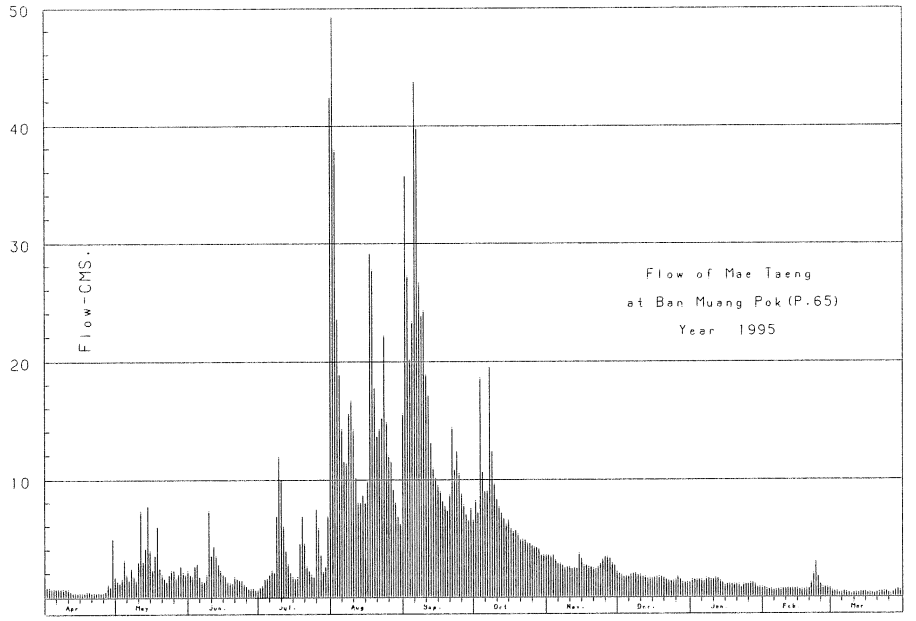
Mae Taeng River at Ban Muang Pok, Chiang Mai, (P.65)

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	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The concrete weir situated about 300 meters upstream from the gage site. Stage-discharge relation defined by 152 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.54	0.58	0.62	0.54	2.68	2.36	1.18	0.90	0.79	0.75	0.70	0.65	
2	0.54	0.57	0.61	0.55	2.42	2.10	1.12	0.89	0.78	0.75	0.68	0.64	
3	0.53	0.60	0.66	0.60	1.96	1.81	1.74	0.90	0.77	0.75	0.67	0.64	
4	0.53	0.69	0.67	0.60	1.75	1.95	1.33	0.87	0.77	0.75	0.67	0.62	
5	0.53	0.62	0.61	0.62	1.53	2.56	1.23	0.85	0.77	0.75	0.66	0.62	
6	0.53	0.59	0.58	0.64	1.38	2.47	1.23	0.85	0.78	0.74	0.66	0.64	
7	0.53	0.65	0.58	0.63	1.37	2.08	1.78	0.84	0.79	0.76	0.67	0.63	
8	0.53	0.61	0.62	0.87	1.60	1.97	1.43	0.82	0.79	0.76	0.67	0.62	
9	0.53	0.59	0.89	1.10	1.65	1.99	1.27	0.83	0.78	0.75	0.68	0.62	
10	0.53	0.68	0.71	1.01	1.53	1.75	1.19	0.83	0.78	0.75	0.68	0.62	
11	0.51	0.89	0.75	0.83	1.30	1.67	1.15	0.82	0.77	0.76	0.68	0.62	
12	0.50	0.68	0.71	0.73	1.17	1.47	1.12	0.82	0.77	0.76	0.68	0.62	
13	0.50	0.74	0.67	0.67	1.17	1.35	1.09	0.82	0.76	0.74	0.68	0.63	
14	0.50	0.91	0.64	0.63	1.21	1.30	1.06	0.91	0.76	0.73	0.68	0.63	
15	0.50	0.73	0.62	0.61	1.17	1.26	1.08	0.88	0.76	0.71	0.68	0.63	
16	0.50	0.64	0.61	0.60	1.28	1.23	1.04	0.84	0.76	0.72	0.67	0.62	
17	0.50	0.71	0.58	0.61	2.17	1.18	1.02	0.84	0.77	0.72	0.67	0.62	
18	0.51	0.83	0.57	0.76	2.12	1.15	1.03	0.83	0.77	0.72	0.67	0.62	
19	0.51	0.65	0.57	0.87	1.70	1.13	1.01	0.83	0.77	0.72	0.68	0.63	
20	0.50	0.62	0.61	0.76	1.50	1.21	0.98	0.82	0.76	0.72	0.68	0.62	
21	0.50	0.60	0.60	0.66	1.53	1.54	0.98	0.82	0.75	0.72	0.73	0.63	
22	0.50	0.58	0.59	0.64	1.58	1.34	0.98	0.83	0.74	0.70	0.79	0.64	
23	0.50	0.62	0.59	0.62	1.90	1.43	0.96	0.85	0.74	0.72	0.86	0.64	
24	0.50	0.64	0.56	0.61	1.56	1.32	0.96	0.87	0.74	0.72	0.77	0.64	
25	0.49	0.64	0.55	1.14	1.41	1.22	0.95	0.89	0.75	0.72	0.72	0.62	
26	0.51	0.60	0.53	1.04	1.38	1.16	0.94	0.89	0.77	0.73	0.70	0.60	
27	0.56	0.62	0.53	0.90	1.24	1.11	0.94	0.88	0.75	0.73	0.70	0.63	
28	0.54	0.66	0.53	0.80	1.17	1.08	0.93	0.85	0.73	0.72	0.70	0.65	
29	0.78	0.63	0.52	0.83	1.10	1.14	0.90	0.84	0.73	0.70	0.69	0.67	
30	0.61	0.62	0.52	1.10	1.06	1.08	0.90	0.80	0.73	0.70		0.65	
31		0.64		2.53	1.60		0.90		0.73	0.70		0.63	
Mean	0.53	0.66	0.61	0.81	1.55	1.55	1.11	0.85	0.76	0.73	0.70	0.63	
Max	0.78	0.91	0.89	2.53	2.68	2.56	1.78	0.91	0.79	0.76	0.86	0.67	2.68
Min	0.49	0.57	0.52	0.54	1.06	1.08	0.90	0.80	0.73	0.70	0.66	0.60	0.49

Annual Max Momentary Gage Height 3.36 M (A.D), at 12.00 Hours, on Jul 31, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.22 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.88	1.36	1.96	0.88	49.28	35.76	8.22	3.65	2.07	1.55	0.90	0.60	
2	0.88	1.24	1.78	1.00	37.96	27.30	7.23	3.51	1.94	1.55	0.78	0.54	
3	0.76	1.60	2.68	1.60	23.64	20.22	18.68	3.65	1.81	1.55	0.72	0.54	
4	0.76	3.22	2.86	1.60	18.90	23.40	10.71	3.22	1.81	1.55	0.72	0.42	
5	0.76	1.96	1.78	1.96	14.28	43.76	9.05	2.93	1.81	1.55	0.66	0.42	
6	0.76	1.48	1.36	2.32	11.56	39.86	9.05	2.93	1.94	1.42	0.66	0.54	
7	0.76	2.50	1.36	2.14	11.39	26.76	19.56	2.78	2.07	1.68	0.72	0.48	
8	0.76	1.78	1.96	6.94	15.65	23.88	12.44	2.49	2.07	1.68	0.72	0.42	
9	0.76	1.48	7.38	12.00	16.72	24.36	9.71	2.63	1.94	1.55	0.78	0.42	
10	0.76	3.04	3.60	10.02	14.28	18.90	8.39	2.63	1.94	1.55	0.78	0.42	
11	0.52	7.38	4.40	6.06	10.20	17.15	7.73	2.49	1.81	1.68	0.78	0.42	
12	0.40	3.04	3.60	4.00	8.05	13.16	7.23	2.49	1.81	1.68	0.78	0.42	
13	0.40	4.20	2.86	2.86	8.05	11.05	6.74	2.49	1.68	1.42	0.78	0.48	
14	0.40	7.82	2.32	2.14	8.72	10.20	6.24	3.81	1.68	1.29	0.78	0.48	
15	0.40	4.00	1.96	1.78	8.05	9.54	6.57	3.36	1.68	1.03	0.78	0.48	
16	0.40	2.32	1.78	1.60	9.87	9.05	5.91	2.78	1.68	1.16	0.72	0.42	
17	0.40	3.60	1.36	1.78	29.19	8.22	5.58	2.78	1.81	1.16	0.72	0.42	
18	0.52	6.06	1.24	4.60	27.84	7.73	5.74	2.63	1.81	1.16	0.72	0.42	
19	0.52	2.50	1.24	6.94	17.80	7.40	5.42	2.63	1.81	1.16	0.78	0.48	
20	0.40	1.96	1.78	4.60	13.70	8.72	4.93	2.49	1.68	1.16	0.78	0.42	
21	0.40	1.60	1.60	2.68	14.28	14.48	4.93	2.49	1.55	1.16	1.29	0.48	
22	0.40	1.36	1.48	2.32	15.26	10.88	4.93	2.63	1.42	0.90	2.07	0.54	
23	0.40	1.96	1.48	1.96	22.20	12.44	4.61	2.93	1.42	1.16	3.07	0.54	
24	0.40	2.32	1.12	1.78	14.87	10.54	4.61	3.22	1.42	1.16	1.81	0.54	
25	0.37	2.32	1.00	7.56	12.08	8.88	4.45	3.51	1.55	1.16	1.16	0.42	
26	0.52	1.60	0.76	5.91	11.56	7.89	4.29	3.51	1.81	1.29	0.90	0.30	
27	1.12	1.96	0.76	3.65	9.21	7.07	4.29	3.36	1.55	1.29	0.90	0.48	
28	0.88	2.68	0.76	2.20	8.05	6.57	4.13	2.93	1.29	1.16	0.90	0.60	
29	5.00	2.14	0.64	2.63	6.90	7.56	3.65	2.78	1.29	0.90	0.84	0.72	
30	1.78	1.96	0.64	6.90	6.24	6.57	3.65	2.20	1.29	0.90		0.60	
31		2.32		42.38	15.65		3.65		1.29	0.90		0.48	
Total	23.47	84.76	59.50	156.79	491.43	479.30	222.32	87.93	52.73	40.51	28.00	14.94	1741.68 CMSDAY
Mean	0.78	2.73	1.98	5.06	15.85	15.98	7.17	2.93	1.70	1.31	0.97	0.48	4.76 CMS
Max	5.00	7.82	7.38	42.38	49.28	43.76	19.56	3.81	2.07	1.68	3.07	0.72	49.28 CMS
Min	0.37	1.24	0.64	0.88	6.24	6.57	3.65	2.20	1.29	0.90	0.66	0.30	0.30 CMS
Runoff	2.028	7.323	5.141	13.547	42.460	41.412	19.208	7.597	4.556	3.500	2.419	1.291	150.481 MCM

Momentary Peak 98.88 CMS, at 3.36 M (A.D), at 12.00 Hours, on Jul 31, 1995

Runoff Yield 19.83 Liters/Second/Square KM, Momentary Peak Yield 412.000 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

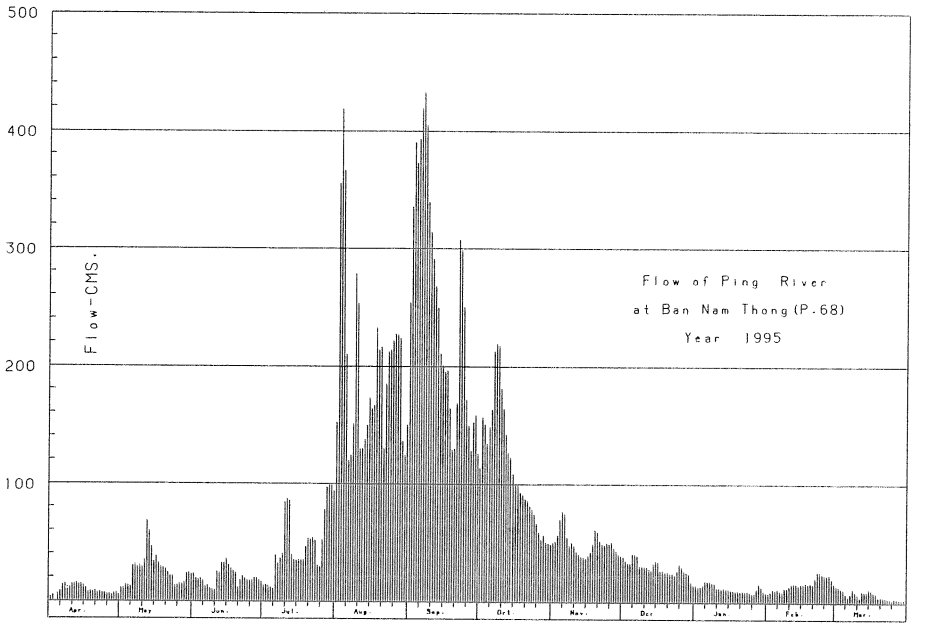
Ping River at Ban Nam Thong, Chiang Mai (P.68)

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	Stable.
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 44 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	1.14	1.48	1.20	3.64	4.66	3.16	2.07	1.84	1.23	1.01	1.22	
2	0.90	1.13	1.39	1.23	5.54	5.37	3.68	2.10	1.76	1.19	1.06	1.19	
3	0.59	1.23	1.35	1.20	6.07	5.83	3.62	2.20	1.73	1.19	1.12	1.15	
4	0.95	1.20	1.39	1.16	5.64	5.69	3.42	2.45	1.71	1.24	1.11	1.12	
5	1.05	1.18	1.33	1.11	4.24	5.86	3.59	2.57	1.89	1.33	1.13	1.01	
6	1.21	1.66	1.19	1.85	3.23	6.07	3.76	2.53	1.88	1.33	1.09	0.87	
7	1.25	1.69	1.20	1.71	3.30	6.19	4.27	2.17	1.86	1.33	1.05	1.00	
8	1.15	1.64	1.14	1.80	3.62	5.95	4.33	2.02	1.66	1.30	1.16	1.13	
9	1.16	1.66	1.10	1.88	4.88	5.41	4.31	2.08	1.66	1.28	1.14	1.06	
10	1.23	1.63	1.09	2.70	4.65	5.18	3.95	2.02	1.65	1.17	1.21	0.97	
11	1.25	1.76	1.52	2.74	3.36	4.99	3.76	1.93	1.65	1.15	1.26	0.85	
12	1.26	2.42	1.51	2.72	3.37	4.78	3.52	1.88	1.60	1.14	1.28	1.07	
13	1.24	2.26	1.72	1.87	3.46	4.62	3.33	1.84	1.58	1.15	1.26	1.07	
14	1.23	2.00	1.71	1.77	3.61	4.25	3.27	1.82	1.71	1.14	1.24	1.05	
15	1.21	1.73	1.78	1.76	3.86	4.15	3.08	1.81	1.76	1.13	1.26	1.14	
16	1.13	1.83	1.68	1.77	3.76	4.09	2.96	1.85	1.75	1.11	1.27	1.10	
17	1.03	1.72	1.59	1.77	3.80	4.11	2.94	1.92	1.57	1.09	1.28	1.05	
18	1.04	1.63	1.55	1.77	4.46	3.77	2.84	2.05	1.56	1.08	1.27	1.01	
19	1.04	1.62	1.50	2.00	4.28	3.35	2.80	2.29	1.54	1.08	1.28	0.86	
20	1.06	1.58	1.16	2.14	4.30	3.37	2.75	2.25	1.53	1.07	1.27	0.86	
21	1.02	1.52	1.34	2.13	3.37	3.81	2.72	2.11	1.51	1.07	1.40	0.86	
22	1.02	1.43	1.44	2.15	3.99	5.13	2.65	2.05	1.50	1.07	1.55	0.83	
23	1.01	1.44	1.38	2.11	4.26	5.05	2.60	2.04	1.48	1.06	1.53	0.81	
24	0.98	1.19	1.35	1.66	4.28	4.62	2.53	2.07	1.55	1.05	1.50	0.77	
25	0.96	1.22	1.34	1.64	4.35	3.85	2.38	2.06	1.71	1.02	1.47	0.69	
26	0.94	1.25	1.34	2.11	4.41	3.60	2.24	2.08	1.64	1.01	1.47	0.79	
27	0.93	1.25	1.40	2.58	4.40	3.35	2.13	1.99	1.56	1.14	1.48	0.79	
28	0.97	1.28	1.39	2.91	4.37	3.64	2.20	1.93	1.52	1.26	1.39	0.71	
29	1.00	1.50	1.35	2.95	3.45	3.70	2.08	1.88	1.50	1.19	1.27	0.71	
30	0.93	1.50	1.30	2.95	3.29	3.31	2.06	1.85	1.30	1.07		0.72	
31		1.48		2.86	3.61		2.05		1.24	1.03		0.73	
Mean	1.05	1.54	1.40	2.01	4.09	4.59	3.06	2.06	1.63	1.15	1.27	0.94	
Max	1.26	2.42	1.78	2.95	6.07	6.19	4.33	2.57	1.89	1.33	1.55	1.22	6.19
Min	0.59	1.13	1.09	1.11	3.23	3.31	2.05	1.81	1.24	1.01	1.01	0.69	0.59

Annual Max Momentary Gage Height 6.20 M (A.D), at 12.00 Hours, on Sep 7, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -2.99 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.5	11.8	23.7	13.7	153.1	254.6	114.5	50.5	39.1	14.7	7.8	14.4	
2	5.5	11.5	20.2	14.7	355.3	335.5	156.7	52.0	35.3	13.4	9.3	13.4	
3	1.2	14.7	18.8	13.7	418.9	390.1	151.3	57.0	33.9	13.4	11.1	12.1	
4	6.5	13.7	20.2	12.4	367.3	373.3	134.6	70.8	33.0	15.0	10.8	11.1	
5	9.0	13.1	18.1	10.8	210.2	393.7	148.6	77.4	41.5	18.1	11.5	7.8	
6	14.0	30.9	13.4	39.6	119.8	418.9	163.9	75.2	41.0	18.1	10.2	4.9	
7	15.4	32.1	13.7	33.0	125.0	433.3	213.4	55.5	40.1	18.1	9.0	7.5	
8	12.1	30.1	11.8	37.2	151.3	404.5	219.7	48.0	30.9	17.0	12.4	11.5	
9	12.4	30.9	10.5	41.0	279.2	340.1	217.6	51.0	30.9	16.3	11.8	9.3	
10	14.7	29.7	10.2	85.0	253.5	313.7	181.8	48.0	30.5	12.7	14.0	6.9	
11	15.4	35.3	25.3	87.4	129.8	291.8	163.9	43.5	30.5	12.1	15.7	4.5	
12	15.7	69.1	24.9	86.2	130.6	267.8	142.7	41.0	28.5	11.8	16.3	9.6	
13	15.0	60.3	33.4	40.6	137.8	250.2	127.4	39.1	27.7	12.1	15.7	9.6	
14	14.7	47.0	33.0	35.8	150.4	211.3	122.8	38.2	33.0	11.8	15.0	9.0	
15	14.0	33.9	36.3	35.3	173.2	201.0	108.7	37.7	35.3	11.5	15.7	11.8	
16	11.5	38.6	31.7	35.8	163.9	195.1	100.9	39.6	34.9	10.8	16.0	10.5	
17	8.4	33.4	28.1	35.8	167.5	197.0	99.6	43.0	27.3	10.2	16.3	9.0	
18	8.7	29.7	26.5	35.8	233.3	164.8	93.4	49.5	26.9	9.9	16.0	7.8	
19	8.7	29.3	24.5	47.0	214.4	129.0	91.0	61.9	26.1	9.9	16.3	4.7	
20	9.3	27.7	12.4	54.0	216.5	130.6	88.0	59.7	25.7	9.6	16.0	4.7	
21	8.1	25.3	18.4	53.5	130.6	168.5	86.2	52.5	24.9	9.6	20.6	4.7	
22	8.1	21.8	22.2	54.5	185.6	308.0	82.0	49.5	24.5	9.6	26.5	4.1	
23	7.8	22.2	19.9	52.5	212.3	298.7	79.0	49.0	23.7	9.3	25.7	3.7	
24	7.1	13.4	18.8	30.9	214.4	250.2	75.2	50.5	26.5	9.0	24.5	3.1	
25	6.7	14.4	18.4	30.1	221.8	172.3	66.9	50.0	33.0	8.1	23.3	2.2	
26	6.3	15.4	18.4	52.5	228.1	149.5	59.2	51.0	30.1	7.8	23.3	3.4	
27	6.1	15.4	20.6	77.9	227.0	129.0	53.5	46.5	26.9	11.8	23.7	3.4	
28	6.9	16.3	20.2	97.7	223.9	153.1	57.0	43.5	25.3	15.7	20.2	2.4	
29	7.5	24.5	18.8	100.3	137.0	158.5	51.0	41.0	24.5	13.4	16.0	2.4	
30	6.1	24.5	17.0	100.3	124.3	125.8	50.0	39.6	17.0	9.6		2.5	
31		23.7		94.6	150.4		49.5		15.0	8.4		2.7	
Total	286.4	839.7	629.4	1539.6	6206.4	7609.9	3550.0	1511.7	923.5	378.8	470.7	214.7	24160.8 CMSDAY
Mean	9.5	27.1	21.0	49.7	200.2	253.7	114.5	50.4	29.8	12.2	16.2	6.9	66.0 CMS
Max	15.7	69.1	36.3	100.3	418.9	433.3	219.7	77.4	41.5	18.1	26.5	14.4	433.3 CMS
Min	1.2	11.5	10.2	10.8	119.8	125.8	49.5	37.7	15.0	7.8	7.8	2.2	1.2 CMS
Runoff	24.74	72.55	54.38	133.02	536.23	657.50	306.72	130.61	79.79	32.73	40.67	18.55	2087.49 MCM

Momentary Peak 434.50 CMS, at 6.20 M (A.D), at 12.00 Hours, on Sep 7, 1995

Runoff Yield 10.27 Liters/Second/Square KM, Momentary Peak Yield 67.574 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

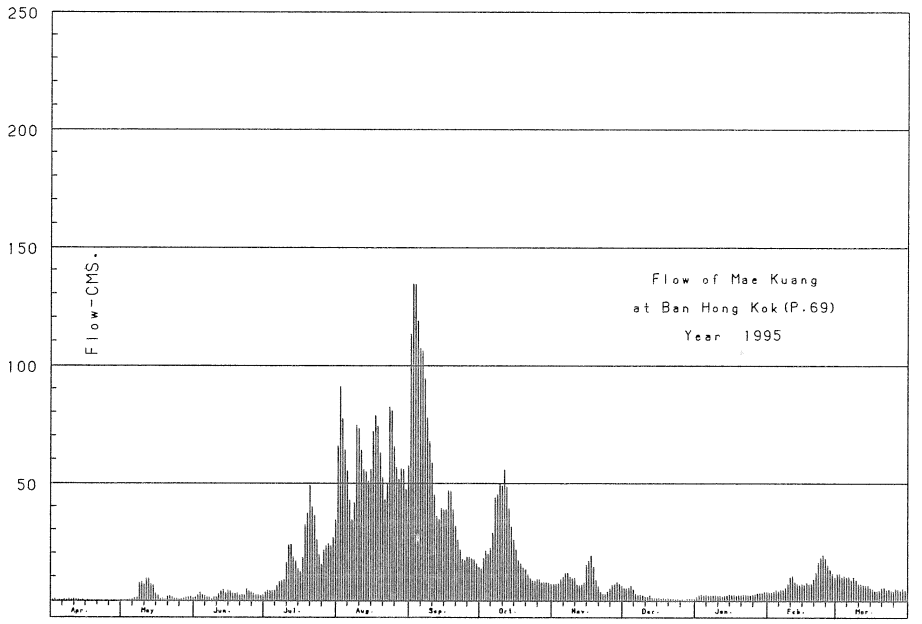
Nam Mae Kuang at Ban Hong Kok, Lamphun (P.69)

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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.41	0.58	0.83	3.21	4.56	1.38	1.06	0.80	0.51	0.68	1.07	
2	0.51	0.42	0.70	0.87	3.94	5.13	1.58	1.05	0.78	0.59	0.67	1.07	
3	0.46	0.43	0.79	0.87	3.56	5.12	1.70	1.08	0.81	0.60	0.71	1.02	
4	0.46	0.49	0.71	0.85	3.16	4.72	1.65	1.16	0.84	0.59	0.74	1.03	
5	0.45	0.50	0.66	0.88	2.89	4.40	1.75	1.23	0.77	0.59	0.72	1.02	
6	0.46	0.54	0.62	1.01	2.48	4.36	1.99	1.29	0.63	0.58	0.74	1.02	
7	0.49	0.59	0.58	1.12	2.19	4.04	2.51	1.31	0.60	0.57	0.75	0.97	
8	0.51	1.09	0.53	1.13	2.45	3.57	2.56	1.22	0.60	0.59	0.79	1.01	
9	0.50	1.10	0.59	1.17	3.47	3.27	2.70	1.20	0.59	0.57	0.89	0.97	
10	0.50	1.05	0.63	1.50	3.43	3.00	2.68	1.20	0.52	0.57	1.02	0.89	
11	0.52	1.18	0.73	1.80	3.16	2.55	2.90	1.05	0.53	0.56	1.03	0.88	
12	0.50	1.19	0.85	1.82	2.90	2.24	2.67	1.02	0.57	0.54	0.93	0.87	
13	0.47	1.05	0.89	1.59	2.88	2.20	2.36	1.05	0.49	0.55	0.88	0.85	
14	0.45	1.03	0.80	1.52	2.74	2.37	2.09	1.09	0.45	0.59	0.86	0.86	
15	0.44	0.75	0.87	1.38	2.90	2.34	1.88	1.45	0.48	0.61	0.88	0.79	
16	0.44	0.69	0.87	1.33	3.40	2.35	1.73	1.52	0.47	0.60	0.86	0.77	
17	0.45	0.54	0.76	1.59	3.60	2.61	1.53	1.35	0.45	0.60	0.92	0.73	
18	0.43	0.54	0.77	2.11	3.46	2.61	1.48	1.18	0.45	0.58	0.88	0.71	
19	0.41	0.51	0.77	2.29	3.13	2.34	1.40	0.97	0.45	0.58	0.90	0.74	
20	0.41	0.63	0.70	2.69	2.79	2.10	1.38	0.83	0.44	0.60	0.97	0.79	
21	0.40	0.67	0.69	2.39	2.49	1.88	1.27	0.70	0.43	0.60	1.09	0.81	
22	0.40	0.60	0.71	2.26	2.71	1.73	1.20	0.62	0.43	0.61	1.24	0.74	
23	0.40	0.56	0.91	1.89	3.70	1.55	1.13	0.63	0.41	0.58	1.32	0.77	
24	0.41	0.51	0.87	1.63	3.66	1.54	1.14	0.69	0.41	0.59	1.35	0.72	
25	0.39	0.50	0.82	1.47	3.20	1.60	1.18	0.79	0.40	0.61	1.31	0.72	
26	0.39	0.49	0.76	1.71	2.93	1.59	1.16	0.86	0.38	0.62	1.20	0.78	
27	0.39	0.56	0.71	1.79	2.77	1.57	1.10	0.89	0.37	0.66	1.14	0.75	
28	0.40	0.58	0.69	1.83	2.91	1.54	1.09	0.92	0.43	0.65	1.07	0.73	
29	0.41	0.61	0.68	1.79	2.90	1.47	1.10	0.89	0.44	0.67	1.01	0.77	
30	0.41	0.62	0.69	1.92	2.63	1.42	1.08	0.84	0.41	0.69		0.74	
31		0.58		2.18	2.96		1.05		0.42	0.69		0.69	
Mean	0.45	0.68	0.73	1.59	3.05	2.73	1.69	1.04	0.52	0.60	0.95	0.85	
Max	0.52	1.19	0.91	2.69	3.94	5.13	2.90	1.52	0.84	0.69	1.35	1.07	5.13
Min	0.39	0.41	0.53	0.83	2.19	1.42	1.05	0.62	0.37	0.51	0.67	0.69	0.37

Annual Max Momentary Gage Height 5.19 M (A.D), at 18.00 Hours, on Sep 2, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.06 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.35	1.44	3.99	65.93	113.36	13.66	7.28	5.65	1.69	3.73	11.62	
2	0.88	0.40	2.60	4.51	91.04	134.77	18.42	7.10	5.32	2.54	3.60	11.62	
3	0.60	0.45	3.50	4.51	77.74	134.38	21.30	7.64	5.84	2.65	4.17	10.32	
4	0.60	0.75	2.70	4.25	64.28	119.14	20.10	9.08	6.41	2.54	4.66	10.58	
5	0.55	0.80	2.20	4.64	55.69	107.60	22.50	10.43	5.15	2.54	4.33	10.32	
6	0.60	1.12	1.80	6.38	42.98	106.16	29.02	11.69	3.05	2.44	4.66	10.32	
7	0.75	1.52	1.44	8.36	34.62	94.64	43.91	12.12	2.65	2.33	4.82	9.13	
8	0.88	7.82	1.04	8.54	42.05	78.08	45.46	10.22	2.65	2.54	5.49	10.06	
9	0.80	8.00	1.52	9.26	74.68	67.91	49.80	9.80	2.54	2.33	7.36	9.13	
10	0.80	7.10	1.90	16.50	73.32	59.10	49.18	9.80	1.79	2.33	10.32	7.36	
11	0.96	9.44	2.90	23.70	64.28	45.15	56.00	7.10	1.90	2.22	10.58	7.17	
12	0.80	9.62	4.25	24.26	56.00	36.02	48.87	6.56	2.33	2.01	8.23	6.98	
13	0.65	7.10	4.77	18.66	55.38	34.90	39.38	7.10	1.51	2.12	7.17	6.60	
14	0.55	6.74	3.60	16.98	51.04	39.66	31.82	7.82	1.20	2.54	6.79	6.79	
15	0.50	3.10	4.51	13.66	56.00	38.82	25.94	15.30	1.43	2.79	7.17	5.49	
16	0.50	2.50	4.51	12.56	72.30	39.10	22.02	16.98	1.36	2.65	6.79	5.15	
17	0.55	1.12	3.20	18.66	79.10	47.01	17.22	19.45	1.20	2.65	8.00	4.50	
18	0.45	1.12	3.30	32.38	74.34	47.01	16.02	14.64	1.20	2.44	7.17	4.17	
19	0.35	0.88	3.30	37.42	63.29	38.82	14.10	9.13	1.20	2.44	7.55	4.66	
20	0.35	1.90	2.60	49.49	52.59	32.10	13.66	6.22	1.13	2.65	9.13	5.49	
21	0.30	2.30	2.50	40.22	43.29	25.94	11.27	4.00	1.06	2.65	12.14	5.84	
22	0.30	1.60	2.70	36.58	50.11	22.02	9.80	2.92	1.06	2.79	16.32	4.66	
23	0.30	1.28	5.03	26.22	82.50	17.70	8.54	3.05	0.90	2.44	18.58	5.15	
24	0.35	0.88	4.51	19.62	81.14	17.46	8.72	3.87	0.90	2.54	19.45	4.33	
25	0.28	0.80	3.86	15.78	65.60	18.90	9.44	5.49	0.83	2.79	18.29	4.33	
26	0.28	0.75	3.20	21.54	56.93	18.66	9.08	6.79	0.73	2.92	15.20	5.32	
27	0.28	1.28	2.70	23.46	51.97	18.18	8.00	7.36	0.68	3.46	13.52	4.82	
28	0.30	1.44	2.50	24.54	56.31	17.46	7.82	8.00	1.06	3.32	11.62	4.50	
29	0.35	1.70	2.40	23.46	56.00	15.78	8.00	7.36	1.13	3.60	10.06	5.15	
30	0.35	1.80	2.50	27.06	47.63	14.58	7.64	6.41	0.90	3.87		4.66	
31		1.44		34.34	57.86		7.10		0.98	3.87		3.87	
Total	16.01	87.10	88.98	611.53	1895.99	1600.41	693.79	260.71	65.74	82.69	266.90	210.09	5879.94 CMSDAY
Mean	0.53	2.81	2.97	19.73	61.16	53.35	22.38	8.69	2.12	2.67	9.20	6.78	16.07 CMS
Max	0.96	9.62	5.03	49.49	91.04	134.77	56.00	19.45	6.41	3.87	19.45	11.62	134.77 CMS
Min	0.28	0.35	1.04	3.99	34.62	14.58	7.10	2.92	0.68	1.69	3.60	3.87	0.28 CMS
Runoff	1.383	7.525	7.688	52.836	163.814	138.275	59.943	22.525	5.680	7.144	23.060	18.152	508.027 MCM

Momentary Peak 137.11 CMS, at 5.19 M (A.D), at 18.00 Hours, on Sep 2, 1995

Runoff Yield 10.03 Liters/Second/Square KM, Momentary Peak Yield 85.587 Liters/Second/Square KM

WATER YEAR 1995

PING RIVER BASIN

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

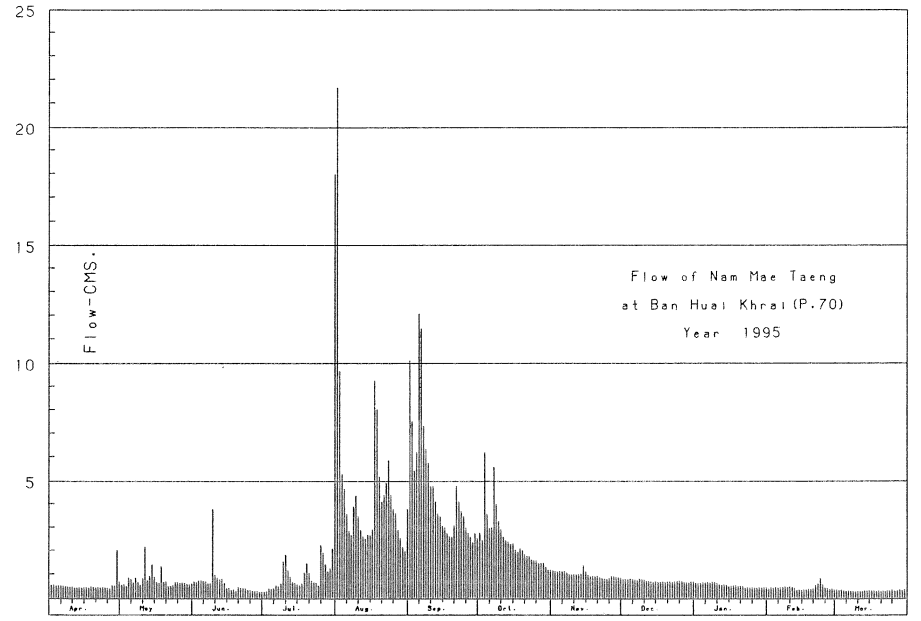
Location Lat. 19°-39'-08" N , Long. 98°-40'-10" E , on right bank at the bridge on highway, Ban Huai Khrai, Amphoe Wiang Haeng, Chiang Mai.

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The concrete weir situated about 150 meters upstream from the gage site. Stage-dischare relation defined by 61 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.56	0.60	0.44	1.93	1.47	0.97	0.72	0.63	0.59	0.51	0.48	
2	0.56	0.56	0.60	0.44	1.45	1.34	0.93	0.71	0.63	0.58	0.52	0.48	
3	0.55	0.54	0.61	0.51	1.20	1.21	1.26	0.71	0.63	0.59	0.52	0.48	
4	0.55	0.64	0.62	0.49	1.15	1.26	1.06	0.71	0.63	0.59	0.52	0.47	
5	0.55	0.63	0.61	0.51	1.06	1.56	1.00	0.71	0.63	0.59	0.52	0.46	
6	0.54	0.59	0.60	0.55	0.98	1.53	1.00	0.71	0.62	0.59	0.52	0.46	
7	0.54	0.64	0.58	0.53	0.96	1.33	1.22	0.70	0.62	0.59	0.53	0.46	
8	0.53	0.60	0.57	0.58	1.09	1.27	1.10	0.68	0.63	0.60	0.53	0.45	
9	0.53	0.55	1.08	0.79	1.13	1.23	1.03	0.68	0.63	0.60	0.53	0.45	
10	0.53	0.64	0.67	0.84	1.05	1.16	0.99	0.68	0.62	0.58	0.53	0.45	
11	0.52	0.89	0.64	0.72	0.99	1.16	0.95	0.68	0.61	0.56	0.53	0.46	
12	0.52	0.62	0.63	0.65	0.95	1.11	0.93	0.68	0.61	0.56	0.51	0.46	
13	0.52	0.66	0.63	0.60	0.94	1.06	0.92	0.69	0.60	0.56	0.48	0.46	
14	0.52	0.77	0.59	0.58	0.96	1.05	0.91	0.76	0.60	0.56	0.48	0.47	
15	0.52	0.65	0.51	0.56	0.96	1.01	0.91	0.71	0.60	0.54	0.48	0.47	
16	0.52	0.60	0.51	0.55	0.99	1.00	0.87	0.67	0.60	0.54	0.48	0.47	
17	0.52	0.58	0.48	0.57	1.43	0.97	0.86	0.66	0.60	0.55	0.49	0.46	
18	0.53	0.75	0.48	0.70	1.37	0.95	0.88	0.66	0.60	0.55	0.50	0.46	
19	0.53	0.60	0.46	0.78	1.19	0.95	0.87	0.66	0.60	0.54	0.50	0.46	
20	0.52	0.60	0.52	0.69	1.11	1.01	0.84	0.66	0.60	0.54	0.50	0.46	
21	0.52	0.54	0.51	0.61	1.13	1.16	0.83	0.65	0.60	0.54	0.55	0.46	
22	0.52	0.54	0.51	0.59	1.17	1.11	0.83	0.64	0.60	0.52	0.58	0.46	
23	0.52	0.55	0.50	0.58	1.24	1.07	0.81	0.63	0.60	0.52	0.64	0.47	
24	0.52	0.60	0.48	0.55	1.13	1.05	0.80	0.63	0.61	0.52	0.56	0.47	
25	0.51	0.59	0.47	0.90	1.08	1.00	0.80	0.64	0.61	0.52	0.52	0.48	
26	0.50	0.58	0.47	0.85	1.06	0.97	0.78	0.66	0.61	0.52	0.51	0.47	
27	0.55	0.59	0.45	0.77	0.99	0.95	0.78	0.66	0.60	0.52	0.50	0.47	
28	0.54	0.58	0.45	0.71	0.94	0.92	0.78	0.65	0.59	0.52	0.50	0.48	
29	0.87	0.57	0.44	0.73	0.89	0.97	0.75	0.65	0.59	0.52	0.49	0.48	
30	0.60	0.56	0.43	0.88	0.86	0.94	0.72	0.64	0.60	0.52		0.49	
31		0.58		1.80	1.08		0.72		0.60	0.52		0.48	
Mean	0.54	0.61	0.56	0.68	1.11	1.13	0.91	0.68	0.61	0.55	0.52	0.47	
Max	0.87	0.89	1.08	1.80	1.93	1.56	1.26	0.76	0.63	0.60	0.64	0.49	1.93
Min	0.50	0.54	0.43	0.44	0.86	0.92	0.72	0.63	0.59	0.52	0.48	0.45	0.43

Annual Max Momentary Gage Height 2.40 M (A.D), at 11.00 Hours, on Aug 1, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.10 M (A.D)
Left Bank Elevation 6.73 M (A.D)
Right Bank Elevation 5.27 M (A.D), Drainage Area 182 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.58	0.58	0.70	0.28	21.70	10.14	2.78	1.20	0.82	0.67	0.43	0.36	
2	0.58	0.58	0.70	0.28	9.70	7.52	2.48	1.15	0.82	0.64	0.46	0.36	
3	0.55	0.52	0.74	0.43	5.30	5.45	6.20	1.15	0.82	0.67	0.46	0.36	
4	0.55	0.86	0.78	0.38	4.65	6.20	3.60	1.15	0.82	0.67	0.46	0.34	
5	0.55	0.82	0.74	0.43	3.60	12.12	3.00	1.15	0.82	0.67	0.46	0.32	
6	0.52	0.67	0.70	0.55	2.85	11.46	3.00	1.15	0.78	0.67	0.46	0.32	
7	0.52	0.86	0.64	0.49	2.70	7.34	5.60	1.10	0.78	0.67	0.49	0.32	
8	0.49	0.70	0.61	0.64	3.90	6.35	4.00	1.02	0.82	0.70	0.49	0.30	
9	0.49	0.55	3.80	1.55	4.39	5.75	3.30	1.02	0.82	0.70	0.49	0.30	
10	0.49	0.86	0.98	1.86	3.50	4.78	2.93	1.02	0.78	0.64	0.49	0.30	
11	0.46	2.19	0.86	1.20	2.93	4.78	2.63	1.02	0.74	0.58	0.49	0.32	
12	0.46	0.78	0.82	0.90	2.63	4.13	2.48	1.02	0.74	0.58	0.43	0.32	
13	0.46	0.94	0.82	0.70	2.55	3.60	2.40	1.06	0.70	0.58	0.36	0.32	
14	0.46	1.45	0.67	0.64	2.70	3.50	2.33	1.40	0.70	0.58	0.36	0.34	
15	0.46	0.90	0.43	0.58	2.70	3.10	2.33	1.15	0.70	0.52	0.36	0.34	
16	0.46	0.70	0.43	0.55	2.93	3.00	2.06	0.98	0.70	0.52	0.36	0.34	
17	0.46	0.64	0.36	0.61	9.26	2.78	1.99	0.94	0.70	0.55	0.38	0.32	
18	0.49	1.35	0.36	1.10	8.06	2.63	2.12	0.94	0.70	0.55	0.40	0.32	
19	0.49	0.70	0.32	1.50	5.17	2.63	2.06	0.94	0.70	0.52	0.40	0.32	
20	0.46	0.70	0.46	1.06	4.13	3.10	1.86	0.94	0.70	0.52	0.40	0.32	
21	0.46	0.52	0.43	0.74	4.39	4.78	1.79	0.90	0.70	0.52	0.55	0.32	
22	0.46	0.52	0.43	0.67	4.91	4.13	1.79	0.86	0.70	0.46	0.64	0.32	
23	0.46	0.55	0.40	0.64	5.90	3.70	1.66	0.82	0.70	0.46	0.86	0.34	
24	0.46	0.70	0.36	0.55	4.39	3.50	1.60	0.82	0.74	0.46	0.58	0.34	
25	0.43	0.67	0.34	2.25	3.80	3.00	1.60	0.86	0.74	0.46	0.46	0.36	
26	0.40	0.64	0.34	1.93	3.60	2.78	1.50	0.94	0.74	0.46	0.43	0.34	
27	0.55	0.67	0.30	1.45	2.93	2.63	1.50	0.94	0.70	0.46	0.40	0.34	
28	0.52	0.64	0.30	1.15	2.55	2.40	1.50	0.90	0.67	0.46	0.40	0.36	
29	2.06	0.61	0.28	1.25	2.19	2.78	1.35	0.90	0.67	0.46	0.38	0.36	
30	0.70	0.58	0.26	2.12	1.99	2.55	1.20	0.86	0.70	0.46		0.38	
31		0.64		18.00	3.80		1.20		0.70	0.46		0.36	
Total	16.48	24.09	19.36	46.48	145.80	142.61	75.84	30.30	22.92	17.32	13.33	10.36	564.89 CMSDAY
Mean	0.55	0.78	0.65	1.50	4.70	4.75	2.45	1.01	0.74	0.56	0.46	0.33	1.54 CMS
Max	2.06	2.19	3.80	18.00	21.70	12.12	6.20	1.40	0.82	0.70	0.86	0.38	21.70 CMS
Min	0.40	0.52	0.26	0.28	1.99	2.40	1.20	0.82	0.67	0.46	0.36	0.30	0.26 CMS
Runoff	1.424	2.081	1.673	4.016	12.597	12.322	6.553	2.618	1.980	1.496	1.152	0.895	48.806 MCM

Momentary Peak 38.00 CMS, at 2.40 M (A.D), at 11.00 Hours, on Aug 1, 1995
Runoff Yield 8.48 Liters/Second/Square KM, Momentary Peak Yield 208.791 Liters/Second/Square KM

WATER YEAR 1995

WANG RIVER BASIN

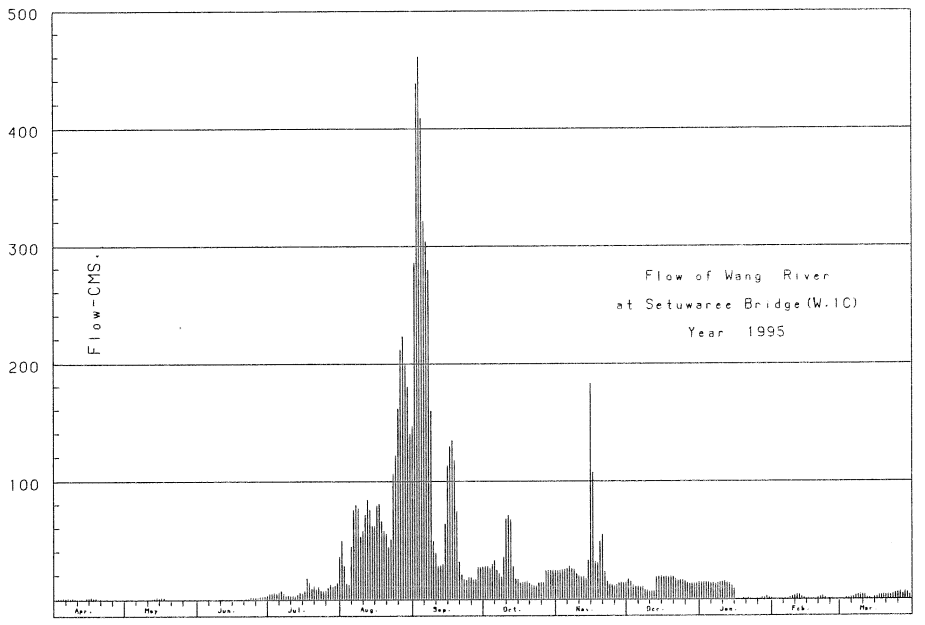
Wang River at Setu Wari Bridge, Lampang (W.1C)

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.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the rubber weir about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 54 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	229.23	229.19	229.18	229.41	230.48	232.97	230.05	229.98	229.81	229.75	229.19	229.18	
2	229.23	229.24	229.16	229.44	230.07	233.97	230.05	229.98	229.77	229.74	229.17	229.21	
3	229.24	229.20	229.14	229.45	229.71	234.10	230.03	230.00	229.67	229.75	229.18	229.25	
4	229.25	229.18	229.13	229.44	229.69	233.79	230.09	230.00	229.64	229.73	229.19	229.27	
5	229.25	229.18	229.14	229.46	230.38	233.22	230.16	230.02	229.63	229.72	229.17	229.28	
6	229.25	229.18	229.17	229.53	230.88	233.10	230.00	230.05	229.63	229.72	229.20	229.31	
7	229.25	229.18	229.17	229.43	230.95	232.93	229.92	230.02	229.63	229.71	229.24	229.35	
8	229.25	229.18	229.16	229.35	230.90	231.89	229.86	230.00	229.56	229.72	229.27	229.40	
9	229.24	229.17	229.15	229.35	230.54	230.46	230.21	229.92	229.52	229.75	229.33	229.40	
10	229.22	229.17	229.14	229.35	230.61	230.29	230.77	229.87	229.51	229.76	229.36	229.40	
11	229.22	229.15	229.13	229.34	230.82	230.06	230.82	229.86	229.49	229.76	229.39	229.38	
12	229.20	229.22	229.13	229.33	231.01	230.07	230.76	229.86	229.51	229.74	229.39	229.28	
13	229.21	229.25	229.13	229.40	230.89	230.09	230.06	229.82	229.85	229.71	229.30	229.24	
14	229.25	229.27	229.14	229.45	230.69	230.72	229.82	230.15	229.87	229.67	229.26	229.23	
15	229.28	229.24	229.14	229.44	230.68	231.36	229.80	232.13	229.87	229.57	229.24	229.28	
16	229.29	229.27	229.13	229.50	230.93	231.55	229.73	231.30	229.86	229.22	229.23	229.32	
17	229.27	229.28	229.14	229.84	230.96	231.61	229.73	230.13	229.86	229.21	229.23	229.35	
18	229.24	229.17	229.15	229.73	230.75	231.42	229.75	230.12	229.86	229.20	229.22	229.38	
19	229.22	229.17	229.17	229.59	230.61	230.86	229.76	230.46	229.87	229.23	229.22	229.38	
20	229.23	229.16	229.19	229.64	230.57	230.14	229.72	230.57	229.87	229.24	229.24	229.38	
21	229.20	229.16	229.20	229.57	230.38	229.91	229.67	229.96	229.82	229.24	229.32	229.38	
22	229.20	229.16	229.24	229.62	230.50	229.80	229.66	229.77	229.79	229.24	229.33	229.38	
23	229.20	229.15	229.28	229.53	231.28	229.80	229.64	229.69	229.79	229.20	229.28	229.41	
24	229.20	229.14	229.29	229.50	231.46	229.84	229.73	229.68	229.80	229.18	229.26	229.45	
25	229.19	229.13	229.28	229.53	231.91	229.85	229.74	229.66	229.78	229.21	229.24	229.47	
26	229.19	229.12	229.28	229.61	232.39	229.79	229.72	229.68	229.73	229.23	229.22	229.48	
27	229.19	229.12	229.32	229.68	232.49	229.81	229.98	229.73	229.72	229.27	229.21	229.42	
28	229.19	229.13	229.32	229.64	232.29	230.03	229.98	229.73	229.71	229.28	229.20	229.49	
29	229.19	229.15	229.33	229.65	232.10	230.03	229.99	229.73	229.72	229.32	229.18	229.47	
30	229.19	229.19	229.36	229.73	231.67	230.05	229.98	229.73	229.72	229.28		229.37	
31		229.19		230.22	231.74		229.98		229.74	229.23		229.32	
Mean	229.23	229.18	229.20	229.54	230.98	231.12	229.97	230.05	229.73	229.47	229.25	229.35	
Max	229.29	229.28	229.36	230.22	232.49	234.10	230.82	232.13	229.87	229.76	229.39	229.49	234.10
Min	229.19	229.12	229.13	229.33	229.69	229.79	229.64	229.66	229.49	229.18	229.17	229.18	229.12

Annual Max Momentary Gage Height 234.20 M (MSL), at 14.00 Hours, on Sep 2, 1995
Zero Gage at Bottom Elevation 229.30 M (MSL), River Bed 228.54 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	0.81	0.76	4.86	50.40	285.80	28.00	24.60	17.40	15.20	0.81	0.76	
2	1.30	1.45	0.67	5.64	29.00	438.90	28.00	24.60	15.92	14.84	0.71	1.00	
3	1.45	0.85	0.58	5.90	13.76	461.00	27.00	25.50	12.38	15.20	0.76	1.60	
4	1.60	0.76	0.54	5.64	13.06	409.45	30.00	25.50	11.36	14.48	0.81	1.90	
5	1.60	0.76	0.58	6.16	44.90	322.00	33.50	26.50	11.02	14.12	0.71	2.05	
6	1.60	0.76	0.71	8.04	76.10	304.00	25.50	28.00	11.02	14.12	0.85	2.57	
7	1.60	0.76	0.71	5.38	81.00	280.20	21.90	26.50	11.02	13.76	1.45	3.48	
8	1.60	0.76	0.67	3.48	77.50	160.60	19.40	25.50	8.88	14.12	1.90	4.60	
9	1.45	0.71	0.62	3.48	53.90	49.30	36.00	21.90	7.76	15.20	3.03	4.60	
10	1.15	0.71	0.58	3.48	58.10	40.00	68.40	19.80	7.48	15.56	3.70	4.60	
11	1.15	0.62	0.54	3.25	71.90	28.50	71.90	19.40	6.94	15.56	4.38	4.15	
12	0.85	1.15	0.54	3.03	85.30	29.00	67.70	19.40	7.48	14.84	4.38	2.05	
13	1.00	1.60	0.54	4.60	76.80	30.00	28.50	17.80	19.00	13.76	2.35	1.45	
14	1.60	1.90	0.58	5.90	62.90	64.90	17.80	33.00	19.80	12.38	1.75	1.30	
15	2.05	1.45	0.58	5.64	62.30	113.60	17.00	183.65	19.80	9.16	1.45	2.05	
16	2.20	1.90	0.54	7.20	79.60	130.00	14.48	108.50	19.40	1.15	1.30	2.80	
17	1.90	2.05	0.58	18.60	81.70	135.40	14.48	32.00	19.40	1.00	1.30	3.48	
18	1.45	0.71	0.62	14.48	67.00	118.70	15.20	31.50	19.40	0.85	1.15	4.15	
19	1.15	0.71	0.71	9.72	58.10	74.70	15.56	49.30	19.80	1.30	1.15	4.15	
20	1.30	0.67	0.81	11.36	55.70	32.50	14.12	55.70	19.80	1.45	1.45	4.15	
21	0.85	0.67	0.85	9.16	44.90	21.45	12.38	23.70	17.80	1.45	2.80	4.15	
22	0.85	0.67	1.45	10.68	51.50	17.00	12.04	15.92	16.64	1.45	3.03	4.15	
23	0.85	0.62	2.05	8.04	106.90	17.00	11.36	13.06	16.64	0.85	2.05	4.86	
24	0.85	0.58	2.20	7.20	122.10	18.60	14.48	12.72	17.00	0.76	1.75	5.90	
25	0.81	0.54	2.05	8.04	162.40	19.00	14.84	12.04	16.28	1.00	1.45	6.42	
26	0.81	0.49	2.05	10.34	211.90	16.64	14.12	12.72	14.48	1.30	1.15	6.68	
27	0.81	0.49	2.80	12.72	223.80	17.40	24.60	14.48	14.12	1.90	1.00	5.12	
28	0.81	0.54	2.80	11.36	200.90	27.00	24.60	14.48	13.76	2.05	0.85	6.94	
29	0.81	0.62	3.03	11.70	180.50	27.00	25.05	14.48	14.12	2.80	0.76	6.42	
30	0.81	0.81	3.70	14.48	140.80	28.00	24.60	14.48	14.12	2.05		3.92	
31		0.81		36.50	147.10		24.60		14.84	1.30		2.80	
Total	37.56	27.93	35.44	276.06	2791.82	3717.64	797.11	946.73	454.86	234.96	50.23	114.25	9484.59 CMSDAY
Mean	1.25	0.90	1.18	8.91	90.06	123.92	25.71	31.56	14.67	7.58	1.73	3.69	25.91 CMS
Max	2.20	2.05	3.70	36.50	223.80	461.00	71.90	183.65	19.80	15.56	4.38	6.94	461.00 CMS
Min	0.81	0.49	0.54	3.03	13.06	16.64	11.36	12.04	6.94	0.76	0.71	0.76	0.49 CMS
Runoff	3.245	2.413	3.062	23.852	241.213	321.204	68.870	81.797	39.300	20.301	4.340	9.871	819.469 MCM

Momentary Peak 478.00 CMS, at 234.20 M (MSL), at 14.00 Hours, on Sep 2, 1995

Runoff Yield 7.45 Liters/Second/Square KM, Momentary Peak Yield 137.435 Liters/Second/Square KM

WATER YEAR 1995

WANG RIVER BASIN

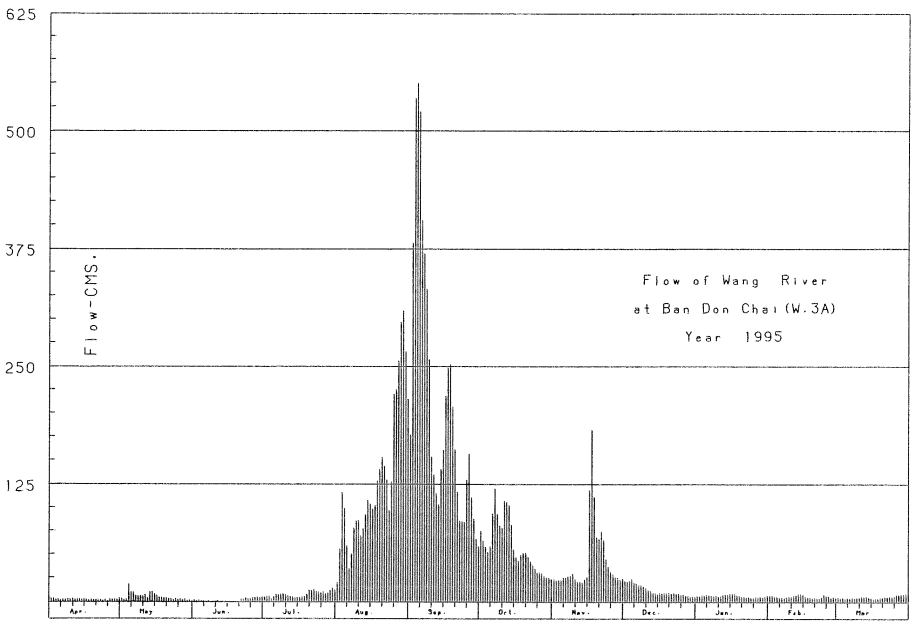
Wang River at Ban Don Chai, Lampang (W.3A)

Location	Lat. 17°-38'-29" N., Long. 99°-14'-04" E., on right bank about 30 meters upstream from Siriyong Bridge, Amphoe Thoen, Lampang.
Drainage Area	8,985 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+161.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 15 meters from automatic gage building.
Elevation	+167.074 m.(M.S.L.).
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1967 to date.
Rated by Float	-
Rated by Current Meter	1967 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.04	161.01	160.89	161.13	161.72	164.04	162.84	161.83	161.80	161.19	161.24	161.09	
2	161.02	160.94	160.88	161.16	162.53	165.37	162.68	161.81	161.76	161.21	161.23	161.08	
3	160.97	160.96	160.90	161.20	163.38	166.01	162.56	161.80	161.81	161.24	161.18	161.08	
4	160.95	161.68	160.84	160.99	163.18	166.07	162.47	161.82	161.84	161.23	161.14	161.06	
5	160.94	161.40	160.84	161.17	162.58	165.96	162.57	161.87	161.74	161.26	161.11	161.06	
6	160.95	161.36	160.84	161.27	162.12	165.48	163.10	161.89	161.70	161.27	161.10	161.06	
7	160.96	161.23	160.82	161.27	162.43	165.32	163.44	161.90	161.66	161.23	161.10	161.09	
8	160.98	161.16	160.82	161.27	162.88	165.13	163.10	161.94	161.64	161.22	161.12	161.08	
9	160.99	161.21	160.82	161.32	163.00	164.67	162.92	161.98	161.61	161.22	161.18	161.08	
10	160.99	161.16	160.83	161.28	163.00	163.81	162.89	161.83	161.54	161.19	161.20	161.11	
11	160.98	161.25	160.81	161.21	162.76	163.60	163.27	161.77	161.48	161.19	161.22	161.17	
12	160.98	161.08	160.79	161.17	162.88	163.38	163.26	161.75	161.44	161.28	161.26	161.16	
13	160.96	161.41	160.77	161.14	163.09	163.22	163.21	161.74	161.39	161.28	161.30	161.17	
14	160.95	161.39	160.76	161.09	163.28	163.67	162.94	161.82	161.34	161.29	161.33	161.12	
15	160.95	161.32	160.74	161.07	163.23	163.88	162.52	161.90	161.31	161.30	161.25	161.06	
16	160.93	161.22	160.75	161.08	163.17	164.39	162.35	163.41	161.35	161.34	161.18	161.02	
17	160.92	161.13	160.74	161.16	163.21	164.61	162.29	164.08	161.35	161.31	161.15	161.02	
18	160.94	161.11	160.73	161.14	163.54	164.63	162.40	163.33	161.35	161.26	161.11	161.04	
19	160.96	161.09	160.71	161.29	163.67	164.30	162.45	162.73	161.35	161.21	161.09	161.08	
20	160.94	161.06	160.72	161.45	163.80	163.88	162.45	162.71	161.35	161.18	161.09	161.12	
21	160.93	161.04	160.97	161.46	163.71	163.39	162.37	162.84	161.34	161.15	161.08	161.13	
22	160.91	161.00	160.99	161.47	163.55	163.00	162.26	162.68	161.34	161.14	161.06	161.15	
23	160.89	160.97	161.04	161.43	163.15	162.98	162.19	162.32	161.33	161.13	161.14	161.16	
24	160.92	160.99	161.04	161.38	163.52	162.98	162.11	162.15	161.31	161.11	161.26	161.18	
25	160.86	160.98	161.06	161.37	164.41	163.55	162.02	162.04	161.28	161.11	161.24	161.22	
26	160.97	160.97	161.08	161.40	164.44	163.85	162.02	161.96	161.26	161.13	161.20	161.26	
27	160.98	160.94	161.11	161.32	164.66	163.32	162.01	161.90	161.24	161.13	161.12	161.27	
28	160.94	160.96	161.11	161.33	164.92	163.02	161.91	161.87	161.20	161.14	161.12	161.28	
29	160.96	160.89	161.12	161.46	165.00	162.71	161.89	161.83	161.18	161.14	161.12	161.30	
30	161.04	160.87	161.12	161.52	164.72	162.57	161.87	161.85	161.16	161.17		161.31	
31		160.85		161.47	164.36		161.85		161.17	161.22		161.28	
Mean	160.96	161.12	160.89	161.27	163.42	164.09	162.52	162.18	161.44	161.21	161.17	161.14	
Max	161.04	161.68	161.12	161.52	165.00	166.07	163.44	164.08	161.84	161.34	161.33	161.31	166.07
Min	160.86	160.85	160.71	160.99	161.72	162.57	161.85	161.74	161.16	161.11	161.06	161.02	160.71

Annual Max Momentary Gage Height 166.12 M (MSL), at 24.00 Hours, on Sep 4, 1995
Zero Gage at Bottom Elevation 161.00 M (MSL), River Bed 159.82 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.15	3.70	2.20	5.55	20.60	178.40	75.80	24.20	23.00	6.54	7.56	4.90	
2	3.85	2.80	2.10	6.04	56.80	381.70	65.80	23.40	21.80	6.92	7.34	4.75	
3	3.18	3.05	2.30	6.70	116.40	534.80	58.60	23.00	23.40	7.56	6.37	4.75	
4	2.93	19.40	1.70	3.43	100.40	551.60	53.50	23.80	24.60	7.34	5.71	4.45	
5	2.80	11.00	1.70	6.20	59.80	521.60	59.20	25.80	21.20	7.99	5.21	4.45	
6	2.93	10.14	1.70	8.21	36.00	405.60	94.00	26.60	20.00	8.21	5.05	4.45	
7	3.05	7.34	1.50	8.21	51.50	371.20	121.20	27.00	18.80	7.34	5.05	4.90	
8	3.30	6.04	1.50	8.21	78.60	333.40	94.00	28.60	18.20	7.13	5.38	4.75	
9	3.43	6.92	1.50	9.28	87.00	258.50	81.40	30.20	17.30	7.13	6.37	4.75	
10	3.43	6.04	1.60	8.42	87.00	155.00	79.30	24.20	15.20	6.54	6.70	5.21	
11	3.30	7.78	1.40	6.92	70.60	135.00	107.60	22.10	13.40	6.54	7.13	6.20	
12	3.30	4.75	1.22	6.20	78.60	116.40	106.80	21.50	12.20	8.42	7.99	6.04	
13	3.05	11.30	1.06	5.71	93.30	103.60	102.80	21.20	10.79	8.42	8.85	6.20	
14	2.93	10.79	0.98	4.90	108.40	141.30	82.80	23.80	9.71	8.63	9.50	5.38	
15	2.93	9.28	0.82	4.60	104.40	162.00	56.20	27.00	9.07	8.85	7.78	4.45	
16	2.67	7.13	0.90	4.75	99.60	218.80	47.50	118.80	9.93	9.71	6.37	3.85	
17	2.55	5.55	0.82	6.04	102.80	249.50	44.50	182.80	9.93	9.07	5.87	3.85	
18	2.80	5.21	0.74	5.71	129.60	252.50	50.00	112.40	9.93	7.99	5.21	4.15	
19	3.05	4.90	0.58	8.63	141.30	208.00	52.50	68.80	9.93	6.92	4.90	4.75	
20	2.80	4.45	0.66	12.50	154.00	162.00	52.50	67.60	9.93	6.37	4.90	5.38	
21	2.67	4.15	3.18	12.80	145.00	117.20	48.50	75.80	9.71	5.87	4.75	5.55	
22	2.43	3.55	3.43	13.10	130.50	87.00	43.00	65.80	9.71	5.71	4.45	5.87	
23	2.20	3.18	4.15	11.90	98.00	85.60	39.50	46.00	9.50	5.55	5.71	6.04	
24	2.55	3.43	4.15	10.57	127.80	85.60	35.50	37.50	9.07	5.21	7.99	6.37	
25	1.90	3.30	4.45	10.36	221.40	130.50	31.80	32.60	8.42	5.21	7.56	7.13	
26	3.18	3.18	4.75	11.00	225.60	159.00	31.80	29.40	7.99	5.55	6.70	7.99	
27	3.30	2.80	5.21	9.28	257.00	111.60	31.40	27.00	7.56	5.55	5.38	8.21	
28	2.80	3.05	5.21	9.50	297.20	88.40	27.40	25.80	6.70	5.71	5.38	8.42	
29	3.05	2.20	5.38	12.80	310.00	67.60	26.60	24.20	6.37	5.71	5.38	8.85	
30	4.15	2.00	5.38	14.60	266.00	59.20	25.80	25.00	6.04	6.20		9.07	
31		1.80		13.10	215.20		25.00		6.20	7.13		8.42	
Total	90.66	180.21	72.27	265.22	4070.40	6432.60	1852.30	1311.90	395.59	217.02	182.54	179.53	15250.24 CMSDAY
Mean	3.02	5.81	2.41	8.56	131.30	214.42	59.75	43.73	12.76	7.00	6.29	5.79	41.67 CMS
Max	4.15	19.40	5.38	14.60	310.00	551.60	121.20	182.80	24.60	9.71	9.50	9.07	551.60 CMS
Min	1.90	1.80	0.58	3.43	20.60	59.20	25.00	21.20	6.04	5.21	4.45	3.85	0.58 CMS
Runoff	7.833	15.570	6.244	22.915	351.683	555.777	160.039	113.348	34.179	18.751	15.771	15.511	1317.621 MCM

Momentary Peak 566.00 CMS, at 166.12 M (MSL), at 24.00 Hours, on Sep 4, 1995

Runoff Yield 4.64 Liters/Second/Square KM, Momentary Peak Yield 62.994 Liters/Second/Square KM

WATER YEAR 1995

WANG RIVER BASIN

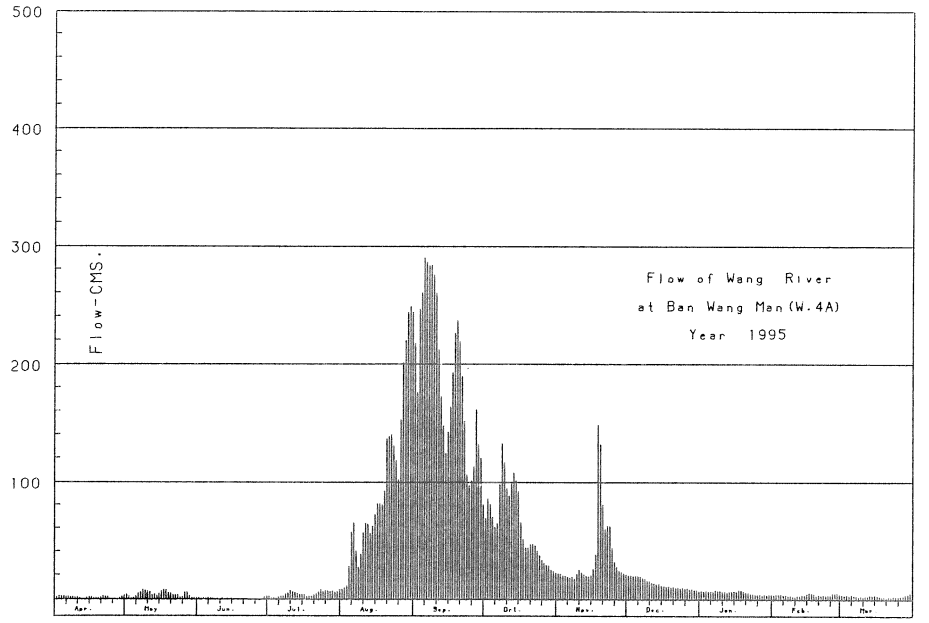
Wang River at Ban Wang Man, Tak (W.4A)

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 29 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.76	130.99	130.66	130.78	131.27	135.40	133.18	131.86	131.79	131.16	130.94	130.91	
2	130.81	130.80	130.66	130.68	131.31	134.96	133.55	131.83	131.78	131.15	130.96	130.90	
3	130.84	130.66	130.65	130.65	131.43	135.68	133.46	131.79	131.77	131.15	130.99	130.90	
4	130.81	130.62	130.65	130.66	132.07	135.80	133.20	131.76	131.76	131.15	130.97	130.88	
5	130.79	130.82	130.66	130.74	132.90	136.03	133.00	131.75	131.77	131.13	130.93	130.93	
6	130.76	131.02	130.64	130.77	133.08	136.00	133.07	131.70	131.74	131.13	130.90	130.89	
7	130.76	131.12	130.60	130.85	132.47	135.98	133.81	131.74	131.70	131.19	130.88	130.82	
8	130.73	131.22	130.57	130.97	132.06	135.98	134.39	131.68	131.66	131.19	130.86	130.79	
9	130.72	131.19	130.56	131.05	132.38	135.92	134.13	131.85	131.61	131.16	130.84	130.77	
10	130.72	131.16	130.58	131.17	132.87	135.80	133.73	131.97	131.58	131.14	130.81	130.79	
11	130.67	131.11	130.62	131.10	133.07	135.35	133.61	131.90	131.55	131.12	130.84	130.80	
12	130.60	130.94	130.61	131.09	133.06	134.91	133.84	131.81	131.51	131.10	130.87	130.84	
13	130.60	130.94	130.59	131.02	132.87	134.60	133.99	131.78	131.50	131.11	130.90	130.87	
14	130.67	130.87	130.54	130.98	133.01	134.26	133.86	131.74	131.49	131.14	130.93	130.89	
15	130.78	131.00	130.51	130.95	133.26	134.53	133.68	131.80	131.45	131.15	130.99	130.89	
16	130.73	131.14	130.49	130.90	133.47	134.81	133.10	132.00	131.42	131.15	131.06	130.88	
17	130.68	131.23	130.48	130.81	133.46	135.14	132.73	132.39	131.42	131.21	131.06	130.81	
18	130.64	131.20	130.48	130.79	133.45	135.49	132.56	134.61	131.41	131.22	131.00	130.74	
19	130.68	131.08	130.49	130.85	133.69	135.59	132.54	134.38	131.39	131.14	130.89	130.74	
20	130.72	131.00	130.54	130.89	134.44	135.42	132.64	133.44	131.38	131.10	130.90	130.74	
21	130.80	130.95	130.52	131.00	134.48	135.11	132.63	132.96	131.36	131.06	130.90	130.73	
22	130.80	130.93	130.48	131.11	134.49	134.65	132.61	133.02	131.35	131.03	130.90	130.75	
23	130.73	130.90	130.48	131.23	134.36	133.96	132.47	133.02	131.34	131.00	130.90	130.78	
24	130.52	130.73	130.43	131.14	134.16	133.78	132.37	132.54	131.33	130.97	130.88	130.78	
25	130.48	130.72	130.38	131.16	133.88	133.87	132.26	132.21	131.32	130.96	130.91	130.78	
26	130.49	131.06	130.36	131.17	134.67	134.07	132.17	132.06	131.30	130.94	131.02	130.79	
27	130.56	131.10	130.36	131.15	135.23	134.78	132.12	131.95	131.28	130.92	131.05	130.85	
28	130.65	130.83	130.58	131.14	135.43	134.37	132.09	131.89	131.26	130.93	131.03	130.91	
29	130.77	130.65	130.73	131.11	135.65	134.19	131.98	131.86	131.24	130.92	130.99	130.98	
30	130.88	130.63	130.84	131.11	135.70	133.45	131.92	131.81	131.20	130.93		131.03	
31		130.69		131.23	135.65		131.87		131.16	130.92		131.02	
Mean	130.71	130.95	130.56	130.98	133.53	135.00	132.99	132.24	131.48	131.08	130.93	130.84	
Max	130.88	131.23	130.84	131.23	135.70	136.03	134.39	134.61	131.79	131.22	131.06	131.03	136.03
Min	130.48	130.62	130.36	130.65	131.27	133.45	131.87	131.68	131.16	130.92	130.81	130.73	130.36

Annual Max Momentary Gage Height 136.04 M (MSL), at 18.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation 130.00 M (MSL), River Bed 130.26 M (MSL)
Left Bank Elevation 136.13 M (MSL)
Right Bank Elevation 136.37 M (MSL), Drainage Area 10507 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.48	4.89	1.68	2.64	9.05	218.00	69.20	22.50	20.75	7.40	4.34	4.01	
2	2.91	2.80	1.68	1.84	9.65	176.80	85.75	21.75	20.50	7.25	4.56	3.90	
3	3.24	1.68	1.60	1.60	11.75	247.80	81.70	20.75	20.25	7.25	4.89	3.90	
4	2.91	1.36	1.60	1.68	28.10	261.00	70.00	20.00	20.00	7.25	4.67	3.68	
5	2.72	3.02	1.68	2.32	58.00	291.05	62.00	19.75	20.25	6.95	4.23	4.23	
6	2.48	5.30	1.52	2.56	65.20	287.00	64.80	18.50	19.50	6.95	3.90	3.79	
7	2.48	6.80	1.20	3.35	41.45	284.40	98.55	19.50	18.50	7.85	3.68	3.02	
8	2.24	8.30	1.07	4.67	27.80	284.40	133.35	18.00	17.50	7.85	3.46	2.72	
9	2.16	7.85	1.02	5.75	38.30	276.60	116.80	22.25	16.25	7.40	3.24	2.56	
10	2.16	7.40	1.11	7.55	56.80	261.00	94.50	25.25	15.50	7.10	2.91	2.72	
11	1.76	6.65	1.36	6.50	64.80	213.25	88.50	23.50	14.75	6.80	3.24	2.80	
12	1.20	4.34	1.28	6.35	64.40	172.80	100.20	21.25	13.75	6.50	3.57	3.24	
13	1.20	4.34	1.15	5.30	56.80	148.00	108.45	20.50	13.50	6.65	3.90	3.57	
14	1.76	3.57	0.93	4.78	62.40	124.90	101.30	19.50	13.25	7.10	4.23	3.79	
15	2.64	5.00	0.79	4.45	72.70	143.10	92.00	21.00	12.25	7.25	4.89	3.79	
16	2.24	7.10	0.71	3.90	82.15	164.80	66.00	26.00	11.50	7.25	5.90	3.68	
17	1.84	8.45	0.66	2.91	81.70	193.30	51.20	38.65	11.50	8.15	5.90	2.91	
18	1.52	8.00	0.66	2.72	81.25	227.45	44.60	148.80	11.25	8.30	5.00	2.32	
19	1.84	6.20	0.71	3.35	92.50	237.95	43.90	132.70	10.85	7.10	3.79	2.32	
20	2.16	5.00	0.93	3.79	136.80	220.10	47.60	80.80	10.70	6.50	3.90	2.32	
21	2.80	4.45	0.84	5.00	139.60	190.45	47.20	60.40	10.40	5.90	3.90	2.24	
22	2.80	4.23	0.66	6.65	140.30	152.00	46.40	62.80	10.25	5.45	3.90	2.40	
23	2.24	3.90	0.66	8.45	131.40	106.80	41.45	62.80	10.10	5.00	3.90	2.64	
24	0.84	2.24	0.43	7.10	118.60	97.00	37.95	43.90	9.95	4.67	3.68	2.64	
25	0.66	2.16	0.24	7.40	102.40	101.85	34.10	32.35	9.80	4.56	4.01	2.64	
26	0.71	5.90	0.18	7.55	153.60	113.20	31.10	27.80	9.50	4.34	5.30	2.72	
27	1.02	6.50	0.18	7.25	201.85	162.40	29.60	24.75	9.20	4.12	5.75	3.35	
28	1.60	3.13	1.11	7.10	221.15	132.05	28.70	23.25	8.90	4.23	5.45	4.01	
29	2.56	1.60	2.24	6.65	244.50	120.40	25.50	22.50	8.60	4.12	4.89	4.78	
30	3.68	1.44	3.24	6.65	250.00	81.25	24.00	21.25	8.00	4.23		5.45	
31		1.92		8.45	244.50		22.75		7.40	4.12		5.30	
Total	62.85	145.52	33.12	156.26	3089.50	5691.10	1989.15	1122.75	414.40	195.59	124.98	103.44	13128.66 CMSDAY
Mean	2.10	4.69	1.10	5.04	99.66	189.70	64.17	37.42	13.37	6.31	4.31	3.34	35.87 CMS
Max	3.68	8.45	3.24	8.45	250.00	291.05	133.35	148.80	20.75	8.30	5.90	5.45	291.05 CMS
Min	0.66	1.36	0.18	1.60	9.05	81.25	22.75	18.00	7.40	4.12	2.91	2.24	0.18 CMS
Runoff	5.430	12.573	2.862	13.501	266.933	491.711	171.863	97.006	35.804	16.899	10.798	8.937	1134.316 MCM

Momentary Peak 292.40 CMS, at 136.04 M (MSL), at 18.00 Hours, on Sep 5, 1995

Runoff Yield 3.41 Liters/Second/Square KM, Momentary Peak Yield 27.83 Liters/Second/Square KM

WATER YEAR 1995

WANG RIVER BASIN

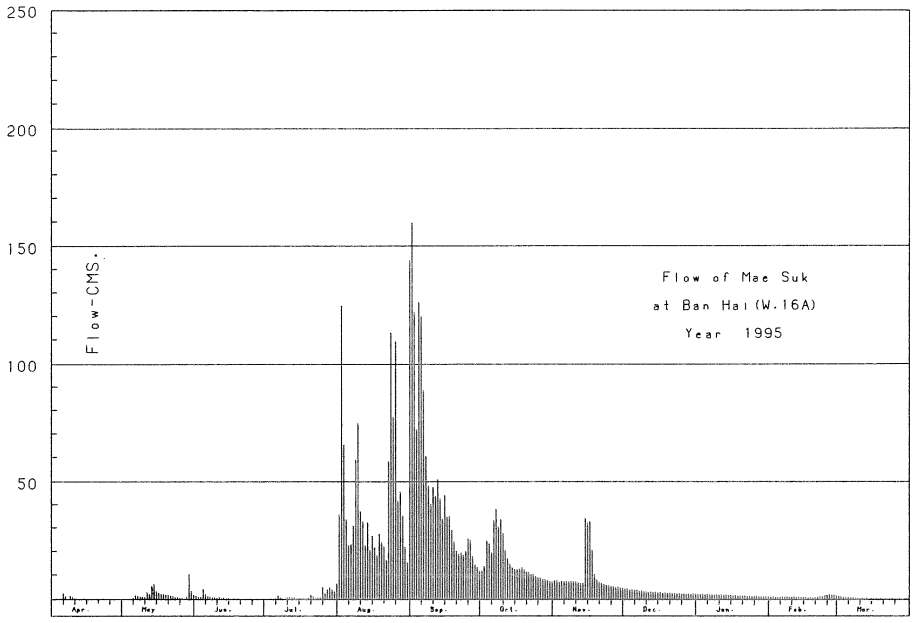
Wang River at Ban Hai, Lampang (W.16A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 1995.
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 (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	0.96	1.15	0.98	2.60	4.65	1.81	1.63	1.61	1.41	1.29	1.32	
2	1.00	0.95	1.12	0.98	4.20	4.16	1.88	1.63	1.60	1.41	1.29	1.29	
3	1.00	0.96	1.10	0.98	3.27	3.39	2.28	1.60	1.58	1.41	1.28	1.28	
4	1.00	0.95	1.41	1.02	2.54	4.22	2.23	1.61	1.57	1.40	1.27	1.27	
5	1.27	1.03	1.22	1.00	2.21	4.14	2.10	1.61	1.57	1.40	1.28	1.26	
6	1.13	1.19	1.16	1.19	2.22	3.67	2.53	1.61	1.56	1.40	1.28	1.25	
7	1.00	1.14	1.11	1.07	2.47	3.18	2.66	1.61	1.54	1.39	1.28	1.24	
8	1.17	1.12	1.10	1.04	3.15	2.91	2.45	1.61	1.53	1.39	1.27	1.23	
9	1.11	1.09	1.10	1.07	3.44	2.71	2.55	1.61	1.52	1.39	1.29	1.21	
10	1.05	1.10	1.08	1.11	2.64	2.89	2.38	1.60	1.50	1.38	1.28	1.21	
11	1.03	1.29	1.10	1.08	2.52	2.80	2.13	1.59	1.49	1.38	1.28	1.20	
12	1.02	1.24	1.06	1.09	2.21	2.97	2.01	1.56	1.49	1.38	1.27	1.20	
13	1.01	1.49	1.05	1.06	2.51	2.77	1.92	1.58	1.49	1.37	1.27	1.20	
14	1.01	1.53	1.05	1.05	2.13	2.55	1.87	2.55	1.48	1.37	1.27	1.19	
15	1.00	1.35	1.02	1.03	2.34	2.81	1.83	2.50	1.48	1.36	1.24	1.19	
16	1.00	1.28	1.02	1.05	2.18	2.57	1.84	2.52	1.47	1.35	1.25	1.18	
17	1.00	1.25	1.01	1.04	2.05	2.59	1.84	2.14	1.46	1.35	1.24	1.18	
18	1.00	1.23	1.00	1.04	2.37	2.42	1.88	1.94	1.46	1.34	1.25	1.18	
19	1.02	1.22	0.99	1.04	2.25	2.26	1.83	1.84	1.46	1.32	1.24	1.17	
20	1.00	1.20	1.00	1.21	2.19	2.13	1.80	1.78	1.45	1.34	1.24	1.17	
21	0.98	1.18	0.99	1.13	1.99	2.07	1.78	1.76	1.45	1.33	1.27	1.17	
22	0.99	1.13	0.99	1.07	3.13	2.10	1.76	1.72	1.44	1.32	1.30	1.17	
23	0.98	1.11	1.00	1.08	4.04	2.06	1.75	1.71	1.43	1.32	1.32	1.17	
24	0.98	1.08	1.00	1.07	3.49	2.12	1.72	1.69	1.43	1.32	1.35	1.17	
25	0.97	1.07	0.98	1.47	3.99	2.31	1.70	1.68	1.43	1.32	1.38	1.16	
26	0.97	1.05	0.97	1.27	2.74	2.28	1.68	1.67	1.42	1.32	1.38	1.16	
27	0.96	1.04	0.96	1.38	2.84	2.04	1.66	1.65	1.42	1.31	1.39	1.16	
28	0.96	1.12	0.96	1.46	2.59	1.92	1.65	1.65	1.42	1.29	1.36	1.17	
29	0.96	1.76	0.97	1.38	2.18	1.87	1.64	1.64	1.42	1.30	1.34	1.17	
30	0.96	1.34	0.98	1.34	1.95	1.81	1.60	1.62	1.42	1.30		1.17	
31		1.21		1.55	4.45		1.60		1.42	1.28		1.16	
Mean	1.02	1.18	1.05	1.14	2.74	2.75	1.95	1.76	1.48	1.35	1.29	1.20	
Max	1.27	1.76	1.41	1.55	4.45	4.65	2.66	2.55	1.61	1.41	1.39	1.32	4.65
Min	0.96	0.95	0.96	0.98	1.95	1.81	1.60	1.56	1.42	1.28	1.24	1.16	0.95

Annual Max Momentary Gage Height 5.55 M (MSL), at 15.00 Hours, on Aug 25, 1995
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed -0.65 M (MSL)
Left Bank Elevation 6.03 M (MSL)
Right Bank Elevation 6.44 M (MSL), Drainage Area 1379 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.25	1.45	0.30	36.00	160.25	12.15	8.10	4.65	2.31	1.23	1.48	
2	0.35	0.23	1.18	0.30	125.00	122.00	13.90	8.10	4.50	2.31	1.23	1.23	
3	0.35	0.25	1.00	0.30	65.64	71.97	25.04	7.50	4.26	2.31	1.16	1.16	
4	0.35	0.23	4.45	0.48	33.90	126.50	23.64	7.70	4.14	2.20	1.09	1.09	
5	2.67	0.54	2.12	0.35	23.08	120.50	20.00	7.70	4.14	2.20	1.16	1.02	
6	1.27	1.81	1.54	1.81	23.36	88.74	33.55	7.70	4.02	2.20	1.16	0.95	
7	0.35	1.36	1.09	0.81	31.45	61.00	38.40	7.70	3.78	2.11	1.16	0.88	
8	1.63	1.18	1.00	0.61	59.50	48.45	30.75	7.70	3.66	2.11	1.09	0.81	
9	1.09	0.94	1.00	0.81	74.78	40.40	34.25	7.70	3.54	2.11	1.23	0.67	
10	0.67	1.00	0.87	1.09	37.60	47.60	28.32	7.50	3.30	2.02	1.16	0.67	
11	0.54	2.89	1.00	0.87	33.20	44.00	20.84	7.33	3.19	2.02	1.16	0.60	
12	0.48	2.34	0.74	0.94	23.08	51.15	17.48	6.82	3.19	2.02	1.09	0.60	
13	0.41	5.65	0.67	0.74	32.85	42.80	14.96	7.16	3.19	1.93	1.09	0.60	
14	0.41	6.31	0.67	0.67	20.84	34.25	13.65	34.25	3.08	1.93	1.09	0.55	
15	0.35	3.65	0.48	0.54	26.96	44.40	12.65	32.50	3.08	1.84	0.88	0.55	
16	0.35	2.78	0.48	0.67	22.24	34.95	12.90	33.20	2.97	1.75	0.95	0.50	
17	0.35	2.45	0.41	0.61	18.60	35.65	12.90	21.12	2.86	1.75	0.88	0.50	
18	0.35	2.23	0.35	0.61	27.98	29.70	13.90	10.64	2.86	1.66	0.95	0.50	
19	0.48	2.12	0.33	0.61	24.20	24.48	12.65	8.60	2.86	1.48	0.88	0.45	
20	0.35	1.90	0.35	2.01	22.52	20.84	11.90	7.44	2.75	1.66	0.88	0.45	
21	0.30	1.72	0.33	1.27	16.92	19.16	11.42	7.08	2.75	1.57	1.09	0.45	
22	0.33	1.27	0.33	0.81	58.50	20.00	10.94	6.36	2.64	1.48	1.30	0.45	
23	0.30	1.09	0.35	0.87	113.30	18.88	10.70	6.18	2.53	1.48	1.48	0.45	
24	0.30	0.87	0.35	0.81	77.63	20.56	9.98	5.85	2.53	1.48	1.75	0.45	
25	0.28	0.81	0.30	5.35	109.80	25.94	9.50	5.70	2.53	1.48	2.02	0.40	
26	0.28	0.67	0.28	2.67	41.60	25.04	9.10	5.55	2.42	1.48	2.02	0.40	
27	0.25	0.61	0.25	4.04	45.60	18.32	8.70	5.25	2.42	1.39	2.11	0.40	
28	0.25	1.18	0.25	5.20	35.65	14.96	8.50	5.25	2.42	1.23	1.84	0.45	
29	0.25	10.94	0.28	4.04	22.24	13.65	8.30	5.10	2.42	1.30	1.66	0.45	
30	0.25	3.52	0.30	3.52	15.80	12.15	7.50	4.80	2.42	1.30		0.45	
31		2.01		6.65	144.00		7.50		2.42	1.16		0.40	
Total	15.94	64.80	24.20	50.36	1443.82	1438.29	505.97	303.58	97.52	55.27	36.79	20.01	4056.55 CMSDAY
Mean	0.53	2.09	0.81	1.62	46.57	47.94	16.32	10.12	3.15	1.78	1.27	0.65	11.08 CMS
Max	2.67	10.94	4.45	6.65	144.00	160.25	38.40	34.25	4.65	2.31	2.11	1.48	160.25 CMS
Min	0.25	0.23	0.25	0.30	15.80	12.15	7.50	4.80	2.42	1.16	0.88	0.40	0.23 CMS
Runoff	1.377	5.599	2.091	4.351	124.746	124.268	43.716	26.229	8.426	4.775	3.179	1.729	350.486 MCM

Momentary Peak 239.75 CMS, at 5.55 M (MSL), at 15.00 Hours, on Aug 25, 1995

Runoff Yield 8.04 Liters/Second/Square KM, Momentary Peak Yield 173.858 Liters/Second/Square KM

WATER YEAR 1995

WANG RIVER BASIN

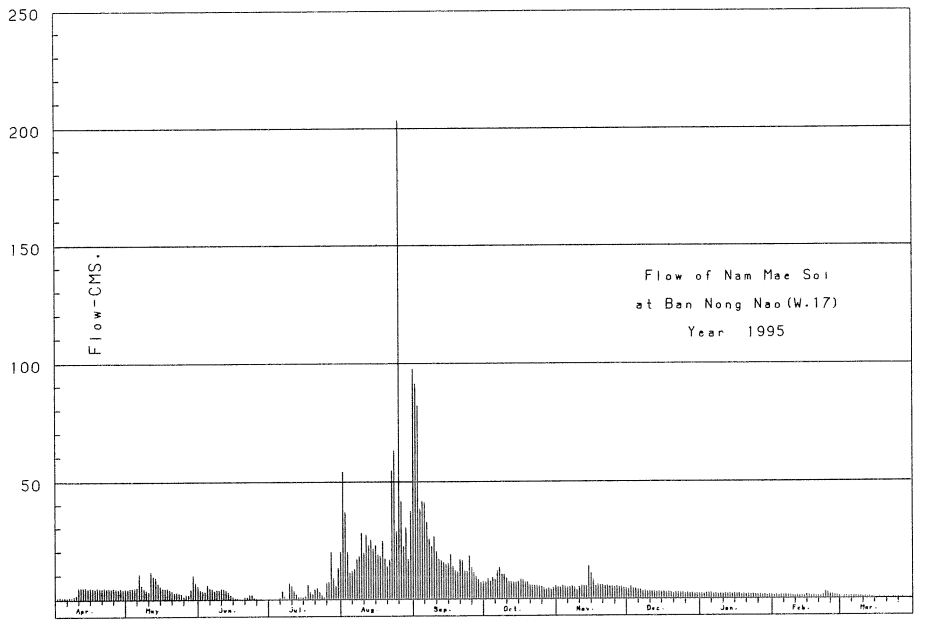
Nam Mae Soi at Ban Nong Nao, Lampang (W.17)

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 with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.88	292.11	292.09	291.80	293.51	294.05	292.05	291.95	291.91	291.79	291.73	291.68	
2	291.88	292.11	292.05	291.80	293.06	293.95	292.11	291.93	291.95	291.79	291.73	291.68	
3	291.87	292.13	292.04	291.78	292.54	293.10	292.07	291.98	291.92	291.80	291.73	291.68	
4	291.87	292.13	292.21	291.81	292.23	293.19	292.13	291.95	291.90	291.82	291.73	291.67	
5	291.87	292.16	292.14	291.83	292.25	293.17	292.11	291.94	291.90	291.81	291.73	291.67	
6	291.88	292.47	292.11	292.06	292.29	292.95	292.25	291.94	291.88	291.79	291.73	291.70	
7	291.88	292.20	292.07	291.91	292.44	292.73	292.30	291.97	291.86	291.78	291.73	291.69	
8	291.90	292.13	292.08	291.84	292.48	292.63	292.20	291.93	291.86	291.78	291.72	291.68	
9	291.95	292.07	292.09	292.25	292.82	292.77	292.19	291.89	291.85	291.77	291.72	291.67	
10	292.14	292.05	292.13	292.20	292.53	292.55	292.13	291.94	291.85	291.79	291.71	291.66	
11	292.15	292.51	292.10	292.05	292.79	292.44	292.06	291.98	291.85	291.79	291.71	291.65	
12	292.15	292.42	292.09	291.96	292.65	292.41	292.04	291.96	291.84	291.79	291.71	291.65	
13	292.14	292.38	292.02	291.90	292.72	292.38	292.04	291.97	291.84	291.79	291.71	291.64	
14	292.13	292.26	291.95	291.88	292.59	292.36	292.03	292.32	291.84	291.78	291.71	291.63	
15	292.13	292.17	291.89	291.86	292.65	292.37	292.05	292.22	291.84	291.79	291.73	291.63	
16	292.12	292.12	291.85	291.91	292.51	292.51	292.11	292.09	291.83	291.79	291.72	291.62	
17	292.12	292.13	291.83	292.23	292.48	292.32	292.09	291.97	291.83	291.78	291.71	291.62	
18	292.13	292.12	291.80	292.03	292.70	292.26	292.05	291.99	291.83	291.77	291.71	291.61	
19	292.13	292.10	291.81	291.98	292.45	292.23	292.04	291.99	291.83	291.77	291.70	291.60	
20	292.13	292.05	291.88	292.11	292.33	292.43	291.99	291.98	291.80	291.76	291.68	291.60	
21	292.13	292.02	291.89	292.13	292.42	292.41	291.97	291.97	291.83	291.76	291.70	291.61	
22	292.12	292.02	291.95	292.04	293.52	292.26	291.98	291.97	291.82	291.76	291.72	291.61	
23	292.12	292.01	291.96	291.94	293.67	292.24	291.97	291.96	291.82	291.75	291.84	291.61	
24	292.12	291.98	291.86	291.90	292.84	292.49	291.97	291.95	291.82	291.76	291.81	291.61	
25	292.12	291.92	291.82	292.27	294.92	292.31	291.96	291.95	291.81	291.76	291.77	291.61	
26	292.11	291.96	291.80	292.28	293.19	292.22	291.92	291.95	291.81	291.75	291.75	291.60	
27	292.11	291.96	291.78	292.94	292.63	292.16	291.90	291.95	291.81	291.74	291.73	291.58	
28	292.11	292.11	291.78	292.37	292.88	292.09	291.91	291.94	291.80	291.74	291.71	291.60	
29	292.10	292.44	291.78	292.19	292.43	292.04	291.90	291.93	291.80	291.73	291.70	291.62	
30	292.10	292.26	291.79	292.30	293.08	292.05	291.93	291.91	291.79	291.73		291.62	
31		292.18		292.54	294.12		291.96		291.79	291.73		291.60	
Mean	292.05	292.15	291.95	292.07	292.83	292.57	292.05	291.98	291.84	291.77	291.73	291.64	
Max	292.15	292.51	292.21	292.94	294.92	294.05	292.30	292.32	291.95	291.82	291.84	291.70	294.92
Min	291.87	291.92	291.78	291.78	292.23	292.04	291.90	291.89	291.79	291.73	291.68	291.58	291.58

Annual Max Momentary Gage Height 295.45 M (MSL), at 9.00 Hours, on Aug 25, 1995
Zero Gage at Bottom Elevation 292.00 M (MSL), River Bed 291.10 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.03	4.53	4.21	0.47	54.50	91.50	7.45	5.35	4.51	2.28	1.56	1.06	
2	1.03	4.53	3.57	0.47	37.02	82.50	8.73	4.93	5.35	2.28	1.56	1.06	
3	0.96	4.86	3.41	0.42	20.12	38.50	7.87	5.98	4.72	2.40	1.56	1.06	
4	0.96	4.86	6.18	0.54	11.58	41.83	9.19	5.35	4.30	2.78	1.56	0.99	
5	0.96	5.35	5.02	0.68	12.10	41.09	8.73	5.14	4.30	2.59	1.56	0.99	
6	1.03	11.03	4.53	3.73	13.14	32.95	12.10	5.14	3.92	2.28	1.56	1.20	
7	1.03	6.00	3.89	1.33	17.32	25.70	13.40	5.77	3.54	2.16	1.56	1.13	
8	1.17	4.86	4.05	0.75	18.44	22.70	10.80	4.93	3.54	2.16	1.44	1.06	
9	1.97	3.89	4.21	6.90	28.46	26.90	10.57	4.11	3.35	2.04	1.44	0.99	
10	5.02	3.57	4.86	6.00	19.84	20.40	9.19	5.14	3.35	2.28	1.32	0.92	
11	5.18	11.79	4.37	3.57	27.50	17.32	7.66	5.98	3.35	2.28	1.32	0.85	
12	5.18	10.08	4.21	2.13	23.30	16.48	7.24	5.56	3.16	2.28	1.32	0.85	
13	5.02	9.32	3.09	1.17	25.40	15.64	7.24	5.77	3.16	2.28	1.32	0.78	
14	4.86	7.08	1.97	1.03	21.52	15.08	7.03	13.96	3.16	2.16	1.32	0.71	
15	4.86	5.51	1.10	0.89	23.30	15.36	7.45	11.32	3.16	2.28	1.56	0.71	
16	4.70	4.70	0.82	1.33	19.28	19.28	8.73	8.29	2.97	2.28	1.44	0.64	
17	4.70	4.86	0.68	6.54	18.44	13.96	8.29	5.77	2.97	2.16	1.32	0.64	
18	4.86	4.70	0.47	3.25	24.80	12.36	7.45	6.19	2.97	2.04	1.32	0.57	
19	4.86	4.37	0.54	2.45	17.60	11.58	7.24	6.19	2.97	2.04	1.20	0.50	
20	4.86	3.57	1.03	4.53	14.24	17.04	6.19	5.98	2.40	1.92	1.06	0.50	
21	4.86	3.09	1.10	4.86	16.76	16.48	5.77	5.77	2.97	1.92	1.20	0.57	
22	4.70	3.09	1.97	3.41	55.00	12.36	5.98	5.77	2.78	1.92	1.44	0.57	
23	4.70	2.93	2.13	1.81	63.20	11.84	5.77	5.56	2.78	1.80	3.16	0.57	
24	4.70	2.45	0.89	1.17	29.12	18.72	5.77	5.35	2.78	1.92	2.59	0.57	
25	4.70	1.49	0.61	7.26	203.20	13.68	5.56	5.35	2.59	1.92	2.04	0.57	
26	4.53	2.13	0.47	7.44	41.83	11.32	4.72	5.35	2.59	1.80	1.80	0.50	
27	4.53	2.13	0.42	20.48	22.70	9.88	4.30	5.35	2.59	1.68	1.56	0.40	
28	4.53	4.53	0.42	9.13	30.44	8.29	4.51	5.14	2.40	1.68	1.32	0.50	
29	4.37	10.46	0.42	5.84	17.04	7.24	4.30	4.93	2.40	1.56	1.20	0.64	
30	4.37	7.08	0.44	13.40	37.76	7.45	4.93	4.51	2.28	1.56		0.64	
31		5.67		20.12	98.00		5.56		2.28	1.56		0.50	
Total	110.23	164.51	71.08	143.10	1062.95	695.43	229.72	179.93	99.59	64.29	44.61	23.24	2888.68 CMSDAY
Mean	3.67	5.31	2.37	4.62	34.29	23.18	7.41	6.00	3.21	2.07	1.54	0.75	7.89 CMS
Max	5.18	11.79	6.18	20.48	203.20	91.50	13.40	13.96	5.35	2.78	3.16	1.20	203.20 CMS
Min	0.96	1.49	0.42	0.42	11.58	7.24	4.30	4.11	2.28	1.56	1.06	0.40	0.40 CMS
Runoff	9.524	14.214	6.141	12.364	91.839	60.085	19.848	15.546	8.605	5.555	3.854	2.008	249.582 MCM

Momentary Peak 297.00 CMS, at 295.45 M (MSL), at 9.00 Hours, on Aug 25, 1995

Runoff Yield 12.75 Liters/Second/Square KM, Momentary Peak Yield 479.806 Liters/Second/Square KM

WATER YEAR 1995

WANG RIVER BASIN

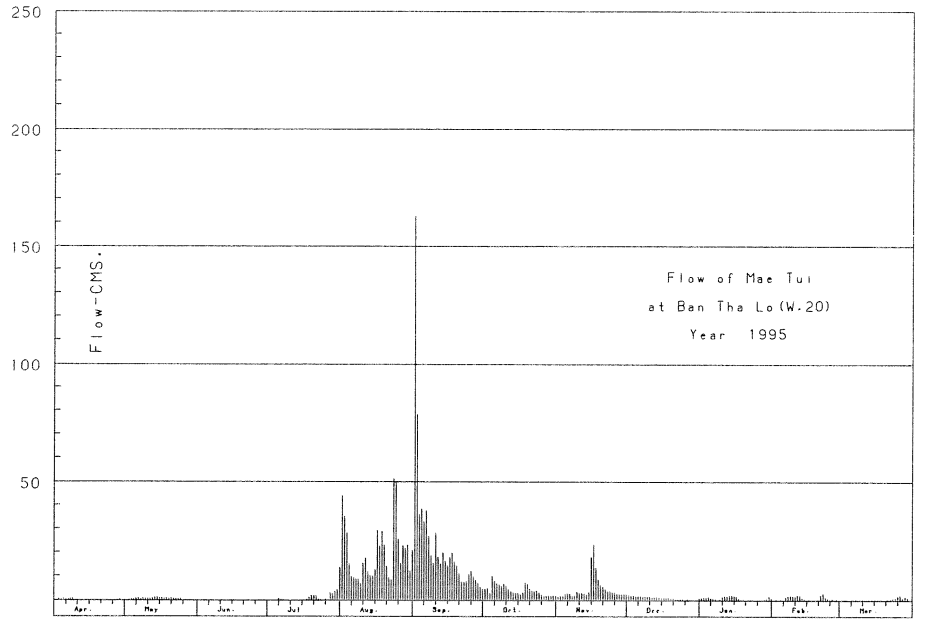
Nam Mae Tui at Ban Tha Lo, Lampang (W.20)

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	Rather unstable.
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 34 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.69	0.70	0.67	0.72	3.50	5.17	1.40	1.00	1.09	0.88	0.78	0.71	
2	0.82	0.72	0.67	0.75	3.22	4.20	1.45	1.00	1.07	0.90	0.77	0.71	
3	0.82	0.84	0.67	0.78	2.96	3.25	1.21	1.04	1.06	0.93	0.74	0.70	
4	0.82	0.78	0.66	0.75	2.26	3.33	1.88	1.14	1.03	0.94	0.69	0.75	
5	0.82	0.85	0.66	0.83	1.88	3.15	1.72	1.19	1.01	0.87	0.59	0.74	
6	0.85	0.85	0.66	0.80	1.82	3.30	1.61	1.14	0.99	0.86	0.96	0.74	
7	0.85	0.83	0.65	0.74	1.79	2.90	1.59	1.04	0.98	0.76	1.00	0.74	
8	0.83	0.85	0.65	0.71	1.77	2.49	1.51	1.03	0.98	0.76	1.05	0.74	
9	0.79	0.84	0.65	0.70	1.62	2.29	1.61	1.27	0.97	0.89	0.99	0.74	
10	0.77	0.82	0.65	0.68	2.29	2.95	1.52	1.18	0.95	0.98	1.00	0.77	
11	0.73	0.84	0.65	0.69	2.43	2.44	1.40	1.23	0.94	1.00	1.10	0.75	
12	0.71	0.88	0.65	0.71	2.03	2.28	1.30	1.17	0.93	1.03	1.08	0.73	
13	0.70	0.94	0.65	0.70	1.89	2.55	1.21	1.15	0.91	1.05	0.91	0.71	
14	0.70	0.92	0.65	0.70	1.90	2.34	1.20	1.24	0.90	1.08	0.79	0.67	
15	0.69	0.91	0.65	0.70	2.12	2.23	1.17	2.45	0.89	1.04	0.75	0.65	
16	0.68	0.88	0.65	0.74	2.99	2.43	1.11	2.74	0.88	0.97	0.72	0.61	
17	0.68	0.87	0.65	0.76	2.70	2.55	1.22	2.15	0.87	0.83	0.70	0.68	
18	0.68	0.86	0.65	0.95	2.99	2.32	1.65	1.77	0.86	0.79	0.69	0.67	
19	0.68	0.85	0.64	1.06	2.71	2.22	1.62	1.55	0.85	0.77	0.68	0.67	
20	0.69	0.87	0.64	1.05	2.20	1.96	1.40	1.52	0.84	0.77	0.69	0.65	
21	0.69	0.85	0.63	1.01	1.82	1.70	1.31	1.39	0.81	0.74	1.05	0.78	
22	0.69	0.85	0.63	0.80	1.76	1.68	1.29	1.29	0.80	0.74	1.19	0.81	
23	0.68	0.84	0.63	0.75	3.69	1.69	1.30	1.27	0.79	0.73	0.92	0.84	
24	0.68	0.81	0.65	0.72	3.64	1.95	1.23	1.24	0.77	0.73	0.81	0.90	
25	0.68	0.79	0.65	0.75	2.83	2.05	1.08	1.20	0.77	0.70	0.79	1.01	
26	0.68	0.77	0.67	0.79	2.29	1.86	1.03	1.18	0.77	0.75	0.78	1.05	
27	0.69	0.73	0.69	1.22	2.71	1.75	1.03	1.14	0.76	0.75	0.78	0.85	
28	0.78	0.72	0.68	1.15	2.64	1.64	1.03	1.11	0.75	0.75	0.75	1.00	
29	0.75	0.70	0.67	1.30	2.72	1.48	1.02	1.14	0.75	0.86	0.73	0.87	
30	0.73	0.69	0.70	1.36	2.05	1.40	1.03	1.11	0.85	1.00		0.75	
31		0.66		2.18	2.59		1.02		0.87	0.81		0.75	
Mean	0.74	0.82	0.66	0.89	2.45	2.45	1.33	1.34	0.89	0.86	0.84	0.77	
Max	0.85	0.94	0.70	2.18	3.69	5.17	1.88	2.74	1.09	1.08	1.19	1.05	5.17
Min	0.68	0.66	0.63	0.68	1.62	1.40	1.02	1.00	0.75	0.70	0.59	0.61	0.59

Annual Max Momentary Gage Height 5.45 M (A.D), at 12.00 Hours, on Sep 1, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.33 M (A.D)
Left Bank Elevation 7.93 M (A.D)
Right Bank Elevation 7.93 M (A.D), Drainage Area 1740 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.13	0.11	0.20	44.40	163.20	4.70	1.60	2.14	0.90	0.43	0.17	
2	0.60	0.20	0.11	0.32	35.40	79.00	5.20	1.60	2.02	1.00	0.39	0.17	
3	0.60	0.70	0.11	0.43	28.64	36.30	3.08	1.84	1.96	1.18	0.28	0.13	
4	0.60	0.43	0.10	0.32	15.20	38.76	10.16	2.52	1.78	1.24	0.12	0.32	
5	0.60	0.75	0.10	0.65	10.16	33.40	8.24	2.92	1.66	0.85	0.04	0.28	
6	0.75	0.75	0.10	0.50	9.44	37.80	6.92	2.52	1.54	0.80	1.36	0.28	
7	0.75	0.65	0.09	0.28	9.08	27.20	6.69	1.84	1.48	0.35	1.60	0.28	
8	0.65	0.75	0.09	0.17	8.84	19.02	5.81	1.78	1.48	0.35	1.90	0.28	
9	0.46	0.70	0.09	0.13	7.04	15.65	6.92	3.56	1.42	0.95	1.54	0.28	
10	0.39	0.60	0.09	0.11	15.65	28.40	5.92	2.84	1.30	1.48	1.60	0.39	
11	0.24	0.70	0.09	0.12	17.94	18.12	4.70	3.24	1.24	1.60	2.20	0.32	
12	0.17	0.90	0.09	0.17	11.96	15.50	3.80	2.76	1.18	1.78	2.08	0.24	
13	0.13	1.24	0.09	0.13	10.28	20.10	3.08	2.60	1.06	1.90	1.06	0.17	
14	0.13	1.12	0.09	0.13	10.40	16.44	3.00	3.32	1.00	2.08	0.46	0.11	
15	0.12	1.06	0.09	0.13	13.10	14.75	2.76	18.30	0.95	1.84	0.32	0.09	
16	0.11	0.90	0.09	0.28	29.36	17.94	2.28	23.80	0.90	1.42	0.20	0.06	
17	0.11	0.85	0.09	0.35	23.00	20.10	3.16	13.55	0.85	0.65	0.13	0.11	
18	0.11	0.80	0.09	1.30	29.36	16.12	7.40	8.84	0.80	0.46	0.12	0.11	
19	0.11	0.75	0.08	1.96	23.20	14.60	7.04	6.25	0.75	0.39	0.11	0.11	
20	0.12	0.85	0.08	1.90	14.30	11.12	4.70	5.92	0.70	0.39	0.12	0.09	
21	0.12	0.75	0.07	1.66	9.44	8.00	3.89	4.61	0.55	0.28	1.90	0.43	
22	0.12	0.75	0.07	0.50	8.72	7.76	3.72	3.72	0.50	0.28	2.92	0.55	
23	0.11	0.70	0.07	0.32	51.62	7.88	3.80	3.56	0.46	0.24	1.12	0.70	
24	0.11	0.55	0.09	0.20	49.72	11.00	3.24	3.32	0.39	0.24	0.55	1.00	
25	0.11	0.46	0.09	0.32	25.66	12.20	2.08	3.00	0.39	0.13	0.46	1.66	
26	0.11	0.39	0.11	0.46	15.65	9.92	1.78	2.84	0.39	0.32	0.43	1.90	
27	0.12	0.24	0.12	3.16	23.20	8.60	1.78	2.52	0.35	0.32	0.43	0.75	
28	0.43	0.20	0.11	2.60	21.80	7.28	1.78	2.28	0.32	0.32	0.32	1.60	
29	0.32	0.13	0.11	3.80	23.40	5.50	1.72	2.52	0.32	0.80	0.24	0.85	
30	0.24	0.12	0.13	4.34	12.20	4.70	1.78	2.28	0.75	1.60		0.32	
31		0.10		14.00	20.82		1.72		0.85	0.55		0.32	
Total	8.66	19.22	2.84	40.94	628.98	726.36	132.85	142.25	31.48	26.69	24.43	14.07	1798.77 CMSDAY
Mean	0.29	0.62	0.09	1.32	20.29	24.21	4.29	4.74	1.02	0.86	0.84	0.45	4.91 CMS
Max	0.75	1.24	0.13	14.00	51.62	163.20	10.16	23.80	2.14	2.08	2.92	1.90	163.20 CMS
Min	0.11	0.10	0.07	0.11	7.04	4.70	1.72	1.60	0.32	0.13	0.04	0.06	0.04 CMS
Runoff	0.748	1.661	0.245	3.537	54.344	62.757	11.478	12.290	2.720	2.306	2.111	1.216	155.414 MCM

Momentary Peak 192.00 CMS, at 5.45 M (A.D), at 12.00 Hours, on Sep 1, 1995

Runoff Yield 2.82 Liters/Second/Square KM, Momentary Peak Yield 110.345 Liters/Second/Square KM

WATER YEAR 1995

YOM RIVER BASIN

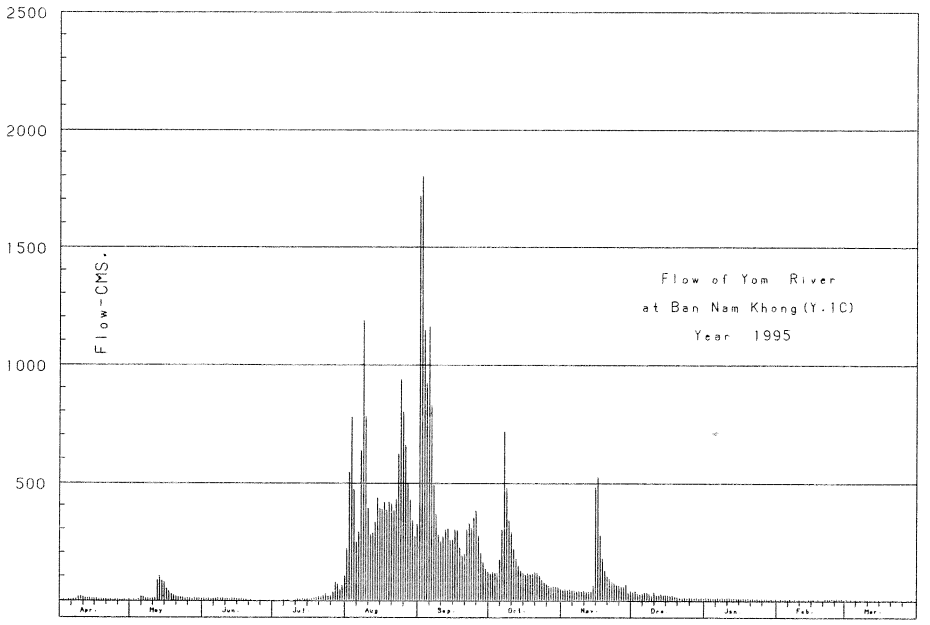
Yom River at Phathana Pak Nua 8 Bridge, Phrae (Y.1C)

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 with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation +152.71 m.(M.S.L.) records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 85 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.11	144.09	144.24	143.99	147.30	153.97	146.08	145.06	145.08	144.47	144.30	144.28	
2	144.14	144.08	144.22	143.99	149.79	154.18	146.15	145.09	145.21	144.49	144.30	144.27	
3	144.14	144.13	144.20	144.01	150.93	152.34	146.11	145.06	144.93	144.48	144.30	144.27	
4	144.12	144.13	144.19	144.00	149.35	151.51	146.10	145.07	144.90	144.47	144.29	144.28	
5	144.12	144.50	144.23	144.05	147.60	152.40	146.80	145.04	144.97	144.46	144.29	144.28	
6	144.12	144.42	144.22	144.05	147.99	151.14	148.09	144.98	145.07	144.46	144.29	144.26	
7	144.23	144.28	144.30	144.03	150.29	149.48	150.67	144.95	145.10	144.46	144.29	144.25	
8	144.44	144.23	144.28	144.02	152.48	148.61	149.41	144.95	144.91	144.46	144.30	144.25	
9	144.55	144.23	144.25	144.07	150.94	147.90	148.40	144.95	144.74	144.45	144.29	144.25	
10	144.40	144.21	144.22	144.12	148.80	147.62	147.99	144.94	145.08	144.46	144.29	144.25	
11	144.34	144.32	144.20	144.13	147.90	147.82	147.30	144.89	144.80	144.46	144.29	144.23	
12	144.32	145.73	144.19	144.15	147.95	148.08	146.85	144.89	144.81	144.46	144.28	144.22	
13	144.29	145.93	144.22	144.18	148.36	148.13	146.49	144.92	144.89	144.44	144.27	144.21	
14	144.26	145.69	144.25	144.18	149.12	147.65	146.25	145.34	144.83	144.43	144.26	144.19	
15	144.23	145.58	144.20	144.17	148.82	147.70	146.08	149.40	144.79	144.42	144.26	144.18	
16	144.21	145.16	144.20	144.19	148.76	148.08	146.03	149.67	144.77	144.41	144.26	144.19	
17	144.19	144.95	144.22	144.21	149.00	148.07	146.09	147.88	144.75	144.40	144.25	144.19	
18	144.16	144.73	144.15	144.32	148.75	147.35	146.04	146.83	144.73	144.40	144.25	144.19	
19	144.15	144.60	144.09	144.30	148.99	146.98	146.06	146.26	144.65	144.40	144.26	144.19	
20	144.14	144.51	144.05	144.46	148.94	147.05	146.17	145.95	144.55	144.38	144.28	144.20	
21	144.14	144.44	144.02	144.44	148.74	148.08	146.10	145.76	144.51	144.36	144.34	144.20	
22	144.12	144.41	144.01	144.56	149.09	148.31	145.97	145.61	144.49	144.36	144.36	144.20	
23	144.12	144.32	144.02	144.71	150.21	148.12	145.72	145.50	144.48	144.35	144.36	144.19	
24	144.11	144.28	144.01	144.52	151.58	148.51	145.58	145.41	144.48	144.35	144.35	144.19	
25	144.15	144.28	144.00	144.55	151.03	148.73	145.47	145.34	144.48	144.35	144.35	144.21	
26	144.10	144.24	143.99	144.89	150.39	147.85	145.32	145.28	144.47	144.36	144.34	144.20	
27	144.07	144.23	143.99	145.61	149.52	147.12	145.27	145.24	144.48	144.36	144.33	144.20	
28	144.11	144.29	143.98	145.46	149.06	146.65	145.29	145.46	144.47	144.34	144.32	144.21	
29	144.11	144.29	143.98	145.10	148.42	146.34	145.30	145.05	144.47	144.32	144.30	144.22	
30	144.10	144.23	143.98	145.37	147.84	146.16	145.23	145.20	144.46	144.32		144.21	
31		144.22		145.96	148.27		145.11		144.46	144.31		144.25	
Mean	144.19	144.54	144.14	144.44	149.23	148.73	146.44	145.67	144.74	144.41	144.30	144.22	
Max	144.55	145.93	144.30	145.96	152.48	154.18	150.67	149.67	145.21	144.49	144.36	144.28	154.18
Min	144.07	144.08	143.98	143.99	147.30	146.16	145.11	144.89	144.46	144.31	144.25	144.18	143.98

Annual Max Momentary Gage Height 155.23 M (MSL), at 17.00 Hours, on Sep 1, 1995
Zero Gage at Bottom Elevation 143.50 M (MSL), River Bed 142.56 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.3	5.7	10.4	3.0	221.0	1717.7	116.0	46.9	35.6	11.6	6.5	6.0	
2	7.2	5.4	9.7	3.0	546.2	1803.8	121.2	48.5	42.0	12.2	6.5	5.8	
3	7.2	6.9	9.0	3.5	779.9	1147.6	118.3	46.9	29.2	11.9	6.5	5.8	
4	6.6	6.9	8.7	3.2	472.5	921.6	117.5	47.4	28.0	11.6	6.3	6.0	
5	6.6	20.0	10.0	4.6	250.0	1165.0	176.0	45.8	30.8	11.3	6.3	6.0	
6	6.6	16.8	9.7	4.6	290.9	829.6	302.8	42.7	35.2	11.3	6.3	5.6	
7	10.0	11.8	12.5	4.0	639.0	492.8	720.4	41.1	36.5	11.3	6.3	5.4	
8	17.6	10.0	11.8	3.8	1189.0	366.3	481.6	41.1	28.4	11.3	6.5	5.4	
9	22.3	10.0	10.8	5.2	782.2	281.0	340.0	41.1	21.6	11.0	6.3	5.4	
10	16.0	9.4	9.7	6.6	391.0	252.0	290.9	40.6	35.6	11.3	6.3	5.4	
11	13.9	13.2	9.0	6.9	281.0	272.2	221.0	38.0	24.0	11.3	6.3	4.9	
12	13.2	89.7	8.7	7.5	286.5	301.6	180.5	38.0	24.4	11.3	6.0	4.7	
13	12.1	104.7	9.7	8.4	335.2	307.6	148.2	39.5	27.6	10.7	5.8	4.4	
14	11.1	86.7	10.8	8.4	438.0	255.0	129.0	63.4	25.2	10.4	5.6	4.0	
15	10.0	78.7	9.0	8.1	393.8	260.0	116.0	480.0	23.6	10.1	5.6	3.9	
16	9.4	52.6	9.0	8.7	385.8	301.6	112.2	524.9	22.8	9.8	5.6	4.0	
17	8.7	41.1	9.7	9.4	420.0	300.4	116.7	278.8	22.0	9.5	5.4	4.0	
18	7.8	30.3	7.5	13.2	384.5	225.5	113.0	178.7	21.2	9.5	5.4	4.0	
19	7.5	24.5	5.7	12.5	418.5	192.2	114.5	129.8	18.0	9.5	5.6	4.0	
20	7.2	20.4	4.6	18.4	411.0	198.5	122.8	106.2	14.3	8.9	6.0	4.2	
21	7.2	17.6	3.8	17.6	383.2	301.6	117.5	92.0	12.8	8.3	7.7	4.2	
22	6.6	16.4	3.5	22.7	433.5	329.2	107.8	80.7	12.2	8.3	8.3	4.2	
23	6.6	13.2	3.8	29.5	623.0	306.4	89.0	73.5	11.9	8.0	8.3	4.0	
24	6.3	11.8	3.5	20.9	939.8	353.3	78.7	67.7	11.9	8.0	8.0	4.0	
25	7.5	11.8	3.2	22.3	803.2	381.9	71.6	63.4	11.9	8.0	8.0	4.4	
26	6.0	10.4	3.0	38.0	659.0	275.5	62.2	59.8	11.6	8.3	7.7	4.2	
27	5.2	10.0	3.0	80.7	499.4	204.8	59.2	57.4	11.9	8.3	7.4	4.2	
28	6.3	12.1	2.9	70.9	429.0	162.5	60.4	70.9	11.6	7.7	7.1	4.4	
29	6.3	12.1	2.9	49.0	342.4	136.2	61.0	34.2	11.6	7.1	6.5	4.7	
30	6.0	10.0	2.9	65.2	274.4	122.0	56.8	41.5	11.3	7.1		4.4	
31		9.7		107.0	324.4		49.6		11.3	6.8		5.4	
Total	271.3	779.9	218.5	666.8	15027.3	14165.4	4972.4	2960.5	676.0	301.7	190.1	147.0	40376.9 CMSDAY
Mean	9.0	25.2	7.3	21.5	484.8	472.2	160.4	98.7	21.8	9.7	6.6	4.7	110.3 CMS
Max	22.3	104.7	12.5	107.0	1189.0	1803.8	720.4	524.9	42.0	12.2	8.3	6.0	1803.8 CMS
Min	5.2	5.4	2.9	3.0	221.0	122.0	49.6	34.2	11.3	6.8	5.4	3.9	2.9 CMS
Runoff	23.44	67.38	18.88	57.61	1298.36	1223.89	429.62	255.79	58.41	26.07	16.42	12.70	3488.56 MCM

Momentary Peak 2243.60 CMS, at 155.23 M (MSL), at 17.00 Hours, on Sep 1, 1995

Runoff Yield 14.47 Liters/Second/Square KM, Momentary Peak Yield 294.281 Liters/Second/Square KM

WATER YEAR 1995

YOM RIVER BASIN

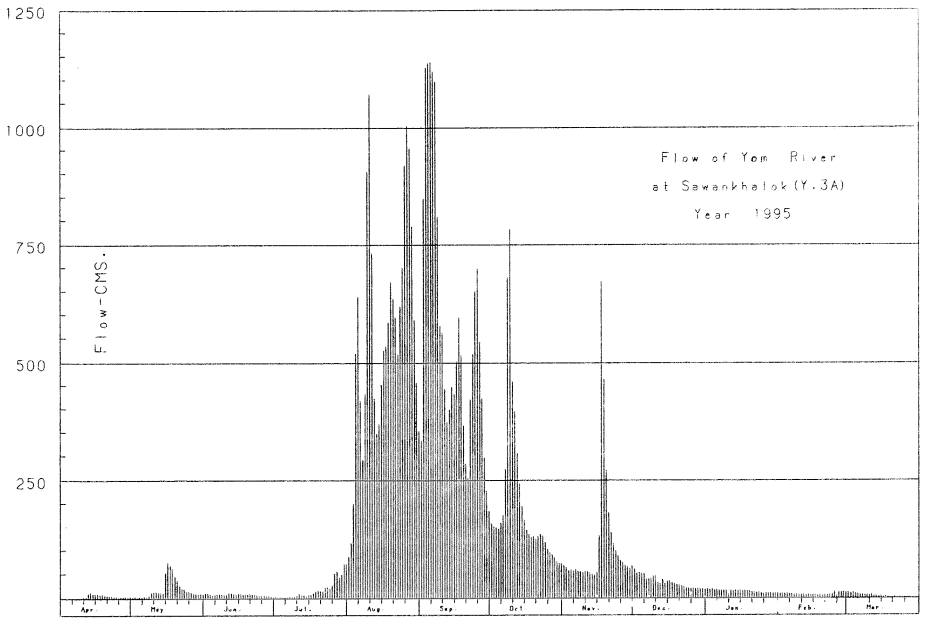
Yom River at Sawankhalok, Sukhothai (Y.3A)

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	Overbank flow starts at elevation +60.79 m.(M.S.L.) records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.99	51.15	51.45	51.14	53.15	56.22	54.24	52.85	52.71	51.74	51.43	51.50	
2	50.98	51.11	51.44	51.11	53.65	59.74	54.13	52.76	52.50	51.74	51.43	51.49	
3	50.95	51.11	51.38	51.10	54.76	61.03	54.10	52.65	52.56	51.74	51.43	51.49	
4	50.95	51.11	51.33	51.10	57.76	61.07	54.08	52.66	52.50	51.70	51.42	51.45	
5	50.91	51.11	51.34	51.09	58.57	61.08	54.26	52.64	52.51	51.69	51.42	51.39	
6	50.88	51.11	51.37	51.12	56.97	60.99	54.46	52.66	52.24	51.67	51.38	51.34	
7	50.86	51.11	51.41	51.18	55.82	60.90	55.61	52.62	52.28	51.65	51.35	51.32	
8	50.87	51.23	51.35	51.18	57.10	59.54	58.81	52.58	52.28	51.65	51.35	51.31	
9	50.87	51.52	51.35	51.15	60.02	58.17	59.41	52.58	52.41	51.65	51.34	51.31	
10	51.09	51.53	51.34	51.29	60.78	58.06	57.31	52.59	52.40	51.64	51.34	51.31	
11	51.17	51.56	51.47	51.41	59.12	57.18	56.77	52.60	52.11	51.64	51.34	51.31	
12	51.44	51.54	51.48	51.33	57.01	56.57	55.97	52.54	52.04	51.64	51.32	51.24	
13	51.52	51.47	51.40	51.29	56.36	56.81	55.27	52.48	52.25	51.64	51.31	51.20	
14	51.45	51.47	51.38	51.25	56.53	57.21	54.72	52.43	52.04	51.64	51.30	51.20	
15	51.41	52.55	51.44	51.36	57.25	57.09	54.32	52.57	52.17	51.64	51.30	51.20	
16	51.39	52.95	51.41	51.32	57.81	57.63	54.05	53.86	52.17	51.63	51.30	51.20	
17	51.38	52.86	51.38	51.46	57.86	58.29	53.91	58.76	52.10	51.63	51.30	51.19	
18	51.36	52.71	51.38	51.57	58.21	57.72	53.84	57.35	52.04	51.63	51.30	51.18	
19	51.30	52.38	51.39	51.66	58.76	56.52	53.85	55.57	52.01	51.59	51.30	51.14	
20	51.26	52.18	51.38	51.59	58.54	55.72	53.77	54.54	51.97	51.55	51.30	51.10	
21	51.23	51.96	51.38	51.59	58.28	55.40	53.84	53.97	51.93	51.51	51.30	51.10	
22	51.20	51.82	51.36	51.86	57.75	56.99	53.92	53.61	51.87	51.51	51.32	51.10	
23	51.18	51.73	51.32	51.85	58.43	57.75	53.86	53.39	51.82	51.51	51.42	51.10	
24	51.15	51.61	51.26	51.80	58.93	58.63	53.67	53.20	51.80	51.48	51.55	51.10	
25	51.14	51.55	51.25	51.94	60.08	58.93	53.44	53.04	51.78	51.46	51.55	51.10	
26	51.13	51.49	51.30	52.49	60.48	57.94	53.32	52.96	51.78	51.46	51.55	51.10	
27	51.13	51.45	51.25	52.60	60.26	57.01	53.25	52.86	51.78	51.46	51.53	51.10	
28	51.13	51.40	51.21	52.35	59.44	55.87	53.13	52.78	51.77	51.45	51.52	51.06	
29	51.13	51.40	51.18	52.45	58.25	55.08	53.00	52.74	51.75	51.45	51.52	51.06	
30	51.14	51.39	51.17	52.92	57.28	54.57	52.92	52.81	51.75	51.45		51.06	
31		51.40		52.88	56.40		52.91		51.74	51.43		51.06	
Mean	51.15	51.64	51.35	51.63	57.79	57.86	54.52	53.35	52.10	51.59	51.39	51.22	
Max	51.52	52.95	51.48	52.92	60.78	61.08	59.41	58.76	52.71	51.74	51.55	51.50	61.08
Min	50.86	51.11	51.17	51.09	53.15	54.57	52.91	52.43	51.74	51.43	51.30	51.06	50.86

Annual Max Momentary Gage Height 61.08 M (MSL), at 6.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation 51.00 M (MSL), River Bed 50.05 M (MSL)
Left Bank Elevation 61.03 M (MSL)
Right Bank Elevation 60.78 M (MSL), Drainage Area 13583 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.9	4.3	11.5	4.1	88.0	336.1	160.0	70.7	63.5	20.2	10.9	13.0	
2	1.8	3.7	11.2	3.7	119.3	849.0	152.1	66.0	53.0	20.2	10.9	12.7	
3	1.5	3.7	9.5	3.5	200.8	1127.9	150.0	60.5	56.0	20.2	10.9	12.7	
4	1.5	3.7	8.3	3.5	520.6	1137.1	148.6	61.0	53.0	19.0	10.6	11.5	
5	1.1	3.7	8.5	3.3	641.2	1139.4	161.5	60.0	53.5	18.7	10.6	9.7	
6	0.8	3.7	9.2	3.8	419.6	1118.8	176.8	61.0	40.8	18.1	9.5	8.5	
7	0.6	3.7	10.3	4.7	295.0	1098.5	275.0	59.0	42.6	17.5	8.7	8.0	
8	0.7	5.7	8.7	4.7	435.0	809.6	680.7	57.0	42.6	17.5	8.7	7.8	
9	0.7	13.6	8.7	4.3	906.2	579.5	784.9	57.0	48.5	17.5	8.5	7.8	
10	3.3	13.9	8.5	7.2	1071.5	563.0	461.3	57.5	48.0	17.2	8.5	7.8	
11	4.5	14.8	12.1	10.3	733.4	444.6	396.6	58.0	35.0	17.2	8.5	7.8	
12	11.2	14.2	12.4	8.3	424.2	373.7	310.0	55.0	31.8	17.2	8.0	6.0	
13	13.6	12.1	10.0	7.2	350.8	401.2	244.3	52.0	41.2	17.2	7.8	5.0	
14	11.5	12.1	9.5	6.2	369.3	448.3	197.6	49.5	31.8	17.2	7.5	5.0	
15	10.3	55.5	11.2	9.0	453.5	433.8	166.0	56.5	37.6	17.2	7.5	5.0	
16	9.7	76.3	10.3	8.0	527.4	503.1	146.5	133.2	37.6	16.9	7.5	5.0	
17	9.5	71.3	9.5	11.8	534.4	597.5	136.7	672.4	34.5	16.9	7.5	4.8	
18	9.0	63.5	9.5	15.1	585.5	515.2	131.8	466.5	31.8	16.9	7.5	4.7	
19	7.5	47.1	9.7	17.8	672.4	368.2	132.5	271.3	30.4	15.7	7.5	4.1	
20	6.5	38.1	9.5	15.7	636.4	285.4	127.1	183.2	28.8	14.5	7.5	3.5	
21	5.7	28.4	9.5	15.7	596.0	256.0	131.8	140.9	27.2	13.3	7.5	3.5	
22	5.0	22.8	9.0	24.4	519.3	421.9	137.4	116.7	24.8	13.3	8.0	3.5	
23	4.7	19.9	8.0	24.0	618.8	519.3	133.2	102.4	22.8	13.3	10.6	3.5	
24	4.3	16.3	6.5	22.0	701.1	651.0	120.5	91.0	22.0	12.4	14.5	3.5	
25	4.1	14.5	6.2	27.6	918.8	701.1	105.6	81.4	21.4	11.8	14.5	3.5	
26	4.0	12.7	7.5	52.5	1004.0	545.6	98.2	76.8	21.4	11.8	14.5	3.5	
27	4.0	11.5	6.2	58.0	956.6	424.2	94.0	71.3	21.4	11.8	13.9	3.5	
28	4.0	10.0	5.2	45.7	790.6	300.0	86.8	67.0	21.1	11.5	13.6	2.9	
29	4.0	10.0	4.7	50.5	591.5	227.8	79.0	65.0	20.5	11.5	13.6	2.9	
30	4.1	9.7	4.5	74.6	457.4	185.6	74.6	68.6	20.5	11.5		2.9	
31		10.0		72.4	355.0		74.1		20.2	10.9		2.9	
Total	151.1	630.5	265.4	619.6	17493.6	17362.4	6275.2	3488.4	1085.3	486.1	285.3	186.5	48329.4 CMSDAY
Mean	5.0	20.3	8.8	20.0	564.3	578.7	202.4	116.3	35.0	15.7	9.8	6.0	132.0 CMS
Max	13.6	76.3	12.4	74.6	1071.5	1139.4	784.9	672.4	63.5	20.2	14.5	13.0	1139.4 CMS
Min	0.6	3.7	4.5	3.3	88.0	185.6	74.1	49.5	20.2	10.9	7.5	2.9	0.6 CMS
Runoff	13.06	54.48	22.93	53.53	1511.45	1500.11	542.18	301.40	93.77	42.00	24.65	16.11	4175.66 MCM

Momentary Peak 1139.40 CMS, at 61.08 M (MSL), at 6.00 Hours, on Sep 5, 1995

Runoff Yield 9.72 Liters/Second/Square KM, Momentary Peak Yield 83.884 Liters/Second/Square KM

WATER YEAR 1995

YOM RIVER BASIN

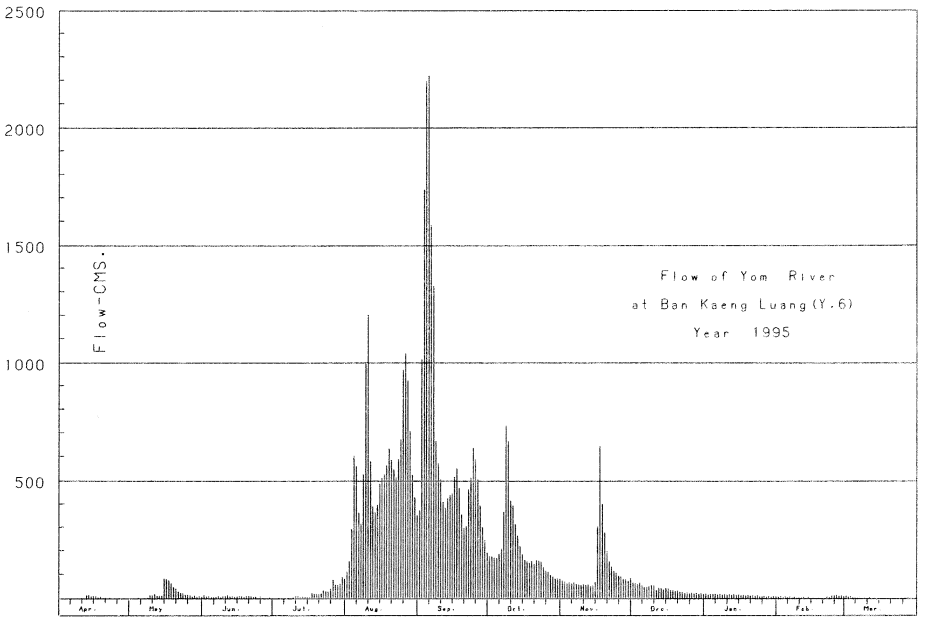
Yom River at Ban Kaeng Luang, Sukhothai (Y.6)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +68.05 m(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 62 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	59.42	59.47	59.92	59.47	61.39	63.15	61.93	61.01	60.90	60.07	59.80	59.85	
2	59.42	59.49	59.84	59.46	61.76	65.60	61.94	60.92	60.84	60.05	59.79	59.83	
3	59.42	59.46	59.79	59.45	62.71	67.41	61.88	60.87	60.83	60.03	59.78	59.79	
4	59.41	59.46	59.74	59.44	64.21	68.44	61.89	60.88	60.86	60.08	59.77	59.75	
5	59.40	59.45	59.75	59.45	64.03	68.50	62.01	60.85	60.75	60.07	59.75	59.71	
6	59.47	59.44	59.79	59.54	63.10	67.05	62.18	60.89	60.59	60.06	59.75	59.69	
7	59.50	59.46	59.83	59.56	62.83	66.44	63.11	60.82	60.65	60.05	59.71	59.68	
8	59.47	59.59	59.73	59.54	63.87	64.45	64.71	60.76	60.65	60.04	59.70	59.66	
9	59.45	60.00	59.75	59.66	65.55	64.08	64.45	60.76	60.76	60.04	59.69	59.64	
10	59.43	59.88	59.87	59.87	66.12	63.78	63.37	60.77	60.71	60.04	59.68	59.61	
11	59.52	60.09	59.91	59.83	64.12	63.32	63.25	60.77	60.43	60.03	59.68	59.59	
12	59.97	59.88	59.86	59.73	63.23	63.21	62.83	60.76	60.56	60.02	59.67	59.58	
13	59.95	59.85	59.80	59.69	63.11	63.40	62.53	60.70	60.58	60.03	59.66	59.57	
14	59.84	59.94	59.78	59.78	63.26	63.48	62.25	60.69	60.41	60.02	59.65	59.53	
15	59.79	61.09	59.82	59.74	63.70	63.50	62.00	60.94	60.57	60.01	59.64	59.53	
16	59.78	61.04	59.83	59.74	63.81	63.82	61.83	62.76	60.51	60.00	59.63	59.52	
17	59.72	61.02	59.80	60.17	63.88	63.99	61.76	64.37	60.42	59.97	59.61	59.49	
18	59.68	60.84	59.76	60.06	64.03	63.62	61.73	63.30	60.39	59.95	59.60	59.47	
19	59.65	60.65	59.80	60.11	64.34	63.06	61.76	62.63	60.36	59.94	59.60	59.45	
20	59.62	60.48	59.90	60.03	64.13	62.72	61.69	62.09	60.34	59.93	59.63	59.43	
21	59.58	60.31	59.79	60.13	63.97	62.78	61.80	61.78	60.30	59.90	59.66	59.41	
22	59.55	60.20	59.77	60.33	63.81	63.58	61.81	61.58	60.22	59.92	59.71	59.42	
23	59.54	60.11	59.70	60.32	64.14	63.81	61.75	61.43	60.17	59.91	59.75	59.42	
24	59.50	60.04	59.65	60.24	64.49	64.35	61.58	61.32	60.18	59.86	59.87	59.42	
25	59.48	59.97	59.74	60.49	65.47	64.14	61.44	61.22	60.16	59.85	59.96	59.41	
26	59.46	59.90	59.62	61.04	65.68	63.80	61.36	61.15	60.16	59.83	59.97	59.41	
27	59.46	59.81	59.58	60.78	65.34	63.26	61.26	61.08	60.14	59.83	59.92	59.41	
28	59.48	59.87	59.59	60.71	64.61	62.75	61.16	61.03	60.13	59.82	59.90	59.37	
29	59.47	59.79	59.53	60.84	63.87	62.41	61.10	60.99	60.12	59.82	59.88	59.41	
30	59.52	59.80	59.52	61.14	63.43	62.06	61.08	61.09	60.11	59.82		59.46	
31		59.80		61.06	63.02		61.06		60.09	59.82		59.45	
Mean	59.57	60.01	59.76	60.05	63.90	64.20	62.08	61.34	60.45	59.96	59.74	59.55	
Max	59.97	61.09	59.92	61.14	66.12	68.50	64.71	64.37	60.90	60.08	59.97	59.85	68.50
Min	59.40	59.44	59.52	59.44	61.39	62.06	61.06	60.69	60.09	59.82	59.60	59.37	59.37

Annual Max Momentary Gage Height 68.62 M (MSL), at 6.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation 59.00 M (MSL), River Bed 57.70 M (MSL)
Left Bank Elevation 68.34 M (MSL)
Right Bank Elevation 68.04 M (MSL), Drainage Area 12658 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.3	3.1	14.2	3.1	116.0	375.8	178.9	78.9	70.0	20.5	10.0	11.7	
2	2.3	3.4	11.4	2.9	157.2	1014.0	180.2	71.6	65.2	19.5	9.8	11.1	
3	2.3	2.9	9.8	2.7	297.3	1739.4	172.4	67.6	64.4	18.5	9.5	9.8	
4	2.1	2.9	8.5	2.6	606.5	2195.8	173.7	68.4	66.8	21.0	9.3	8.8	
5	2.0	2.7	8.8	2.7	564.1	2222.5	189.4	66.0	58.5	20.5	8.8	7.8	
6	3.1	2.6	9.8	4.1	366.5	1584.5	213.2	69.2	47.5	20.0	8.8	7.2	
7	3.5	2.9	11.1	4.4	318.3	1329.4	368.4	63.6	51.5	19.5	7.8	7.0	
8	3.1	4.9	8.3	4.1	526.5	667.2	736.7	59.2	51.5	19.0	7.5	6.5	
9	2.7	17.0	8.8	6.5	997.3	575.8	667.2	59.2	59.2	19.0	7.2	6.0	
10	2.4	12.8	12.4	12.4	1203.8	505.7	419.0	59.9	55.7	19.0	7.0	5.3	
11	3.8	21.5	13.9	11.1	585.2	409.0	395.0	59.9	38.6	18.5	7.0	4.9	
12	16.0	12.8	12.1	8.3	391.0	387.0	318.3	59.2	45.8	18.0	6.7	4.7	
13	15.3	11.7	10.0	7.2	368.4	425.0	267.1	55.0	46.9	18.5	6.5	4.6	
14	11.4	14.9	9.5	9.5	397.0	441.8	223.7	54.3	37.5	18.0	6.3	3.9	
15	9.8	86.5	10.7	8.5	488.5	446.0	188.0	73.2	46.4	17.5	6.0	3.9	
16	9.5	81.8	11.1	8.5	512.4	514.7	165.9	306.0	43.0	17.0	5.8	3.8	
17	8.0	79.9	10.0	25.5	528.8	554.7	157.2	646.5	38.1	16.0	5.3	3.4	
18	7.0	65.2	9.0	20.0	564.1	471.3	153.6	405.0	36.5	15.3	5.0	3.1	
19	6.3	51.5	10.0	22.5	639.0	359.1	157.2	283.3	35.0	14.9	5.0	2.7	
20	5.5	41.4	13.5	18.5	587.5	299.0	148.8	200.6	34.0	14.6	5.8	2.4	
21	4.7	32.5	9.8	23.5	550.0	309.5	162.0	159.6	32.0	13.5	6.5	2.1	
22	4.3	27.0	9.3	33.5	512.4	462.8	163.3	135.9	28.0	14.2	7.8	2.3	
23	4.1	22.5	7.5	33.0	589.9	512.4	156.0	120.1	25.5	13.9	8.8	2.3	
24	3.5	19.0	6.3	29.0	677.8	641.5	135.9	109.0	26.0	12.1	12.4	2.3	
25	3.2	16.0	8.5	42.0	970.5	589.9	121.2	99.0	25.0	11.7	15.6	2.1	
26	2.9	13.5	5.5	81.8	1043.2	510.0	113.0	92.3	25.0	11.1	16.0	2.1	
27	2.9	10.4	4.7	60.6	926.9	397.0	103.0	85.6	24.0	11.1	14.2	2.1	
28	3.2	12.4	4.9	55.7	709.7	304.3	93.2	80.8	23.5	10.7	13.5	1.8	
29	3.1	9.8	3.9	65.2	526.5	248.6	87.5	77.2	23.0	10.7	12.8	2.1	
30	3.8	10.0	3.8	91.3	431.3	196.4	85.6	86.5	22.5	10.7		2.9	
31		10.0		83.7	351.7		83.7		21.5	10.7		2.7	
Total	154.1	705.5	277.1	784.4	17505.3	20690.1	6778.3	3852.6	1268.1	495.2	252.7	143.4	52906.8 CMSDAY
Mean	5.1	22.8	9.2	25.3	564.7	689.7	218.7	128.4	40.9	16.0	8.7	4.6	144.6 CMS
Max	16.0	86.5	14.2	91.3	1203.8	2222.5	736.7	646.5	70.0	21.0	16.0	11.7	2222.5 CMS
Min	2.0	2.6	3.8	2.6	116.0	196.4	83.7	54.3	21.5	10.7	5.0	1.8	1.8 CMS
Runoff	13.31	60.96	23.94	67.77	1512.46	1787.63	585.65	332.86	109.56	42.79	21.83	12.39	4571.15 MCM

Momentary Peak 2275.90 CMS, at 68.62 M (MSL), at 6.00 Hours, on Sep 5, 1995

Runoff Yield 11.42 Liters/Second/Square KM, Momentary Peak Yield 179.799 Liters/Second/Square KM

WATER YEAR 1995

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.

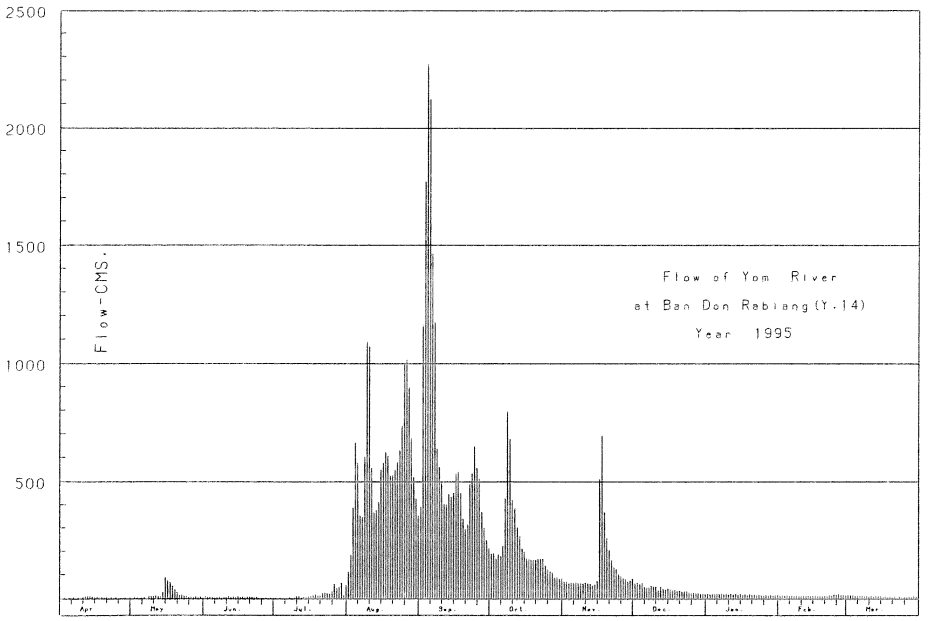
Overbank Flow Conditions — Overbank flow starts at elevation +74.73 m.(M.S.L.),records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 22 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.77	65.77	66.05	65.79	67.62	69.77	68.33	67.17	67.06	66.33	66.18	66.22	
2	65.77	65.81	66.00	65.78	68.31	73.10	68.36	67.15	67.08	66.32	66.18	66.22	
3	65.75	65.82	65.97	65.77	69.73	74.97	68.17	67.08	67.02	66.31	66.17	66.18	
4	65.75	65.80	65.97	65.78	71.21	76.39	68.30	67.08	67.06	66.35	66.16	66.16	
5	65.79	65.77	65.94	65.79	70.77	75.97	68.27	67.09	66.86	66.35	66.15	66.14	
6	65.81	65.80	65.99	65.80	69.53	74.06	68.60	67.10	66.79	66.35	66.15	66.13	
7	65.81	65.84	65.95	65.82	69.47	73.14	69.98	67.07	66.83	66.35	66.14	66.14	
8	65.79	66.02	65.93	65.85	70.92	71.07	71.76	67.04	66.90	66.33	66.14	66.12	
9	65.78	66.10	65.93	65.95	72.86	70.70	71.28	67.05	66.89	66.33	66.13	66.11	
10	65.80	66.03	65.97	66.12	72.80	70.36	69.91	67.09	66.85	66.34	66.13	66.09	
11	66.04	66.11	66.04	66.02	70.67	69.84	69.72	67.05	66.63	66.33	66.13	66.08	
12	66.11	66.03	65.99	65.93	69.62	69.81	69.21	67.02	66.83	66.32	66.13	66.07	
13	66.03	66.00	65.98	65.92	69.66	70.08	68.91	66.94	66.73	66.31	66.12	66.07	
14	65.98	66.49	66.01	65.98	69.89	70.00	68.52	66.97	66.64	66.31	66.12	66.07	
15	65.97	67.39	66.02	65.97	70.63	70.09	68.40	67.21	66.76	66.31	66.12	66.06	
16	65.94	67.21	66.00	66.04	70.79	70.56	68.17	70.42	66.66	66.30	66.12	66.03	
17	65.91	67.16	65.98	66.21	71.01	70.59	68.11	71.34	66.63	66.30	66.11	66.02	
18	65.90	66.89	65.97	66.26	70.92	70.10	68.12	69.62	66.63	66.28	66.08	66.01	
19	65.88	66.69	65.95	66.20	70.51	69.45	68.10	68.85	66.57	66.27	66.11	66.00	
20	65.85	66.47	66.05	66.15	70.51	69.13	68.10	68.47	66.57	66.26	66.10	66.00	
21	65.83	66.27	65.96	66.42	70.64	69.28	68.17	68.09	66.54	66.25	66.14	66.00	
22	65.81	66.26	65.95	66.42	70.79	70.30	68.16	67.83	66.51	66.24	66.18	66.00	
23	65.81	66.20	65.93	66.42	71.05	70.55	68.13	67.73	66.57	66.23	66.22	66.00	
24	65.80	66.12	65.90	66.35	71.52	71.13	67.89	67.52	66.43	66.23	66.29	66.00	
25	65.79	66.04	65.88	66.55	72.55	70.68	67.71	67.42	66.42	66.21	66.31	66.00	
26	65.79	66.02	65.85	67.02	72.61	70.43	67.63	67.35	66.42	66.21	66.29	65.99	
27	65.78	65.97	65.83	66.79	72.19	69.63	67.60	67.27	66.42	66.21	66.25	65.99	
28	65.78	66.00	65.83	66.81	71.28	69.17	67.37	67.19	66.38	66.21	66.24	66.00	
29	65.82	65.96	65.80	67.09	70.48	68.80	67.37	67.20	66.36	66.21	66.23	66.05	
30	65.80	66.00	65.80	66.26	69.96	68.52	67.32	67.33	66.35	66.20		66.02	
31		65.99		66.95	69.52		67.31		66.34	66.21		66.02	
Mean	65.85	66.19	65.95	66.20	70.65	70.92	68.48	67.66	66.67	66.28	66.17	66.06	
Max	66.11	67.39	66.05	67.09	72.86	76.39	71.76	71.34	67.08	66.35	66.31	66.22	76.39
Min	65.75	65.77	65.80	65.77	67.62	68.52	67.31	66.94	66.34	66.20	66.08	65.99	65.75

Annual Max Momentary Gage Height 76.59 M (MSL), at 18.00 Hours, on Sep 4, 1995
Zero Gage at Bottom Elevation 65.10 M (MSL), River Bed 62.65 M (MSL)
Left Bank Elevation 78.15 M (MSL)
Right Bank Elevation 74.73 M (MSL), Drainage Area 12131 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.5	5.5	11.5	5.8	116.0	396.0	192.6	74.9	67.2	21.9	15.4	16.9	
2	5.5	6.2	10.0	5.7	190.2	1165.0	196.2	73.5	68.6	21.4	15.4	16.9	
3	5.2	6.4	9.4	5.5	389.5	1774.5	173.7	68.6	64.4	20.9	15.1	15.4	
4	5.2	6.0	9.4	5.7	668.2	2271.5	189.0	68.6	67.2	22.7	14.8	14.8	
5	5.8	5.5	8.8	5.8	578.0	2124.5	185.4	69.3	53.2	22.7	14.5	14.2	
6	6.2	6.0	9.8	6.0	357.1	1464.5	226.0	70.0	48.4	22.7	14.5	13.9	
7	6.2	6.8	9.0	6.4	347.9	1177.0	431.6	67.9	51.1	22.7	14.2	14.2	
8	5.8	10.6	8.6	7.0	608.6	639.4	795.0	65.8	56.0	21.9	14.2	13.6	
9	5.7	13.0	8.6	9.0	1093.0	564.0	683.6	66.5	55.3	21.9	13.9	13.3	
10	6.0	10.9	9.4	13.6	1075.0	498.8	419.7	69.3	52.5	22.3	13.9	12.7	
11	11.2	13.3	11.2	10.6	558.0	407.8	387.8	66.5	38.8	21.9	13.9	12.4	
12	13.3	10.9	9.8	8.6	371.3	402.7	308.5	64.4	51.1	21.4	13.9	12.1	
13	10.9	10.0	9.6	8.4	377.9	449.0	266.9	58.8	44.8	20.9	13.6	12.1	
14	9.6	30.4	10.3	9.6	416.3	435.0	216.0	60.9	39.4	20.9	13.6	12.1	
15	9.4	94.1	10.6	9.4	550.0	450.7	201.0	77.9	46.6	20.9	13.6	11.8	
16	8.8	77.9	10.0	11.2	582.0	536.4	173.7	509.8	40.6	20.5	13.6	10.9	
17	8.2	74.2	9.6	16.5	627.1	542.1	167.1	696.8	38.8	20.5	13.3	10.6	
18	8.0	55.3	9.4	18.7	608.6	452.5	168.2	371.3	38.8	19.6	12.4	10.3	
19	7.6	42.4	9.0	16.0	526.9	344.7	166.0	258.7	35.2	19.1	13.3	10.0	
20	7.0	29.2	11.5	14.5	526.9	297.2	166.0	209.8	35.2	18.7	13.0	10.0	
21	6.6	19.1	9.2	26.2	552.0	319.0	173.7	164.9	33.4	18.3	14.2	10.0	
22	6.2	18.7	9.0	26.2	582.0	488.0	172.6	137.1	31.6	17.8	15.4	10.0	
23	6.2	16.0	8.6	26.2	635.3	534.5	169.3	127.0	35.2	17.4	16.9	10.0	
24	6.0	13.6	8.0	22.7	737.0	651.6	143.4	106.4	26.8	17.4	20.1	10.0	
25	5.8	11.2	7.6	34.0	1001.3	560.0	125.0	96.9	26.2	16.5	20.9	10.0	
26	5.8	10.6	7.0	64.4	1018.0	511.7	117.0	90.5	26.2	16.5	20.1	9.8	
27	5.7	9.4	6.6	48.4	902.5	372.9	114.0	83.3	26.2	16.5	18.3	9.8	
28	5.7	10.0	6.6	49.7	683.6	302.8	92.3	76.3	24.1	16.5	17.8	10.0	
29	6.4	9.2	6.0	69.3	521.2	252.0	92.3	77.0	23.2	16.5	17.4	11.5	
30	6.0	10.0	6.0	18.7	428.2	216.0	87.8	88.7	22.7	16.0		10.6	
31		9.8		59.5	355.6		86.9		22.3	16.5		10.6	
Total	211.5	652.2	270.1	639.3	17985.2	20601.8	7088.3	4117.4	1291.1	611.4	441.2	370.5	54280.0 CMSDAY
Mean	7.1	21.0	9.0	20.6	580.2	686.7	228.7	137.2	41.6	19.7	15.2	12.0	148.3 CMS
Max	13.3	94.1	11.5	69.3	1093.0	2271.5	795.0	696.8	68.6	22.7	20.9	16.9	2271.5 CMS
Min	5.2	5.5	6.0	5.5	116.0	216.0	86.9	58.8	22.3	16.0	12.4	9.8	5.2 CMS
Runoff	18.27	56.35	23.34	55.24	1553.92	1780.00	612.43	355.74	111.55	52.82	38.12	32.01	4689.79 MCM

Momentary Peak 2341.50 CMS, at 76.59 M (MSL), at 18.00 Hours, on Sep 4, 1995

Runoff Yield 12.23 Liters/Second/Square KM, Momentary Peak Yield 193.02 Liters/Second/Square KM

WATER YEAR 1995

YOM RIVER BASIN

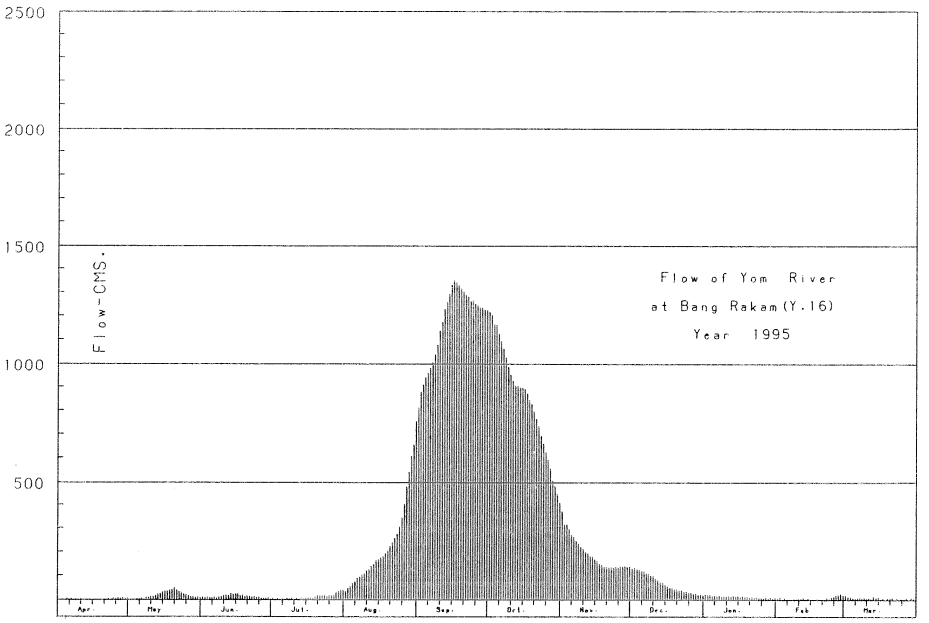
Yom River at Bang Rakam, Phitsanulok (Y.16)

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	+41.841 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 +38.97 m.(M.S.L.) and is included.
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.29	32.45	32.86	32.51	34.18	41.44	42.35	39.78	37.01	33.45	32.70	33.23	
2	32.30	32.38	32.89	32.45	34.54	41.61	42.32	39.46	37.05	33.45	32.63	33.05	
3	32.31	32.31	32.90	32.43	34.92	41.69	42.25	39.48	36.96	33.39	32.56	32.89	
4	32.33	32.31	32.90	32.43	35.19	41.76	42.24	39.34	36.85	33.31	32.43	32.77	
5	32.33	32.38	32.87	32.43	35.47	41.81	42.17	39.18	36.77	33.27	32.40	32.73	
6	32.33	32.47	32.83	32.43	35.86	41.85	42.10	39.08	36.65	33.21	32.36	32.73	
7	32.31	32.58	32.81	32.43	36.07	41.91	42.04	38.96	36.51	33.17	32.33	32.76	
8	32.27	32.73	32.88	32.40	36.22	41.98	41.95	38.80	36.36	33.14	32.31	32.76	
9	32.26	32.89	33.06	32.38	36.46	42.07	41.87	38.67	36.22	33.11	32.35	32.70	
10	32.24	33.05	33.26	32.43	36.72	42.19	41.79	38.53	36.09	33.11	32.48	32.55	
11	32.20	33.19	33.35	32.45	36.91	42.27	41.72	38.39	35.89	33.16	32.57	32.51	
12	32.18	33.38	33.46	32.47	37.18	42.37	41.68	38.25	35.58	33.18	32.56	32.57	
13	32.13	33.55	33.64	32.60	37.40	42.43	41.67	38.10	35.43	33.17	32.42	33.00	
14	32.11	33.83	33.67	32.59	37.68	42.49	41.66	38.02	35.30	33.17	32.36	32.86	
15	32.07	33.98	33.67	32.60	37.81	42.57	41.65	37.84	35.11	33.13	32.30	32.73	
16	32.07	34.15	33.68	32.61	37.92	42.60	41.64	37.66	34.86	33.11	32.26	32.49	
17	32.06	34.24	33.32	32.64	38.07	42.59	41.60	37.47	34.75	33.08	32.21	32.43	
18	32.12	34.30	33.31	32.68	38.24	42.56	41.52	37.31	34.64	33.04	32.21	32.40	
19	32.17	34.46	33.13	32.87	38.46	42.54	41.48	37.20	34.55	32.96	32.25	32.48	
20	32.22	34.64	33.13	33.18	38.67	42.51	41.39	37.11	34.46	32.92	32.35	32.67	
21	32.27	34.45	33.11	33.30	38.87	42.49	41.30	37.14	34.39	32.88	32.43	32.62	
22	32.34	34.18	33.05	33.32	39.03	42.47	41.20	37.08	34.30	32.85	32.58	32.50	
23	32.44	33.96	33.02	33.17	39.20	42.44	41.08	37.11	34.15	32.82	32.57	32.43	
24	32.48	33.73	32.96	33.09	39.40	42.44	40.96	37.12	34.07	32.78	32.71	32.39	
25	32.54	33.41	32.86	33.25	39.64	42.42	40.84	37.14	33.97	32.71	33.12	32.39	
26	32.60	33.25	32.77	33.35	39.94	42.40	40.71	37.18	33.87	32.69	33.29	32.39	
27	32.65	33.13	32.69	33.38	40.26	42.39	40.59	37.20	33.82	32.68	33.50	32.39	
28	32.67	33.02	32.65	33.83	40.53	42.38	40.37	37.19	33.68	32.66	33.62	32.40	
29	32.63	32.92	32.61	34.21	40.77	42.37	40.28	37.18	33.50	32.66	33.42	32.53	
30	32.51	32.89	32.56	34.33	40.95	42.36	40.12	37.15	33.45	32.64		32.69	
31		32.88		34.26	41.26		39.95		33.45	32.66		32.46	
Mean	32.31	33.33	33.06	32.92	37.87	42.25	41.44	38.00	35.15	33.02	32.60	32.63	
Max	32.67	34.64	33.68	34.33	41.26	42.60	42.35	39.78	37.05	33.45	33.62	33.23	42.60
Min	32.06	32.31	32.56	32.38	34.18	41.44	39.95	37.08	33.45	32.64	32.21	32.39	32.06

Annual Max Momentary Gage Height 42.60 M (MSL), at 18.00 Hours, on Sep 16, 1995
Zero Gage at Bottom Elevation 31.63 M (MSL), River Bed 30.99 M (MSL)
Left Bank Elevation 38.96 M (MSL)
Right Bank Elevation 43.03 M (MSL), Drainage Area 20841 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.9	6.5	10.9	7.1	37.5	817.0	1222.2	378.1	134.4	22.0	9.0	17.6	
2	5.0	5.8	11.3	6.5	47.2	881.2	1206.8	319.9	136.0	22.0	8.3	14.0	
3	5.1	5.1	11.5	6.3	59.2	914.3	1170.7	323.2	132.4	20.8	7.6	11.3	
4	5.3	5.1	11.5	6.3	68.6	943.4	1165.6	301.3	128.0	19.2	6.3	9.7	
5	5.3	5.8	11.0	6.3	78.5	964.5	1130.6	278.6	124.8	18.4	6.0	9.3	
6	5.3	6.7	10.5	6.3	92.1	982.2	1097.0	266.6	120.0	17.2	5.6	9.3	
7	5.1	7.8	10.2	6.3	99.5	1009.0	1068.2	253.2	114.9	16.4	5.3	9.6	
8	4.7	9.3	11.2	6.0	104.7	1040.1	1026.8	238.0	109.6	15.8	5.1	9.6	
9	4.6	11.3	14.2	5.8	113.1	1082.6	991.1	226.9	104.7	15.2	5.5	9.0	
10	4.4	14.0	18.2	6.3	122.8	1140.2	955.9	215.7	100.2	15.2	6.8	7.5	
11	4.0	16.8	20.0	6.5	130.4	1181.0	926.8	205.3	93.2	16.2	7.7	7.1	
12	3.8	20.6	22.2	6.7	141.2	1232.5	910.2	196.2	82.3	16.6	7.6	7.7	
13	3.3	24.0	25.8	8.0	152.0	1263.9	906.0	187.5	77.1	16.4	6.2	13.0	
14	3.1	29.6	26.4	7.9	166.0	1295.7	901.9	183.1	72.5	16.4	5.6	10.9	
15	2.7	32.6	26.4	8.0	172.5	1338.1	897.8	174.0	65.9	15.6	5.0	9.3	
16	2.7	36.8	26.6	8.1	178.0	1354.0	893.6	165.0	57.1	15.2	4.6	6.9	
17	2.6	39.0	19.4	8.4	185.8	1348.7	877.0	155.5	53.5	14.6	4.1	6.3	
18	3.2	40.5	19.2	8.8	195.6	1332.8	847.0	147.5	50.2	13.8	4.1	6.0	
19	3.7	44.8	15.6	11.0	210.5	1322.2	832.0	142.0	47.5	12.4	4.5	6.8	
20	4.2	50.2	15.6	16.6	226.9	1306.3	798.7	138.4	44.8	11.8	5.5	8.7	
21	4.7	44.5	15.2	19.0	244.6	1295.7	769.0	139.6	42.7	11.2	6.3	8.2	
22	5.4	37.5	14.0	19.4	260.6	1285.1	736.0	137.2	40.5	10.7	7.8	7.0	
23	6.4	32.2	13.4	16.4	281.0	1269.2	698.8	138.4	36.8	10.3	7.7	6.3	
24	6.8	27.6	12.4	14.8	310.0	1269.2	662.8	138.8	34.7	9.8	9.1	5.9	
25	7.4	21.2	10.9	18.0	350.8	1258.6	629.2	139.6	32.4	9.1	15.4	5.9	
26	8.0	18.0	9.7	20.0	410.0	1248.0	592.8	141.2	30.4	8.9	18.8	5.9	
27	8.5	15.6	8.9	20.6	480.1	1242.8	559.6	142.0	29.4	8.8	23.0	5.9	
28	8.7	13.4	8.5	29.6	544.8	1237.7	505.9	141.6	26.6	8.6	25.4	6.0	
29	8.3	11.8	8.1	38.2	609.6	1232.5	484.8	141.2	23.0	8.6	21.4	7.3	
30	7.1	11.3	7.6	41.3	660.0	1227.4	448.4	140.0	22.0	8.4		8.9	
31		11.2		39.5	755.8		412.0		22.0	8.6		6.6	
Total	154.3	656.6	446.4	430.0	7489.4	35315.9	26325.2	5895.6	2189.6	434.2	255.3	263.5	79856.0 CMSDAY
Mean	5.1	21.2	14.9	13.9	241.6	1177.2	849.2	196.5	70.6	14.0	8.8	8.5	218.2 CMS
Max	8.7	50.2	26.6	41.3	755.8	1354.0	1222.2	378.1	136.0	22.0	25.4	17.6	1354.0 CMS
Min	2.6	5.1	7.6	5.8	37.5	817.0	412.0	137.2	22.0	8.4	4.1	5.9	2.6 CMS
Runoff	13.33	56.73	38.57	37.15	647.08	3051.29	2274.50	509.38	189.18	37.51	22.06	22.77	6899.56 MCM

Momentary Peak 1354.00 CMS, at 42.60 M (MSL), at 18.00 Hours, on Sep 16, 1995

Runoff Yield 10.47 Liters/Second/Square KM, Momentary Peak Yield 64.968 Liters/Second/Square KM

WATER YEAR 1995

YOM RIVER BASIN

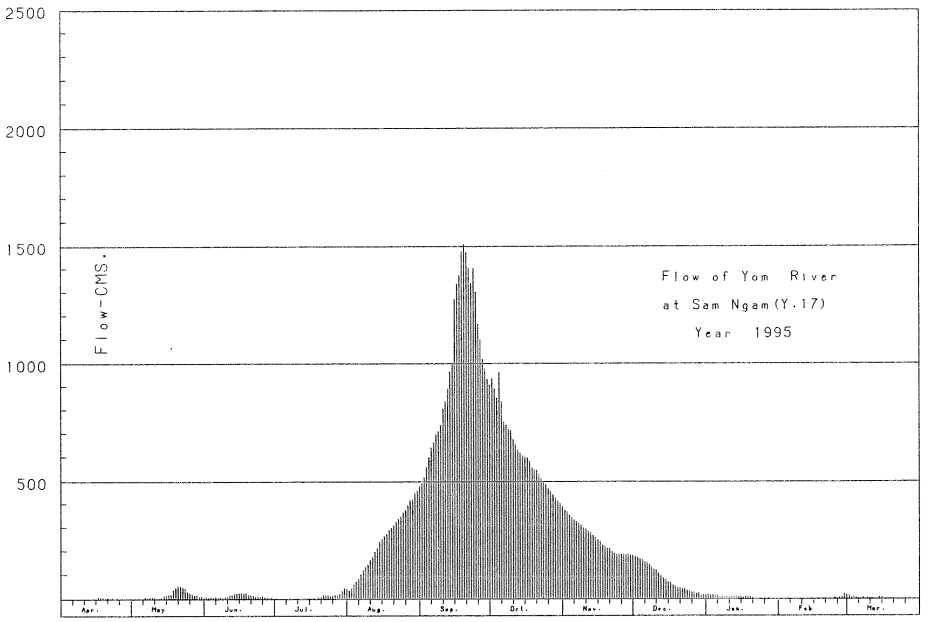
Yom River at Sam Ngam, Phichit (Y.17)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.88	31.94	32.32	32.09	33.15	37.39	37.93	36.98	35.25	32.63	32.08	32.54	
2	31.82	31.94	32.31	32.06	33.30	37.45	37.90	36.93	35.20	32.64	32.10	32.40	
3	31.76	31.93	32.30	32.03	33.65	37.53	37.87	36.86	35.14	32.62	32.07	32.33	
4	31.73	31.94	32.32	32.04	33.77	37.61	37.95	36.80	35.07	32.61	32.05	32.31	
5	31.70	31.94	32.35	32.04	34.02	37.66	37.86	36.73	35.01	32.53	32.03	32.27	
6	31.69	32.20	32.34	32.03	34.29	37.69	37.80	36.66	34.96	32.46	32.00	32.24	
7	31.65	32.24	32.27	32.04	34.57	37.73	37.78	36.61	34.89	32.44	31.91	32.24	
8	31.65	32.22	32.28	32.04	34.71	37.75	37.76	36.53	34.72	32.42	31.86	32.24	
9	31.79	32.28	32.30	32.04	34.86	37.78	37.75	36.45	34.63	32.38	31.84	32.23	
10	31.88	32.21	32.41	32.03	35.06	37.84	37.71	36.40	34.54	32.33	31.88	32.17	
11	31.93	32.13	32.58	32.03	35.23	37.86	37.68	36.33	34.39	32.39	31.95	32.14	
12	31.99	32.12	32.68	32.04	35.45	37.90	37.65	36.25	34.18	32.43	31.94	32.12	
13	32.06	32.27	32.80	32.04	35.65	37.95	37.63	36.16	34.08	32.42	31.91	32.22	
14	32.03	32.51	32.87	32.11	35.90	37.98	37.62	36.07	33.95	32.37	31.91	32.36	
15	32.06	32.59	32.89	32.12	36.03	38.07	37.61	36.00	33.83	32.36	31.91	32.27	
16	32.25	32.58	32.87	32.14	36.11	38.09	37.61	35.92	33.71	32.37	31.88	32.20	
17	32.32	32.73	32.87	32.17	36.21	38.10	37.58	35.78	33.60	32.39	31.85	32.11	
18	32.27	33.16	32.83	32.20	36.35	38.13	37.53	35.73	33.48	32.36	31.82	32.06	
19	32.22	33.38	32.67	32.25	36.45	38.14	37.51	35.65	33.41	32.32	31.82	32.06	
20	32.18	33.49	32.56	32.41	36.52	38.13	37.51	35.61	33.33	32.27	31.86	32.15	
21	32.17	33.50	32.55	32.57	36.66	38.11	37.47	35.48	33.30	32.24	31.98	32.20	
22	32.16	33.43	32.47	32.61	36.74	38.09	37.44	35.38	33.26	32.19	32.05	32.15	
23	32.14	33.26	32.43	32.56	36.83	38.11	37.41	35.35	33.14	32.22	32.12	32.11	
24	32.13	33.03	32.43	32.47	36.91	38.08	37.38	35.34	33.08	32.18	32.16	32.07	
25	32.12	32.83	32.44	32.50	36.98	38.04	37.33	35.34	33.01	32.16	32.19	32.04	
26	32.11	32.73	32.35	32.63	37.07	38.02	37.29	35.34	32.94	32.12	32.19	32.10	
27	32.04	32.61	32.29	32.61	37.15	37.99	37.25	35.34	32.88	32.16	32.43	32.20	
28	32.02	32.53	32.22	32.77	37.18	37.96	37.20	35.32	32.85	32.14	32.77	32.13	
29	31.99	32.45	32.18	33.11	37.26	37.93	37.15	35.31	32.65	32.10	32.68	32.03	
30	31.97	32.38	32.13	33.29	37.30	37.91	37.10	35.29	32.61	32.07		32.03	
31		32.34		33.24	37.35		37.04		32.63	32.05		32.09	
Mean	31.99	32.54	32.48	32.33	35.76	37.90	37.56	36.00	33.86	32.33	32.04	32.19	
Max	32.32	33.50	32.89	33.29	37.35	38.14	37.95	36.98	35.25	32.64	32.77	32.54	38.14
Min	31.65	31.93	32.13	32.03	33.15	37.39	37.04	35.29	32.61	32.05	31.82	32.03	31.65

Annual Max Momentary Gage Height 38.14 M (MSL), at 18.00 Hours, on Sep 19, 1995
Zero Gage at Bottom Elevation 31.49 M (MSL), River Bed 30.11 M (MSL)
Left Bank Elevation 39.53 M (MSL)
Right Bank Elevation 38.76 M (MSL), Drainage Area 21415 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.8	2.4	9.0	4.3	37.8	490.8	937.0	379.4	182.5	17.9	4.2	15.2	
2	1.2	2.4	8.8	3.9	45.0	519.2	895.0	370.4	178.0	18.2	4.5	11.0	
3	0.8	2.3	8.5	3.4	65.0	559.6	853.0	357.8	172.6	17.6	4.0	9.3	
4	0.6	2.4	9.0	3.6	72.2	603.0	965.0	347.0	166.3	17.3	3.7	8.8	
5	0.5	2.4	9.7	3.6	87.3	643.0	839.0	338.3	160.9	14.9	3.4	7.7	
6	0.5	6.0	9.5	3.4	104.8	667.0	755.0	329.5	156.4	12.8	3.0	7.0	
7	0.2	7.0	7.7	3.6	124.7	699.0	739.0	323.3	150.1	12.2	2.1	7.0	
8	0.2	6.5	8.0	3.6	135.2	715.0	723.0	313.6	136.0	11.6	1.6	7.0	
9	1.0	8.0	8.5	3.6	147.4	739.0	715.0	304.0	129.3	10.5	1.4	6.7	
10	1.8	6.2	11.3	3.4	165.4	811.0	683.0	298.0	122.5	9.3	1.8	5.5	
11	2.3	5.0	16.4	3.4	180.7	839.0	659.0	290.3	111.3	10.7	2.5	5.1	
12	2.9	4.8	19.4	3.6	200.5	895.0	635.0	281.5	97.7	11.9	2.4	4.8	
13	3.9	7.7	23.0	3.6	218.5	965.0	619.0	271.6	91.2	11.6	2.1	6.5	
14	3.4	14.3	25.8	4.7	243.0	1007.0	611.0	261.7	83.0	10.2	2.1	10.0	
15	3.9	16.7	26.6	4.8	257.3	1273.0	603.0	254.0	75.8	10.0	2.1	7.7	
16	7.2	16.4	25.8	5.1	266.1	1341.0	603.0	245.2	68.6	10.2	1.8	6.0	
17	9.0	20.9	25.8	5.5	277.1	1375.0	584.9	230.2	62.0	10.7	1.5	4.7	
18	7.7	38.2	24.2	6.0	292.5	1477.0	559.6	225.7	54.8	10.0	1.2	3.9	
19	6.5	49.0	19.1	7.2	304.0	1511.0	549.5	218.5	50.6	9.0	1.2	3.9	
20	5.7	55.4	15.8	11.3	312.4	1477.0	549.5	214.9	46.5	7.7	1.6	5.3	
21	5.5	56.0	15.5	16.1	329.5	1409.0	529.4	203.2	45.0	7.0	2.8	6.0	
22	5.4	51.8	13.1	17.3	339.5	1341.0	514.2	194.2	43.0	5.8	3.7	5.3	
23	5.1	43.0	11.9	15.8	352.4	1409.0	499.0	191.5	37.3	6.5	4.8	4.7	
24	5.0	32.3	11.9	13.1	366.8	1307.0	487.6	190.6	34.6	5.7	5.4	4.0	
25	4.8	24.2	12.2	14.0	379.4	1171.0	471.6	190.6	31.4	5.4	5.8	3.6	
26	4.7	20.9	9.7	17.9	399.4	1103.0	458.8	190.6	28.6	4.8	5.8	4.5	
27	3.6	17.3	8.2	17.3	418.3	1021.0	446.0	190.6	26.2	5.4	11.9	6.0	
28	3.3	14.9	6.5	22.1	425.3	979.0	430.0	188.8	25.0	5.1	22.1	5.0	
29	2.9	12.5	5.7	36.0	449.2	937.0	418.3	187.9	18.5	4.5	19.4	3.4	
30	2.7	10.5	5.0	44.5	462.0	909.0	406.5	186.1	17.3	4.0		3.4	
31		9.5		42.0	478.0		392.4		17.9	3.7		4.3	
Total	104.1	566.9	411.6	347.7	7936.7	30192.6	19131.3	7769.0	2620.9	302.2	129.9	193.3	69706.2 CMSDAY
Mean	3.5	18.3	13.7	11.2	256.0	1006.4	617.1	259.0	84.5	9.7	4.5	6.2	190.5 CMS
Max	9.0	56.0	26.6	44.5	478.0	1511.0	965.0	379.4	182.5	18.2	22.1	15.2	1511.0 CMS
Min	0.2	2.3	5.0	3.4	37.8	490.8	392.4	186.1	17.3	3.7	1.2	3.4	0.2 CMS
Runoff	8.99	48.98	35.56	30.04	685.73	2608.64	1652.94	671.24	226.45	26.11	11.22	16.70	6022.62 MCM

Momentary Peak 1511.00 CMS, at 38.14 M (MSL), at 18.00 Hours, on Sep 19, 1995

Runoff Yield 8.89 Liters/Second/Square KM, Momentary Peak Yield 70.558 Liters/Second/Square KM

WATER YEAR 1995

YOM RIVER BASIN

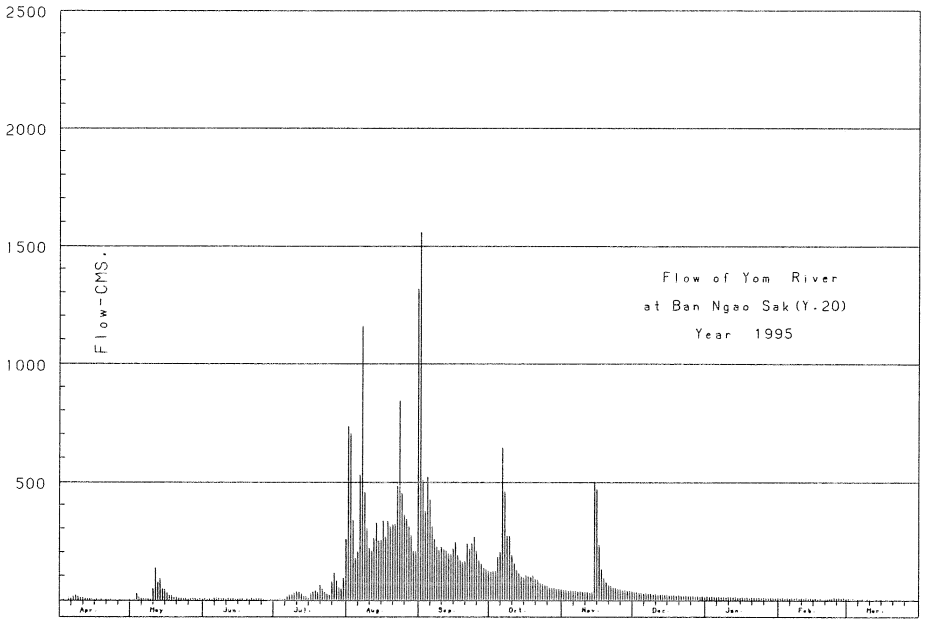
Yom River at Ban Ngao Sak, Phrae (Y.20)

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	Overbank flow starts at elevation + 193.52 m (M.S.L.), and is included.
General Description	Records fair. Stage-discharge relation defined by 76 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.61	181.56	181.68	181.58	187.72	190.20	183.81	183.22	183.06	182.64	182.45	182.36	
2	181.60	181.58	181.68	181.65	187.58	186.72	183.82	183.20	183.04	182.64	182.44	182.33	
3	181.59	182.26	181.67	181.67	185.77	186.01	183.86	183.17	183.01	182.63	182.43	182.31	
4	181.86	181.89	181.67	181.68	184.46	186.80	184.51	183.16	183.00	182.63	182.42	182.30	
5	181.77	181.75	181.79	181.68	184.74	186.30	184.73	183.15	182.97	182.62	182.42	182.28	
6	181.96	181.69	181.78	181.95	186.83	185.59	186.52	183.13	182.96	182.62	182.41	182.27	
7	182.10	181.73	181.76	182.07	189.15	185.17	185.87	183.12	182.95	182.61	182.41	182.28	
8	181.94	181.67	181.72	182.16	186.47	184.91	185.10	183.09	182.91	182.60	182.41	182.28	
9	181.87	181.70	181.68	182.26	185.50	184.77	185.09	183.09	182.89	182.59	182.41	182.26	
10	181.83	182.63	181.68	182.38	184.85	184.89	184.61	183.06	182.88	182.59	182.40	182.24	
11	181.79	184.03	181.74	182.43	184.77	184.82	184.38	183.05	182.87	182.58	182.40	182.23	
12	181.75	183.19	181.74	182.18	185.19	184.76	184.17	183.05	182.86	182.57	182.39	182.23	
13	181.73	183.40	181.72	182.01	185.69	184.65	184.02	183.05	182.84	182.57	182.38	182.22	
14	181.69	182.67	181.69	181.92	185.11	184.63	183.91	186.02	182.83	182.56	182.36	182.21	
15	181.66	182.59	181.68	181.83	185.15	184.85	183.85	185.92	182.82	182.55	182.36	182.20	
16	181.65	182.29	181.73	182.21	185.74	185.08	183.98	184.88	182.79	182.54	182.36	182.19	
17	181.64	182.08	181.68	182.38	185.26	184.59	183.90	184.19	182.79	182.54	182.34	182.19	
18	181.62	182.03	181.66	182.51	185.73	184.39	183.89	183.82	182.77	182.53	182.34	182.18	
19	181.61	181.89	181.64	182.32	185.57	184.28	183.94	183.66	182.77	182.51	182.32	182.18	
20	181.61	181.85	181.63	182.98	185.65	184.34	183.81	183.51	182.76	182.51	182.33	182.17	
21	181.63	181.82	181.75	182.61	185.64	185.01	183.77	183.44	182.74	182.50	182.33	182.17	
22	181.60	181.77	181.70	182.38	186.68	184.84	183.62	183.36	182.73	182.49	182.39	182.18	
23	181.58	181.74	181.67	182.18	188.13	185.02	183.55	183.31	182.72	182.49	182.43	182.18	
24	181.57	181.72	181.72	182.09	186.44	185.26	183.50	183.27	182.71	182.49	182.46	182.17	
25	181.57	181.69	181.67	183.20	185.92	184.75	183.45	183.23	182.69	182.48	182.46	182.15	
26	181.58	181.70	181.66	183.77	185.79	184.36	183.38	183.19	182.68	182.47	182.44	182.14	
27	181.60	181.80	181.63	183.29	185.58	184.21	183.34	183.17	182.67	182.47	182.43	182.14	
28	181.58	181.71	181.59	182.78	185.29	184.02	183.31	183.15	182.66	182.46	182.40	182.21	
29	181.57	181.68	181.59	182.62	184.75	183.92	183.28	183.13	182.66	182.45	182.38	182.22	
30	181.57	181.70	181.58	183.42	184.73	183.85	183.26	183.10	182.65	182.46		182.19	
31		181.70		185.19	189.58		183.24		182.64	182.46		182.21	
Mean	181.69	182.05	181.69	182.43	185.98	185.10	184.05	183.50	182.82	182.54	182.40	182.22	
Max	182.10	184.03	181.79	185.19	189.58	190.20	186.52	186.02	183.06	182.64	182.46	182.36	190.20
Min	181.57	181.56	181.58	181.58	184.46	183.85	183.24	183.05	182.64	182.45	182.32	182.14	181.56

Annual Max Momentary Gage Height 194.06 M (MSL), at 1.00 Hours, on Sep 1, 1995
Zero Gage at Bottom Elevation 180.98 M (MSL), River Bed 179.78 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.8	3.7	6.9	4.1	740.0	1620.0	120.8	43.4	35.0	15.6	9.5	7.2	
2	4.5	4.1	6.9	6.0	705.0	509.0	121.6	42.0	34.0	15.6	9.2	6.6	
3	4.3	30.7	6.6	6.6	340.7	375.8	124.8	40.5	32.5	15.2	8.9	6.2	
4	13.1	14.2	6.6	6.9	178.0	525.0	183.0	40.0	32.0	15.2	8.6	6.0	
5	10.0	9.3	10.6	6.9	207.4	428.0	206.3	39.5	30.5	14.8	8.6	5.6	
6	17.2	7.2	10.3	16.8	531.0	314.6	649.4	38.5	30.0	14.8	8.3	5.4	
7	23.5	8.5	9.6	22.2	1175.5	258.4	465.5	38.0	29.5	14.4	8.3	5.6	
8	16.3	6.6	8.2	26.2	459.3	227.2	286.0	36.5	27.5	14.0	8.3	5.6	
9	13.5	7.5	6.9	30.7	302.5	210.7	284.0	36.5	26.5	13.7	8.3	5.2	
10	12.1	47.4	6.9	36.1	220.0	224.8	195.7	35.0	26.0	13.7	8.0	4.8	
11	10.6	138.7	8.9	38.3	210.7	216.4	161.3	34.5	25.5	13.4	8.0	4.6	
12	9.3	77.4	8.9	27.1	260.8	209.6	133.4	34.5	25.0	13.1	7.8	4.6	
13	8.5	91.0	8.2	19.4	329.0	197.5	115.4	34.5	24.0	13.1	7.6	4.4	
14	7.2	49.1	7.2	15.4	251.2	195.3	103.6	501.6	23.5	12.8	7.2	4.2	
15	6.3	45.5	6.9	12.1	256.0	220.0	97.3	478.8	23.0	12.5	7.2	4.0	
16	6.0	32.0	8.5	28.5	336.3	247.6	110.9	243.2	21.6	12.2	7.2	3.8	
17	5.7	22.6	6.9	36.1	270.1	191.0	102.5	135.8	21.6	12.2	6.8	3.8	
18	5.1	20.4	6.3	41.9	334.8	171.1	101.4	94.1	20.8	11.9	6.8	3.6	
19	4.8	14.2	5.7	33.4	312.0	161.2	106.7	78.7	20.8	11.3	6.4	3.6	
20	4.8	12.8	5.4	64.9	323.2	166.6	93.0	65.8	20.4	11.3	6.6	3.4	
21	5.4	11.7	9.3	46.4	321.8	239.2	89.2	60.2	19.6	11.0	6.6	3.4	
22	4.5	10.0	7.5	36.1	501.0	218.8	74.9	53.8	19.2	10.7	7.8	3.6	
23	4.1	8.9	6.6	27.1	846.4	240.4	69.0	49.8	18.8	10.7	8.9	3.6	
24	3.9	8.2	8.2	23.1	453.6	270.1	65.0	46.9	18.4	10.7	9.8	3.4	
25	3.9	7.2	6.6	78.0	362.4	208.5	61.0	44.1	17.6	10.4	9.8	3.0	
26	4.1	7.5	6.3	117.8	343.5	168.4	55.4	41.5	17.2	10.1	9.2	2.8	
27	4.5	11.0	5.4	83.8	313.3	154.9	52.2	40.5	16.8	10.1	8.9	2.8	
28	4.1	7.9	4.3	54.1	274.1	137.8	49.8	39.5	16.4	9.8	8.0	4.2	
29	3.9	6.9	4.3	46.9	208.5	129.6	47.6	38.5	16.4	9.5	7.6	4.4	
30	3.9	7.5	4.1	92.4	206.3	124.0	46.2	37.0	16.0	9.8		3.8	
31		7.5		260.8	1342.8		44.8		15.6	9.8		4.2	
Total	229.9	737.2	215.0	1346.1	12917.2	8561.5	4417.7	2543.2	721.7	383.4	234.2	137.4	32444.5 CMSDAY
Mean	7.7	23.8	7.2	43.4	416.7	285.4	142.5	84.8	23.3	12.4	8.1	4.4	88.6 CMS
Max	23.5	138.7	10.6	260.8	1342.8	1620.0	649.4	501.6	35.0	15.6	9.8	7.2	1620.0 CMS
Min	3.9	3.7	4.1	4.1	178.0	124.0	44.8	34.5	15.6	9.5	6.4	2.8	2.8 CMS
Runoff	19.86	63.69	18.58	116.30	1116.05	739.71	381.69	219.73	62.35	33.13	20.23	11.87	2803.20 MCM

Momentary Peak 3851.40 CMS, at 194.06 M (MSL), at 1.00 Hours, on Sep 1, 1995

Runoff Yield 16.39 Liters/Second/Square KM, Momentary Peak Yield 711.904 Liters/Second/Square KM

WATER YEAR 1995

YOM RIVER BASIN

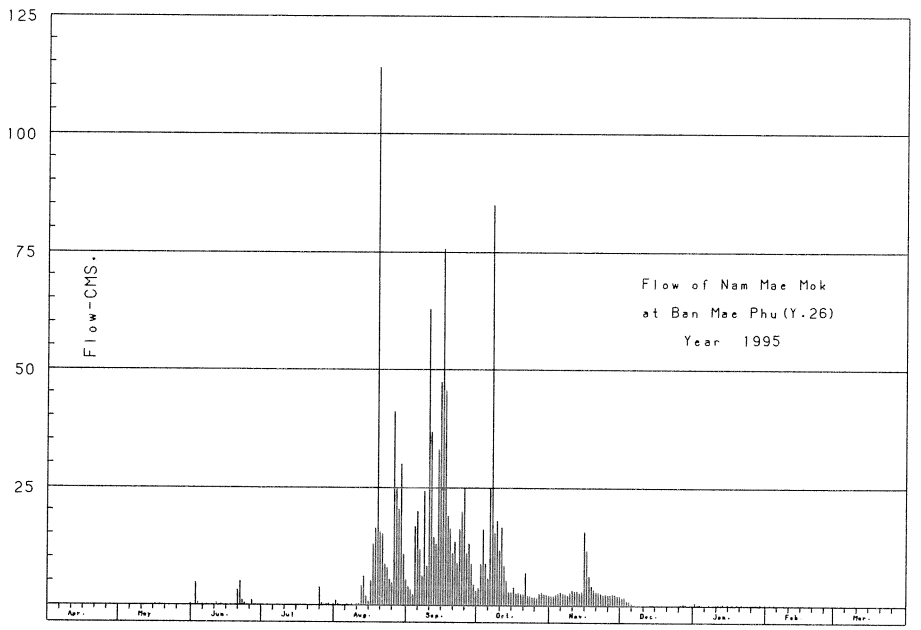
Nam Mae Mok at Ban Mae Phu, Lampang (Y.26)

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 fair. Stage-discharge relation defined by 12 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	0.11	0.68	0.67	0.95	1.17	1.14	1.02	1.00	0.89	0.76	0.57	
2	0.23	0.11	1.22	0.66	0.79	1.12	1.44	1.03	1.00	0.83	0.77	0.57	
3	0.23	0.10	0.89	0.65	0.76	1.05	1.78	1.04	0.94	0.79	0.76	0.59	
4	0.23	0.09	0.77	0.64	0.74	1.80	1.44	1.07	0.92	0.78	0.75	0.59	
5	0.22	0.09	0.73	0.63	0.73	1.93	1.27	1.08	0.88	0.73	0.77	0.57	
6	0.22	0.11	0.70	0.63	0.72	1.59	2.10	1.07	0.74	0.76	0.74	0.56	
7	0.22	0.13	0.69	0.63	0.70	1.30	3.63	1.05	0.75	0.74	0.70	0.56	
8	0.21	0.13	0.69	0.62	0.77	2.08	1.74	1.04	0.73	0.75	0.68	0.55	
9	0.21	0.14	0.68	0.61	0.77	1.41	1.85	1.07	0.72	0.68	0.64	0.55	
10	0.20	0.14	0.68	0.65	0.75	3.16	1.59	1.12	0.71	0.76	0.64	0.54	
11	0.19	0.15	0.85	0.71	0.76	2.49	1.79	1.10	0.69	0.76	0.64	0.54	
12	0.19	0.15	0.79	0.68	1.18	1.71	1.42	1.10	0.68	0.80	0.67	0.53	
13	0.19	0.16	0.77	0.67	1.29	1.64	1.24	1.08	0.68	0.79	0.64	0.52	
14	0.18	0.43	0.77	0.68	1.02	2.38	1.09	1.09	0.69	0.78	0.66	0.51	
15	0.18	0.79	0.72	0.74	0.93	2.77	1.08	1.76	0.69	0.80	0.72	0.50	
16	0.18	0.72	0.69	0.69	1.24	3.44	1.15	1.58	0.67	0.79	0.68	0.49	
17	0.18	0.69	0.68	0.67	1.64	2.73	1.07	1.30	0.66	0.75	0.65	0.48	
18	0.17	0.73	0.67	0.65	1.79	1.89	1.07	1.18	0.66	0.75	0.62	0.47	
19	0.17	0.77	0.65	0.64	4.16	1.78	1.06	1.12	0.69	0.77	0.61	0.46	
20	0.16	0.67	1.11	0.63	1.75	1.56	1.05	1.10	0.66	0.78	0.61	0.45	
21	0.16	0.68	1.24	0.62	1.74	1.67	1.34	1.08	0.65	0.76	0.66	0.44	
22	0.15	0.65	0.95	0.62	1.44	1.44	1.04	1.07	0.65	0.74	0.66	0.42	
23	0.14	0.62	0.83	0.61	1.39	1.78	1.02	1.04	0.64	0.75	0.65	0.40	
24	0.14	0.58	0.78	0.61	1.26	1.92	1.01	1.06	0.63	0.74	0.62	0.39	
25	0.13	0.57	0.63	1.16	1.21	2.11	1.01	1.05	0.69	0.77	0.60	0.38	
26	0.13	0.58	0.95	0.90	2.61	1.55	0.98	1.04	0.69	0.80	0.63	0.37	
27	0.13	0.57	0.81	0.81	2.11	1.65	1.07	1.06	0.86	0.76	0.60	0.37	
28	0.13	0.57	0.75	0.83	1.94	1.44	1.08	1.04	0.72	0.80	0.57	0.37	
29	0.13	0.57	0.67	0.78	2.28	1.20	1.06	1.03	0.72	0.75	0.59	0.36	
30	0.12	0.57	0.59	0.76	1.55	1.10	1.04	1.02	0.75	0.73		0.36	
31		0.76		0.76	1.25		1.04		0.78	0.77		0.35	
Mean	0.18	0.42	0.79	0.70	1.36	1.83	1.34	1.12	0.74	0.77	0.67	0.48	
Max	0.24	0.79	1.24	1.16	4.16	3.44	3.63	1.76	1.00	0.89	0.77	0.59	4.16
Min	0.12	0.09	0.59	0.61	0.70	1.05	0.98	1.02	0.63	0.68	0.57	0.35	0.09

Annual Max Momentary Gage Height 4.40 M (A.D), at 18.00 Hours, on Sep 16, 1995
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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.16	0.14	1.15	4.05	3.60	1.96	1.70	0.57	0.25	0.02	
2	0.00	0.00	4.86	0.13	0.29	3.30	8.82	2.09	1.70	0.39	0.26	0.02	
3	0.00	0.00	0.57	0.12	0.25	2.35	16.22	2.22	1.04	0.29	0.25	0.05	
4	0.00	0.00	0.26	0.11	0.23	16.70	8.82	2.61	0.82	0.28	0.24	0.05	
5	0.00	0.00	0.22	0.10	0.22	20.08	5.76	2.74	0.54	0.22	0.26	0.02	
6	0.00	0.00	0.18	0.10	0.20	11.79	24.80	2.61	0.23	0.25	0.23	0.01	
7	0.00	0.00	0.17	0.10	0.18	6.30	85.06	2.35	0.24	0.23	0.18	0.01	
8	0.00	0.00	0.17	0.08	0.26	24.22	15.26	2.22	0.22	0.24	0.16	0.00	
9	0.00	0.00	0.16	0.07	0.26	8.28	18.00	2.61	0.20	0.16	0.11	0.00	
10	0.00	0.00	0.16	0.12	0.24	63.02	11.79	3.30	0.19	0.25	0.11	0.00	
11	0.00	0.00	0.45	0.19	0.25	36.77	16.46	3.00	0.17	0.25	0.11	0.00	
12	0.00	0.00	0.29	0.16	4.20	14.54	8.46	3.00	0.16	0.30	0.14	0.00	
13	0.00	0.00	0.26	0.14	6.12	12.92	5.22	2.74	0.16	0.29	0.11	0.00	
14	0.00	0.00	0.26	0.16	1.96	33.18	2.87	2.87	0.17	0.28	0.13	0.00	
15	0.00	0.29	0.20	0.23	0.93	47.30	2.74	15.74	0.17	0.30	0.20	0.00	
16	0.00	0.20	0.17	0.17	5.22	75.62	3.75	11.58	0.14	0.29	0.16	0.00	
17	0.00	0.17	0.16	0.14	12.92	45.70	2.61	6.30	0.13	0.24	0.12	0.00	
18	0.00	0.22	0.14	0.12	16.46	19.04	2.61	4.20	0.13	0.24	0.08	0.00	
19	0.00	0.26	0.12	0.11	114.18	16.22	2.48	3.30	0.17	0.26	0.07	0.00	
20	0.00	0.14	3.15	0.10	15.50	11.16	2.35	3.00	0.13	0.28	0.07	0.00	
21	0.00	0.16	5.22	0.08	15.26	13.61	7.02	2.74	0.12	0.25	0.13	0.00	
22	0.00	0.12	1.15	0.08	8.82	8.82	2.22	2.61	0.12	0.23	0.13	0.00	
23	0.00	0.08	0.39	0.07	7.92	16.22	1.96	2.22	0.11	0.24	0.12	0.00	
24	0.00	0.04	0.28	0.07	5.58	19.82	1.83	2.48	0.10	0.23	0.08	0.00	
25	0.00	0.02	0.10	3.90	4.68	25.09	1.83	2.35	0.17	0.26	0.06	0.00	
26	0.00	0.04	1.15	0.60	41.08	10.95	1.48	2.22	0.17	0.30	0.10	0.00	
27	0.00	0.02	0.33	0.33	25.09	13.15	2.61	2.48	0.48	0.25	0.06	0.00	
28	0.00	0.02	0.24	0.39	20.34	8.82	2.74	2.22	0.20	0.30	0.02	0.00	
29	0.00	0.02	0.14	0.28	30.10	4.50	2.48	2.09	0.20	0.24	0.05	0.00	
30	0.00	0.02	0.05	0.25	10.95	3.00	2.22	1.96	0.24	0.22		0.00	
31		0.25		0.25	5.40		2.22		0.28	0.26		0.00	
Total	0.00	2.07	21.16	8.89	356.24	596.52	276.29	103.81	10.60	8.39	3.99	0.18	1388.14 CMSDAY
Mean	0.00	0.07	0.71	0.29	11.49	19.88	8.91	3.46	0.34	0.27	0.14	0.01	3.79 CMS
Max	0.00	0.29	5.22	3.90	114.18	75.62	85.06	15.74	1.70	0.57	0.26	0.05	114.18 CMS
Min	0.00	0.00	0.05	0.07	0.18	2.35	1.48	1.96	0.10	0.16	0.02	0.00	0.00 CMS
Runoff	0.000	0.179	1.828	0.768	30.779	51.539	23.871	8.969	0.916	0.725	0.345	0.016	119.935 MCM

Momentary Peak 128.50 CMS, at 4.40 M (A.D), at 18.00 Hours, on Sep 16, 1995
Runoff Yield 4.83 Liters/Second/Square KM, Momentary Peak Yield 163.694 Liters/Second/Square KM

WATER YEAR 1995

YOM RIVER BASIN

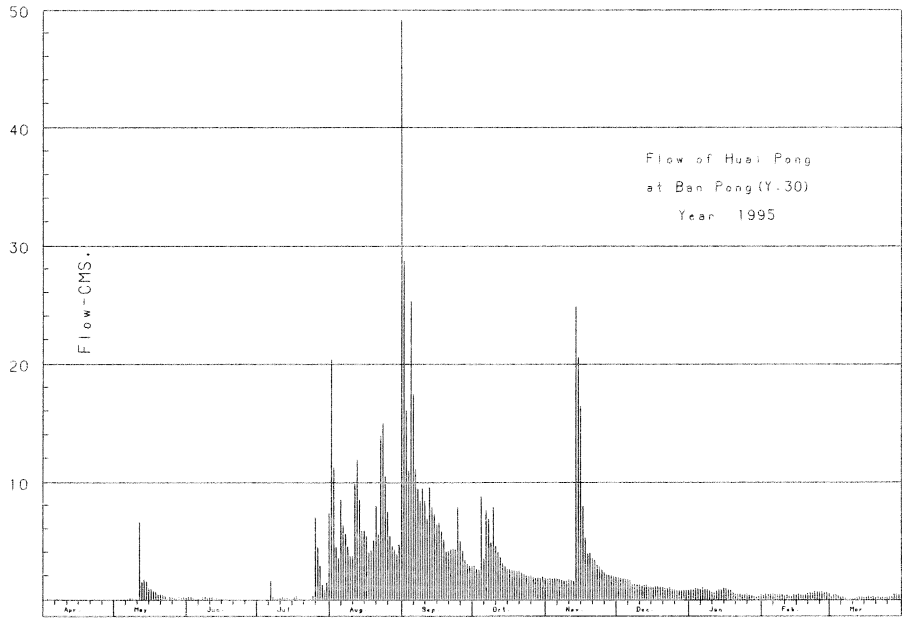
Huai Pong at Ban Pong, Lampang (Y.30)

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 27 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.51	0.47	0.58	0.41	2.41	2.77	1.08	0.91	0.93	0.72	0.62	0.59	
2	0.51	0.46	0.58	0.41	1.88	2.18	1.04	0.91	0.91	0.73	0.64	0.64	
3	0.51	0.45	0.53	0.42	1.30	1.86	1.04	0.91	0.91	0.75	0.65	0.63	
4	0.50	0.44	0.51	0.44	1.17	2.63	1.70	0.91	0.90	0.75	0.64	0.61	
5	0.50	0.44	0.51	0.43	1.68	2.26	1.17	0.91	0.90	0.74	0.65	0.59	
6	0.50	0.44	0.49	0.88	1.50	1.87	1.61	0.90	0.88	0.76	0.63	0.58	
7	0.51	0.54	0.57	0.57	1.43	1.75	1.55	0.89	0.82	0.74	0.63	0.54	
8	0.50	0.52	0.60	0.52	1.30	1.67	1.34	0.87	0.82	0.73	0.64	0.52	
9	0.49	0.52	0.53	0.52	1.20	1.75	1.63	0.88	0.82	0.71	0.64	0.52	
10	0.49	0.52	0.57	0.54	1.20	1.67	1.31	0.89	0.81	0.67	0.61	0.52	
11	0.50	1.53	0.56	0.56	1.78	1.55	1.24	0.88	0.80	0.66	0.63	0.54	
12	0.50	0.86	0.53	0.54	1.93	1.76	1.19	0.87	0.81	0.71	0.60	0.55	
13	0.50	0.89	0.53	0.53	1.68	1.63	1.11	2.61	0.81	0.72	0.60	0.57	
14	0.50	0.87	0.53	0.51	1.45	1.58	1.08	2.42	0.78	0.73	0.63	0.59	
15	0.50	0.75	0.50	0.50	1.46	1.51	1.04	2.20	0.78	0.76	0.63	0.56	
16	0.49	0.73	0.48	0.57	1.41	1.52	1.04	1.64	0.77	0.74	0.64	0.59	
17	0.49	0.70	0.44	0.60	1.24	1.45	1.03	1.39	0.79	0.73	0.63	0.60	
18	0.48	0.68	0.41	0.50	1.26	1.37	1.02	1.23	0.79	0.71	0.62	0.59	
19	0.47	0.64	0.36	0.50	1.36	1.25	1.02	1.23	0.78	0.67	0.64	0.59	
20	0.47	0.63	0.42	0.50	1.64	1.25	1.02	1.18	0.77	0.64	0.65	0.57	
21	0.50	0.62	0.41	0.49	1.42	1.27	1.00	1.15	0.75	0.64	0.67	0.57	
22	0.50	0.61	0.41	0.48	2.06	1.28	0.98	1.10	0.75	0.65	0.67	0.57	
23	0.51	0.53	0.40	0.48	2.12	1.27	0.95	1.07	0.76	0.63	0.69	0.57	
24	0.48	0.57	0.40	0.61	1.83	1.63	0.95	1.04	0.73	0.64	0.69	0.57	
25	0.48	0.56	0.40	1.56	1.60	1.36	0.95	1.00	0.72	0.65	0.68	0.57	
26	0.48	0.53	0.40	1.30	1.41	1.26	0.93	0.97	0.71	0.63	0.68	0.59	
27	0.48	0.53	0.39	1.09	1.31	1.15	0.92	0.96	0.71	0.62	0.67	0.60	
28	0.47	0.56	0.39	0.82	1.27	1.11	0.92	0.96	0.71	0.60	0.67	0.65	
29	0.47	0.55	0.39	0.72	1.22	1.08	0.92	0.94	0.72	0.59	0.66	0.64	
30	0.46	0.55	0.41	0.84	1.32	1.08	0.93	0.93	0.71	0.60		0.64	
31		0.55		1.59	3.51		0.91		0.72	0.63		0.63	
Mean	0.49	0.62	0.47	0.66	1.59	1.59	1.12	1.16	0.79	0.69	0.64	0.58	
Max	0.51	1.53	0.60	1.59	3.51	2.77	1.70	2.61	0.93	0.76	0.69	0.65	3.51
Min	0.46	0.44	0.36	0.41	1.17	1.08	0.91	0.87	0.71	0.59	0.60	0.52	0.36

Annual Max Momentary Gage Height 4.60 M (A.D), at 18.00 Hours, on Aug 31, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.10 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.04	0.25	0.02	20.41	28.68	2.86	1.81	1.92	0.84	0.39	0.27	
2	0.07	0.04	0.25	0.02	11.22	16.04	2.58	1.81	1.81	0.89	0.48	0.48	
3	0.07	0.03	0.12	0.03	4.50	10.94	2.58	1.81	1.81	0.97	0.52	0.43	
4	0.05	0.03	0.07	0.03	3.49	25.32	8.80	1.81	1.75	0.97	0.48	0.34	
5	0.05	0.03	0.07	0.03	8.54	17.48	3.49	1.81	1.75	0.93	0.52	0.27	
6	0.05	0.03	0.05	1.64	6.30	11.08	7.63	1.75	1.64	1.02	0.43	0.25	
7	0.07	0.15	0.22	0.22	5.63	9.45	6.90	1.69	1.31	0.93	0.43	0.15	
8	0.05	0.10	0.30	0.10	4.50	8.41	4.84	1.59	1.31	0.89	0.48	0.10	
9	0.05	0.10	0.12	0.10	3.70	9.45	7.89	1.64	1.31	0.79	0.48	0.10	
10	0.05	0.10	0.22	0.15	3.70	8.41	4.59	1.69	1.26	0.62	0.34	0.10	
11	0.05	6.66	0.20	0.20	9.84	6.90	4.02	1.64	1.20	0.57	0.43	0.15	
12	0.05	1.53	0.12	0.15	11.95	9.58	3.63	1.59	1.26	0.79	0.30	0.18	
13	0.05	1.69	0.12	0.12	8.54	7.89	3.07	24.84	1.26	0.84	0.30	0.22	
14	0.05	1.59	0.12	0.07	5.83	7.26	2.86	20.62	1.11	0.89	0.43	0.27	
15	0.05	0.97	0.05	0.05	5.92	6.42	2.58	16.40	1.11	1.02	0.43	0.20	
16	0.05	0.89	0.04	0.22	5.44	6.54	2.58	8.02	1.06	0.93	0.48	0.27	
17	0.05	0.75	0.03	0.30	4.02	5.83	2.51	5.26	1.16	0.89	0.43	0.30	
18	0.04	0.66	0.02	0.05	4.18	5.10	2.44	3.94	1.16	0.79	0.39	0.27	
19	0.04	0.48	0.01	0.05	5.01	4.10	2.44	3.94	1.11	0.62	0.48	0.27	
20	0.04	0.43	0.03	0.05	8.02	4.10	2.44	3.56	1.06	0.48	0.52	0.22	
21	0.05	0.39	0.02	0.05	5.54	4.26	2.30	3.35	0.97	0.48	0.62	0.22	
22	0.05	0.34	0.02	0.04	13.96	4.34	2.19	3.00	0.97	0.52	0.62	0.22	
23	0.07	0.12	0.02	0.04	14.96	4.26	2.02	2.79	1.02	0.43	0.70	0.22	
24	0.04	0.22	0.02	0.34	10.52	7.89	2.02	2.58	0.89	0.48	0.70	0.22	
25	0.04	0.20	0.02	7.02	7.50	5.01	2.02	2.30	0.84	0.52	0.66	0.22	
26	0.04	0.12	0.02	4.50	5.44	4.18	1.92	2.14	0.79	0.43	0.66	0.27	
27	0.04	0.12	0.02	2.93	4.59	3.35	1.86	2.08	0.79	0.39	0.62	0.30	
28	0.04	0.20	0.02	1.31	4.26	3.07	1.86	2.08	0.79	0.30	0.62	0.52	
29	0.04	0.18	0.02	0.84	3.86	2.86	1.86	1.97	0.84	0.27	0.57	0.48	
30	0.04	0.18	0.02	1.42	4.67	2.86	1.92	1.92	0.79	0.30		0.48	
31		0.18		7.38	49.12		1.81		0.84	0.43		0.43	
Total	1.50	18.55	2.61	29.47	265.16	251.06	102.51	131.43	36.89	21.22	14.51	8.42	883.33 CMSDAY
Mean	0.05	0.60	0.09	0.95	8.55	8.37	3.31	4.38	1.19	0.68	0.50	0.27	2.41 CMS
Max	0.07	6.66	0.30	7.38	49.12	28.68	8.80	24.84	1.92	1.02	0.70	0.52	49.12 CMS
Min	0.04	0.03	0.01	0.02	3.49	2.86	1.81	1.59	0.79	0.27	0.30	0.10	0.01 CMS
Runoff	0.130	1.603	0.226	2.546	22.910	21.692	8.857	11.356	3.187	1.833	1.254	0.727	76.320 MCM

Momentary Peak 86.70 CMS, at 4.60 M (A.D), at 18.00 Hours, on Aug 31, 1995

Runoff Yield 25.14 Liters/Second/Square KM, Momentary Peak Yield 903.13 Liters/Second/Square KM

WATER YEAR 1995

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.

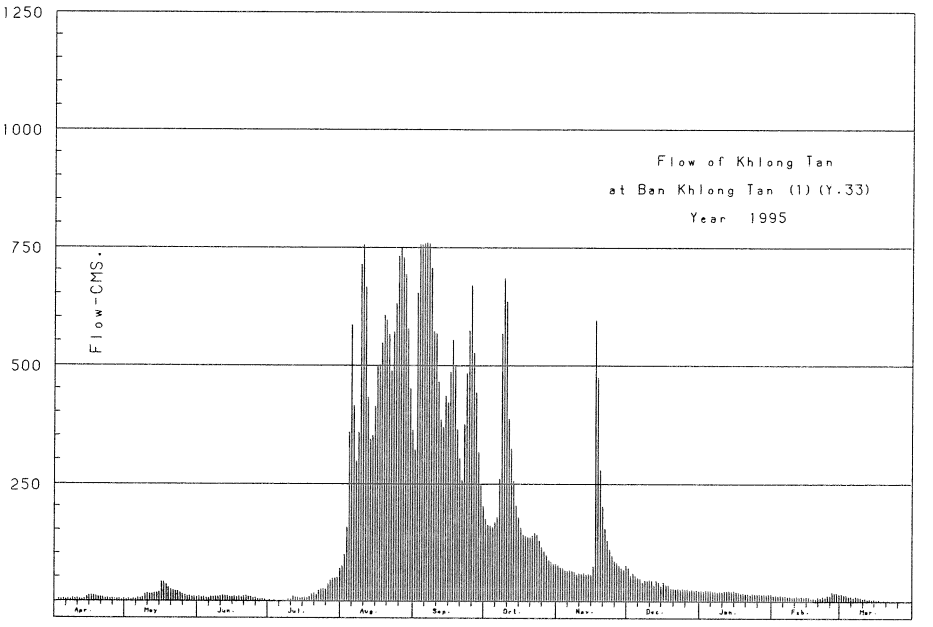
Overbank Flow Conditions — Overbank flow starts at elevation +55.83 m.(M.S.L.), records are channel flow only.

General Description — Records good. Stage-discharge relation defined by 16 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.00	47.15	47.36	47.06	49.06	52.94	50.95	49.07	48.98	47.76	47.46	47.55	
2	47.12	47.15	47.35	47.05	49.56	55.45	50.76	48.99	48.58	47.75	47.45	47.52	
3	47.16	47.15	47.33	47.03	50.68	55.97	50.71	48.94	48.72	47.77	47.45	47.48	
4	47.16	47.15	47.31	47.00	53.32	55.97	50.67	48.85	48.56	47.79	47.44	47.42	
5	47.15	47.18	47.29	46.99	55.07	55.99	50.85	48.83	48.50	47.75	47.44	47.36	
6	47.17	47.22	47.32	46.98	53.85	55.99	51.00	48.83	48.41	47.72	47.41	47.32	
7	47.18	47.26	47.36	47.01	52.67	55.99	52.19	48.82	48.25	47.69	47.39	47.38	
8	47.20	47.27	47.34	47.08	53.33	55.73	54.96	48.75	48.33	47.68	47.35	47.35	
9	47.22	47.57	47.37	47.10	55.76	54.98	55.61	48.66	48.35	47.68	47.34	47.31	
10	47.20	47.58	47.37	47.15	55.97	54.96	55.35	48.68	48.34	47.70	47.36	47.25	
11	47.16	47.59	47.42	47.38	55.52	54.26	53.60	48.69	48.32	47.72	47.36	47.19	
12	47.16	47.59	47.45	47.36	54.01	53.58	52.97	48.70	48.10	47.75	47.35	47.14	
13	47.16	47.60	47.41	47.28	53.18	53.44	52.11	48.65	48.36	47.74	47.34	47.12	
14	47.37	47.63	47.38	47.27	53.24	54.03	51.39	48.65	48.23	47.74	47.34	47.12	
15	47.43	47.66	47.38	47.26	53.85	53.92	50.99	48.64	48.06	47.74	47.33	47.11	
16	47.44	48.28	47.36	47.26	54.52	54.42	50.65	49.02	48.23	47.71	47.28	47.09	
17	47.47	48.23	47.36	47.28	54.53	54.87	50.40	55.13	48.11	47.66	47.23	47.07	
18	47.39	48.14	47.36	47.31	54.83	54.52	50.32	54.33	48.07	47.61	47.22	47.06	
19	47.36	47.94	47.35	47.57	55.19	53.40	50.31	52.44	47.91	47.60	47.22	47.04	
20	47.34	47.82	47.37	47.59	55.12	52.72	50.27	51.35	47.86	47.60	47.31	47.02	
21	47.29	47.81	47.42	47.53	54.94	52.15	50.34	50.64	47.88	47.55	47.30	47.01	
22	47.26	47.76	47.38	47.75	54.45	53.49	50.47	50.14	47.87	47.52	47.37	46.99	
23	47.22	47.71	47.32	47.86	54.98	54.40	50.37	49.82	47.86	47.57	47.35	46.98	
24	47.22	47.66	47.28	47.86	55.32	55.00	50.18	49.50	47.86	47.56	47.43	46.98	
25	47.19	47.51	47.25	47.84	55.85	55.54	49.87	49.29	47.85	47.56	47.47	46.98	
26	47.18	47.47	47.20	48.16	55.94	54.70	49.69	49.18	47.84	47.54	47.67	46.98	
27	47.17	47.43	47.17	48.36	55.84	54.10	49.55	49.08	47.81	47.54	47.64	46.98	
28	47.17	47.40	47.13	48.43	55.65	52.88	49.33	48.93	47.80	47.53	47.61	46.98	
29	47.16	47.38	47.10	48.48	55.01	52.02	49.23	48.88	47.79	47.53	47.56	46.98	
30	47.15	47.35	47.08	48.47	54.16	51.37	49.15	49.06	47.78	47.53		46.98	
31		47.36		48.92	53.37		49.13		47.78	47.53		46.98	
Mean	47.23	47.55	47.32	47.54	54.15	54.29	51.08	49.62	48.14	47.65	47.40	47.15	
Max	47.47	48.28	47.45	48.92	55.97	55.99	55.61	55.13	48.98	47.79	47.67	47.55	55.99
Min	47.00	47.15	47.08	46.98	49.06	51.37	49.13	48.64	47.78	47.52	47.22	46.98	46.98

Annual Max Momentary Gage Height — 55.99 M (MSL), at 12.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation — 45.82 M (MSL), River Bed — 45.79 M (MSL)
Left Bank Elevation — 56.01 M (MSL)
Right Bank Elevation — 55.82 M (MSL), Drainage Area — Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.0	5.0	10.0	3.2	75.7	322.6	175.8	76.1	72.1	22.6	12.8	15.5	
2	4.4	5.0	9.7	3.0	99.0	654.2	163.6	72.6	54.2	22.3	12.5	14.6	
3	5.2	5.0	9.3	2.6	158.8	755.0	160.6	70.3	60.4	23.0	12.5	13.4	
4	5.2	5.0	8.8	2.0	358.4	755.0	158.2	66.2	53.4	23.7	12.2	11.6	
5	5.0	5.6	8.2	1.9	586.9	759.0	169.2	65.4	51.0	22.3	12.2	10.0	
6	5.4	6.5	9.0	1.8	414.7	759.0	179.0	65.4	47.4	21.2	11.3	9.0	
7	5.6	7.5	10.0	2.2	298.9	759.0	261.2	64.9	41.0	20.1	10.7	10.5	
8	6.0	7.7	9.5	3.6	359.4	707.4	568.4	61.8	44.2	19.8	9.7	9.7	
9	6.5	16.1	10.2	4.0	713.2	571.7	684.0	57.7	45.0	19.8	9.5	8.8	
10	6.0	16.4	10.2	5.0	755.0	568.4	636.0	58.6	44.6	20.5	10.0	7.2	
11	5.2	16.7	11.6	10.5	667.2	464.8	387.0	59.0	43.8	21.2	10.0	5.8	
12	5.2	16.7	12.5	10.0	433.2	384.9	325.3	59.5	35.0	22.3	9.7	4.8	
13	5.2	17.0	11.3	8.0	345.1	370.2	255.3	57.3	45.4	21.9	9.5	4.4	
14	10.2	18.1	10.5	7.7	350.8	435.7	204.4	57.3	40.2	21.9	9.5	4.4	
15	11.9	19.1	10.5	7.5	414.7	422.8	178.4	56.8	33.4	21.9	9.3	4.2	
16	12.2	42.2	10.0	7.5	499.8	485.8	157.0	73.9	40.2	20.9	8.0	3.8	
17	13.1	40.2	10.0	8.0	501.2	553.5	143.0	597.1	35.4	19.1	6.7	3.4	
18	10.7	36.6	10.0	8.8	547.0	499.8	138.6	473.9	33.8	17.4	6.5	3.2	
19	10.0	28.9	9.7	16.1	607.3	366.0	138.1	280.2	27.9	17.0	6.5	2.8	
20	9.5	24.7	10.2	16.7	595.4	303.2	135.9	201.7	26.1	17.0	8.8	2.4	
21	8.2	24.4	11.6	14.9	565.1	258.3	139.7	156.4	26.8	15.5	8.5	2.2	
22	7.5	22.6	10.5	22.3	490.0	375.5	146.9	128.7	26.4	14.6	10.2	1.9	
23	6.5	20.9	9.0	26.1	571.7	483.0	141.3	112.0	26.1	16.1	9.7	1.8	
24	6.5	19.1	8.0	26.1	630.6	575.0	130.9	96.0	26.1	15.8	11.9	1.8	
25	5.8	14.3	7.2	25.4	731.0	670.9	114.5	86.0	25.7	15.8	13.1	1.8	
26	5.6	13.1	6.0	37.4	749.0	526.5	105.5	81.1	25.4	15.2	19.4	1.8	
27	5.4	11.9	5.4	45.4	729.0	444.5	98.5	76.6	24.4	15.2	18.4	1.8	
28	5.4	11.0	4.6	48.2	691.8	317.2	87.9	69.9	24.0	14.9	17.4	1.8	
29	5.2	10.5	4.0	50.2	576.7	248.5	83.3	67.6	23.7	14.9	15.8	1.8	
30	5.0	9.7	3.6	49.8	452.0	203.1	79.8	75.7	23.3	14.9		1.8	
31		10.0		69.4	363.1		78.9		23.3	14.9		1.8	
Total	205.6	507.5	271.1	545.3	15331.7	15000.5	6426.2	3525.7	1149.7	583.7	322.3	169.8	44039.1 CMSDAY
Mean	6.9	16.4	9.0	17.6	494.6	500.0	207.3	117.5	37.1	18.8	11.1	5.5	120.3 CMS
Max	13.1	42.2	12.5	69.4	755.0	759.0	684.0	597.1	72.1	23.7	19.4	15.5	759.0 CMS
Min	2.0	5.0	3.6	1.8	75.7	203.1	78.9	56.8	23.3	14.6	6.5	1.8	1.8 CMS
Runoff	17.76	43.85	23.42	47.11	1324.66	1296.04	555.22	304.62	99.33	50.43	27.85	14.67	3804.98 MCM

Momentary Peak 759.00 CMS, at 55.99 M (MSL), at 12.00 Hours, on Sep 5, 1995

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

WATER YEAR 1995

NAN RIVER BASIN

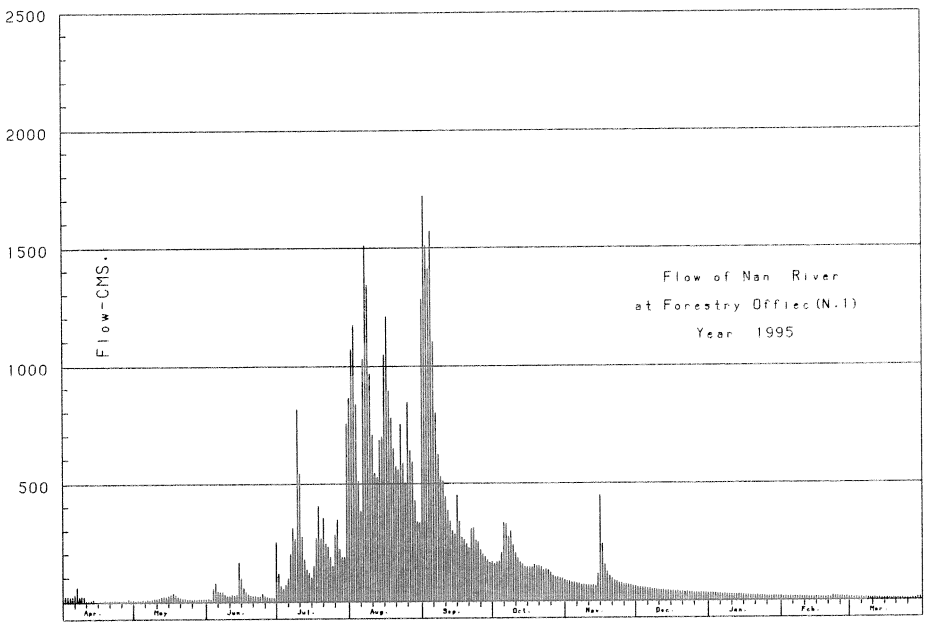
Nan River at Forestry Office, Nan (N.1)

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	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +199.18 m.(M.S.L.),records are channel flow only.
General Description	Records good. The weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 59 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	193.24	192.86	192.88	193.76	197.74	199.41	193.98	193.56	193.37	193.13	192.97	192.89	
2	193.22	192.84	192.86	193.45	198.03	198.90	194.01	193.55	193.36	193.14	192.97	192.88	
3	193.20	192.89	193.34	193.33	196.98	198.66	194.04	193.53	193.36	193.12	192.96	192.87	
4	193.20	192.91	193.53	193.48	195.69	199.05	194.23	193.52	193.34	193.12	192.95	192.86	
5	193.36	192.89	193.24	193.64	195.14	197.84	194.91	193.51	193.33	193.11	192.95	192.86	
6	193.75	192.92	193.23	194.21	197.61	196.85	194.88	193.49	193.32	193.10	192.95	192.85	
7	193.21	192.94	193.22	194.81	198.91	196.17	194.61	193.46	193.30	193.10	192.96	192.85	
8	193.22	192.94	193.14	194.56	198.48	195.77	194.72	193.45	193.29	193.09	192.95	192.85	
9	193.22	193.06	193.05	196.91	197.41	195.70	194.43	193.44	193.28	193.08	192.95	192.84	
10	192.85	193.04	193.07	195.84	196.50	195.40	194.23	193.43	193.26	193.08	192.94	192.83	
11	192.85	193.05	193.11	194.61	195.84	195.14	194.11	193.43	193.26	193.07	192.93	192.82	
12	192.85	193.21	193.09	194.09	195.76	194.93	194.02	193.43	193.26	193.07	192.92	192.80	
13	193.00	193.20	193.11	193.85	196.42	194.74	193.96	193.42	193.24	193.07	192.92	192.80	
14	192.67	193.21	194.03	193.77	196.47	194.66	193.91	193.73	193.24	193.07	192.92	192.79	
15	192.67	193.25	193.64	193.67	197.66	195.44	193.89	195.43	193.23	193.06	192.92	192.79	
16	192.67	193.31	193.38	193.93	198.13	194.94	193.89	194.45	193.22	193.05	192.92	192.79	
17	192.77	193.19	193.22	194.59	197.17	194.60	193.90	193.96	193.21	193.04	192.91	192.78	
18	192.87	193.11	193.15	195.23	196.77	194.54	193.95	193.78	193.22	193.04	192.90	192.78	
19	192.87	193.03	193.07	194.58	196.28	194.46	193.93	193.69	193.20	193.03	192.90	192.77	
20	192.86	192.97	193.07	195.01	195.95	194.35	193.92	193.62	193.19	193.03	192.90	192.77	
21	192.85	192.93	193.05	194.46	195.90	194.77	193.89	193.58	193.19	193.03	192.91	192.77	
22	192.84	192.90	193.04	194.40	196.68	194.80	193.83	193.55	193.19	193.03	193.00	192.76	
23	192.84	192.87	193.04	194.14	196.00	194.54	193.84	193.52	193.18	193.02	193.00	192.76	
24	192.82	192.85	193.16	193.93	195.66	194.49	193.83	193.50	193.17	193.01	192.97	192.75	
25	192.81	192.84	193.05	194.66	197.00	194.31	193.76	193.47	193.16	193.00	192.96	192.75	
26	192.83	192.84	193.01	194.97	196.24	194.20	193.70	193.46	193.16	193.00	192.94	192.74	
27	192.85	192.84	192.98	194.34	196.03	194.15	193.66	193.45	193.15	193.00	192.93	192.74	
28	192.97	192.84	192.96	194.13	195.34	194.06	193.65	193.43	193.15	192.99	192.93	192.77	
29	192.89	192.86	192.96	194.14	194.93	194.01	193.64	193.41	193.15	192.99	192.91	192.85	
30	192.91	192.86	194.50	196.68	194.91	194.02	193.62	193.40	193.14	192.98		192.92	
31		192.88		197.06	198.32		193.60		193.14	192.98		192.88	
Mean	192.97	192.98	193.21	194.52	196.64	195.50	194.02	193.62	193.23	193.05	192.94	192.81	
Max	193.75	193.31	194.50	197.06	198.91	199.41	194.91	195.43	193.37	193.14	193.00	192.92	199.41
Min	192.67	192.84	192.86	193.33	194.91	194.01	193.60	193.40	193.14	192.98	192.90	192.74	192.67

Annual Max Momentary Gage Height 199.57 M (MSL), at 24.00 Hours, on Aug 31, 1995
Zero Gage at Bottom Elevation 192.17 M (MSL), River Bed 190.06 M (MSL)
Left Bank Elevation 199.17 M (MSL)
Right Bank Elevation 199.37 M (MSL), Drainage Area 4609 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.8	7.4	13.2	120.8	1072.8	1724.2	160.4	85.6	59.4	32.7	18.2	13.6	
2	24.4	6.9	12.4	69.5	1173.4	1511.0	165.8	84.0	58.2	33.7	18.2	13.2	
3	23.0	8.2	55.8	54.6	840.0	1414.0	171.2	80.8	58.2	31.6	17.6	12.8	
4	23.0	9.0	80.8	73.4	511.6	1573.0	205.4	79.2	55.8	31.6	17.0	12.4	
5	34.2	8.2	44.4	99.2	386.8	1105.2	336.2	77.6	54.6	30.5	17.0	12.4	
6	64.5	9.4	43.3	201.8	1031.2	802.0	330.0	74.7	53.4	29.5	17.0	12.0	
7	23.7	10.3	42.2	316.0	1515.1	626.8	276.0	70.8	51.0	29.5	17.6	12.0	
8	24.4	10.3	33.7	266.0	1344.4	530.8	298.0	69.5	49.9	28.5	17.0	12.0	
9	24.4	15.9	24.7	819.0	969.0	514.0	241.4	68.2	48.8	27.6	17.0	11.6	
10	7.2	15.0	26.7	547.6	708.0	444.0	205.4	66.9	46.6	27.6	16.4	11.2	
11	7.2	15.5	30.5	276.0	547.6	386.8	183.8	66.9	46.6	26.7	15.8	10.8	
12	7.2	23.7	28.5	180.2	528.4	340.6	167.6	66.9	46.6	26.7	15.2	10.0	
13	13.0	23.0	30.5	137.0	688.0	302.0	156.8	65.6	44.4	26.7	15.2	10.0	
14	3.0	23.7	169.4	122.6	700.5	286.0	147.8	115.4	44.4	26.7	15.2	9.7	
15	3.0	26.5	99.2	104.6	1047.2	453.2	144.2	450.9	43.3	25.7	15.2	9.7	
16	3.0	30.7	60.6	151.4	1211.4	342.8	144.2	245.0	42.2	24.7	15.2	9.7	
17	5.1	39.0	42.2	272.0	897.0	274.0	146.0	156.8	41.1	23.8	14.6	9.4	
18	7.7	30.5	34.7	406.6	779.6	262.0	155.0	124.4	42.2	23.8	14.0	9.4	
19	7.7	22.8	26.7	270.0	653.2	246.8	151.4	108.2	40.0	22.8	14.0	9.0	
20	7.4	18.2	26.7	358.2	574.0	227.0	149.6	95.6	39.0	22.8	14.0	9.0	
21	7.2	15.8	24.7	246.8	562.0	308.0	144.2	88.8	39.0	22.8	14.6	9.0	
22	6.9	14.0	23.8	236.0	754.8	314.0	133.4	84.0	39.0	22.8	20.0	8.7	
23	6.9	12.8	23.8	189.2	586.0	262.0	135.2	79.2	37.9	21.9	20.0	8.7	
24	6.3	12.0	35.8	151.4	504.4	252.2	133.4	76.0	36.8	20.9	18.2	8.4	
25	6.1	11.6	24.7	286.0	846.0	219.8	120.8	72.1	35.8	20.0	17.6	8.4	
26	6.6	11.6	20.9	349.4	643.6	200.0	110.0	70.8	35.8	20.0	16.4	8.1	
27	7.2	11.6	18.8	225.2	593.2	191.0	102.8	69.5	34.7	20.0	15.8	8.1	
28	11.7	11.6	17.6	187.4	430.8	174.8	101.0	66.9	34.7	19.4	15.8	9.0	
29	8.2	12.4	17.6	189.2	340.6	165.8	99.2	64.3	34.7	19.4	14.6	12.0	
30	9.0	12.4	254.0	754.8	336.2	167.6	95.6	63.0	33.7	18.8		15.2	
31		13.2		864.0	1283.6		92.0		33.7	18.8		13.2	
Total	415.0	493.2	1387.9	8525.9	24060.4	15621.4	5203.8	2987.6	1361.5	778.0	474.4	328.7	61637.8 CMSDAY
Mean	13.8	15.9	46.3	275.0	776.1	520.7	167.9	99.6	43.9	25.1	16.4	10.6	168.4 CMS
Max	64.5	39.0	254.0	864.0	1515.1	1724.2	336.2	450.9	59.4	33.7	20.0	15.2	1724.2 CMS
Min	3.0	6.9	12.4	54.6	336.2	165.8	92.0	63.0	33.7	18.8	14.0	8.1	3.0 CMS
Runoff	35.86	42.61	119.91	736.64	2078.82	1349.69	449.61	258.13	117.63	67.22	40.99	28.40	5325.51 MCM

Momentary Peak 1791.40 CMS, at 199.57 M (MSL), at 24.00 Hours, on Aug 31, 1995

Runoff Yield 36.54 Liters/Second/Square KM, Momentary Peak Yield 388.674 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

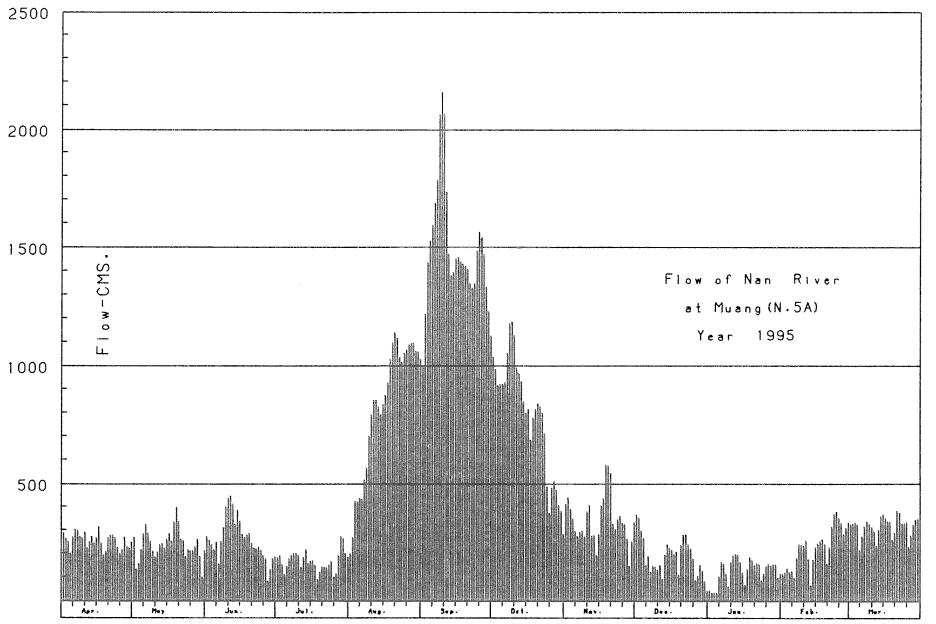
Nan River at Muang, Phitsanulok (N.5A)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +44.39 m.(M.S.L.) and is included.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 30 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.09	37.96	37.95	37.10	37.25	42.87	43.10	39.09	38.74	35.28	36.33	38.44	
2	37.91	36.55	37.84	37.16	37.94	44.08	42.80	39.29	38.66	35.18	36.38	38.43	
3	37.76	36.83	37.64	36.74	39.17	44.85	42.42	38.94	38.17	35.10	36.57	38.49	
4	37.30	37.47	37.46	36.29	39.18	45.03	42.43	38.59	37.92	35.14	36.42	38.40	
5	37.97	38.09	37.76	36.70	39.29	45.11	42.45	38.16	36.72	36.19	36.44	37.45	
6	38.22	38.41	36.80	37.02	39.23	45.15	42.48	37.99	37.13	36.88	36.11	37.99	
7	38.21	38.08	37.76	37.21	39.87	45.19	43.21	38.14	36.44	36.82	37.09	38.33	
8	37.95	37.79	38.32	37.25	40.20	45.29	43.88	38.16	36.71	36.30	37.69	38.54	
9	37.90	37.39	38.99	37.31	41.11	45.32	43.93	37.95	36.65	35.56	37.64	38.41	
10	38.13	37.14	39.27	37.17	41.66	45.29	43.61	38.85	36.50	36.89	37.63	38.34	
11	37.50	37.32	39.37	36.66	42.03	45.17	42.84	39.05	36.74	37.17	37.80	38.17	
12	37.78	37.64	39.08	37.09	42.05	44.92	42.71	37.98	36.01	37.26	37.04	37.59	
13	37.96	37.71	38.42	37.47	41.86	44.71	42.52	38.02	37.23	37.20	35.68	38.21	
14	37.73	37.49	38.91	36.80	41.68	44.74	41.99	37.20	37.67	36.90	36.98	38.71	
15	37.91	37.84	38.54	36.95	41.95	44.88	41.72	38.04	37.51	36.38	37.54	38.75	
16	38.32	38.09	38.07	36.92	42.15	44.90	41.80	39.05	37.42	35.69	37.70	38.62	
17	37.73	37.77	37.92	36.75	42.49	44.86	41.00	39.27	37.24	36.53	37.78	38.53	
18	37.19	38.52	38.04	36.01	43.05	44.83	41.59	40.31	37.33	37.12	37.85	38.50	
19	37.37	39.01	38.08	36.40	43.46	44.82	41.80	40.28	36.28	36.96	37.68	37.85	
20	37.94	38.50	37.69	36.63	43.69	44.78	41.96	40.06	37.65	36.75	36.81	38.09	
21	38.00	37.85	37.53	36.66	43.56	44.61	41.87	38.44	38.02	36.82	37.52	38.86	
22	38.04	37.82	37.48	36.60	43.11	44.55	41.72	38.26	38.06	36.80	38.34	38.83	
23	37.92	37.15	37.53	36.76	42.97	44.61	41.16	38.60	37.65	35.97	38.76	38.47	
24	37.56	37.44	37.43	36.89	43.21	44.96	39.66	38.69	37.50	36.30	38.86	38.44	
25	37.25	37.37	37.17	36.17	43.27	45.09	38.81	38.48	37.06	36.71	38.66	38.51	
26	37.43	37.37	37.03	36.31	43.42	45.06	39.60	38.41	35.98	36.77	38.45	37.57	
27	37.96	37.56	35.92	37.19	43.45	44.92	39.83	37.89	36.17	36.73	38.07	38.00	
28	37.59	37.87	36.52	37.99	43.44	44.57	39.54	36.67	36.73	36.76	38.28	38.42	
29	37.50	37.13	37.05	37.88	43.25	44.14	39.05	37.76	36.49	36.78	38.47	38.56	
30	37.73	36.15	37.10	37.26	43.22	43.62	38.87	38.50	35.87	36.12		38.61	
31		37.39		37.13	43.05		38.06		35.30	36.30		38.54	
Mean	37.79	37.64	37.82	36.92	41.78	44.76	41.56	38.54	37.08	36.43	37.47	38.34	
Max	38.32	39.01	39.37	37.99	43.69	45.32	43.93	40.31	38.74	37.26	38.86	38.86	45.32
Min	37.19	36.15	35.92	36.01	37.25	42.87	38.06	36.67	35.30	35.10	35.68	37.45	35.10

Annual Max Momentary Gage Height 45.33 M (MSL), at 18.00 Hours, on Sep 9, 1995
Zero Gage at Bottom Elevation 34.50 M (MSL), River Bed 33.02 M (MSL)
Left Bank Elevation 45.10 M (MSL)
Right Bank Elevation 44.39 M (MSL), Drainage Area 25286 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	289.3	274.6	273.5	186.5	200.7	997.2	1037.5	413.7	368.2	44.8	117.8	330.0	
2	269.1	136.5	261.4	192.2	272.4	1219.2	985.0	439.7	357.8	39.0	121.5	328.7	
3	252.6	161.7	239.4	153.6	424.1	1439.5	919.4	394.2	298.5	35.0	138.3	336.3	
4	205.5	222.0	221.0	114.7	425.4	1526.9	921.1	348.8	270.2	37.0	124.8	325.0	
5	275.7	289.3	252.6	150.0	439.7	1597.2	924.5	297.4	151.8	107.2	126.6	220.0	
6	304.3	326.2	159.0	178.9	431.9	1691.8	929.6	277.9	189.4	166.2	101.3	277.9	
7	303.1	288.2	252.6	196.9	518.1	1786.3	1056.7	295.1	126.6	160.8	185.5	317.0	
8	273.5	255.9	315.8	200.7	566.0	2067.0	1178.6	297.4	150.9	115.5	244.9	342.5	
9	268.0	214.0	400.7	206.5	705.1	2159.4	1188.4	273.5	145.5	61.6	239.4	326.2	
10	294.0	190.3	437.1	193.1	792.9	2067.0	1127.9	382.5	132.0	167.1	238.3	318.1	
11	225.0	207.4	450.1	146.4	853.9	1739.0	992.0	408.5	153.6	193.1	257.0	298.5	
12	254.8	239.4	412.4	185.5	857.2	1471.0	969.3	276.8	93.7	201.7	180.8	234.0	
13	274.6	247.1	327.5	222.0	825.9	1384.6	936.4	281.3	198.8	196.0	69.6	303.1	
14	249.3	224.0	390.3	159.0	796.2	1395.4	847.4	196.0	242.7	168.0	175.2	364.3	
15	269.1	261.4	342.5	172.5	840.8	1453.0	802.8	283.6	226.0	121.5	229.0	369.5	
16	315.8	289.3	287.0	169.8	873.8	1462.0	816.0	408.5	217.0	70.3	246.0	352.6	
17	249.3	253.7	270.2	154.5	931.3	1444.0	688.0	437.1	199.8	134.7	254.8	341.2	
18	195.0	340.0	283.6	93.7	1028.7	1430.5	781.4	582.5	208.4	188.4	262.5	337.5	
19	212.1	403.3	288.2	123.0	1100.8	1426.0	816.0	578.0	114.0	173.4	243.8	262.5	
20	272.4	337.5	244.9	143.7	1142.7	1409.8	842.4	545.7	240.5	154.5	159.9	289.3	
21	279.0	262.5	228.0	146.4	1118.8	1348.6	827.5	330.0	281.3	160.8	227.0	383.8	
22	283.6	259.2	223.0	141.0	1039.3	1332.0	802.8	308.9	285.9	159.0	318.1	379.9	
23	270.2	191.3	228.0	155.4	1014.8	1348.6	712.8	350.0	240.5	90.8	370.8	333.8	
24	231.0	219.0	218.0	167.1	1056.7	1489.0	489.1	361.7	225.0	115.5	383.8	330.0	
25	200.7	212.1	193.1	105.7	1067.2	1566.9	377.3	335.0	182.7	150.9	357.8	338.7	
26	218.0	212.1	179.8	116.3	1093.6	1546.9	481.0	326.2	91.5	156.3	331.2	232.0	
27	274.6	231.0	87.0	195.0	1099.0	1471.0	512.4	266.9	105.7	152.7	287.0	279.0	
28	234.0	264.7	133.8	277.9	1097.2	1337.2	472.9	147.3	152.7	155.4	311.2	327.5	
29	225.0	189.4	181.7	265.8	1063.7	1232.1	408.5	252.6	131.1	157.2	333.8	345.0	
30	249.3	104.3	186.5	201.7	1058.5	1129.7	385.1	337.5	83.2	102.0		351.3	
31		214.0		189.4	1028.7		285.9		46.0	115.5		342.5	
Total	7717.9	7521.4	7968.7	5304.9	25765.1	44968.8	24515.7	10434.3	5911.0	4051.9	6637.7	9917.7	160715.1 CMSDAY
Mean	257.3	242.6	265.6	171.1	831.1	1499.0	790.8	347.8	190.7	130.7	228.9	319.9	439.1 CMS
Max	315.8	403.3	450.1	277.9	1142.7	2159.4	1188.4	582.5	368.2	201.7	383.8	383.8	2159.4 CMS
Min	195.0	104.3	87.0	93.7	200.7	997.2	285.9	147.3	46.0	35.0	69.6	220.0	35.0 CMS
Runoff	666.83	649.85	688.50	458.34	2226.10	3885.30	2118.16	901.52	510.71	350.08	573.50	856.89	13885.79 MCM

Momentary Peak 2191.36 CMS, at 45.33 M (MSL), at 18.00 Hours, on Sep 9, 1995

Runoff Yield 17.37 Liters/Second/Square KM, Momentary Peak Yield 86.663 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

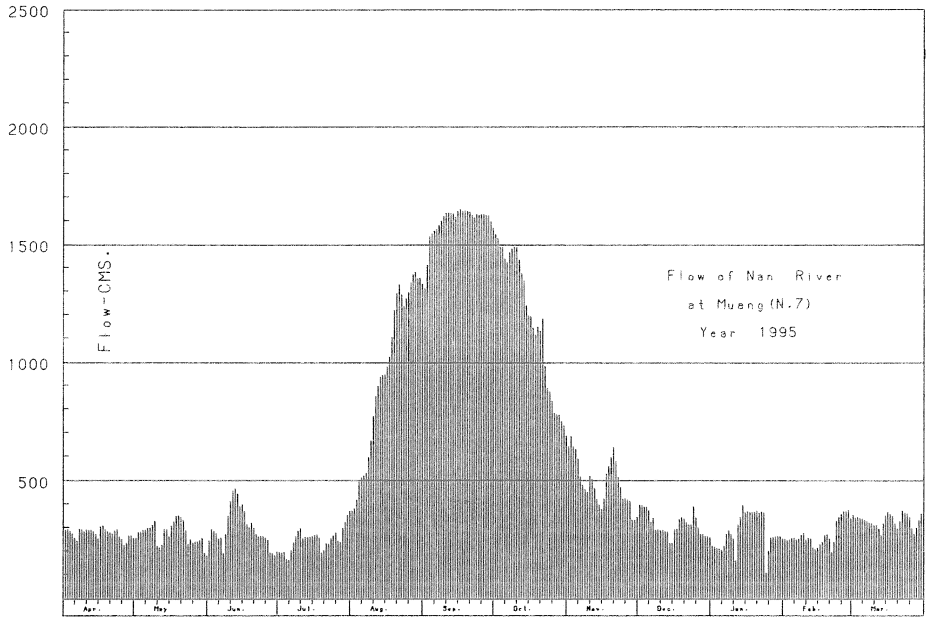
Nan River at Muang, Phichit (N.7)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 36.96 m. (M.S.L.), records are channel flow only.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 17 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.00	29.65	29.51	29.01	30.76	36.60	37.11	32.98	30.99	29.31	29.60	30.59	
2	30.00	29.87	30.00	28.95	30.83	36.83	37.07	33.33	30.96	29.24	29.57	30.50	
3	29.96	29.89	29.97	29.02	31.17	37.09	37.00	33.00	30.92	29.20	29.57	30.50	
4	29.82	29.97	29.82	28.64	31.86	37.11	36.99	32.89	30.90	29.15	29.65	30.49	
5	29.66	30.00	29.62	28.62	31.97	37.14	36.89	32.61	30.79	29.11	29.65	30.44	
6	29.50	30.05	29.64	29.07	32.00	37.15	36.85	32.00	30.33	29.31	29.59	30.40	
7	30.05	30.08	28.97	29.46	32.12	37.19	36.95	31.69	30.46	29.81	29.60	30.34	
8	30.00	30.17	29.81	29.70	32.64	37.22	36.98	31.56	30.00	29.98	29.79	30.30	
9	29.94	30.36	30.54	29.96	33.17	37.26	37.00	31.45	30.00	29.80	29.85	30.25	
10	29.99	29.30	31.10	30.04	33.93	37.28	36.99	32.00	29.98	29.64	29.58	30.20	
11	30.00	29.20	31.48	29.63	34.57	37.29	36.88	31.90	29.98	28.58	29.64	30.18	
12	30.00	29.35	31.59	29.67	34.86	37.28	36.75	31.60	29.94	30.22	29.64	30.05	
13	29.92	30.01	31.40	29.68	35.13	37.28	36.67	31.18	29.90	30.51	29.20	29.77	
14	29.82	30.02	30.90	29.68	35.16	37.25	36.41	30.98	29.43	30.98	29.15	30.24	
15	29.61	29.70	31.01	29.73	35.19	37.30	36.27	30.83	29.41	30.70	29.19	30.60	
16	30.12	30.14	30.75	29.76	35.38	37.31	36.26	31.22	30.00	30.74	29.36	30.70	
17	30.18	30.34	30.19	29.79	35.58	37.30	36.10	32.08	30.05	30.71	29.49	30.65	
18	30.00	30.54	30.10	29.64	35.95	37.30	36.00	32.32	30.44	30.70	29.76	30.55	
19	29.93	30.58	30.26	28.98	36.34	37.30	36.11	32.64	30.49	30.73	29.79	30.24	
20	29.90	30.48	30.05	29.07	36.54	37.29	36.05	32.98	30.46	30.75	29.64	30.05	
21	29.81	30.40	29.82	29.39	36.64	37.27	36.25	32.50	30.29	30.67	29.01	30.36	
22	29.97	29.98	29.71	29.40	36.53	37.25	35.39	31.99	30.22	30.74	29.46	30.75	
23	30.00	29.35	29.72	29.64	36.40	37.27	34.80	31.60	30.19	30.69	30.39	30.70	
24	29.71	29.57	29.72	29.74	36.48	37.27	34.71	31.20	30.93	27.97	30.50	30.64	
25	29.58	29.44	29.64	29.88	36.55	37.27	34.41	31.20	30.48	29.08	30.65	30.52	
26	29.30	29.47	29.54	29.50	36.66	37.27	34.05	31.15	30.10	29.65	30.73	30.04	
27	29.44	29.50	28.99	29.47	36.74	37.27	34.00	31.13	29.83	29.70	30.75	29.82	
28	29.75	29.53	28.93	30.05	36.76	37.26	33.97	30.41	29.79	29.70	30.78	30.07	
29	29.73	29.65	28.86	30.32	36.70	37.22	33.80	30.38	29.74	29.75	30.48	30.40	
30	29.62	28.98	29.01	30.57	36.70	37.16	33.64	30.51	29.70	29.70		30.64	
31		28.82		30.73	36.64		33.32		29.66	29.64		30.77	
Mean	29.84	29.82	30.02	29.57	34.77	37.21	35.86	31.78	30.21	29.89	29.80	30.38	
Max	30.18	30.58	31.59	30.73	36.76	37.31	37.11	33.33	30.99	30.98	30.78	30.77	37.31
Min	29.30	28.82	28.86	28.62	30.76	36.60	33.32	30.38	29.41	27.97	29.01	29.77	27.97

Annual Max Momentary Gage Height 37.31 M (MSL), at 6.00 Hours, on Sep 16, 1995
Zero Gage at Bottom Elevation 26.00 M (MSL), River Bed 24.99 M (MSL)
Left Bank Elevation 36.96 M (MSL)
Right Bank Elevation 37.31 M (MSL), Drainage Area 29153 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	293.0	258.0	244.4	197.9	373.6	1316.0	1545.9	644.4	399.9	225.4	253.0	354.9	
2	293.0	280.0	293.0	192.5	381.5	1413.8	1526.3	690.6	396.4	218.8	250.1	345.5	
3	289.0	282.0	290.0	198.8	420.6	1536.1	1492.0	647.0	391.8	215.0	250.1	345.5	
4	275.0	290.0	275.0	165.4	502.5	1545.9	1487.4	632.7	389.5	210.5	258.0	344.4	
5	259.0	293.0	255.0	163.7	516.3	1560.6	1441.4	596.3	376.9	206.9	258.0	339.2	
6	243.5	298.2	257.0	203.3	520.0	1565.5	1423.0	520.0	327.6	225.4	252.0	335.0	
7	298.2	301.4	194.3	239.7	535.0	1585.1	1469.0	481.8	341.3	274.0	253.0	328.7	
8	293.0	310.8	274.0	263.0	600.2	1600.7	1482.8	466.2	293.0	291.0	272.0	324.5	
9	287.0	330.8	349.7	289.0	669.1	1622.1	1492.0	453.0	293.0	273.0	278.0	319.2	
10	292.0	224.5	412.5	297.2	771.5	1632.8	1487.4	520.0	291.0	257.0	251.1	314.0	
11	293.0	215.0	456.6	256.0	858.8	1638.1	1436.8	507.5	291.0	160.3	257.0	311.9	
12	293.0	229.2	469.8	260.0	899.4	1632.8	1379.0	471.0	287.0	316.1	257.0	298.2	
13	285.0	294.1	447.0	261.0	940.5	1632.8	1345.4	421.7	283.0	346.5	215.0	270.0	
14	275.0	295.1	389.5	261.0	945.4	1616.7	1243.8	398.7	236.8	398.7	210.5	318.2	
15	254.0	263.0	402.2	266.0	950.3	1643.5	1198.4	381.5	234.9	367.0	214.1	356.0	
16	305.6	307.7	372.5	269.0	984.4	1648.9	1195.2	426.3	293.0	371.4	230.2	367.0	
17	311.9	328.7	313.0	272.0	1024.0	1643.5	1148.0	530.0	298.2	368.1	242.5	361.5	
18	293.0	349.7	303.5	257.0	1108.0	1643.5	1120.0	560.0	339.2	367.0	269.0	350.7	
19	286.0	353.9	320.3	195.2	1220.8	1643.5	1150.8	600.2	344.4	370.3	272.0	318.2	
20	283.0	343.4	298.2	203.3	1293.2	1638.1	1134.0	644.4	341.3	372.5	257.0	298.2	
21	274.0	335.0	275.0	233.0	1332.8	1627.4	1192.0	582.5	323.5	363.7	197.9	330.8	
22	290.0	291.0	264.0	234.0	1289.4	1616.7	986.2	518.8	316.1	371.4	239.7	372.5	
23	293.0	229.2	265.0	257.0	1240.0	1627.4	891.0	471.0	313.0	365.9	333.9	367.0	
24	264.0	250.1	265.0	267.0	1270.4	1627.4	878.4	424.0	393.0	110.7	345.5	360.4	
25	251.1	237.8	257.0	281.0	1297.0	1627.4	836.4	424.0	343.4	204.2	361.5	347.6	
26	224.5	240.6	247.3	243.5	1341.2	1627.4	787.7	418.3	303.5	258.0	370.3	297.2	
27	237.8	243.5	196.1	240.6	1374.8	1627.4	781.0	415.9	276.0	263.0	372.5	275.0	
28	268.0	246.4	190.7	298.2	1383.2	1622.1	777.0	336.0	272.0	263.0	375.8	300.3	
29	266.0	258.0	184.4	326.6	1358.0	1600.7	754.0	332.9	267.0	268.0	343.4	335.0	
30	255.0	195.2	197.9	352.8	1358.0	1570.4	732.4	346.5	263.0	263.0		360.4	
31		180.8		370.3	1332.8		689.2		259.0	257.0		374.7	
Total	8325.6	8556.1	8959.9	7815.0	30092.7	47934.3	36503.9	14863.2	9778.7	8822.8	7940.1	10321.7	199914.0 CMSDAY
Mean	277.5	276.0	298.7	252.1	970.7	1597.8	1177.5	495.4	315.4	284.6	273.8	333.0	546.2 CMS
Max	311.9	353.9	469.8	370.3	1383.2	1648.9	1545.9	690.6	399.9	398.7	375.8	374.7	1648.9 CMS
Min	224.5	180.8	184.4	163.7	373.6	1316.0	689.2	332.9	234.9	110.7	197.9	270.0	110.7 CMS
Runoff	719.33	739.25	774.14	675.22	2600.01	4141.52	3153.94	1284.18	844.88	762.29	686.02	891.79	17272.57 MCM

Momentary Peak 1648.85 CMS, at 37.31 M (MSL), at 6.00 Hours, on Sep 16, 1995

Runoff Yield 18.74 Liters/Second/Square KM, Momentary Peak Yield 56.559 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

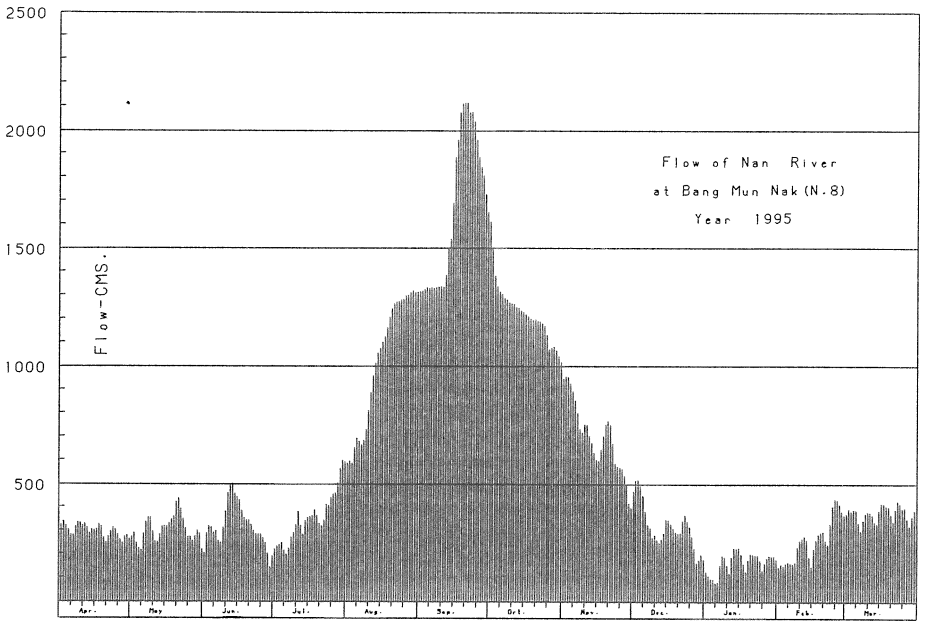
Nan River at Bang Mun Nak, Phichit (N.8)

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	3-time daily readings at 06.00, 12.00, and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.
Period of Available Gage Records	1951 to date.
Rating Operation	
Period of Rating	1965 - 1967, 1973 - 1979, 1991 to date.
Rated by Float	-
Rated by Current Meter	1951 - 1980, 1991 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +30.51 m.(M.S.L.) and is included.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 34 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.24	23.76	23.04	23.20	26.54	30.54	30.67	29.01	25.52	22.09	22.35	24.70	
2	24.41	23.94	23.90	23.35	26.60	30.54	30.64	29.05	25.90	21.79	22.45	24.86	
3	24.21	23.52	24.21	23.41	26.54	30.56	30.61	29.05	25.94	21.62	22.41	24.79	
4	24.08	23.25	24.14	23.49	27.04	30.57	30.58	28.88	25.71	21.55	22.51	24.83	
5	23.83	23.19	23.94	23.14	27.34	30.57	30.54	28.69	25.36	21.35	22.57	24.83	
6	23.85	23.88	23.99	22.98	27.24	30.57	30.51	28.43	24.77	21.37	22.55	24.33	
7	24.21	24.38	23.62	23.26	27.15	30.57	30.48	28.10	24.27	22.41	22.52	24.03	
8	24.35	24.57	23.50	23.75	27.29	30.57	30.46	27.62	24.12	22.94	22.56	24.42	
9	24.35	24.54	24.15	23.93	27.62	30.58	30.44	27.53	23.74	22.84	23.34	24.71	
10	24.22	24.00	24.78	24.26	28.17	30.58	30.43	27.75	23.84	22.44	23.63	24.77	
11	24.32	23.55	25.46	24.77	28.66	30.58	30.42	27.76	23.66	21.98	23.69	24.73	
12	24.13	23.56	25.71	24.22	29.07	30.61	30.40	27.41	23.50	22.83	23.81	24.65	
13	23.92	23.85	25.82	23.88	29.38	30.64	30.38	27.21	23.68	23.29	23.64	24.37	
14	24.05	24.20	25.45	24.41	29.60	30.65	30.35	26.88	23.91	23.24	22.85	24.31	
15	24.05	24.19	25.30	24.54	29.71	30.69	30.32	26.64	24.47	23.27	22.34	24.80	
16	24.07	24.18	25.19	24.59	29.82	30.74	30.29	26.62	24.44	23.00	23.23	25.06	
17	24.29	24.33	24.82	24.61	29.93	30.76	30.27	26.98	24.30	22.49	23.65	25.07	
18	24.18	24.46	24.52	24.84	30.08	30.79	30.23	27.42	24.10	22.09	23.86	24.97	
19	23.75	24.60	24.45	24.62	30.26	30.80	30.22	27.77	23.97	22.67	23.96	24.94	
20	23.51	25.12	24.43	24.30	30.37	30.80	30.22	27.86	23.89	23.03	23.97	24.68	
21	23.77	25.27	24.27	24.22	30.43	30.80	30.21	27.76	23.94	22.97	23.61	24.38	
22	24.00	24.87	24.01	24.45	30.44	30.79	30.19	27.17	24.41	22.93	23.45	24.87	
23	24.14	24.51	23.89	25.03	30.45	30.79	30.17	26.53	24.65	22.95	24.32	25.17	
24	24.08	24.10	23.86	25.00	30.46	30.78	30.11	26.41	24.40	22.69	24.95	25.05	
25	23.85	23.76	23.87	25.30	30.47	30.76	29.96	26.38	24.18	22.16	25.25	24.89	
26	23.66	23.78	23.73	25.41	30.50	30.74	29.67	26.32	23.78	22.51	25.19	24.89	
27	23.49	23.62	23.49	25.46	30.50	30.73	29.71	26.09	23.24	22.82	25.05	24.51	
28	23.79	23.77	23.01	25.82	30.53	30.72	29.72	25.75	22.52	22.89	24.76	24.22	
29	23.82	24.03	22.33	26.35	30.54	30.70	29.66	25.07	22.72	22.89	24.62	24.57	
30	23.69	23.89	22.86	26.62	30.53	30.68	29.52	24.91	22.97	22.88		24.82	
31		23.19		26.57	30.53		29.39		22.71	22.72		25.03	
Mean	24.01	24.06	24.19	24.51	29.15	30.67	30.22	27.30	24.15	22.54	23.55	24.72	
Max	24.41	25.27	25.82	26.62	30.54	30.80	30.67	29.05	25.94	23.29	25.25	25.17	30.80
Min	23.49	23.19	22.33	22.98	26.54	30.54	29.39	24.91	22.52	21.35	22.34	24.03	21.35

Annual Max Momentary Gage Height 30.80 M (MSL), at 18.00 Hours, on Sep 19, 1995
Zero Gage at Bottom Elevation 19.80 M (MSL), River Bed 17.33 M (MSL)
Left Bank Elevation 30.51 M (MSL)
Right Bank Elevation 30.67 M (MSL), Drainage Area 32878 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	325.2	275.0	207.6	222.0	590.8	1320.8	1617.5	949.8	469.8	130.3	150.0	375.5	
2	343.1	293.7	289.5	235.5	598.0	1320.8	1502.4	957.0	514.0	110.4	158.0	393.9	
3	322.0	251.4	322.0	241.0	590.8	1330.2	1387.4	957.0	518.8	99.3	154.8	385.9	
4	308.4	226.5	314.7	248.5	654.4	1334.9	1339.6	927.6	491.6	94.7	162.8	390.4	
5	282.2	221.1	293.7	216.6	694.9	1334.9	1320.8	896.4	451.4	81.7	167.6	390.4	
6	284.3	287.4	299.0	202.2	681.4	1334.9	1306.7	854.8	383.6	83.1	166.0	334.7	
7	322.0	339.9	261.0	227.4	669.2	1334.9	1292.6	803.5	328.4	154.8	163.6	303.2	
8	336.8	360.7	249.5	274.0	688.2	1334.9	1283.2	733.9	312.6	198.6	166.8	344.2	
9	336.8	357.4	315.8	292.7	733.9	1339.6	1273.8	721.2	273.0	189.6	234.6	376.6	
10	323.1	300.0	384.7	327.3	813.6	1339.6	1269.1	752.7	283.2	157.2	262.0	383.6	
11	333.6	254.2	462.9	383.6	891.6	1339.6	1264.4	754.2	265.0	122.7	268.0	378.9	
12	313.6	255.2	491.6	323.1	960.6	1387.4	1255.0	704.4	249.5	188.7	280.1	369.7	
13	291.6	284.3	504.4	287.4	1016.4	1502.4	1248.9	677.3	267.0	230.1	263.0	338.9	
14	305.2	321.0	461.8	343.1	1057.0	1540.7	1239.8	633.4	290.6	225.6	190.5	332.5	
15	305.2	320.0	444.5	357.4	1080.1	1694.2	1230.6	603.0	349.7	228.3	149.2	387.0	
16	307.4	318.9	431.9	362.9	1103.6	1885.9	1221.5	600.5	346.4	204.0	224.7	416.9	
17	330.5	334.7	389.3	365.2	1128.9	1962.6	1215.4	646.4	331.5	161.2	264.0	418.0	
18	318.9	348.6	355.2	391.6	1164.6	2077.7	1203.1	705.8	310.5	130.3	285.3	406.5	
19	274.0	364.0	347.5	366.3	1212.3	2116.0	1200.1	755.7	296.8	175.6	295.8	403.1	
20	250.5	423.8	345.3	331.5	1245.9	2116.0	1200.1	768.7	288.5	206.7	296.8	373.2	
21	276.0	441.1	328.4	323.1	1269.1	2116.0	1197.0	754.2	293.7	201.3	260.0	339.9	
22	300.0	395.1	301.1	347.5	1273.8	2077.7	1191.5	672.0	343.1	197.7	244.8	395.1	
23	314.7	354.1	288.5	413.5	1278.5	2077.7	1186.6	589.6	369.7	199.5	333.6	429.6	
24	308.4	310.5	285.3	410.0	1283.2	2039.3	1172.0	575.2	342.0	177.2	404.3	415.7	
25	284.3	275.0	286.4	444.5	1287.9	1962.6	1135.8	571.6	318.9	135.2	438.8	397.3	
26	265.0	277.0	272.0	457.2	1302.0	1885.9	1071.7	564.4	277.0	162.8	431.9	397.3	
27	248.5	261.0	248.5	462.9	1302.0	1847.5	1080.1	536.8	225.6	187.8	415.7	354.1	
28	278.0	276.0	204.9	504.4	1316.1	1809.2	1082.2	496.3	163.6	194.1	382.4	323.1	
29	281.1	303.2	148.4	568.0	1320.8	1732.5	1069.6	418.0	179.6	194.1	366.3	360.7	
30	268.0	288.5	191.4	600.5	1316.1	1655.8	1042.2	399.6	201.3	193.2		389.3	
31		221.1		594.4	1316.1		1018.2		178.8	179.6		413.5	
Total	9038.4	9540.4	9726.8	11125.3	31841.8	50152.2	38118.9	20981.0	9915.2	5195.4	7581.4	11718.7	214935.5 CMSDAY
Mean	301.3	307.8	324.2	358.9	1027.2	1671.7	1229.6	699.4	319.8	167.6	261.4	378.0	587.3 CMS
Max	343.1	441.1	504.4	600.5	1320.8	2116.0	1617.5	957.0	518.8	230.1	438.8	429.6	2116.0 CMS
Min	248.5	221.1	148.4	202.2	590.8	1320.8	1018.2	399.6	163.6	81.7	149.2	303.2	81.7 CMS
Runoff	780.92	824.29	840.40	961.23	2751.13	4333.15	3293.47	1812.76	856.67	448.88	655.03	1012.50	18570.43 MCM

Momentary Peak 2116.00 CMS, at 30.80 M (MSL), at 18.00 Hours, on Sep 19, 1995

Runoff Yield 17.86 Liters/Second/Square KM, Momentary Peak Yield 64.359 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

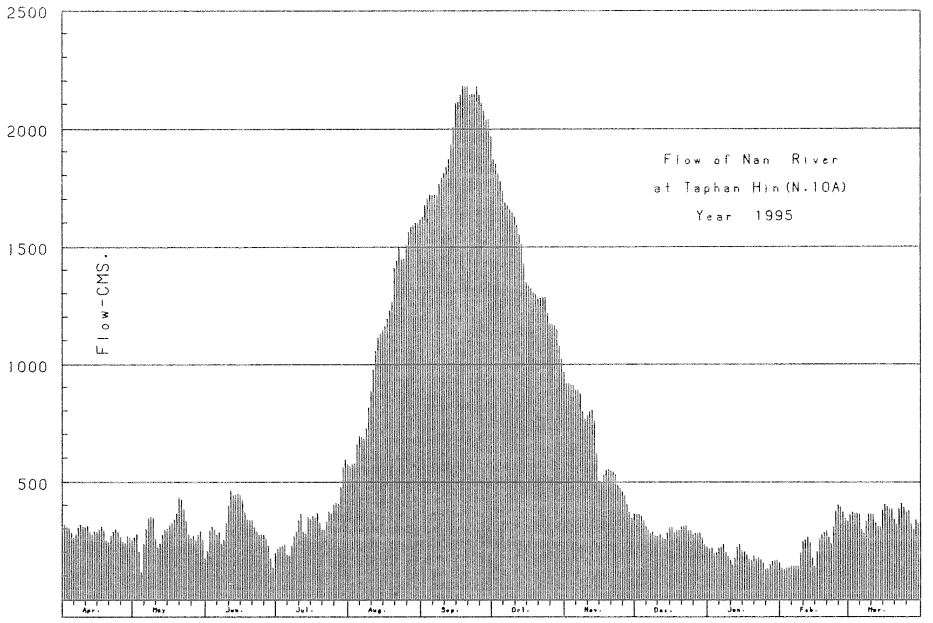
Nan River at Taphan Hin, Phichit (N.10A)

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 16 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.88	25.36	24.82	24.93	27.86	32.62	32.78	30.17	26.29	24.90	23.97	26.25	
2	25.81	25.52	25.65	24.98	27.94	32.65	32.77	30.15	26.27	24.97	23.93	26.37	
3	25.73	24.76	25.82	25.04	27.95	32.67	32.74	30.14	26.22	24.69	23.97	26.29	
4	25.58	23.76	25.68	25.07	28.51	32.68	32.72	30.10	26.03	24.76	24.02	26.33	
5	25.34	25.12	25.49	24.64	28.73	32.68	32.69	30.00	25.83	24.94	24.08	26.28	
6	25.50	25.69	25.57	24.62	28.70	32.68	32.66	29.98	25.66	24.99	24.09	25.69	
7	25.79	26.14	25.11	25.05	28.67	32.68	32.65	29.90	25.56	25.12	24.08	25.57	
8	25.88	26.17	25.26	25.41	28.97	32.71	32.64	29.41	25.59	24.78	24.10	26.03	
9	25.83	26.14	25.95	25.62	29.52	32.73	32.63	29.22	25.45	24.57	24.73	26.27	
10	25.77	25.30	26.61	26.06	29.97	32.74	32.62	29.31	25.41	24.41	25.23	26.31	
11	25.85	24.95	27.10	26.28	30.50	32.76	32.59	29.41	25.50	24.15	25.27	26.26	
12	25.58	25.13	26.95	25.60	30.98	32.78	32.55	29.47	25.34	24.51	25.41	25.97	
13	25.50	25.46	26.95	25.51	31.29	32.81	32.50	29.19	25.33	24.99	25.16	25.81	
14	25.61	25.69	27.01	26.17	31.41	32.83	32.41	28.24	25.54	25.11	24.52	25.81	
15	25.61	25.71	26.94	26.09	31.47	32.86	32.25	27.41	25.79	24.84	24.10	26.43	
16	25.67	25.88	26.77	26.20	31.58	32.86	32.23	27.39	25.79	24.78	24.78	26.63	
17	25.83	25.93	26.35	26.15	31.73	32.87	32.20	27.60	25.59	24.67	25.34	26.59	
18	25.64	26.10	26.07	26.32	31.90	32.88	32.16	27.74	25.64	24.42	25.48	26.47	
19	25.25	26.29	26.06	25.97	32.03	32.88	32.13	27.80	25.68	24.39	25.59	26.46	
20	25.15	26.88	26.05	25.68	32.38	32.88	32.08	27.74	25.79	24.59	25.63	26.11	
21	25.46	26.81	25.80	25.68	32.42	32.87	32.08	27.72	25.84	24.47	25.38	25.89	
22	25.59	26.48	25.60	25.99	32.48	32.87	32.10	27.61	25.85	24.50	25.14	26.49	
23	25.71	26.02	25.48	26.36	32.43	32.87	32.09	27.30	25.67	24.43	25.83	26.69	
24	25.56	25.50	25.48	26.32	32.43	32.88	31.85	27.18	25.65	24.24	26.39	26.52	
25	25.40	25.36	25.49	26.63	32.50	32.87	31.64	27.08	25.50	23.93	26.64	26.38	
26	25.18	25.44	25.33	26.67	32.56	32.86	31.60	26.92	25.53	23.93	26.54	26.40	
27	25.14	25.26	25.04	26.67	32.58	32.85	31.60	26.65	25.55	24.19	26.38	25.91	
28	25.41	25.47	24.46	27.21	32.59	32.84	31.49	26.35	25.56	24.33	26.12	25.72	
29	25.35	25.64	24.02	27.84	32.60	32.84	31.11	26.14	25.38	24.38	26.04	26.09	
30	25.27	25.26	24.71	28.06	32.60	32.82	30.76	26.28	25.07	24.38		25.92	
31		24.47		27.94	32.61		30.44		25.01	24.28		25.96	
Mean	25.56	25.60	25.79	26.02	30.96	32.79	32.15	28.32	25.64	24.57	25.10	26.19	
Max	25.88	26.88	27.10	28.06	32.61	32.88	32.78	30.17	26.29	25.12	26.64	26.69	32.88
Min	25.14	23.76	24.02	24.62	27.86	32.62	30.44	26.14	25.01	23.93	23.93	25.57	23.76

Annual Max Momentary Gage Height 32.88 M (MSL), at 24.00 Hours, on Sep 17, 1995
Zero Gage at Bottom Elevation 22.28 M (MSL), River Bed 20.55 M (MSL)
Left Bank Elevation 33.08 M (MSL)
Right Bank Elevation 33.21 M (MSL), Drainage Area 30765 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	318.8	263.8	208.0	219.0	565.4	1630.0	1870.0	921.0	365.4	216.0	134.7	360.7	
2	311.1	280.6	294.3	224.0	576.6	1675.0	1855.0	917.7	363.1	223.0	131.8	374.6	
3	302.7	202.2	312.2	230.2	578.0	1705.0	1810.0	916.1	357.3	195.6	134.7	365.4	
4	286.9	119.0	297.4	233.3	661.5	1720.0	1780.0	909.5	335.5	202.2	138.6	369.9	
5	261.7	238.6	277.5	190.8	694.5	1720.0	1735.0	893.0	313.3	220.0	143.4	364.2	
6	278.5	298.5	285.9	188.9	690.0	1720.0	1690.0	889.8	295.3	225.0	144.2	298.5	
7	309.0	348.1	237.6	231.2	685.5	1720.0	1675.0	877.0	284.8	238.6	143.4	285.9	
8	318.8	351.5	253.3	269.1	730.5	1765.0	1660.0	798.6	288.0	204.1	145.0	335.5	
9	313.3	348.1	326.5	291.1	816.2	1795.0	1645.0	768.2	273.3	184.4	199.3	363.1	
10	306.9	257.5	402.3	338.9	888.2	1810.0	1630.0	782.6	269.1	170.8	250.1	367.6	
11	315.5	221.0	464.0	364.2	977.0	1840.0	1591.1	798.6	278.5	149.0	254.4	361.9	
12	286.9	239.6	444.8	289.0	1058.6	1870.0	1555.5	808.2	261.7	179.3	269.1	328.7	
13	278.5	274.3	444.8	279.6	1112.8	1935.0	1511.0	763.5	260.7	225.0	242.8	311.1	
14	290.1	298.5	452.3	351.5	1133.7	2005.0	1430.9	621.0	282.7	237.6	180.2	311.1	
15	290.1	300.5	443.5	342.3	1144.2	2110.0	1347.0	504.4	309.0	210.0	145.0	381.5	
16	296.4	318.8	422.3	355.0	1163.5	2110.0	1337.0	501.7	309.0	204.1	204.1	404.7	
17	313.3	324.3	372.3	349.2	1193.7	2145.0	1322.0	530.0	288.0	193.7	261.7	399.8	
18	293.2	343.5	340.0	368.8	1231.5	2180.0	1308.6	548.9	293.2	171.7	276.4	386.0	
19	252.3	365.4	338.9	328.7	1265.0	2180.0	1298.6	557.0	297.4	169.1	288.0	384.9	
20	241.7	436.0	337.7	297.4	1412.0	2180.0	1281.8	548.9	309.0	186.1	292.1	344.7	
21	274.3	427.2	310.0	297.4	1439.8	2145.0	1281.8	546.2	314.4	175.9	265.9	319.9	
22	288.0	387.2	289.0	330.9	1493.2	2145.0	1288.5	531.4	315.5	178.5	240.7	388.3	
23	300.5	334.3	276.4	373.4	1448.7	2145.0	1285.1	490.0	296.4	172.5	313.3	412.3	
24	284.8	278.5	276.4	368.8	1448.7	2180.0	1219.8	474.4	294.3	156.4	376.8	391.8	
25	268.0	263.8	277.5	404.7	1511.0	2145.0	1175.2	461.4	278.5	131.8	406.0	375.7	
26	244.9	272.2	260.7	409.7	1564.4	2110.0	1167.0	441.0	281.7	131.8	394.1	378.0	
27	240.7	253.3	230.2	409.7	1582.2	2075.0	1167.0	407.2	283.7	152.2	375.7	322.1	
28	269.1	275.3	175.1	478.3	1591.1	2040.0	1147.7	372.3	284.8	164.0	345.8	301.6	
29	262.8	293.2	138.6	562.6	1600.0	2040.0	1081.3	348.1	265.9	168.3	336.6	342.3	
30	254.4	253.3	197.4	594.0	1600.0	1970.0	1021.2	364.2	233.3	168.3		323.2	
31		175.9		576.6	1615.0		966.8		227.1	159.8		327.6	
Total	8553.2	9044.0	9386.9	10548.3	35472.5	58810.0	44134.9	19291.9	9109.9	5764.8	7033.9	10982.6	228132.9 CMSDAY
Mean	285.1	291.7	312.9	340.3	1144.3	1960.3	1423.7	643.1	293.9	186.0	242.5	354.3	623.3 CMS
Max	318.8	436.0	464.0	594.0	1615.0	2180.0	1870.0	921.0	365.4	238.6	406.0	412.3	2180.0 CMS
Min	240.7	119.0	138.6	188.9	565.4	1630.0	966.8	348.1	227.1	131.8	131.8	285.9	119.0 CMS
Runoff	739.00	781.40	811.03	911.37	3064.82	5081.18	3813.26	1666.82	787.10	498.08	607.73	948.90	19710.69 MCM

Momentary Peak 2180.00 CMS, at 32.88 M (MSL), at 24.00 Hours, on Sep 17, 1995

Runoff Yield 20.26 Liters/Second/Square KM, Momentary Peak Yield 70.860 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

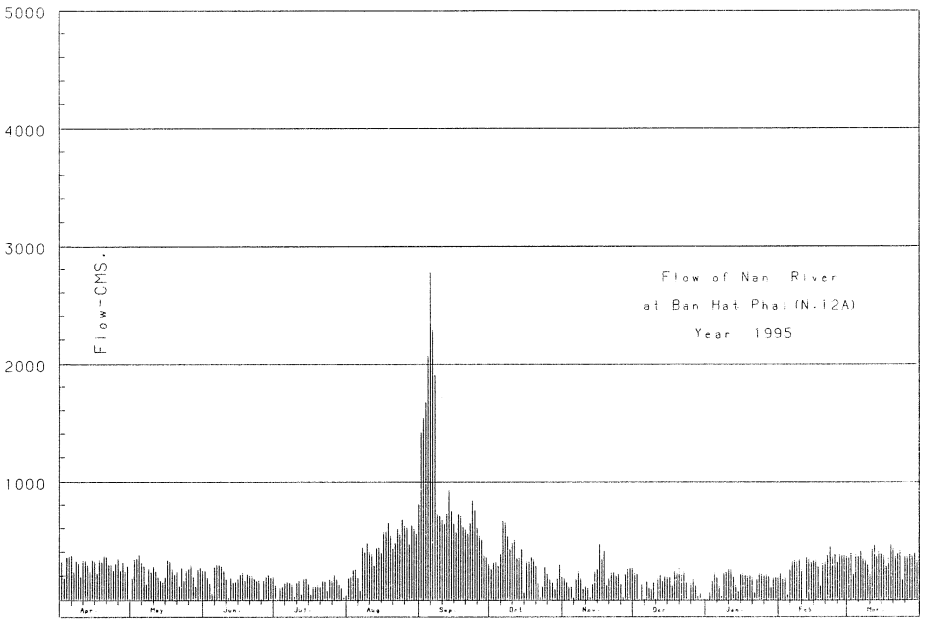
Nan River at Ban Hat Phai, Uttaradit (N.12A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Sirikit Dam reservoir. Stage-discharge relation defined by 16 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.50	71.63	72.05	71.15	71.64	76.98	72.15	71.60	71.88	69.61	71.89	72.73	
2	71.65	72.62	71.63	69.54	71.67	77.34	72.47	71.39	71.88	70.54	71.60	72.91	
3	72.75	72.69	71.30	70.90	72.11	77.74	72.48	71.05	69.81	71.45	71.63	71.87	
4	72.77	72.83	70.40	71.05	72.10	78.84	72.31	71.07	71.18	71.93	70.40	72.84	
5	72.84	72.45	72.24	71.32	71.66	80.69	72.89	69.97	69.75	71.70	72.12	72.79	
6	71.97	72.30	72.34	71.36	70.77	79.43	74.26	71.56	71.43	71.06	72.55	73.04	
7	72.57	71.25	72.37	71.35	73.17	78.40	74.18	72.00	70.97	70.22	72.59	72.65	
8	72.42	72.12	72.27	71.19	72.99	74.47	73.67	71.59	70.81	71.93	72.51	72.59	
9	71.72	71.98	72.06	70.19	73.38	74.44	73.12	70.90	71.36	71.96	72.64	72.38	
10	72.57	72.28	71.58	71.33	72.97	74.28	73.35	71.04	69.71	72.14	72.10	71.81	
11	72.58	72.00	69.92	71.43	72.88	74.16	73.49	70.93	71.63	72.11	69.61	73.09	
12	72.33	71.67	71.62	70.40	72.33	74.49	72.69	70.06	71.81	71.72	72.75	73.29	
13	71.98	71.49	71.38	71.55	73.17	75.28	72.70	71.26	71.46	71.15	72.64	72.77	
14	72.61	71.33	71.35	71.62	73.17	74.61	73.11	71.97	71.70	70.71	72.50	72.98	
15	72.53	71.70	71.57	71.25	72.96	74.16	70.59	72.14	71.66	71.86	72.59	72.92	
16	71.91	72.62	71.85	70.41	73.82	73.80	72.52	73.33	71.68	71.90	72.60	72.79	
17	72.60	72.52	71.94	71.04	73.86	74.51	72.51	72.66	71.15	71.81	72.26	72.30	
18	72.51	72.12	71.49	71.08	74.20	74.42	72.75	73.03	72.01	71.72	71.14	72.68	
19	72.79	71.85	71.86	71.14	73.67	74.04	72.62	71.17	71.95	71.79	72.41	73.32	
20	72.77	71.97	71.75	71.06	73.12	73.92	72.32	71.60	72.19	71.65	72.50	73.13	
21	72.38	71.11	71.74	71.43	73.38	73.75	71.27	71.91	71.79	70.58	72.84	72.78	
22	72.34	72.21	71.62	71.44	73.98	74.18	70.04	71.97	72.03	71.58	73.23	72.92	
23	72.08	71.44	71.47	70.70	73.72	74.95	71.08	71.77	71.37	71.90	72.74	73.04	
24	72.41	72.01	71.48	71.57	74.31	74.64	72.25	71.85	69.67	71.85	72.89	71.55	
25	72.65	72.16	69.67	71.44	74.06	73.99	71.85	71.25	71.25	71.78	72.52	72.78	
26	72.06	72.32	71.44	71.80	74.00	73.66	71.53	70.00	71.56	71.80	72.87	72.76	
27	72.50	71.71	71.72	71.58	73.33	73.52	71.37	71.86	71.15	71.74	72.84	72.89	
28	71.99	71.08	71.79	71.23	74.10	72.83	70.86	72.13	70.16	71.02	72.80	72.79	
29	72.30	72.09	71.67	70.93	73.94	72.72	71.58	72.19	70.50	71.63	72.78	72.95	
30	69.74	72.23	71.67	70.06	73.75	72.39	72.38	72.16	69.63	71.69		72.57	
31		72.02		70.43	74.84		71.67		69.63	71.64		71.44	
Mean	72.29	71.99	71.57	71.06	73.20	75.09	72.32	71.58	71.12	71.49	72.29	72.69	
Max	72.84	72.83	72.37	71.80	74.84	80.69	74.26	73.33	72.19	72.14	73.23	73.32	80.69
Min	69.74	71.08	69.67	69.54	70.77	72.39	70.04	69.97	69.63	69.61	69.61	71.44	69.54

Annual Max Momentary Gage Height 81.56 M (MSL), at 1.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation 69.00 M (MSL), River Bed 68.09 M (MSL)
Left Bank Elevation 81.69 M (MSL)
Right Bank Elevation 82.34 M (MSL), Drainage Area 15718 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.0	184.5	248.0	123.0	186.0	1423.5	264.0	180.0	222.0	3.4	223.5	359.4	
2	187.5	339.6	184.5	1.2	190.5	1540.5	315.2	151.8	222.0	59.2	180.0	391.8	
3	363.0	352.2	141.0	94.5	257.6	1679.0	316.8	111.0	10.5	159.7	184.5	220.5	
4	366.6	377.4	48.0	111.0	256.0	2065.0	289.6	113.4	126.6	229.5	48.0	379.2	
5	379.2	312.0	278.4	143.4	189.0	2781.0	388.2	18.5	8.2	195.0	259.2	370.2	
6	235.5	288.0	294.4	148.2	81.0	2286.2	671.4	174.6	157.0	112.2	328.0	416.0	
7	331.2	135.0	299.2	147.0	442.0	1910.0	652.3	240.0	101.9	33.6	334.4	345.0	
8	307.2	259.2	283.2	127.8	406.2	721.8	542.0	178.6	85.0	229.5	321.6	334.4	
9	198.0	237.0	249.6	31.4	484.0	714.6	432.0	94.5	148.2	234.0	343.2	300.8	
10	331.2	284.8	177.3	144.6	402.6	676.2	478.0	109.8	6.8	262.4	256.0	211.5	
11	332.8	240.0	16.0	157.0	386.4	647.6	506.0	97.6	184.5	257.6	3.4	426.0	
12	292.8	190.5	183.0	48.0	292.8	726.6	352.2	23.6	211.5	198.0	363.0	466.0	
13	237.0	165.1	150.6	173.3	442.0	927.0	354.0	136.2	161.1	123.0	343.2	366.6	
14	337.8	144.6	147.0	183.0	442.0	755.5	430.0	235.5	195.0	75.0	320.0	404.4	
15	324.8	195.0	176.0	135.0	400.8	647.6	63.2	262.4	189.0	219.0	334.4	393.6	
16	226.5	339.6	217.5	48.8	572.2	568.0	323.2	474.0	192.0	225.0	336.0	370.2	
17	336.0	323.2	231.0	109.8	580.6	731.4	321.6	346.8	123.0	211.5	281.6	288.0	
18	321.6	259.2	165.1	114.6	657.0	709.8	363.0	414.0	241.6	198.0	121.8	350.4	
19	370.2	217.5	219.0	121.8	542.0	619.4	339.6	125.4	232.5	208.5	305.6	472.0	
20	366.6	235.5	202.5	112.2	432.0	593.2	291.2	180.0	270.4	187.5	320.0	434.0	
21	300.8	118.2	201.0	157.0	484.0	558.0	137.4	226.5	208.5	62.4	379.2	368.4	
22	294.4	273.6	183.0	158.4	605.8	652.3	22.4	235.5	244.8	177.3	454.0	393.6	
23	252.8	158.4	162.5	74.0	552.0	840.5	114.6	205.5	149.4	225.0	361.2	416.0	
24	305.6	241.6	163.8	176.0	683.4	763.0	280.0	217.5	5.4	217.5	388.2	173.3	
25	345.0	265.6	5.4	158.4	624.1	607.9	217.5	135.0	135.0	207.0	323.2	368.4	
26	249.6	291.2	158.4	210.0	610.0	540.0	170.5	20.0	174.6	210.0	384.6	364.8	
27	320.0	196.5	198.0	177.3	474.0	512.0	149.4	219.0	123.0	201.0	379.2	388.2	
28	238.5	114.6	208.5	132.6	633.5	377.4	90.3	260.8	29.6	107.4	372.0	370.2	
29	288.0	254.4	190.5	97.6	597.4	357.6	177.3	270.4	56.0	184.5	368.4	399.0	
30	7.9	276.8	190.5	23.6	558.0	302.4	300.8	265.6	4.0	193.5		331.2	
31		243.2		50.4	813.0		190.5		4.0	186.0		158.4	
Total	8768.1	7514.0	5572.9	3690.9	14277.9	28235.0	9544.2	5723.5	4223.1	5393.2	8617.4	11031.5	112591.7 CMSDAY
Mean	292.3	242.4	185.8	119.1	460.6	941.2	307.9	190.8	136.2	174.0	297.2	355.9	307.6 CMS
Max	379.2	377.4	299.2	210.0	813.0	2781.0	671.4	474.0	270.4	262.4	454.0	472.0	2781.0 CMS
Min	7.9	114.6	5.4	1.2	81.0	302.4	22.4	18.5	4.0	3.4	3.4	158.4	1.2 CMS
Runoff	757.56	649.21	481.50	318.89	1233.61	2439.50	824.62	494.51	364.88	465.97	744.54	953.12	9727.92 MCM

Momentary Peak 3129.00 CMS, at 81.56 M (MSL), at 1.00 Hours, on Sep 5, 1995

Runoff Yield 19.57 Liters/Second/Square KM, Momentary Peak Yield 199.071 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

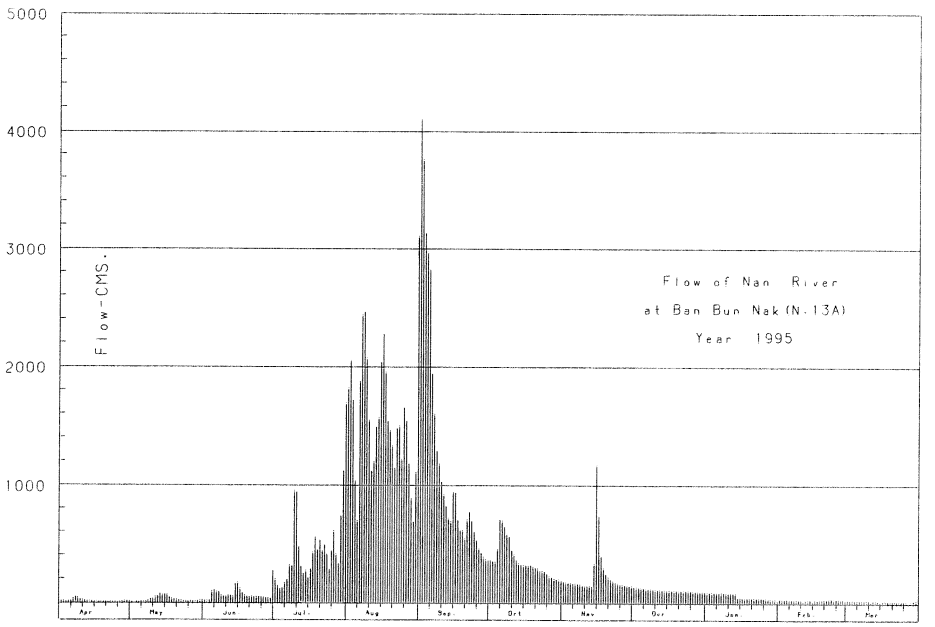
Nan River at Ban Bun Nak, Nan (N.13A)

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 with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation +187.81 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 108 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	178.22	178.15	178.27	179.24	184.01	188.67	179.47	178.87	178.69	178.48	178.35	178.30	
2	178.20	178.14	178.25	179.01	184.53	188.02	179.45	178.85	178.68	178.47	178.35	178.30	
3	178.19	178.15	178.29	178.85	183.77	186.78	179.43	178.83	178.67	178.47	178.34	178.29	
4	178.20	178.16	178.75	178.91	182.04	186.46	179.77	178.82	178.65	178.47	178.34	178.29	
5	178.24	178.19	178.81	179.10	181.09	186.15	180.51	178.81	178.64	178.46	178.33	178.28	
6	178.38	178.19	178.73	179.23	184.14	184.28	180.49	178.81	178.63	178.46	178.33	178.28	
7	178.47	178.20	178.72	179.76	185.37	182.83	180.34	178.80	178.62	178.46	178.32	178.28	
8	178.42	178.24	178.55	179.74	185.42	182.06	180.18	178.78	178.61	178.46	178.32	178.28	
9	178.33	178.35	178.50	181.83	184.58	181.78	180.10	178.74	178.60	178.45	178.32	178.28	
10	178.28	178.36	178.50	181.80	183.36	181.39	179.75	178.74	178.59	178.44	178.32	178.27	
11	178.24	178.47	178.55	180.35	182.27	181.11	179.64	178.74	178.58	178.44	178.31	178.27	
12	178.21	178.50	178.54	179.71	182.48	180.84	179.49	178.74	178.58	178.44	178.31	178.26	
13	178.20	178.62	178.50	179.44	183.22	180.55	179.40	178.72	178.57	178.44	178.31	178.25	
14	178.19	178.59	179.06	179.57	183.42	180.46	179.35	179.38	178.57	178.44	178.31	178.25	
15	178.19	178.60	179.12	179.28	184.50	181.15	179.34	181.76	178.56	178.44	178.31	178.24	
16	178.18	178.59	178.89	179.64	185.03	181.15	179.34	180.60	178.56	178.44	178.30	178.24	
17	178.17	178.45	178.67	180.20	184.31	180.50	179.32	179.59	178.55	178.44	178.30	178.23	
18	178.17	178.37	178.56	180.65	183.34	180.25	179.34	179.26	178.55	178.44	178.30	178.23	
19	178.15	178.35	178.50	180.27	183.14	180.25	179.30	179.09	178.55	178.43	178.33	178.23	
20	178.16	178.33	178.47	180.57	182.81	180.05	179.27	179.00	178.54	178.43	178.35	178.22	
21	178.15	178.29	178.50	180.24	182.34	180.51	179.25	178.94	178.54	178.43	178.35	178.22	
22	178.15	178.25	178.48	180.42	183.19	180.70	179.18	178.89	178.54	178.42	178.36	178.22	
23	178.14	178.24	178.47	180.14	183.24	180.48	179.18	178.85	178.54	178.42	178.39	178.22	
24	178.13	178.22	178.49	179.60	182.54	180.22	179.17	178.82	178.54	178.42	178.37	178.21	
25	178.13	178.21	178.48	180.24	183.62	180.01	179.10	178.79	178.53	178.41	178.36	178.21	
26	178.13	178.20	178.44	180.83	183.35	179.81	179.03	178.77	178.52	178.41	178.35	178.21	
27	178.18	178.21	178.43	180.15	182.44	179.68	179.00	178.76	178.51	178.37	178.34	178.21	
28	178.24	178.19	178.40	179.83	181.64	179.57	178.95	178.75	178.50	178.36	178.32	178.21	
29	178.23	178.24	178.39	181.21	181.07	179.51	178.94	178.73	178.49	178.36	178.30	178.26	
30	178.18	178.28	179.56	182.27	182.24	179.48	178.93	178.73	178.50	178.36		178.30	
31		178.29		183.71	186.73		178.90		178.49	178.36		178.30	
Mean	178.21	178.31	178.60	180.19	183.39	181.82	179.45	179.03	178.57	178.43	178.33	178.25	
Max	178.47	178.62	179.56	183.71	186.73	188.67	180.51	181.76	178.69	178.48	178.39	178.30	188.67
Min	178.13	178.14	178.25	178.85	181.07	179.48	178.90	178.72	178.49	178.36	178.30	178.21	178.13

Annual Max Momentary Gage Height 188.75 M (MSL), at 12.00 Hours, on Sep 1 1995
Zero Gage at Bottom Elevation 177.39 M (MSL), River Bed 176.17 M (MSL)
Left Bank Elevation 187.81 M (MSL)
Right Bank Elevation 192.62 M (MSL), Drainage Area 8784 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.2	16.0	27.7	207.8	1828.4	4109.8	366.0	188.9	142.9	98.8	38.0	31.0	
2	20.0	15.2	25.5	157.2	2058.5	3764.6	360.0	183.5	140.8	96.7	38.0	31.0	
3	19.2	16.0	29.9	125.5	1723.1	3140.0	354.0	178.1	138.7	96.7	36.6	29.9	
4	20.0	16.8	107.0	137.0	1038.8	2981.4	459.4	175.4	134.5	96.7	36.6	29.9	
5	24.4	19.2	117.9	177.0	701.7	2829.5	713.5	172.7	132.4	94.6	35.2	28.8	
6	42.2	19.2	103.4	205.6	1885.6	1947.2	706.5	172.7	130.3	94.6	35.2	28.8	
7	56.9	20.0	101.6	325.4	2447.3	1602.9	654.0	170.0	128.2	94.6	33.8	28.8	
8	48.4	24.4	71.0	320.6	2471.8	1294.4	598.0	165.0	126.1	94.6	33.8	28.8	
9	35.2	38.0	62.0	961.1	2081.0	1185.2	570.0	155.0	124.0	92.5	33.8	28.8	
10	28.8	39.4	62.0	950.0	1554.0	1035.2	453.0	155.0	121.9	90.4	33.8	27.7	
11	24.4	56.9	71.0	479.0	1123.9	928.8	417.8	155.0	119.8	90.4	32.4	27.7	
12	21.1	62.0	69.2	313.4	1202.4	829.0	372.0	155.0	119.8	90.4	32.4	26.6	
13	20.0	83.6	62.0	251.8	1498.0	727.5	345.0	150.0	117.7	90.4	32.4	25.5	
14	19.2	78.2	168.2	281.1	1578.0	696.0	330.0	339.0	117.7	51.8	32.4	25.5	
15	19.2	80.0	181.4	216.6	2045.0	944.0	327.0	1177.4	115.6	51.8	32.4	24.4	
16	18.4	78.2	133.1	297.2	2284.1	944.0	327.0	745.0	115.6	51.8	31.0	24.4	
17	17.6	53.5	92.6	437.0	1960.4	710.0	321.0	402.0	113.5	51.8	31.0	23.3	
18	17.6	40.8	72.8	565.0	1546.0	622.5	327.0	303.0	113.5	51.8	31.0	23.3	
19	16.0	38.0	62.0	456.6	1466.0	622.5	315.0	252.0	113.5	50.1	35.2	23.3	
20	16.8	35.2	56.9	541.3	1334.0	552.5	306.0	225.0	111.4	50.1	38.0	22.2	
21	16.0	29.9	62.0	448.2	1149.8	713.5	300.0	208.2	111.4	50.1	38.0	22.2	
22	16.0	25.5	58.6	498.6	1486.0	780.0	279.0	194.3	111.4	48.4	39.4	22.2	
23	15.2	24.4	56.9	420.8	1506.0	703.0	279.0	183.5	111.4	48.4	43.6	22.2	
24	14.4	22.2	60.3	288.0	1226.0	612.0	276.0	175.4	111.4	48.4	40.8	21.1	
25	14.4	21.1	58.6	448.2	1658.6	538.5	255.0	167.5	109.3	46.7	39.4	21.1	
26	14.4	20.0	51.8	619.0	1550.0	472.3	234.0	162.5	107.2	46.7	38.0	21.1	
27	18.4	21.1	50.1	423.5	1187.2	430.6	225.0	160.0	105.1	40.8	36.6	21.1	
28	24.4	19.2	45.0	342.5	894.0	396.0	211.0	157.5	103.0	39.4	33.8	21.1	
29	23.3	24.4	43.6	743.5	695.1	378.0	208.2	152.5	100.9	39.4	31.0	26.6	
30	18.4	28.8	278.8	1123.9	1112.8	369.0	205.4	152.5	103.0	39.4		31.0	
31		29.9		1697.3	3115.0		197.0		100.9	39.4		31.0	
Total	682.5	1097.1	2442.9	14459.7	49408.5	36859.9	11291.8	7333.6	3652.9	2067.7	1023.6	800.4	131120.6 CMSDAY
Mean	22.8	35.4	81.4	466.4	1593.8	1228.7	364.3	244.5	117.8	66.7	35.3	25.8	358.3 CMS
Max	56.9	83.6	278.8	1697.3	3115.0	4109.8	713.5	1177.4	142.9	98.8	43.6	31.0	4109.8 CMS
Min	14.4	15.2	25.5	125.5	695.1	369.0	197.0	150.0	100.9	39.4	31.0	21.1	14.4 CMS
Runoff	58.97	94.79	211.07	1249.32	4268.90	3184.70	975.61	633.62	315.61	178.65	88.44	69.15	11328.82 MCM

Momentary Peak 4153.00 CMS, at 188.75 M (MSL), at 12.00 Hours, on Sep 1, 1995

Runoff Yield 40.78 Liters/Second/Square KM, Momentary Peak Yield 472.791 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

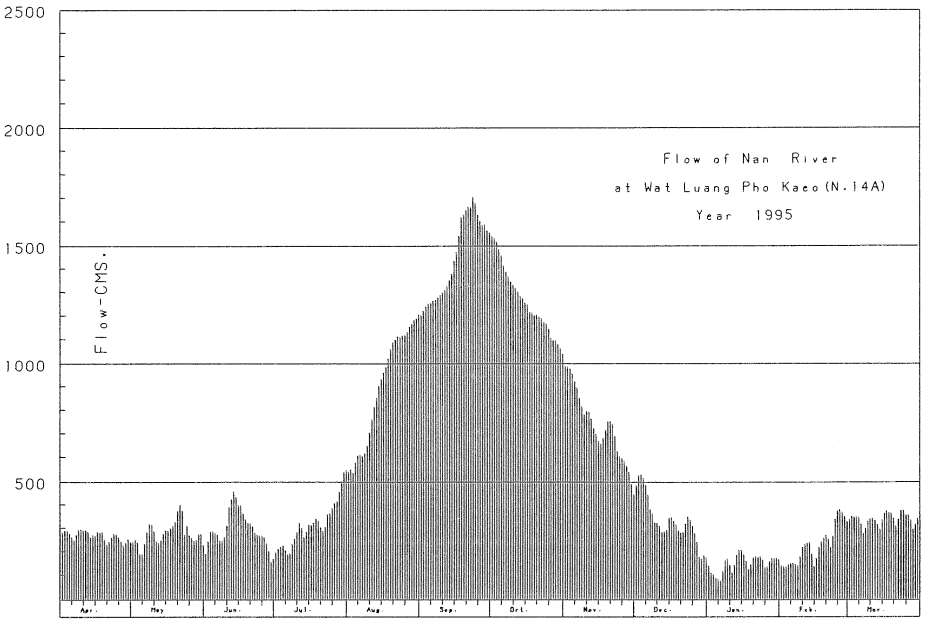
Nan River at Wat Luang Pho Kaeo, Nakhon Sawan (N.14A)

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.
Overbank Flow Conditions	Overbank flow starts at elevation +27.82 m.(M.S.L.) and is included.
General Description	Records fair. Flow effected by Naresuan Dam. Stage-discharge relation defined by 18 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.00	21.58	21.06	21.10	24.40	27.98	28.36	27.40	23.91	20.40	20.44	22.55	
2	22.10	21.71	21.62	21.29	24.46	28.01	28.35	27.38	24.24	20.03	20.36	22.68	
3	22.07	21.56	22.03	21.36	24.36	28.04	28.34	27.36	24.31	19.87	20.39	22.66	
4	21.98	21.06	22.08	21.45	24.72	28.05	28.31	27.27	24.16	19.71	20.47	22.65	
5	21.80	21.02	21.97	21.19	24.98	28.06	28.29	27.14	23.91	19.58	20.56	22.66	
6	21.69	21.53	21.92	21.00	25.00	28.07	28.25	27.00	23.52	19.52	20.55	22.36	
7	21.94	22.03	21.67	21.07	24.96	28.08	28.23	26.77	22.98	20.08	20.53	21.99	
8	22.11	22.35	21.64	21.51	25.04	28.09	28.21	26.52	22.78	20.75	20.41	22.21	
9	22.16	22.35	21.83	21.71	25.32	28.11	28.19	26.30	22.44	20.80	20.92	22.47	
10	22.09	22.06	22.42	22.03	25.73	28.12	28.17	26.38	22.41	20.47	21.39	22.59	
11	22.12	21.65	23.03	22.42	26.15	28.14	28.15	26.39	22.28	20.03	21.49	22.59	
12	22.02	21.54	23.35	22.19	26.50	28.16	28.13	26.16	22.04	20.44	21.58	22.53	
13	21.83	21.69	23.63	21.81	26.77	28.20	28.10	25.89	22.04	21.01	21.56	22.34	
14	21.89	21.94	23.41	22.03	27.03	28.22	28.09	25.69	22.14	21.21	21.04	22.17	
15	21.89	22.11	23.12	22.33	27.18	28.27	28.06	25.48	22.63	21.21	20.39	22.53	
16	22.02	22.07	23.11	22.33	27.28	28.30	28.05	25.37	22.63	21.03	20.82	22.83	
17	22.02	22.20	22.80	22.40	27.38	28.36	28.01	25.55	22.51	20.66	21.38	22.90	
18	22.01	22.27	22.54	22.59	27.50	28.42	28.00	25.83	22.34	20.24	21.61	22.85	
19	21.73	22.44	22.42	22.49	27.64	28.43	27.98	26.07	22.11	20.47	21.80	22.80	
20	21.47	22.87	22.38	22.23	27.71	28.44	27.98	26.10	21.99	20.89	21.89	22.59	
21	21.60	23.17	22.27	22.07	27.75	28.45	27.97	26.01	22.03	20.92	21.72	22.27	
22	21.81	22.91	22.00	22.26	27.78	28.45	27.95	25.64	22.37	20.90	21.37	22.58	
23	21.95	21.90	21.92	22.74	27.78	28.48	27.92	25.14	22.68	20.90	21.88	22.95	
24	21.94	22.30	21.87	22.80	27.79	28.46	27.90	24.95	22.53	20.77	22.56	22.91	
25	21.79	21.90	21.88	23.02	27.80	28.43	27.86	24.90	22.31	20.35	22.92	22.75	
26	21.63	21.76	21.79	23.18	27.83	28.41	27.76	24.78	21.98	20.34	22.95	22.73	
27	21.43	21.66	21.55	23.27	27.87	28.40	27.74	24.61	21.58	20.68	22.86	22.53	
28	21.57	21.68	21.18	23.63	27.90	28.40	27.73	24.37	20.91	20.82	22.67	22.17	
29	21.70	21.94	20.63	24.04	27.93	28.38	27.69	23.93	20.78	20.83	22.48	22.38	
30	21.60	21.92	20.77	24.36	27.95	28.37	27.64	23.54	20.97	20.83		22.59	
31		21.44		24.44	27.98		27.57		20.84	20.76		22.81	
Mean	21.87	21.96	22.13	22.33	26.66	28.26	28.03	25.86	22.46	20.53	21.41	22.57	
Max	22.16	23.17	23.63	24.44	27.98	28.48	28.36	27.40	24.31	21.21	22.95	22.95	28.48
Min	21.43	21.02	20.63	21.00	24.36	27.98	27.57	23.54	20.78	19.52	20.36	21.99	19.52

Annual Max Momentary Gage Height 28.48 M (MSL), at 6.00 Hours, on Sep 23, 1995
Zero Gage at Bottom Elevation 19.00 M (MSL), River Bed 17.16 M (MSL)
Left Bank Elevation 28.16 M (MSL)
Right Bank Elevation 27.81 M (MSL), Drainage Area 33182 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	284.0	243.1	195.4	199.0	544.0	1206.6	1543.2	992.0	488.1	143.0	146.0	340.7	
2	294.0	255.4	246.9	216.1	550.9	1223.0	1531.5	986.8	525.6	116.1	140.0	354.4	
3	291.0	241.2	287.0	222.4	539.4	1244.0	1519.8	981.6	533.6	104.9	142.2	352.3	
4	282.0	195.4	292.0	230.8	580.8	1251.0	1484.7	958.2	516.4	94.1	148.2	351.2	
5	264.0	191.8	281.0	207.1	611.6	1258.0	1461.3	927.4	488.1	85.8	155.0	352.3	
6	253.6	238.4	276.0	190.0	614.0	1265.0	1414.5	898.0	445.2	82.2	154.2	320.8	
7	278.0	287.0	251.7	196.3	609.2	1272.0	1391.1	857.4	385.9	119.6	152.8	283.0	
8	295.0	319.7	248.8	236.5	619.0	1279.0	1367.7	818.6	364.9	169.3	143.7	305.0	
9	300.0	319.7	267.0	255.4	654.0	1293.0	1349.0	786.0	329.2	173.0	183.2	332.3	
10	293.0	290.0	327.1	287.0	706.9	1300.0	1335.0	797.2	326.0	148.2	225.1	344.9	
11	296.0	249.8	391.3	327.1	765.0	1314.0	1321.0	798.6	312.4	116.1	234.6	344.9	
12	286.0	239.3	426.5	303.0	815.5	1328.0	1307.0	766.4	288.0	146.0	243.1	338.7	
13	267.0	253.6	457.3	265.0	857.4	1356.0	1286.0	728.6	288.0	190.9	241.2	318.7	
14	273.0	278.0	433.1	287.0	904.3	1379.4	1279.0	701.7	298.0	208.9	193.6	301.0	
15	273.0	295.0	401.2	317.6	935.8	1437.9	1258.0	674.4	349.1	208.9	142.2	338.7	
16	286.0	291.0	400.1	317.6	960.8	1473.0	1251.0	660.3	349.1	192.7	174.7	370.1	
17	286.0	304.0	367.0	325.0	986.8	1543.2	1223.0	683.5	336.5	162.5	224.2	377.5	
18	285.0	311.3	339.7	344.9	1021.0	1619.7	1216.0	720.2	318.7	131.0	246.0	372.3	
19	257.4	329.2	327.1	334.4	1064.4	1634.6	1206.6	753.8	295.0	148.2	264.0	367.0	
20	232.6	374.4	322.9	307.1	1089.6	1649.4	1206.6	758.0	283.0	180.6	273.0	344.9	
21	245.0	406.7	311.3	291.0	1104.0	1664.3	1201.9	745.4	287.0	183.2	256.4	311.3	
22	265.0	378.5	284.0	310.3	1114.8	1664.3	1192.5	695.2	321.9	181.5	223.3	343.9	
23	279.0	274.0	276.0	360.7	1114.8	1708.8	1178.4	631.5	354.4	181.5	272.0	382.8	
24	278.0	314.5	271.0	367.0	1118.4	1679.1	1169.0	608.0	338.7	170.8	341.8	378.5	
25	263.1	274.0	272.0	390.2	1122.0	1634.6	1150.2	602.0	315.5	139.3	379.6	361.7	
26	247.8	260.2	263.1	407.8	1136.1	1604.9	1107.6	587.7	282.0	138.5	382.8	359.6	
27	228.9	250.7	240.2	417.7	1154.9	1590.0	1100.4	568.2	243.1	164.0	373.3	338.7	
28	242.2	252.6	206.2	457.3	1169.0	1590.0	1096.8	540.6	182.4	174.7	353.3	301.0	
29	254.5	278.0	160.2	502.6	1183.1	1566.6	1082.4	490.3	171.5	175.6	333.4	322.9	
30	245.0	276.0	170.8	539.4	1192.5	1554.9	1064.4	447.4	187.4	175.6		344.9	
31		229.8		548.6	1206.6		1041.3		176.4	170.0		368.0	
Total	8125.1	8702.3	8993.9	9961.9	28046.6	43584.3	39336.9	22165.0	10381.1	4776.7	6742.9	10624.0	201440.7 CMSDAY
Mean	270.8	280.7	299.8	321.4	904.7	1452.8	1268.9	738.8	334.9	154.1	232.5	342.7	550.4 CMS
Max	300.0	406.7	457.3	548.6	1206.6	1708.8	1543.2	992.0	533.6	208.9	382.8	382.8	1708.8 CMS
Min	228.9	191.8	160.2	190.0	539.4	1206.6	1041.3	447.4	171.5	82.2	140.0	283.0	82.2 CMS
Runoff	702.01	751.88	777.07	860.71	2423.23	3765.68	3398.71	1915.06	896.93	412.71	582.59	917.91	17404.48 MCM

Momentary Peak 1708.80 CMS, at 28.48 M (MSL), at 5.00 Hours, on Sep 23, 1995

Runoff Yield 16.59 Liters/Second/Square KM, Momentary Peak Yield 51.498 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

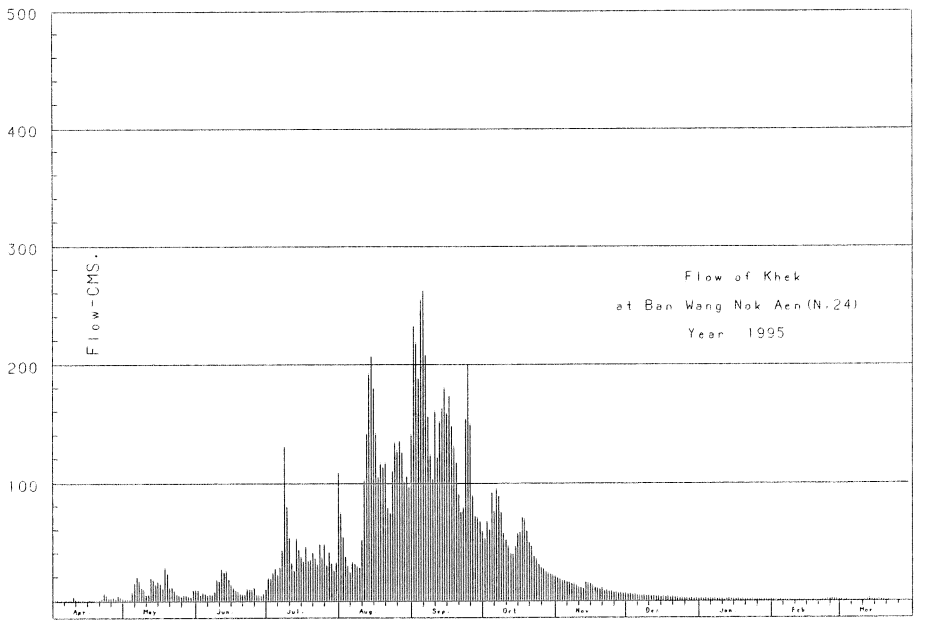
Khek River at Ban Wang Nok Aen, Phitsanulok (N.24)

Location	Lat. 16°-50'-35" N., Long. 100°-31'-20" E., on right bank about 2 kilometers downstream from Sakunothayan Fall, Amphoe Wang Thong, Phitsanulok.
Drainage Area	1,861 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Near the gage site.
Elevation	+12.845 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965-1974, 1980 to date.
Rated by Float	-
Rated by Current Meter	1965-1974, 1980 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	0.82	1.56	2.19	4.51	8.31	3.74	2.21	1.36	0.93	0.73	0.71	
2	0.63	0.77	1.26	2.18	3.79	8.04	4.26	2.14	1.34	0.92	0.72	0.70	
3	0.61	0.81	1.40	2.40	3.12	7.44	4.03	2.10	1.32	0.92	0.71	0.69	
4	0.62	1.45	1.37	2.58	2.71	8.71	5.04	2.08	1.30	0.91	0.70	0.67	
5	0.61	1.99	1.19	2.34	2.46	8.86	4.54	2.05	1.27	0.91	0.69	0.66	
6	0.60	2.25	1.29	2.66	2.85	7.85	5.13	2.00	1.25	0.90	0.69	0.65	
7	0.60	2.06	1.23	3.32	2.80	6.72	4.96	1.95	1.23	0.90	0.68	0.64	
8	0.65	1.71	1.50	6.09	2.68	5.91	4.54	1.95	1.21	0.89	0.68	0.64	
9	1.14	1.59	2.10	4.69	2.65	5.37	3.90	1.88	1.20	0.88	0.67	0.63	
10	0.68	1.22	2.07	3.77	3.67	6.83	3.70	1.73	1.18	0.87	0.66	0.61	
11	0.65	1.30	2.57	2.81	5.35	5.86	3.48	1.70	1.17	0.86	0.66	0.62	
12	0.64	2.20	2.44	2.51	6.36	6.61	3.22	1.69	1.16	0.86	0.65	0.79	
13	0.64	2.10	2.48	3.74	7.52	6.89	3.18	2.03	1.15	0.85	0.64	0.94	
14	0.63	1.90	2.15	3.36	7.82	7.27	3.47	1.96	1.14	0.84	0.64	0.76	
15	0.65	2.01	1.86	3.07	7.26	6.78	3.89	1.96	1.13	0.83	0.63	0.69	
16	0.66	1.91	1.68	2.87	6.36	7.12	3.94	1.85	1.12	0.83	0.63	0.73	
17	0.68	1.66	1.57	3.44	5.42	6.52	4.38	1.74	1.11	0.82	0.63	0.78	
18	0.66	2.63	1.48	2.93	5.74	6.09	4.33	1.68	1.11	0.81	0.63	0.73	
19	0.65	2.41	1.38	2.93	5.65	5.75	4.00	1.64	1.09	0.80	0.64	0.68	
20	0.66	1.68	1.30	3.26	5.75	5.00	3.61	1.71	1.09	0.80	0.66	0.65	
21	0.89	1.73	1.29	3.04	4.64	4.51	3.46	1.54	1.07	0.80	0.69	0.62	
22	1.42	1.52	1.63	2.76	4.51	4.65	3.12	1.55	1.05	0.79	0.68	0.61	
23	1.20	1.33	1.64	3.55	5.57	6.67	2.98	1.52	1.03	0.78	0.72	0.59	
24	0.99	1.21	1.58	3.05	6.18	7.67	2.79	1.49	1.02	0.78	0.77	0.58	
25	0.90	1.13	1.72	3.53	6.00	6.56	2.66	1.47	1.01	0.77	0.87	0.57	
26	1.00	1.19	1.27	2.73	6.21	4.96	2.57	1.44	0.99	0.77	0.87	0.56	
27	0.88	1.23	1.19	3.28	5.97	4.42	2.49	1.43	0.97	0.77	0.83	0.55	
28	1.21	1.10	1.17	2.83	5.29	4.38	2.42	1.42	0.97	0.76	0.77	0.53	
29	1.03	1.09	1.32	2.52	5.44	4.27	2.37	1.41	0.95	0.75	0.74	0.55	
30	0.90	1.58	1.62	2.84	5.20	3.97	2.32	1.39	0.94	0.74		0.53	
31		1.56		5.51	6.34		2.30		0.93	0.74		0.61	
Mean	0.79	1.59	1.61	3.19	5.03	6.33	3.57	1.76	1.12	0.83	0.70	0.65	
Max	1.42	2.63	2.57	6.09	7.82	8.86	5.13	2.21	1.36	0.93	0.87	0.94	8.86
Min	0.60	0.77	1.17	2.18	2.46	3.97	2.30	1.39	0.93	0.74	0.63	0.53	0.53

Annual Max Momentary Gage Height 9.06 M (A.D), at 6.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.30 M (A.D)
Left Bank Elevation 13.85 M (A.D)
Right Bank Elevation 14.63 M (A.D), Drainage Area 1861 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.10	2.10	9.40	19.80	75.30	233.28	53.50	20.20	6.60	2.65	1.65	1.55	
2	1.15	1.85	5.60	19.60	54.75	219.10	67.80	18.80	6.40	2.60	1.60	1.50	
3	1.05	2.05	7.00	24.00	38.40	189.00	60.90	18.00	6.20	2.60	1.55	1.45	
4	1.10	7.75	6.70	27.60	30.20	255.05	92.40	17.60	6.00	2.55	1.50	1.35	
5	1.05	15.85	4.90	22.80	25.20	263.30	76.20	17.00	5.70	2.55	1.45	1.30	
6	1.00	21.00	5.90	29.20	33.00	209.50	95.55	16.00	5.50	2.50	1.45	1.25	
7	1.00	17.20	5.30	43.00	32.00	156.80	89.60	15.25	5.30	2.50	1.40	1.20	
8	1.25	11.65	8.50	131.60	29.60	124.40	76.20	15.25	5.10	2.45	1.40	1.20	
9	4.40	9.85	18.00	80.70	29.00	103.95	57.50	14.20	5.00	2.40	1.35	1.15	
10	1.40	5.20	17.40	54.25	51.75	161.35	52.50	11.95	4.80	2.35	1.30	1.05	
11	1.25	6.00	27.40	32.20	103.25	122.40	47.00	11.50	4.70	2.30	1.30	1.10	
12	1.20	20.00	24.80	26.20	142.40	152.40	40.50	11.35	4.60	2.30	1.25	1.95	
13	1.20	18.00	25.60	53.50	193.00	164.05	39.60	16.60	4.50	2.25	1.20	2.70	
14	1.15	14.50	19.00	44.00	208.00	181.15	46.75	15.40	4.40	2.20	1.20	1.80	
15	1.25	16.20	13.90	37.40	180.70	159.20	57.25	15.40	4.30	2.15	1.15	1.45	
16	1.30	14.65	11.20	33.40	142.40	174.40	58.50	13.75	4.20	2.15	1.15	1.65	
17	1.40	10.90	9.55	46.00	105.70	148.80	71.40	12.10	4.10	2.10	1.15	1.90	
18	1.30	28.60	8.20	34.60	117.60	131.60	69.90	11.20	4.10	2.05	1.15	1.65	
19	1.25	24.20	6.80	34.60	114.00	118.00	60.00	10.60	3.90	2.00	1.20	1.40	
20	1.30	11.20	6.00	41.50	118.00	91.00	50.25	11.65	3.90	2.00	1.30	1.25	
21	2.45	11.95	5.90	36.80	79.20	75.30	46.50	9.10	3.70	2.00	1.45	1.10	
22	7.30	8.80	10.45	31.20	75.30	79.50	38.40	9.25	3.50	1.95	1.40	1.05	
23	5.00	6.30	10.60	48.75	110.95	154.80	35.60	8.80	3.30	1.90	1.60	0.97	
24	2.95	5.10	9.70	37.00	135.20	200.50	31.80	8.35	3.20	1.90	1.85	0.93	
25	2.50	4.30	11.80	48.25	128.00	150.40	29.20	8.05	3.10	1.85	2.35	0.90	
26	3.00	4.90	5.70	30.60	136.40	89.60	27.40	7.60	2.95	1.85	2.35	0.87	
27	2.40	5.30	4.90	42.00	126.80	72.60	25.80	7.45	2.85	1.85	2.15	0.83	
28	5.10	4.00	4.70	32.60	101.15	71.40	24.40	7.30	2.85	1.80	1.85	0.77	
29	3.30	3.90	6.20	26.40	106.40	68.10	23.40	7.15	2.75	1.75	1.70	0.83	
30	2.50	9.70	10.30	32.80	98.00	59.25	22.40	6.90	2.70	1.70		0.77	
31		9.40		108.85	141.60		22.00		2.65	1.70		1.05	
Total	63.60	332.40	321.40	1311.20	3063.25	4380.18	1590.20	373.75	132.85	66.90	43.40	39.92	11719.05 CMSDAY
Mean	2.12	10.72	10.71	42.30	98.81	146.01	51.30	12.46	4.29	2.16	1.50	1.29	32.02 CMS
Max	7.30	28.60	27.40	131.60	208.00	263.30	95.55	20.20	6.60	2.65	2.35	2.70	263.30 CMS
Min	1.00	1.85	4.70	19.60	25.20	59.25	22.00	6.90	2.65	1.70	1.15	0.77	0.77 CMS
Runoff	5.495	28.719	27.769	113.288	264.665	378.448	137.393	32.292	11.478	5.780	3.750	3.449	1012.526 MCM

Momentary Peak 274.30 CMS, at 9.06 M (A.D), at 6.00 Hours, on Sep 5, 1995

Runoff Yield 17.21 Liters/Second/Square KM, Momentary Peak Yield 147.394 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

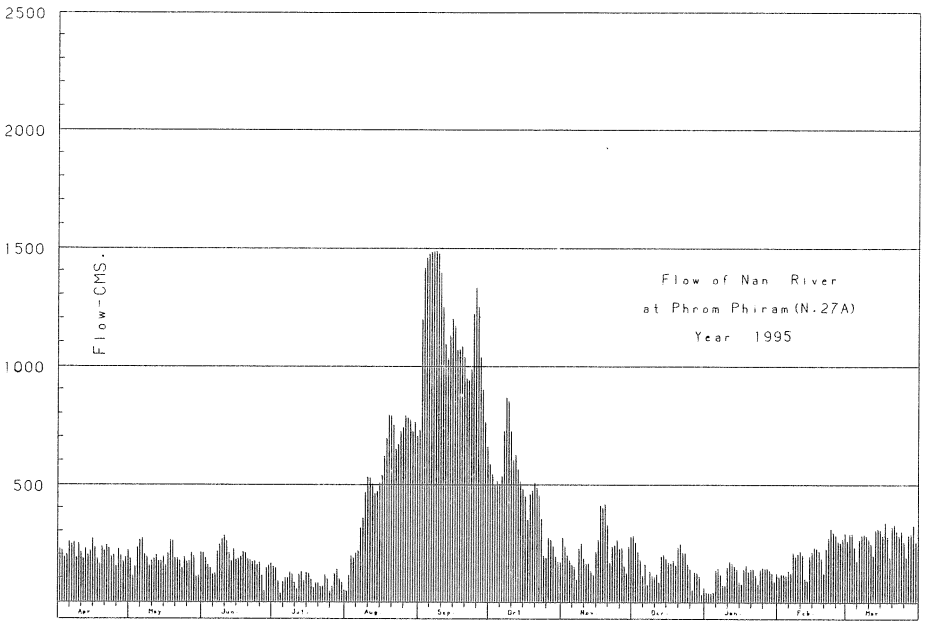
Nan River at Phrom Phiram, Phitsanulok (N.27A)

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	Overbank flow starts at elevation +48.37 m (M.S.L.) records are channel flow only.
General Description	Records fair. Flow regulated by Naresuan Dam. Stage-discharge relation defined by 25 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.77	41.26	41.57	40.78	39.17	46.14	45.11	42.28	42.35	39.05	40.16	42.11	
2	41.67	40.21	41.28	40.75	40.28	48.14	44.75	41.87	42.06	39.03	40.36	42.42	
3	41.34	40.81	40.91	39.88	41.38	48.69	44.38	41.43	41.60	38.95	40.30	42.43	
4	41.45	41.82	40.71	39.00	41.29	48.79	44.53	41.14	41.16	39.08	40.27	41.83	
5	42.10	42.17	40.35	39.86	41.53	48.83	44.44	40.92	40.22	40.58	40.53	41.14	
6	41.96	42.23	40.38	40.09	41.65	48.84	44.69	40.77	40.93	40.72	40.43	42.18	
7	42.08	41.49	41.62	40.13	42.70	48.85	46.10	40.01	39.65	40.33	41.55	42.35	
8	41.32	41.32	41.94	40.49	43.15	48.85	46.96	41.74	40.50	39.60	41.36	42.42	
9	42.00	40.86	42.23	40.33	44.13	48.83	46.87	42.00	40.25	39.61	41.48	42.32	
10	41.57	41.11	42.34	39.78	44.68	48.65	46.11	41.27	40.14	40.77	41.64	42.21	
11	41.27	41.22	42.13	39.35	44.64	48.28	45.25	40.94	40.33	41.07	41.44	41.97	
12	41.79	41.44	41.54	40.32	44.45	47.83	45.40	40.99	39.83	40.97	40.04	41.42	
13	41.43	41.13	41.13	40.52	44.07	47.63	44.93	40.54	41.37	40.83	39.93	42.61	
14	41.63	41.10	41.73	39.96	44.18	47.94	44.51	40.31	41.44	40.63	41.34	42.64	
15	42.24	41.35	41.21	40.46	44.58	48.15	44.23	41.57	41.26	39.82	41.57	42.62	
16	41.82	40.89	41.24	40.37	44.74	48.06	44.00	42.16	41.02	39.71	41.79	42.34	
17	41.23	41.53	41.37	40.02	45.36	47.75	43.05	43.64	41.00	40.61	41.77	43.07	
18	40.96	42.15	41.61	39.41	45.91	47.75	44.07	43.53	41.12	40.88	41.61	42.32	
19	41.84	42.14	41.53	39.74	46.56	47.80	44.19	43.69	40.88	40.52	41.27	41.29	
20	41.66	41.25	41.21	39.79	46.53	47.64	44.49	42.84	41.80	40.64	40.41	42.73	
21	41.91	41.26	41.20	39.48	46.29	47.30	44.29	41.03	41.99	40.68	41.76	42.86	
22	41.79	41.15	41.09	39.56	45.59	47.28	44.03	41.83	41.54	40.26	42.24	42.56	
23	41.33	40.72	41.09	40.28	45.74	47.45	43.13	41.93	41.55	39.72	42.67	42.32	
24	41.42	41.32	40.93	40.04	46.09	48.21	41.38	42.15	40.92	40.61	42.48	42.53	
25	40.82	41.07	41.01	39.17	46.22	48.50	41.30	41.75	40.67	40.75	42.38	42.06	
26	41.75	41.14	40.25	39.52	46.52	48.28	42.25	41.77	39.28	40.66	42.08	41.31	
27	41.42	41.56	39.19	40.38	46.48	47.65	42.17	40.83	40.45	40.71	42.04	42.38	
28	41.06	41.35	40.75	40.63	46.42	47.10	41.86	40.39	40.44	40.56	42.19	42.40	
29	41.29	40.20	40.86	40.05	46.10	46.36	41.37	41.86	40.19	40.42	42.47	42.82	
30	41.66	40.22	41.01	39.79	46.35	45.66	41.04	42.32	38.90	39.88		42.07	
31		41.56		39.22	45.95		41.02		39.39	40.38		42.40	
Mean	41.59	41.26	41.18	39.97	44.48	47.91	43.93	41.65	40.78	40.26	41.36	42.26	
Max	42.24	42.23	42.34	40.78	46.56	48.85	46.96	43.69	42.35	41.07	42.67	43.07	48.85
Min	40.82	40.20	39.19	39.00	39.17	45.66	41.02	40.01	38.90	38.95	39.93	41.14	38.90

Annual Max Momentary Gage Height 48.85 M (MSL), at 9.00 Hours, on Sep 6, 1995
Zero Gage at Bottom Elevation 38.43 M (MSL), River Bed 37.22 M (MSL)
Left Bank Elevation 48.86 M (MSL)
Right Bank Elevation 48.37 M (MSL), Drainage Area 19540 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.5	187.8	213.4	151.5	49.5	733.0	588.7	277.6	284.2	43.5	108.4	261.5	
2	221.9	111.6	189.4	149.3	116.2	1199.7	543.8	239.3	256.7	42.5	121.4	290.9	
3	194.2	153.8	161.3	90.2	197.4	1415.6	498.6	201.5	216.0	38.5	117.5	291.9	
4	203.2	234.8	146.3	41.0	190.2	1459.6	516.6	178.5	180.0	45.0	115.5	235.7	
5	260.5	267.1	120.7	88.9	210.0	1478.4	505.8	162.0	112.3	136.6	133.1	178.5	
6	247.4	272.8	122.7	103.8	220.3	1483.2	536.2	150.8	162.8	147.0	126.1	268.1	
7	258.6	206.7	217.7	106.5	317.5	1488.0	727.0	98.6	76.0	119.5	211.7	284.2	
8	192.6	192.6	245.6	130.3	361.0	1488.0	871.8	227.9	131.0	73.0	195.8	290.9	
9	251.0	157.5	272.8	119.5	469.0	1478.4	853.3	251.0	114.2	73.6	205.8	281.4	
10	213.4	176.3	283.3	83.8	535.0	1398.0	728.5	188.6	107.1	150.8	219.4	270.9	
11	188.6	184.6	263.4	59.2	530.0	1250.2	606.5	163.5	119.5	173.2	202.4	248.3	
12	232.2	202.4	210.9	118.8	507.0	1096.5	626.0	167.3	87.0	165.8	100.6	200.7	
13	201.5	177.8	177.8	132.4	462.0	1036.0	566.3	133.8	196.6	155.3	93.5	309.0	
14	218.6	175.5	227.0	95.4	474.7	1131.1	514.2	118.2	202.4	140.3	194.2	311.8	
15	273.8	195.0	183.8	128.2	522.6	1203.3	480.6	213.4	187.8	86.3	213.4	309.9	
16	234.8	159.7	186.2	122.0	542.5	1171.3	454.0	266.2	169.5	79.6	232.2	283.3	
17	185.4	210.0	196.6	99.3	620.8	1072.0	351.0	414.4	168.0	138.8	230.5	353.0	
18	165.0	265.3	216.9	62.6	698.5	1072.0	462.0	402.3	177.0	159.0	216.9	281.4	
19	236.6	264.3	210.0	81.4	797.6	1087.0	475.8	419.9	159.0	132.4	188.6	190.2	
20	221.1	187.0	183.8	84.4	792.8	1039.0	511.8	330.8	233.0	141.0	124.7	320.3	
21	242.9	187.8	183.0	66.4	755.5	950.0	487.8	170.2	250.1	144.0	229.6	332.7	
22	232.2	179.3	174.7	70.8	650.7	945.2	457.4	235.7	210.9	114.9	273.8	304.2	
23	193.4	147.0	174.7	116.2	673.0	987.2	359.0	244.7	211.7	80.2	314.6	281.4	
24	200.7	192.6	162.8	100.6	725.5	1224.6	197.4	265.3	162.0	138.8	296.6	301.3	
25	154.5	173.2	168.7	49.5	745.0	1335.0	191.0	228.8	143.2	149.3	287.1	256.7	
26	228.8	178.5	114.2	68.6	791.2	1250.2	274.7	230.5	55.4	142.5	258.6	191.8	
27	200.7	212.6	50.5	122.7	784.8	1042.0	267.1	155.3	127.5	146.3	254.8	287.1	
28	172.5	195.0	149.3	140.3	775.2	903.0	238.4	123.3	126.8	135.2	269.0	289.0	
29	190.2	111.0	157.5	101.2	727.0	766.0	196.6	238.4	110.3	125.4	295.7	328.9	
30	221.1	112.3	168.7	84.4	764.5	661.0	171.0	281.4	36.0	90.2		257.6	
31		212.6		52.1	704.5		169.5		61.4	122.7		289.0	
Total	6467.9	5884.5	5533.7	3021.3	16711.5	34844.5	14428.4	6779.2	4835.4	3631.2	5831.5	8581.6	116550.7 CMSDAY
Mean	215.6	189.8	184.5	97.5	539.1	1161.5	465.4	226.0	156.0	117.1	201.1	276.8	318.4 CMS
Max	273.8	272.8	283.3	151.5	797.6	1488.0	871.8	419.9	284.2	173.2	314.6	353.0	1488.0 CMS
Min	154.5	111.0	50.5	41.0	49.5	661.0	169.5	98.6	36.0	38.5	93.5	178.5	36.0 CMS
Runoff	558.83	508.42	478.11	261.04	1443.87	3010.56	1246.61	585.72	417.78	313.74	503.84	741.45	10069.98 MCM

Momentary Peak 1488.00 CMS, at 48.85 M (MSL), at 9.00 Hours, on Sep 6, 1995

Runoff Yield 16.30 Liters/Second/Square KM, Momentary Peak Yield 76.151 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

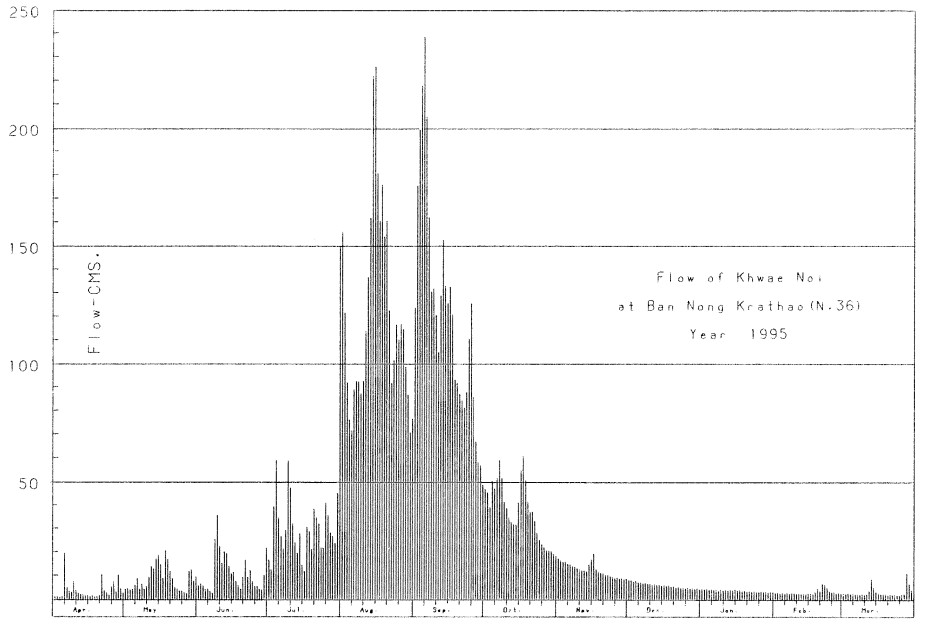
Nam Khwae Noi at Ban Nong Krathao, Phitsanulok (N.36)

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 +6.84 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 42 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	1.12	1.32	2.33	7.14	6.90	4.28	2.38	1.56	1.16	0.96	0.91	
2	0.67	1.15	1.37	1.97	6.88	7.24	4.22	2.30	1.53	1.16	0.94	0.92	
3	0.66	1.14	1.31	3.87	6.35	7.33	3.86	2.27	1.50	1.15	0.93	0.92	
4	0.66	1.14	1.11	4.91	5.75	7.40	4.48	2.26	1.49	1.14	0.94	0.91	
5	2.56	1.35	1.18	3.58	5.55	7.45	4.29	2.20	1.47	1.13	0.93	0.90	
6	1.24	1.60	1.00	3.08	6.24	7.35	4.53	2.16	1.44	1.13	0.94	0.89	
7	1.02	1.16	0.93	2.70	6.37	7.18	4.93	2.12	1.43	1.12	0.93	0.87	
8	0.98	1.36	2.98	3.23	6.35	6.97	4.55	2.08	1.42	1.11	0.93	0.87	
9	1.47	1.16	3.67	4.92	6.18	6.98	3.97	2.06	1.40	1.11	0.93	0.87	
10	1.07	1.26	2.80	4.33	6.37	6.87	3.84	2.00	1.38	1.11	0.92	0.86	
11	0.95	1.68	2.20	3.42	6.80	6.65	3.60	1.97	1.37	1.11	0.90	0.85	
12	0.88	2.11	2.60	2.88	7.02	6.95	3.48	1.94	1.36	1.10	0.91	1.07	
13	0.84	2.00	2.54	2.56	7.18	7.12	3.40	1.92	1.35	1.10	0.91	1.60	
14	0.80	2.37	2.12	3.15	7.41	6.99	3.40	2.16	1.34	1.11	0.91	1.24	
15	0.76	2.48	1.83	2.13	7.42	6.92	3.95	2.33	1.33	1.12	0.91	1.01	
16	0.75	2.15	1.86	1.92	7.26	6.99	4.70	2.55	1.32	1.10	0.90	0.92	
17	0.73	1.63	1.51	3.32	7.17	6.87	4.99	2.02	1.32	1.09	0.89	0.90	
18	0.71	2.65	1.30	3.22	7.24	6.39	4.50	1.90	1.31	1.07	0.99	0.87	
19	0.67	2.34	1.17	2.67	7.13	6.33	3.98	1.87	1.29	1.05	1.17	0.87	
20	0.83	1.90	1.65	3.80	7.17	6.18	3.73	1.82	1.27	1.04	1.05	0.84	
21	1.80	1.60	2.31	3.59	6.89	6.07	3.76	1.78	1.25	1.03	1.40	0.84	
22	1.08	1.25	1.67	3.44	6.34	5.97	3.52	1.75	1.24	1.03	1.36	0.84	
23	0.93	1.14	1.97	2.74	6.59	6.20	3.16	1.72	1.22	1.02	1.23	0.83	
24	0.84	1.07	1.47	2.71	6.83	6.75	2.98	1.67	1.21	1.01	1.03	0.83	
25	1.25	1.01	1.28	3.96	6.74	6.92	2.86	1.65	1.21	1.01	1.00	0.83	
26	1.46	0.93	1.30	3.67	6.83	6.12	2.74	1.64	1.21	1.01	0.98	0.83	
27	1.01	0.92	1.16	3.18	6.81	5.31	2.66	1.63	1.20	1.01	0.93	0.89	
28	1.78	1.94	1.08	3.06	6.52	4.86	2.63	1.61	1.20	1.00	0.94	1.85	
29	1.15	1.96	1.76	2.88	6.17	4.80	2.63	1.60	1.19	0.99	0.94	1.40	
30	0.96	1.51	2.72	4.20	5.51	4.40	2.51	1.59	1.19	0.98		1.09	
31		1.67		7.10	5.76		2.45		1.18	0.97		0.98	
Mean	1.04	1.57	1.77	3.37	6.64	6.55	3.70	1.97	1.33	1.07	0.99	0.98	
Max	2.56	2.65	3.67	7.10	7.42	7.45	4.99	2.55	1.56	1.16	1.40	1.85	7.45
Min	0.66	0.92	0.93	1.92	5.51	4.40	2.45	1.59	1.18	0.97	0.89	0.83	0.66

Annual Max Momentary Gage Height 7.48 M (AD), at 12.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.93 M (AD)
Left Bank Elevation 7.03 M (AD)
Right Bank Elevation 6.83 M (AD), Drainage Area 1651 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.5	4.4	6.2	17.1	156.1	124.0	46.9	17.8	8.6	4.7	3.2	2.8	
2	1.3	4.6	6.7	12.7	122.0	176.1	45.8	16.7	8.3	4.7	3.0	2.9	
3	1.3	4.5	6.1	39.7	92.5	199.7	39.5	16.4	8.0	4.6	3.0	2.9	
4	1.3	4.5	4.3	59.2	76.4	218.0	50.6	16.2	7.9	4.5	3.0	2.8	
5	20.0	6.5	4.8	34.7	72.0	239.0	47.1	15.5	7.7	4.5	3.0	2.7	
6	5.4	9.0	3.5	27.2	89.2	204.9	51.6	15.0	7.4	4.5	3.0	2.7	
7	3.6	4.7	3.0	21.8	93.1	162.4	59.6	14.5	7.3	4.4	3.0	2.5	
8	3.4	6.6	25.7	29.5	92.5	131.0	52.0	14.0	7.2	4.3	3.0	2.5	
9	7.7	4.7	36.2	59.4	87.5	132.0	41.5	13.7	7.0	4.3	3.0	2.5	
10	4.0	5.6	23.0	47.8	93.1	121.0	39.2	13.0	6.8	4.3	2.9	2.5	
11	3.1	9.8	15.5	32.3	114.0	105.0	35.0	12.7	6.7	4.3	2.7	2.4	
12	2.6	14.4	20.5	24.2	137.2	129.0	33.2	12.4	6.6	4.3	2.8	4.0	
13	2.3	13.0	19.7	20.0	162.4	153.0	32.0	12.2	6.5	4.3	2.8	9.0	
14	2.0	17.6	14.5	28.3	222.2	133.0	32.0	15.0	6.4	4.3	2.8	5.4	
15	1.8	19.0	11.3	14.6	226.4	126.0	41.1	17.1	6.3	4.4	2.8	3.6	
16	1.7	14.9	11.6	12.2	181.3	133.0	55.0	19.9	6.2	4.3	2.7	2.9	
17	1.7	9.3	8.1	30.8	160.9	121.0	60.8	13.3	6.2	4.2	2.7	2.7	
18	1.5	21.1	6.0	29.3	176.1	93.7	51.0	12.0	6.1	4.0	3.4	2.5	
19	1.3	17.2	4.8	21.4	154.5	91.9	41.7	11.7	5.9	3.9	4.8	2.5	
20	2.2	12.0	9.5	38.5	160.9	87.5	37.3	11.2	5.7	3.8	3.9	2.3	
21	11.0	9.0	16.9	34.9	123.0	84.4	37.8	10.8	5.5	3.7	7.0	2.3	
22	4.1	5.5	9.7	32.6	92.2	81.7	33.8	10.5	5.4	3.7	6.6	2.3	
23	3.0	4.5	12.7	22.3	101.6	88.0	28.4	10.2	5.2	3.6	5.3	2.2	
24	2.3	4.0	7.7	21.9	117.0	111.0	25.7	9.7	5.1	3.6	3.7	2.2	
25	5.5	3.6	5.8	41.3	110.4	126.0	23.9	9.5	5.1	3.6	3.5	2.2	
26	7.6	3.0	6.0	36.2	117.0	85.8	22.3	9.4	5.1	3.6	3.4	2.2	
27	3.6	2.9	4.7	28.7	115.0	67.2	21.3	9.3	5.0	3.6	3.0	2.7	
28	10.8	12.4	4.1	26.9	98.8	58.2	20.9	9.1	5.0	3.5	3.0	11.5	
29	4.6	12.6	10.6	24.2	87.2	57.0	20.9	9.0	4.9	3.4	3.0	7.0	
30	3.2	8.1	22.0	45.5	71.2	49.0	19.4	8.9	4.9	3.4		4.2	
31		9.7		149.8	76.6		18.6		4.8	3.3		3.4	
Total	125.4	278.7	341.2	1065.0	3780.3	3689.5	1165.9	386.7	194.8	125.6	100.0	106.3	11359.4 CMSDA
Mean	4.2	9.0	11.4	34.4	121.9	123.0	37.6	12.9	6.3	4.1	3.4	3.4	31.0 CMS
Max	20.0	21.1	36.2	149.8	226.4	239.0	60.8	19.9	8.6	4.7	7.0	11.5	239.0 CMS
Min	1.3	2.9	3.0	12.2	71.2	49.0	18.6	8.9	4.8	3.3	2.7	2.2	1.3 CMS
Runoff	10.83	24.08	29.48	92.02	326.62	318.77	100.73	33.41	16.83	10.85	8.64	9.18	981.45 MCM

Momentary Peak 251.60 CMS, at 7.48 M (AD), at 12.00 Hours, on Sep 5, 1995

Runoff Yield 18.80 Liters/Second/Square KM, Momentary Peak Yield 152.39 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

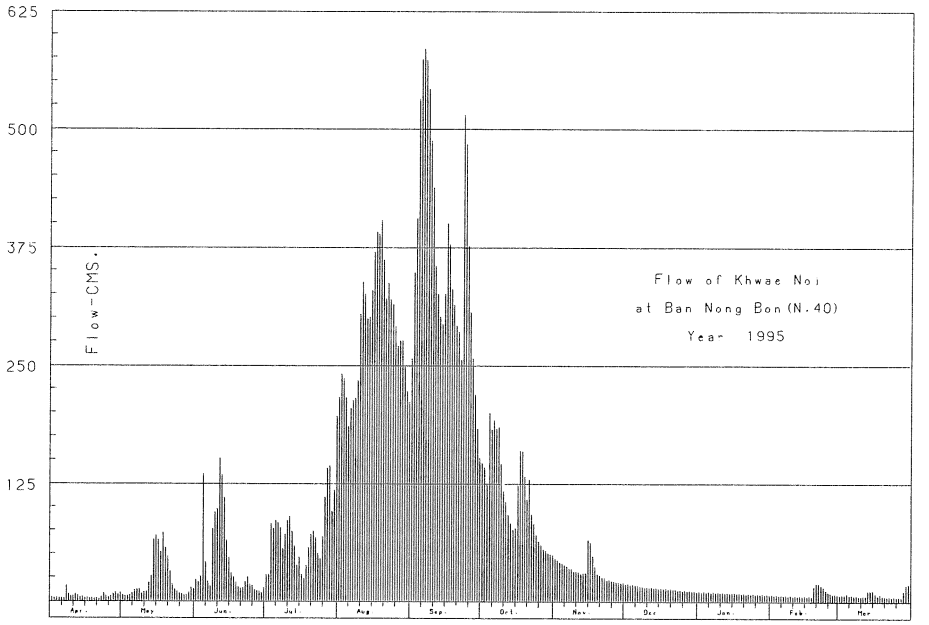
Nam Khwae Noi at Ban Nong Bon, Phitsanulok (N.40)

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	B.M.1 about 4 meters south of the gage site, B.M.2 about 90 meters south of the gage site.
Elevation	B.M.1=+14.45 m. (A.D.), B.M.2=+14.40 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1967 - 1968, 1972 to date.
Rating Operation	
Period of Rating	1977 to date.
Rated by Float	-
Rated by Current Meter	1977 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 68 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	0.83	1.53	1.72	5.79	6.44	4.59	2.28	1.38	0.99	0.83	0.82	
2	0.61	0.72	1.46	1.75	6.20	7.72	4.50	2.21	1.36	0.99	0.82	0.82	
3	0.60	0.77	1.66	3.24	6.12	8.46	4.15	2.16	1.34	0.99	0.82	0.84	
4	0.61	0.79	4.37	3.13	5.80	10.00	5.53	2.11	1.33	0.98	0.81	0.87	
5	0.58	0.93	2.17	3.35	5.29	10.50	5.24	2.06	1.32	0.98	0.80	0.82	
6	0.59	1.04	1.46	3.27	5.60	10.63	5.39	2.03	1.29	0.97	0.79	0.80	
7	1.30	1.11	1.28	3.15	5.74	10.48	5.24	1.97	1.27	0.97	0.79	0.78	
8	0.85	1.10	3.12	2.59	5.79	10.13	5.28	1.93	1.23	0.96	0.78	0.76	
9	0.75	0.90	3.53	2.96	6.09	9.48	4.58	1.86	1.22	0.96	0.77	0.75	
10	0.73	0.95	3.62	3.34	7.12	8.87	4.00	1.84	1.21	0.95	0.76	0.74	
11	0.88	0.99	4.69	3.43	7.59	7.81	3.78	1.82	1.21	0.94	0.76	0.73	
12	0.75	1.40	4.35	3.05	7.41	7.42	3.48	1.78	1.20	0.94	0.75	0.77	
13	0.68	1.71	3.88	2.65	7.06	7.08	3.25	1.78	1.20	0.93	0.75	1.02	
14	0.66	2.84	2.80	2.06	7.08	6.98	3.09	1.81	1.18	0.92	0.75	1.05	
15	0.62	2.93	2.30	2.31	7.47	7.41	3.12	2.83	1.17	0.92	0.75	1.03	
16	0.61	2.81	1.79	1.74	8.00	8.40	4.14	2.74	1.16	0.92	0.75	0.88	
17	0.59	2.47	1.66	1.60	8.29	8.11	4.82	2.36	1.16	0.92	0.74	0.79	
18	0.58	3.02	1.41	2.04	8.25	7.49	4.82	2.00	1.15	0.91	0.74	0.84	
19	0.57	2.62	1.24	2.62	8.43	7.25	4.32	1.78	1.14	0.90	1.22	0.76	
20	0.56	2.33	1.14	2.96	7.90	6.96	3.83	1.71	1.13	0.89	1.41	0.72	
21	0.55	1.87	1.16	3.06	7.34	6.85	4.27	1.65	1.12	0.88	1.37	0.70	
22	0.67	1.35	1.46	2.87	7.57	6.43	3.50	1.61	1.08	0.88	1.31	0.69	
23	0.92	1.13	1.66	2.43	7.33	9.80	3.24	1.54	1.07	0.87	1.20	0.69	
24	0.73	0.99	1.33	2.28	7.27	9.44	2.96	1.54	1.06	0.87	1.07	0.68	
25	0.67	0.92	1.28	2.91	6.93	8.09	2.79	1.51	1.05	0.86	0.98	0.68	
26	0.71	0.86	1.09	3.89	6.64	7.16	2.67	1.46	1.04	0.85	0.90	0.67	
27	0.88	0.82	1.04	4.48	6.73	6.44	2.57	1.46	1.04	0.85	0.87	0.67	
28	0.93	0.82	0.99	4.54	6.72	5.85	2.51	1.43	1.03	0.85	0.85	1.00	
29	0.86	0.96	0.94	3.56	6.33	5.24	2.45	1.42	1.02	0.84	0.83	1.29	
30	0.92	1.18	1.16	4.03	5.91	4.68	2.40	1.41	1.00	0.84		1.37	
31		1.14		5.46	5.71		2.38		0.99	0.83		0.99	
Mean	0.72	1.43	2.05	2.98	6.82	7.92	3.84	1.87	1.17	0.91	0.90	0.84	
Max	1.30	3.02	4.69	5.46	8.43	10.63	5.53	2.83	1.38	0.99	1.41	1.37	10.63
Min	0.55	0.72	0.94	1.60	5.29	4.68	2.38	1.41	0.99	0.83	0.74	0.67	0.55

Annual Max Momentary Gage Height 10.65 M (A.D), at 9.00 Hours, on Sep 6, 1995
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 13.31 M (A.D), Drainage Area 4340 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.3	7.4	23.2	28.3	216.4	257.6	147.5	46.1	19.3	10.8	7.4	7.2	
2	4.0	5.6	21.4	29.1	242.0	349.0	142.5	43.8	18.9	10.8	7.2	7.2	
3	3.9	6.4	26.6	82.6	236.8	405.8	124.5	42.2	18.4	10.8	7.2	7.6	
4	4.0	6.7	135.5	78.2	217.0	532.0	200.8	40.6	18.2	10.6	7.0	8.3	
5	3.6	9.5	42.5	87.0	186.4	574.5	183.4	38.9	18.0	10.6	6.8	7.2	
6	3.8	11.8	21.4	83.8	205.0	585.5	192.4	38.0	17.3	10.4	6.7	6.8	
7	17.5	13.3	17.0	79.0	213.4	572.8	183.4	36.0	16.8	10.4	6.7	6.5	
8	7.9	13.1	77.8	56.7	216.4	543.0	185.8	34.7	15.9	10.2	6.5	6.2	
9	6.1	8.9	94.9	71.4	234.9	487.8	146.9	32.5	15.7	10.2	6.4	6.1	
10	5.8	10.0	98.9	86.6	304.4	438.6	117.0	31.8	15.4	10.0	6.2	5.9	
11	8.5	10.8	153.0	90.4	339.3	355.7	106.1	31.2	15.4	9.7	6.2	5.8	
12	6.1	19.8	134.5	75.0	325.7	326.5	92.6	30.0	15.2	9.7	6.1	6.4	
13	5.1	28.0	111.0	59.0	300.2	301.6	83.0	30.0	15.2	9.5	6.1	11.4	
14	4.8	66.6	65.0	38.9	301.6	294.6	76.6	30.8	14.8	9.3	6.1	12.0	
15	4.2	70.2	46.7	47.1	330.2	325.7	77.8	66.2	14.6	9.3	6.1	11.6	
16	4.0	65.4	30.2	28.8	370.0	401.0	124.0	62.6	14.4	9.3	6.1	8.5	
17	3.8	52.5	26.6	25.0	392.2	378.2	160.1	48.7	14.4	9.3	5.9	6.7	
18	3.6	73.8	20.1	38.3	389.0	331.7	160.1	37.0	14.1	9.1	5.9	7.6	
19	3.5	57.8	16.1	57.8	403.4	313.7	133.0	30.0	13.9	8.9	15.7	6.2	
20	3.3	47.7	13.9	71.4	362.5	293.2	108.5	28.0	13.7	8.7	20.1	5.6	
21	3.2	32.8	14.4	75.4	320.5	285.5	130.5	26.4	13.5	8.5	19.1	5.4	
22	4.9	18.6	21.4	67.8	337.8	256.9	93.5	25.3	12.7	8.5	17.7	5.2	
23	9.3	13.7	26.6	51.0	319.7	515.0	82.6	23.4	12.5	8.3	15.2	5.2	
24	5.8	10.8	18.2	46.1	315.2	484.4	71.4	23.4	12.3	8.3	12.5	5.1	
25	4.9	9.3	17.0	69.4	291.1	376.8	64.6	22.7	12.0	8.1	10.6	5.1	
26	5.5	8.1	12.9	111.5	270.8	307.2	59.8	21.4	11.8	7.9	8.9	4.9	
27	8.5	7.2	11.8	141.4	277.1	257.6	56.0	21.4	11.8	7.9	8.3	4.9	
28	9.5	7.2	10.8	144.7	276.4	220.0	53.8	20.6	11.6	7.9	7.9	11.0	
29	8.1	10.2	9.7	96.2	250.5	183.4	51.7	20.3	11.4	7.6	7.4	17.3	
30	9.3	14.8	14.4	118.5	223.6	152.4	50.0	20.1	11.0	7.6		19.1	
31		13.9		196.6	211.6		49.4		10.8	7.4		10.8	
Total	176.8	731.9	1333.5	2333.0	8881.1	11107.7	3509.3	1004.1	451.0	285.6	260.0	244.8	30318.8 CMSDAY
Mean	5.9	23.6	44.5	75.3	286.5	370.3	113.2	33.5	14.5	9.2	9.0	7.9	82.8 CMS
Max	17.5	73.8	153.0	196.6	403.4	585.5	200.8	66.2	19.3	10.8	20.1	19.1	585.5 CMS
Min	3.2	5.6	9.7	25.0	186.4	152.4	49.4	20.1	10.8	7.4	5.9	4.9	3.2 CMS
Runoff	15.28	63.24	115.21	201.57	767.33	959.71	303.20	86.75	38.97	24.68	22.46	21.15	2619.54 MCM

Momentary Peak 587.25 CMS, at 10.65 M (A.D), at 9.00 Hours, on Sep 6, 1995

Runoff Yield 19.09 Liters/Second/Square KM, Momentary Peak Yield 135.311 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

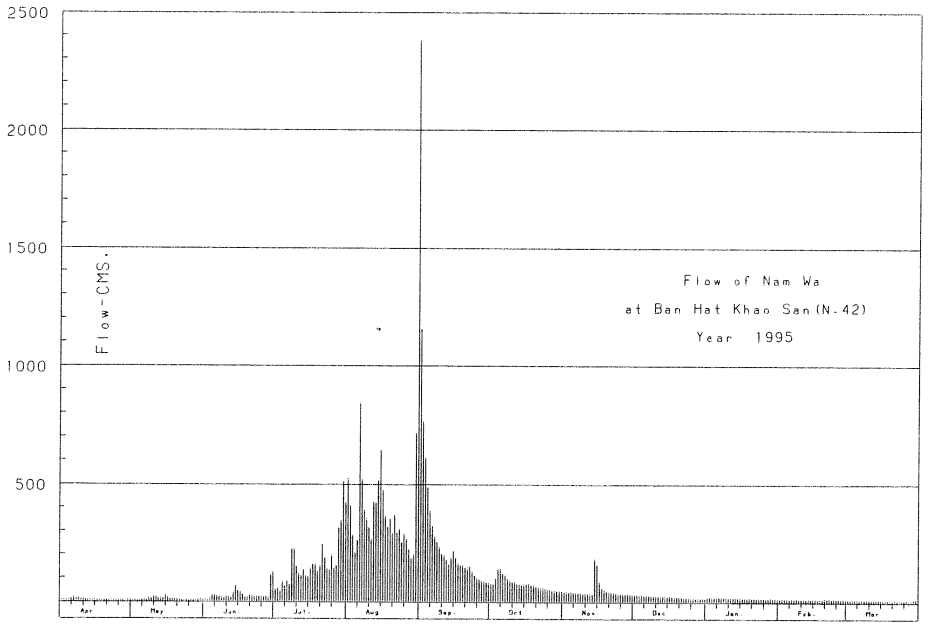
Nam Wa at Ban Hat Khao San, Nan (N.42)

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	Overbank flow starts at elevation +12.29 m.(A.D.), records are channel flow only.
General Description	Records good. Discharge estimated by logarithmic plotting. Stage-discharge relation defined by 129 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.82	1.79	1.85	2.34	6.30	8.51	2.92	2.48	2.28	1.97	1.85	1.79	
2	1.81	1.79	1.83	2.40	5.73	7.24	2.94	2.46	2.27	1.97	1.85	1.79	
3	1.81	1.81	1.96	2.27	4.89	6.68	3.21	2.45	2.26	1.96	1.85	1.78	
4	1.83	1.79	2.24	2.67	4.24	6.14	3.67	2.44	2.25	1.96	1.84	1.78	
5	1.95	1.83	2.24	2.50	4.72	5.60	3.69	2.43	2.24	1.95	1.84	1.78	
6	2.03	1.84	2.16	2.71	7.51	5.19	3.49	2.41	2.23	1.95	1.84	1.78	
7	1.93	1.82	2.13	2.56	6.28	4.84	3.39	2.40	2.22	1.95	1.84	1.78	
8	1.96	1.99	2.05	4.41	5.63	4.67	3.24	2.39	2.21	1.94	1.84	1.78	
9	1.90	1.96	2.06	4.40	5.39	4.47	3.12	2.37	2.21	1.94	1.83	1.78	
10	1.86	2.08	2.13	3.60	5.14	4.20	3.03	2.36	2.20	1.93	1.83	1.77	
11	1.84	2.10	2.10	3.00	4.74	4.12	3.04	2.35	2.19	1.93	1.83	1.76	
12	1.83	1.98	2.05	2.94	5.79	3.92	2.94	2.34	2.18	1.93	1.82	1.75	
13	1.82	2.00	2.19	3.39	5.79	3.71	2.90	2.33	2.18	1.92	1.82	1.75	
14	1.82	1.98	2.51	2.92	6.26	4.01	2.88	4.07	2.17	1.92	1.82	1.75	
15	1.81	2.19	2.29	2.89	6.81	4.33	2.94	3.86	2.17	1.91	1.81	1.74	
16	1.81	2.07	2.22	3.48	6.08	4.03	2.93	3.04	2.16	1.90	1.81	1.74	
17	1.80	1.95	2.09	3.72	5.44	3.75	2.94	2.70	2.15	1.90	1.80	1.74	
18	1.80	1.91	2.01	3.70	5.16	3.67	2.89	2.58	2.14	1.90	1.80	1.74	
19	1.80	1.89	1.98	3.26	5.38	3.64	2.85	2.51	2.12	1.89	1.80	1.73	
20	1.80	1.88	2.02	3.61	4.95	3.53	2.80	2.46	2.10	1.89	1.88	1.73	
21	1.80	1.85	2.05	4.59	5.47	3.54	2.76	2.44	2.09	1.89	1.87	1.73	
22	1.79	1.82	1.99	4.04	4.98	3.80	2.73	2.41	2.07	1.89	1.85	1.72	
23	1.79	1.80	1.99	3.43	5.09	3.57	2.72	2.39	2.05	1.88	1.85	1.72	
24	1.78	1.80	2.00	3.39	4.65	3.39	2.69	2.37	2.03	1.88	1.83	1.72	
25	1.78	1.79	1.98	4.14	4.93	3.27	2.64	2.35	2.01	1.87	1.83	1.72	
26	1.78	1.80	1.96	3.46	4.76	3.18	2.60	2.34	2.00	1.87	1.82	1.73	
27	1.83	1.80	2.01	3.63	4.39	3.10	2.57	2.33	2.00	1.86	1.81	1.72	
28	1.85	1.79	1.94	5.13	4.02	3.04	2.55	2.32	1.99	1.90	1.80	1.75	
29	1.85	1.88	2.96	5.33	4.15	3.02	2.54	2.31	1.99	1.87	1.80	1.82	
30	1.81	1.90	3.18	6.25	7.07	2.98	2.52	2.29	1.98	1.86		1.81	
31		1.90		5.78	11.88		2.50		1.98	1.86		1.77	
Mean	1.84	1.90	2.14	3.61	5.60	4.30	2.92	2.53	2.13	1.91	1.83	1.76	
Max	2.03	2.19	3.18	6.25	11.88	8.51	3.69	4.07	2.28	1.97	1.88	1.82	11.88
Min	1.78	1.79	1.83	2.27	4.02	2.98	2.50	2.29	1.98	1.86	1.80	1.72	1.72

Annual Max Momentary Gage Height 14.10 M (A.D), at 10.00 Hours, on Aug 31, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.25 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.5	9.3	11.7	54.5	526.0	1159.2	77.6	46.0	33.6	23.5	16.5	13.5	
2	10.1	9.3	10.9	60.0	413.4	767.2	79.2	44.7	33.1	23.5	16.5	13.5	
3	10.1	10.1	16.5	48.0	285.7	614.8	100.8	44.1	32.5	22.8	16.5	13.0	
4	10.9	9.3	31.3	87.0	211.0	490.8	142.0	43.5	31.9	22.8	16.0	13.0	
5	16.0	10.9	31.3	70.0	264.4	390.0	144.0	42.9	31.3	22.2	16.0	13.0	
6	19.8	11.3	26.8	91.0	847.0	326.6	124.1	41.6	30.7	22.2	16.0	13.0	
7	15.1	10.5	25.1	76.0	521.6	279.2	115.2	41.0	30.2	22.2	16.0	13.0	
8	16.5	17.8	20.8	228.1	395.4	258.4	103.2	40.4	29.6	21.6	16.0	13.0	
9	13.7	16.5	21.4	227.0	356.4	234.7	93.6	39.1	29.6	21.6	15.5	13.0	
10	12.1	22.4	25.1	154.0	319.6	207.0	86.4	38.5	29.0	20.9	15.5	12.6	
11	11.3	23.4	23.4	120.0	266.8	199.0	87.2	37.9	28.4	20.9	15.5	12.1	
12	10.9	17.4	20.8	114.0	424.2	179.8	79.2	37.3	27.9	20.9	15.0	11.6	
13	10.5	18.3	40.8	139.5	424.2	162.8	76.0	36.7	27.9	20.3	15.0	11.6	
14	10.5	17.4	71.0	112.0	517.2	188.0	74.5	185.4	27.3	20.3	15.0	11.6	
15	10.1	28.4	49.9	109.0	648.6	220.0	79.2	161.6	27.3	19.6	14.5	11.1	
16	10.1	21.9	43.4	144.8	478.0	190.0	78.4	87.2	26.8	19.0	14.5	11.1	
17	9.6	16.0	32.4	163.6	364.4	166.0	79.2	61.5	26.2	19.0	14.0	11.1	
18	9.6	14.2	26.2	162.0	322.4	159.6	75.3	52.9	25.6	19.0	14.0	11.1	
19	9.6	13.3	24.1	133.0	354.8	157.2	72.3	47.9	24.5	18.5	14.0	10.6	
20	9.6	12.9	27.0	154.8	293.5	148.4	68.7	44.7	23.4	18.5	18.0	10.6	
21	9.6	11.7	29.3	248.8	369.2	149.2	65.8	43.5	22.9	18.5	17.5	10.6	
22	9.3	10.5	24.8	191.0	297.4	155.0	63.7	41.6	21.9	18.5	16.5	10.2	
23	9.3	9.6	24.8	141.8	312.6	132.0	62.9	40.4	20.8	18.0	16.5	10.2	
24	8.9	9.6	25.4	139.5	256.0	115.2	60.8	39.1	19.8	18.0	15.5	10.2	
25	8.9	9.3	24.1	201.0	290.9	105.6	57.2	37.9	18.8	17.5	15.5	10.2	
26	8.9	9.6	22.8	143.6	269.2	98.4	54.3	37.3	18.3	17.5	15.0	10.6	
27	10.9	9.6	26.2	156.4	226.0	92.0	52.2	36.7	18.3	17.0	14.5	10.2	
28	11.7	9.3	21.6	318.2	189.0	87.2	50.7	36.0	17.8	19.0	14.0	11.6	
29	11.7	12.9	116.0	346.8	202.0	85.6	50.0	35.4	17.8	17.5	14.0	15.0	
30	10.1	13.7	129.0	515.0	719.6	82.4	48.6	34.2	17.4	17.0		14.5	
31		13.7		422.4	2384.0		47.2		17.4	17.0		12.6	
Total	335.9	430.1	1023.9	5272.8	13750.5	7601.3	2449.5	1557.0	788.0	614.8	449.0	369.0	34641.8 CMSDAY
Mean	11.2	13.9	34.1	170.1	443.6	253.4	79.0	51.9	25.4	19.8	15.5	11.9	94.6 CMS
Max	19.8	28.4	129.0	515.0	2384.0	1159.2	144.0	185.4	33.6	23.5	18.0	15.0	2384.0 CMS
Min	8.9	9.3	10.9	48.0	189.0	82.4	47.2	34.2	17.4	17.0	14.0	10.2	8.9 CMS
Runoff	29.02	37.16	88.46	455.57	1188.04	656.75	211.64	134.52	68.08	53.12	38.79	31.88	2993.05 MCM

Momentary Peak 3200.00 CMS, at 14.10 M (A.D), at 10.00 Hours, on Aug 31, 1995

Runoff Yield 44.92 Liters/Second/Square KM, Momentary Peak Yield 1518.747 Liters/Second/Square KM

WATER YEAR 1995

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 — Stable.

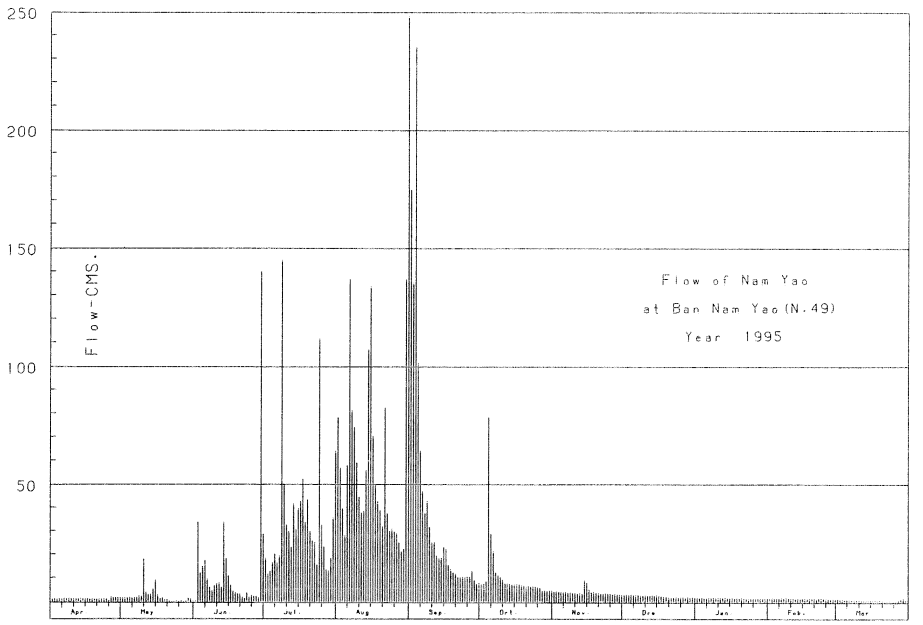
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 33 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.45	1.48	1.41	1.93	2.48	3.10	1.76	1.69	1.64	1.59	1.58	1.55	
2	1.45	1.48	2.08	1.84	2.31	2.86	1.76	1.69	1.64	1.59	1.58	1.54	
3	1.45	1.48	1.79	1.86	2.15	3.44	1.79	1.69	1.64	1.59	1.58	1.54	
4	1.45	1.48	1.84	1.91	2.03	2.64	2.48	1.68	1.64	1.59	1.58	1.54	
5	1.45	1.48	1.89	1.95	2.32	2.37	2.04	1.68	1.64	1.59	1.58	1.54	
6	1.46	1.48	1.73	1.91	2.87	2.22	1.96	1.68	1.64	1.59	1.58	1.53	
7	1.46	1.49	1.64	1.94	2.50	2.13	1.85	1.67	1.64	1.59	1.58	1.53	
8	1.46	1.51	1.59	2.92	2.45	2.18	1.83	1.67	1.63	1.59	1.58	1.53	
9	1.46	1.51	1.66	2.25	2.33	2.07	1.82	1.67	1.63	1.59	1.58	1.53	
10	1.46	1.90	1.68	2.08	2.20	2.00	1.80	1.66	1.63	1.59	1.57	1.52	
11	1.46	1.57	1.69	2.05	2.13	2.00	1.77	1.66	1.63	1.59	1.57	1.52	
12	1.46	1.54	1.64	1.98	2.14	1.94	1.77	1.66	1.63	1.59	1.57	1.52	
13	1.46	1.54	2.09	2.17	2.30	1.93	1.76	1.66	1.63	1.59	1.57	1.51	
14	1.46	1.62	1.93	2.06	2.68	1.93	1.76	1.80	1.63	1.59	1.57	1.51	
15	1.46	1.72	1.83	2.15	2.85	1.98	1.76	1.78	1.63	1.59	1.57	1.51	
16	1.45	1.53	1.75	2.18	2.42	1.97	1.76	1.71	1.62	1.58	1.57	1.51	
17	1.45	1.47	1.70	2.27	2.25	1.90	1.76	1.68	1.62	1.58	1.57	1.51	
18	1.45	1.47	1.67	2.09	2.18	1.87	1.75	1.68	1.61	1.58	1.57	1.51	
19	1.45	1.44	1.66	2.19	2.14	1.85	1.75	1.67	1.61	1.58	1.57	1.51	
20	1.45	1.43	1.65	2.05	2.07	1.84	1.74	1.66	1.60	1.58	1.57	1.51	
21	1.45	1.41	1.60	2.01	2.51	1.82	1.74	1.66	1.60	1.57	1.57	1.50	
22	1.45	1.40	1.58	2.00	2.13	1.82	1.74	1.66	1.60	1.57	1.58	1.50	
23	1.45	1.40	1.67	1.90	2.05	1.82	1.74	1.66	1.60	1.57	1.57	1.50	
24	1.45	1.40	1.60	2.71	2.06	1.82	1.74	1.66	1.60	1.57	1.57	1.50	
25	1.45	1.40	1.63	2.08	2.05	1.82	1.73	1.65	1.60	1.57	1.56	1.50	
26	1.50	1.40	1.62	1.98	2.04	1.82	1.73	1.65	1.60	1.57	1.56	1.50	
27	1.49	1.40	1.62	1.87	2.00	1.86	1.70	1.65	1.60	1.57	1.55	1.52	
28	1.49	1.40	1.58	1.86	1.96	1.80	1.70	1.65	1.60	1.57	1.55	1.55	
29	1.48	1.47	2.89	1.93	1.97	1.76	1.70	1.64	1.60	1.57	1.55	1.57	
30	1.48	1.45	2.04	2.11	2.87	1.77	1.70	1.64	1.60	1.57		1.53	
31		1.41		2.37	3.51		1.70		1.60	1.57		1.52	
Mean	1.46	1.49	1.76	2.08	2.32	2.08	1.79	1.68	1.62	1.58	1.57	1.52	
Max	1.50	1.90	2.89	2.92	3.51	3.44	2.48	1.80	1.64	1.59	1.58	1.57	3.51
Min	1.45	1.40	1.41	1.84	1.96	1.76	1.70	1.64	1.60	1.57	1.55	1.50	1.40

Annual Max Momentary Gage Height 3.95 M (A.D), at 19.00 Hours, on Aug 30, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.15 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	2.04	0.78	18.85	78.80	175.00	7.70	4.72	3.32	2.05	1.90	1.45	
2	1.50	2.04	34.20	12.10	57.20	135.60	7.70	4.72	3.32	2.05	1.90	1.30	
3	1.50	2.04	12.56	13.40	40.00	235.40	9.05	4.72	3.32	2.05	1.90	1.30	
4	1.50	2.04	15.24	16.95	28.35	101.50	78.80	4.44	3.32	2.05	1.90	1.30	
5	1.50	2.04	18.04	20.75	58.40	64.40	29.30	4.44	3.32	2.05	1.90	1.30	
6	1.68	2.04	9.92	16.95	137.20	47.20	21.70	4.44	3.32	2.05	1.90	1.15	
7	1.68	2.22	6.56	19.80	81.50	38.00	12.75	4.16	3.32	2.05	1.90	1.15	
8	1.68	2.68	4.92	145.20	74.75	43.00	11.45	4.16	3.04	2.05	1.90	1.15	
9	1.68	2.68	7.24	50.50	59.60	32.15	10.80	4.16	3.04	2.05	1.90	1.15	
10	1.68	18.60	7.92	33.10	45.00	25.50	9.50	3.88	3.04	2.05	1.75	1.00	
11	1.68	4.36	8.26	30.25	38.00	25.50	8.15	3.88	3.04	2.05	1.75	1.00	
12	1.68	3.52	6.56	23.60	39.00	19.80	8.15	3.88	3.04	2.05	1.75	1.00	
13	1.68	3.52	34.05	42.00	56.00	18.85	7.70	3.88	3.04	2.05	1.75	0.85	
14	1.68	5.88	18.85	31.20	107.50	18.85	7.70	9.50	3.04	2.05	1.75	0.85	
15	1.68	9.48	11.45	40.00	134.00	23.60	7.70	8.60	3.04	2.05	1.75	0.85	
16	1.50	3.24	7.25	43.00	70.70	22.65	7.70	5.45	2.76	1.90	1.75	0.85	
17	1.50	1.86	5.00	52.70	50.50	16.00	7.70	4.44	2.76	1.90	1.75	0.85	
18	1.50	1.86	4.16	34.05	43.00	14.05	7.25	4.44	2.48	1.90	1.75	0.85	
19	1.50	1.32	3.88	44.00	39.00	12.75	7.25	4.16	2.48	1.90	1.75	0.85	
20	1.50	1.14	3.60	30.25	32.15	12.10	6.80	3.88	2.20	1.90	1.75	0.85	
21	1.50	0.78	2.20	26.45	82.90	10.80	6.80	3.88	2.20	1.75	1.75	0.70	
22	1.50	0.60	1.90	25.50	38.00	10.80	6.80	3.88	2.20	1.75	1.90	0.70	
23	1.50	0.60	4.16	16.00	30.25	10.80	6.80	3.88	2.20	1.75	1.75	0.70	
24	1.50	0.60	2.20	112.05	31.20	10.80	6.80	3.88	2.20	1.75	1.75	0.70	
25	1.50	0.60	3.04	33.10	30.25	10.80	6.35	3.60	2.20	1.75	1.60	0.70	
26	2.40	0.60	2.76	23.60	29.30	10.80	6.35	3.60	2.20	1.75	1.60	0.70	
27	2.22	0.60	2.76	14.05	25.50	13.40	5.00	3.60	2.20	1.75	1.45	1.00	
28	2.22	0.60	1.90	13.40	21.70	9.50	5.00	3.60	2.20	1.75	1.45	1.45	
29	2.04	1.86	140.40	18.85	22.65	7.70	5.00	3.32	2.20	1.75	1.45	1.75	
30	2.04	1.50	29.30	36.00	137.20	8.15	5.00	3.32	2.20	1.75		1.15	
31		0.78		64.40	248.35		5.00		2.20	1.75		1.00	
Total	50.22	83.72	411.06	1102.05	1967.95	1185.45	339.75	132.51	84.44	59.50	51.05	31.60	5499.30 CMSDAY
Mean	1.67	2.70	13.70	35.55	63.48	39.52	10.96	4.42	2.72	1.92	1.76	1.02	15.03 CMS
Max	2.40	18.60	140.40	145.20	248.35	235.40	78.80	9.50	3.32	2.05	1.90	1.75	248.35 CMS
Min	1.50	0.60	0.78	12.10	21.70	7.70	5.00	3.32	2.20	1.75	1.45	0.70	0.60 CMS
Runoff	4.339	7.233	35.516	95.217	170.031	102.423	29.354	11.449	7.296	5.141	4.411	2.730	475.140 MCM

Momentary Peak 331.50 CMS, at 3.95 M (A.D), at 19.00 Hours, on Aug 30, 1995

Runoff Yield 96.94 Liters/Second/Square KM, Momentary Peak Yield 2138.710 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

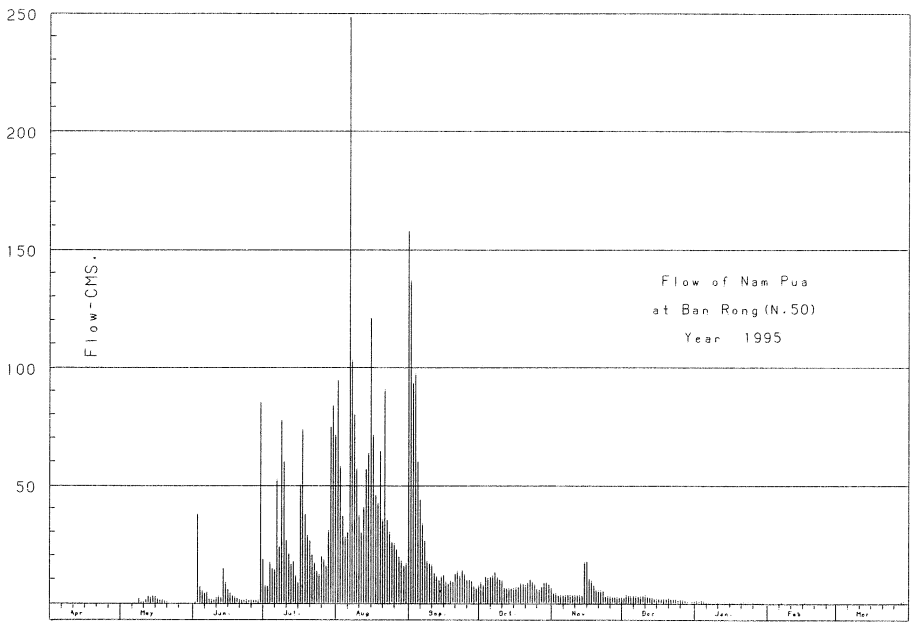
Nam Pua at Ban Rong, Nan (N.50)

Location	Lat. 19°-11'-38" N., Long. 100°-55'-14" E., on left bank downstream of the bridge of Nam Pua, along Pua-Thung Chang road at Ban Rong, Amphoe Pua, Nan.
Drainage Area	192 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+4.361 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.30	-0.32	-0.25	0.10	1.17	1.45	0.14	0.01	-0.07	-0.18	-0.28	-0.26	
2	-0.30	-0.32	0.66	0.10	0.87	1.16	0.11	0.01	-0.02	-0.18	-0.28	-0.27	
3	-0.30	-0.30	0.10	0.35	0.65	1.19	0.21	-0.03	-0.03	-0.17	-0.28	-0.26	
4	-0.28	-0.30	0.04	0.30	0.53	0.89	0.19	-0.03	-0.04	-0.17	-0.28	-0.27	
5	-0.28	-0.29	0.02	0.28	0.56	0.73	0.21	-0.02	-0.03	-0.24	-0.28	-0.31	
6	-0.28	-0.29	0.02	0.82	2.09	0.61	0.22	-0.02	-0.04	-0.25	-0.27	-0.31	
7	-0.28	-0.25	-0.10	0.47	1.23	0.51	0.26	-0.01	-0.05	-0.24	-0.27	-0.31	
8	-0.27	-0.09	-0.12	1.04	1.06	0.36	0.20	-0.02	-0.05	-0.24	-0.27	-0.32	
9	-0.27	-0.23	-0.14	0.89	0.86	0.34	0.18	-0.02	-0.03	-0.24	-0.27	-0.32	
10	-0.27	-0.23	-0.08	0.51	0.65	0.33	0.16	-0.02	-0.02	-0.24	-0.27	-0.32	
11	-0.26	-0.13	-0.04	0.42	0.56	0.25	0.08	-0.02	-0.05	-0.23	-0.27	-0.32	
12	-0.26	-0.04	-0.06	0.33	0.69	0.21	0.07	-0.02	-0.06	-0.23	-0.27	-0.28	
13	-0.26	-0.07	0.30	0.36	0.86	0.17	0.07	-0.03	-0.08	-0.24	-0.27	-0.31	
14	-0.26	-0.04	0.14	0.22	0.92	0.21	0.07	0.35	-0.10	-0.24	-0.27	-0.24	
15	-0.27	-0.06	0.06	0.14	1.35	0.23	0.07	0.36	-0.10	-0.25	-0.27	-0.31	
16	-0.27	-0.10	0.01	0.80	0.99	0.15	0.08	0.19	-0.10	-0.25	-0.27	-0.31	
17	-0.27	-0.14	-0.03	1.01	0.75	0.13	0.09	0.16	-0.10	-0.27	-0.27	-0.31	
18	-0.27	-0.15	-0.06	0.66	0.71	0.16	0.13	0.11	-0.11	-0.25	-0.27	-0.31	
19	-0.29	-0.17	-0.08	0.54	0.93	0.15	0.13	0.05	-0.10	-0.24	-0.27	-0.31	
20	-0.30	-0.20	-0.13	0.51	0.63	0.24	0.11	0.05	-0.09	-0.23	-0.27	-0.31	
21	-0.30	-0.25	-0.15	0.41	1.14	0.27	0.13	0.05	-0.11	-0.22	-0.30	-0.31	
22	-0.30	-0.27	-0.14	0.34	0.63	0.22	0.18	0.04	-0.11	-0.22	-0.27	-0.31	
23	-0.30	-0.30	-0.13	0.27	0.56	0.28	0.15	-0.05	-0.12	-0.22	-0.26	-0.31	
24	-0.30	-0.30	-0.15	0.23	0.50	0.23	0.12	-0.04	-0.15	-0.24	-0.26	-0.31	
25	-0.30	-0.29	-0.15	0.40	0.49	0.17	0.06	-0.05	-0.15	-0.24	-0.26	-0.31	
26	-0.30	-0.29	-0.15	0.37	0.45	0.17	0.05	-0.06	-0.15	-0.24	-0.25	-0.32	
27	-0.30	-0.27	-0.15	0.32	0.40	0.16	0.09	-0.06	-0.16	-0.25	-0.25	-0.22	
28	-0.30	-0.25	-0.15	0.57	0.36	0.09	0.14	-0.06	-0.20	-0.25	-0.25	-0.19	
29	-0.31	-0.25	1.10	1.02	0.32	0.07	0.14	-0.07	-0.21	-0.26	-0.26	-0.18	
30	-0.32	-0.27	0.38	1.09	0.34	0.10	0.12	-0.07	-0.20	-0.27		-0.24	
31		-0.27		0.99	1.58		0.07		-0.18	-0.27		-0.23	
Mean	-0.29	-0.22	0.02	0.51	0.80	0.37	0.13	0.02	-0.10	-0.23	-0.27	-0.29	
Max	-0.26	-0.04	1.10	1.09	2.09	1.45	0.26	0.36	-0.02	-0.17	-0.25	-0.18	2.09
Min	-0.32	-0.32	-0.25	0.10	0.32	0.07	0.05	-0.07	-0.21	-0.27	-0.30	-0.32	-0.32

Annual Max Momentary Gage Height 2.25 M (A.D), at 6.00 Hours, on Aug 6, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.14 M (A.D)
Left Bank Elevation 3.62 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.14	0.49	7.50	94.95	137.00	8.90	4.35	2.60	1.04	0.30	0.42	
2	0.17	0.14	38.10	7.50	58.20	93.60	7.85	4.35	3.60	1.04	0.30	0.36	
3	0.17	0.17	7.50	17.50	37.25	97.65	11.40	3.40	3.40	1.16	0.30	0.42	
4	0.30	0.17	5.40	15.00	28.10	60.40	10.65	3.40	3.20	1.16	0.30	0.36	
5	0.30	0.23	4.70	14.20	30.20	44.20	11.40	3.60	3.40	0.55	0.30	0.15	
6	0.30	0.23	4.70	52.70	248.65	33.85	11.80	3.60	3.20	0.49	0.36	0.15	
7	0.30	0.49	2.00	24.20	103.35	26.70	13.40	3.80	3.00	0.55	0.36	0.15	
8	0.36	2.20	1.76	77.70	80.30	18.00	11.00	3.60	3.00	0.55	0.36	0.14	
9	0.36	0.61	1.52	60.40	57.10	17.00	10.30	3.60	3.40	0.55	0.36	0.14	
10	0.36	0.61	2.40	26.70	37.25	16.50	9.60	3.60	3.60	0.55	0.36	0.14	
11	0.42	1.64	3.20	21.20	30.20	13.00	6.80	3.60	3.00	0.61	0.36	0.14	
12	0.42	3.20	2.80	16.50	40.65	11.40	6.45	3.60	2.80	0.61	0.36	0.30	
13	0.42	2.60	15.00	18.00	57.10	9.95	6.45	3.40	2.40	0.55	0.36	0.15	
14	0.42	3.20	8.90	11.80	63.70	11.40	6.45	17.50	2.00	0.55	0.36	0.55	
15	0.36	2.80	6.10	8.90	121.25	12.20	6.45	18.00	2.00	0.49	0.36	0.15	
16	0.36	2.00	4.35	50.50	71.40	9.25	6.80	10.65	2.00	0.49	0.36	0.15	
17	0.36	1.52	3.40	73.80	46.00	8.55	7.15	9.60	2.00	0.36	0.36	0.15	
18	0.36	1.40	2.80	38.10	42.40	9.60	8.55	7.85	1.88	0.49	0.36	0.15	
19	0.23	1.16	2.40	28.80	64.80	9.25	8.55	5.75	2.00	0.55	0.36	0.15	
20	0.17	0.80	1.64	26.70	35.55	12.60	7.85	5.75	2.20	0.61	0.36	0.15	
21	0.17	0.49	1.40	20.60	90.90	13.80	8.55	5.75	1.88	0.67	0.17	0.15	
22	0.17	0.36	1.52	17.00	35.55	11.80	10.30	5.40	1.88	0.67	0.36	0.15	
23	0.17	0.17	1.64	13.80	30.20	14.20	9.25	3.00	1.76	0.67	0.42	0.15	
24	0.17	0.17	1.40	12.20	26.00	12.20	8.20	3.20	1.40	0.55	0.42	0.15	
25	0.17	0.23	1.40	20.00	25.40	9.95	6.10	3.00	1.40	0.55	0.42	0.15	
26	0.17	0.23	1.40	18.50	23.00	9.95	5.75	2.80	1.40	0.55	0.49	0.14	
27	0.17	0.36	1.40	16.00	20.00	9.60	7.15	2.80	1.28	0.49	0.49	0.67	
28	0.17	0.49	1.40	30.90	18.00	7.15	8.90	2.80	0.80	0.49	0.49	0.92	
29	0.15	0.49	85.50	75.10	16.00	6.45	8.90	2.60	0.74	0.42	0.42	1.04	
30	0.14	0.36	19.00	84.20	17.00	7.50	8.20	2.60	0.80	0.36		0.55	
31		0.36		71.40	158.20		6.45		1.04	0.36		0.61	
Total	7.96	29.02	235.22	977.40	1808.65	754.70	265.55	156.95	69.06	18.73	10.58	9.15	4342.97 CMSDAY
Mean	0.27	0.94	7.84	31.53	58.34	25.16	8.57	5.23	2.23	0.60	0.36	0.30	11.87 CMS
Max	0.42	3.20	85.50	84.20	248.65	137.00	13.40	18.00	3.60	1.16	0.49	1.04	248.65 CMS
Min	0.14	0.14	0.49	7.50	16.00	6.45	5.75	2.60	0.74	0.36	0.17	0.14	0.14 CMS
Runoff	0.688	2.507	20.323	84.447	156.267	65.206	22.944	13.560	5.967	1.618	0.914	0.791	375.233 MCM

Momentary Peak 279.00 CMS, at 2.25 M (A.D), at 6.00 Hours, on Aug 6, 1995

Runoff Yield 61.80 Liters/Second/Square KM, Momentary Peak Yield 1453.125 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

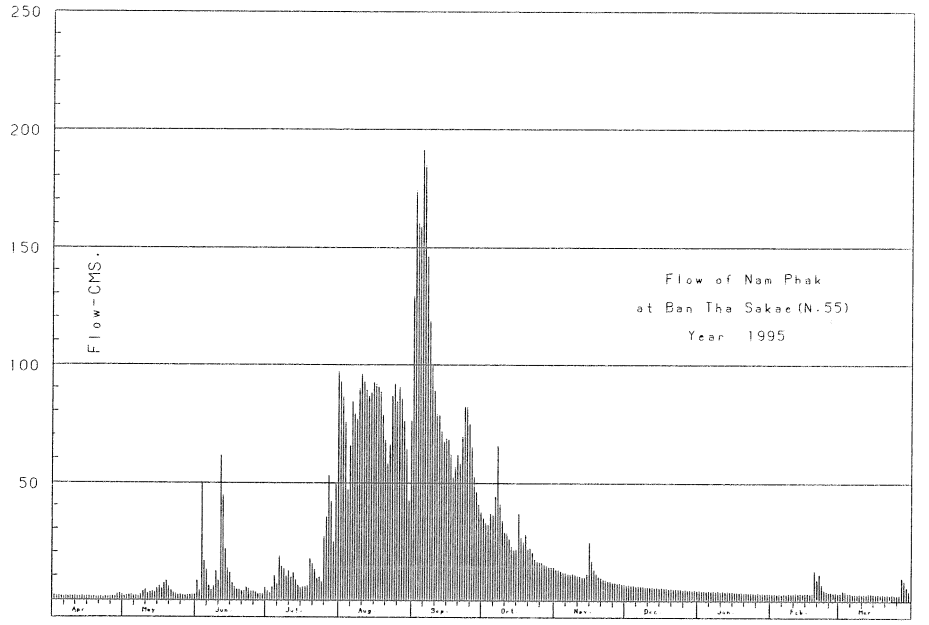
Nam Phak at Ban Tha Sakae, Phitsanulok (N.55)

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 +5.96 m.(A.D.) records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 69 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.67	0.67	1.32	0.91	5.48	6.22	3.02	1.67	1.18	0.95	0.82	0.83	
2	0.66	0.67	0.92	0.86	5.26	6.68	2.90	1.65	1.17	0.94	0.81	0.95	
3	0.66	0.73	3.82	1.06	4.88	6.60	2.87	1.61	1.16	0.93	0.81	0.90	
4	0.65	0.72	1.92	1.47	3.66	6.58	3.11	1.58	1.15	0.93	0.80	0.85	
5	0.65	0.68	1.67	1.22	4.49	6.78	3.09	1.56	1.14	0.93	0.80	0.83	
6	0.65	0.66	1.15	2.06	5.20	6.74	3.51	1.53	1.13	0.93	0.80	0.80	
7	0.65	0.67	0.94	1.77	5.01	6.44	4.49	1.52	1.13	0.92	0.80	0.80	
8	0.65	0.74	1.10	1.68	4.94	6.05	3.33	1.53	1.11	0.92	0.82	0.80	
9	0.65	0.91	1.62	1.46	5.38	5.66	2.95	1.51	1.10	0.92	0.82	0.80	
10	0.65	0.95	1.32	1.61	5.57	5.36	2.69	1.46	1.09	0.91	0.83	0.79	
11	0.65	0.82	4.31	1.41	5.48	5.01	2.66	1.45	1.09	0.91	0.83	0.79	
12	0.65	0.86	3.52	1.57	5.36	5.00	2.53	1.43	1.08	0.91	0.83	0.80	
13	0.65	0.89	2.27	1.33	5.27	4.73	2.32	1.41	1.07	0.90	0.83	0.83	
14	0.64	0.87	1.69	1.16	5.33	4.56	2.24	1.52	1.07	0.90	0.82	0.83	
15	0.64	1.01	1.55	1.06	5.47	4.61	2.25	2.45	1.06	0.89	0.82	0.80	
16	0.63	1.11	1.25	1.08	5.44	4.60	3.13	1.94	1.06	0.89	0.82	0.79	
17	0.63	1.02	1.07	1.11	5.41	4.32	2.55	1.67	1.06	0.87	0.82	0.78	
18	0.62	1.22	0.99	1.12	5.33	3.91	2.44	1.53	1.05	0.87	0.82	0.78	
19	0.61	1.31	0.96	2.00	5.00	4.09	2.64	1.45	1.03	0.87	1.63	0.77	
20	0.61	1.09	0.93	1.83	4.58	4.31	2.27	1.40	1.02	0.86	1.36	0.77	
21	0.61	0.95	0.91	1.65	4.16	4.16	2.28	1.37	1.02	0.86	1.54	0.76	
22	0.61	0.85	1.08	1.39	4.50	4.64	2.18	1.34	1.01	0.86	1.20	0.76	
23	0.61	0.79	1.00	1.41	5.28	5.12	1.97	1.31	1.01	0.85	0.99	0.76	
24	0.62	0.75	0.91	1.28	5.45	5.11	1.93	1.29	1.00	0.85	0.92	0.76	
25	0.63	0.73	0.89	2.57	5.19	4.86	1.90	1.27	0.98	0.84	0.90	0.75	
26	0.63	0.71	0.88	3.05	5.40	4.47	1.87	1.25	0.98	0.84	0.88	0.75	
27	0.64	0.70	0.80	3.94	5.24	3.91	1.83	1.24	0.97	0.83	0.86	1.42	
28	0.76	0.70	0.78	3.39	4.90	3.61	1.78	1.23	0.96	0.83	0.85	1.31	
29	0.82	0.73	0.80	2.46	4.43	3.32	1.75	1.22	0.96	0.83	0.84	1.09	
30	0.72	0.73	1.06	3.78	3.42	3.15	1.73	1.20	0.96	0.82		0.90	
31		0.73		5.60	4.91		1.73		0.95	0.82		0.81	
Mean	0.65	0.84	1.45	1.88	5.01	5.02	2.51	1.49	1.06	0.88	0.92	0.85	
Max	0.82	1.31	4.31	5.60	5.57	6.78	4.49	2.45	1.18	0.95	1.63	1.42	6.78
Min	0.61	0.66	0.78	0.86	3.42	3.15	1.73	1.20	0.95	0.82	0.80	0.75	0.61

Annual Max Momentary Gage Height 6.82 M (A.D), at 18.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.18 M (A.D)
Left Bank Elevation 6.53 M (A.D)
Right Bank Elevation 5.96 M (A.D), Drainage Area 967 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.03	2.03	8.62	4.10	93.28	129.30	35.27	13.35	6.80	4.50	3.20	3.30	
2	1.95	2.03	4.20	3.60	86.54	174.40	33.05	13.08	6.70	4.40	3.10	4.50	
3	1.95	2.48	50.56	5.60	75.76	160.50	32.50	12.54	6.60	4.30	3.10	4.00	
4	1.87	2.40	16.84	10.65	47.37	158.73	36.93	12.13	6.50	4.30	3.00	3.50	
5	1.87	2.10	13.35	7.27	66.01	191.78	36.56	11.86	6.40	4.30	3.00	3.30	
6	1.87	1.95	6.50	18.90	84.80	184.82	44.45	11.46	6.30	4.30	3.00	3.00	
7	1.87	2.03	4.40	14.70	79.29	146.34	66.01	11.32	6.30	4.20	3.00	3.00	
8	1.87	2.55	6.00	13.48	77.38	118.95	41.00	11.46	6.10	4.20	3.20	3.00	
9	1.87	4.10	12.67	10.51	90.02	99.91	33.98	11.19	6.00	4.20	3.20	3.00	
10	1.87	4.50	8.62	12.54	96.30	89.44	29.28	10.51	5.90	4.10	3.30	2.93	
11	1.87	3.20	61.83	9.84	93.28	79.29	28.75	10.38	5.90	4.10	3.30	2.93	
12	1.87	3.60	44.64	12.00	89.44	79.00	26.47	10.10	5.80	4.10	3.30	3.00	
13	1.87	3.90	22.12	8.76	86.83	71.85	22.92	9.84	5.70	4.00	3.30	3.30	
14	1.80	3.70	13.62	6.60	88.57	67.66	21.64	11.32	5.70	4.00	3.20	3.30	
15	1.80	5.10	11.73	5.60	92.94	68.85	21.80	25.07	5.60	3.90	3.20	3.00	
16	1.72	6.10	7.67	5.80	91.94	68.60	37.31	17.13	5.60	3.90	3.20	2.93	
17	1.72	5.20	5.70	6.10	90.93	62.06	26.82	13.35	5.60	3.70	3.20	2.85	
18	1.65	7.27	4.90	6.20	88.57	52.63	24.90	11.46	5.50	3.70	3.20	2.85	
19	1.58	8.48	4.60	18.00	79.00	56.77	28.40	10.38	5.30	3.70	12.81	2.78	
20	1.58	5.90	4.30	15.54	68.13	61.83	22.12	9.70	5.20	3.60	9.16	2.78	
21	1.58	4.50	4.10	13.08	58.38	58.38	22.28	9.30	5.20	3.60	11.59	2.70	
22	1.58	3.50	5.80	9.56	66.25	69.60	20.70	8.89	5.10	3.60	7.00	2.70	
23	1.58	2.93	5.00	9.84	87.12	82.48	17.56	8.48	5.10	3.50	4.90	2.70	
24	1.65	2.63	4.10	8.08	92.27	82.19	16.98	8.21	5.00	3.50	4.20	2.70	
25	1.72	2.48	3.90	27.17	84.51	75.22	16.55	7.94	4.80	3.40	4.00	2.63	
26	1.72	2.32	3.80	35.83	90.60	65.54	16.12	7.67	4.80	3.40	3.80	2.63	
27	1.80	2.25	3.00	53.32	85.96	52.63	15.54	7.54	4.70	3.30	3.60	9.97	
28	2.70	2.25	2.85	42.11	76.30	46.39	14.83	7.40	4.60	3.30	3.50	8.48	
29	3.20	2.48	3.00	25.25	64.60	40.82	14.43	7.27	4.60	3.30	3.40	5.90	
30	2.40	2.48	5.60	49.71	42.69	37.68	14.16	7.00	4.60	3.20		4.00	
31		2.48		97.30	76.57		14.16		4.50	3.20		3.10	
Total	56.41	108.92	354.02	567.04	2491.63	2733.64	833.47	327.33	172.50	118.80	124.96	110.76	7999.48 CMSDAY
Mean	1.88	3.51	11.80	18.29	80.38	91.12	26.89	10.91	5.56	3.83	4.31	3.57	21.86 CMS
Max	3.20	8.48	61.83	97.30	96.30	191.78	66.01	25.07	6.80	4.50	12.81	9.97	191.78 CMS
Min	1.58	1.95	2.85	3.60	42.69	37.68	14.16	7.00	4.50	3.20	3.00	2.63	1.58 CMS
Runoff	4.874	9.411	30.587	48.992	215.277	236.186	72.012	28.281	14.904	10.264	10.797	9.570	691.155 MCM

Momentary Peak 198.73 CMS, at 6.82 M (A.D), at 18.00 Hours, on Sep 5, 1995

Runoff Yield 22.60 Liters/Second/Square KM, Momentary Peak Yield 205.51 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

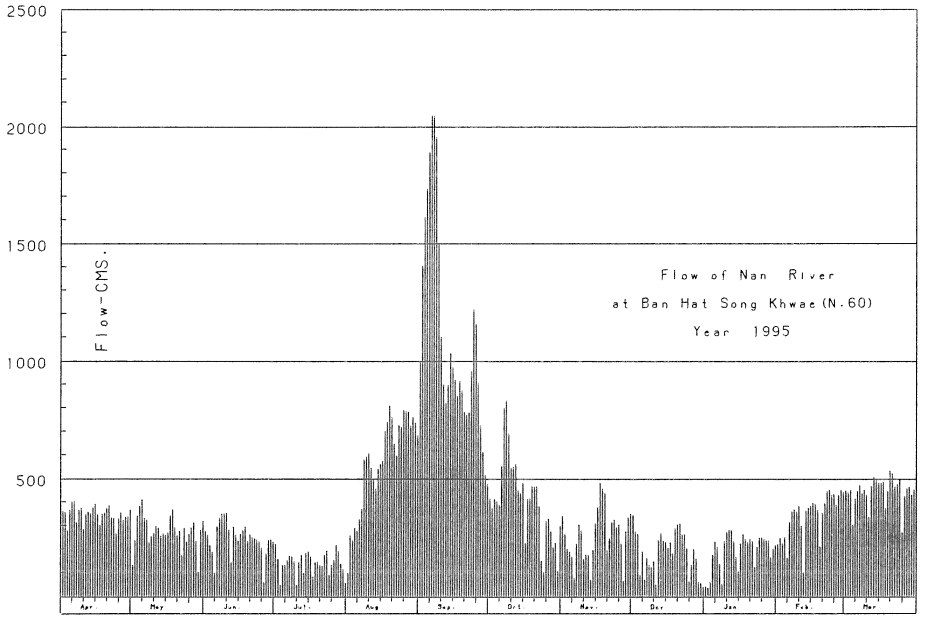
Nan River at Ban Hat Song Khwae, Uttaradit (N.60)

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	Overbank flow starts at elevation +56.48 m.(M.S.L.), records are channel flow only.
General Description	Records good. Flow effected by Sirikit Dam reservior. Stage-discharge relation defined by 93 discharge measurements made in 1995

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.72	50.05	51.12	50.71	49.80	54.91	52.08	51.56	51.61	49.34	50.70	52.30	
2	51.67	50.84	50.99	50.26	50.97	56.28	51.80	51.02	51.10	49.31	50.91	52.26	
3	51.14	51.57	50.69	49.41	50.83	56.93	52.08	50.58	51.04	49.50	50.74	52.31	
4	51.75	51.88	50.46	50.03	51.20	57.29	52.00	50.47	49.71	50.38	50.92	51.31	
5	52.01	52.05	49.79	50.07	51.12	57.76	51.91	50.34	50.48	50.80	50.30	52.08	
6	52.02	51.49	51.26	50.22	51.48	58.22	52.92	49.62	49.58	50.62	51.38	52.29	
7	51.39	51.46	51.52	50.34	51.78	58.21	54.14	50.72	50.28	50.10	51.72	52.46	
8	51.75	50.77	51.63	50.34	53.10	57.95	54.26	51.32	50.05	49.43	51.76	52.24	
9	51.80	50.94	51.65	50.16	53.16	56.59	53.65	51.12	50.00	50.80	51.71	52.32	
10	51.16	51.06	51.65	49.41	53.25	55.29	52.90	50.25	50.18	51.09	51.86	52.20	
11	51.63	51.25	51.14	50.13	52.89	54.55	52.91	50.38	49.40	51.14	51.27	51.53	
12	51.70	51.22	50.15	50.40	52.62	54.23	52.97	50.37	50.85	51.15	49.81	52.44	
13	51.63	50.95	51.25	49.80	52.35	54.53	52.32	49.58	51.04	50.81	51.74	52.67	
14	51.83	51.05	50.99	50.43	52.88	55.06	52.22	50.54	50.81	50.31	51.80	52.59	
15	51.92	50.98	50.82	50.50	52.99	54.83	52.51	51.35	50.77	49.85	51.89	52.51	
16	51.60	51.07	51.01	50.32	53.05	54.61	50.75	51.82	50.61	50.72	51.95	52.52	
17	51.31	51.57	51.14	49.66	53.70	54.35	52.08	52.52	50.78	51.03	51.94	52.52	
18	51.62	51.78	51.24	50.15	53.86	54.60	52.08	52.36	50.42	50.86	51.75	51.80	
19	51.68	51.21	50.81	50.15	54.18	54.44	52.41	52.25	51.21	50.78	50.65	52.30	
20	51.80	50.97	51.02	50.05	53.95	54.06	52.42	50.52	51.31	50.86	51.67	52.84	
21	51.88	51.12	50.91	50.01	53.43	53.99	52.41	50.88	51.36	50.80	51.96	52.75	
22	51.52	50.37	50.90	50.39	53.19	54.05	51.87	51.39	51.02	50.00	52.28	52.41	
23	51.49	51.20	50.84	50.51	53.81	54.77	50.18	51.45	51.00	50.64	52.33	52.49	
24	51.05	50.80	50.80	49.73	53.76	55.68	49.81	51.24	50.60	50.90	52.18	52.59	
25	51.50	51.03	50.59	50.05	54.10	55.48	51.41	51.30	49.52	50.93	52.22	51.09	
26	51.66	51.21	49.50	50.22	54.07	54.57	51.50	50.74	50.05	50.86	51.90	52.16	
27	51.43	51.38	50.43	50.70	54.07	53.79	51.11	49.55	50.55	50.84	52.19	52.36	
28	51.55	50.79	50.83	50.48	53.79	53.27	50.62	51.10	50.27	50.82	52.33	52.40	
29	51.54	49.83	50.87	50.10	53.95	52.72	50.75	51.54	49.49	50.29	52.26	52.21	
30	51.77	51.14	50.78	49.90	53.86	52.48	49.86	51.64	49.46	50.59		52.34	
31		51.41		49.45	53.60		51.26		49.32	50.67		52.31	
Mean	51.62	51.11	50.89	50.13	52.93	55.18	51.97	50.98	50.45	50.52	51.59	52.28	
Max	52.02	52.05	51.65	50.71	54.18	58.22	54.26	52.52	51.61	51.15	52.33	52.84	58.22
Min	51.05	49.83	49.50	49.41	49.80	52.48	49.81	49.55	49.32	49.31	49.81	51.09	49.31

Annual Max Momentary Gage Height 58.22 M (MSL), at 12.00 Hours, on Sep 6, 1995
Zero Gage at Bottom Elevation 48.50 M (MSL), River Bed 48.11 M (MSL)
Left Bank Elevation 56.47 M (MSL)
Right Bank Elevation 57.56 M (MSL), Drainage Area 18692 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	365.8	135.5	281.8	224.4	103.0	998.6	417.4	343.4	350.4	43.2	223.0	451.5	
2	358.8	242.6	263.6	162.8	260.8	1407.2	377.0	267.8	279.0	39.3	252.4	445.3	
3	284.6	344.8	221.6	52.3	241.2	1617.2	417.4	206.2	270.6	64.0	228.6	453.1	
4	370.0	388.2	189.4	132.9	293.0	1735.2	405.0	190.8	91.3	178.4	253.8	308.4	
5	406.5	412.7	101.7	138.1	281.8	1892.6	392.4	173.2	192.2	237.0	168.0	417.4	
6	408.1	333.6	301.4	157.6	332.2	2050.0	554.0	79.6	74.4	211.8	318.2	449.9	
7	319.6	329.4	337.8	173.2	374.2	2046.5	805.2	225.8	165.4	142.0	365.8	476.9	
8	370.0	232.8	353.2	173.2	585.5	1956.3	833.4	309.8	135.5	54.9	371.4	442.2	
9	377.0	256.6	356.0	149.8	596.0	1506.7	696.0	281.8	129.0	237.0	364.4	454.6	
10	287.4	273.4	356.0	52.3	613.0	1104.5	550.5	161.5	152.4	277.6	385.4	436.0	
11	353.2	300.0	284.6	145.9	548.7	905.2	552.3	178.4	51.0	284.6	302.8	339.2	
12	363.0	295.8	148.5	181.0	503.3	826.2	562.8	177.1	244.0	286.0	104.3	473.6	
13	353.2	258.0	300.0	103.0	459.2	900.1	454.6	74.4	270.6	238.4	368.6	511.5	
14	381.2	272.0	263.6	185.2	547.0	1038.8	439.1	200.6	238.4	169.3	377.0	498.3	
15	393.8	262.2	239.8	195.0	566.3	977.8	485.1	314.0	232.8	109.5	389.6	485.1	
16	349.0	274.8	266.4	170.6	576.7	920.6	230.0	379.8	210.4	225.8	398.0	486.8	
17	308.4	344.8	284.6	84.8	707.0	855.0	417.4	486.8	234.2	269.2	396.6	486.8	
18	351.8	374.2	298.6	148.5	742.2	918.0	417.4	460.8	183.8	245.4	370.0	377.0	
19	360.2	294.4	238.4	148.5	814.4	877.2	468.6	443.7	294.4	234.2	216.0	451.5	
20	377.0	260.8	267.8	135.5	762.0	786.8	470.3	197.8	308.4	245.4	358.8	540.0	
21	388.2	281.8	252.4	130.3	649.3	770.8	468.6	248.2	315.4	237.0	399.4	524.8	
22	337.8	177.1	251.0	179.7	601.2	784.5	386.8	319.6	267.8	129.0	448.4	468.6	
23	333.6	293.0	242.6	196.4	731.2	962.2	152.4	328.0	265.0	214.6	456.2	481.9	
24	272.0	237.0	237.0	93.9	720.2	1221.4	104.3	298.6	209.0	251.0	432.9	498.3	
25	335.0	269.2	207.6	135.5	796.0	1161.0	322.4	307.0	66.6	255.2	439.1	277.6	
26	357.4	294.4	64.0	157.6	789.1	910.4	335.0	228.6	135.5	245.4	391.0	429.8	
27	325.2	318.2	185.2	223.0	789.1	726.8	280.4	70.5	202.0	242.6	434.4	460.8	
28	342.0	235.6	241.2	192.2	726.8	617.0	211.8	279.0	164.1	239.8	456.2	467.0	
29	340.6	106.9	246.8	142.0	762.0	519.8	230.0	340.6	62.7	166.7	445 3	437.5	
30	372.8	284.6	234.2	116.0	742.2	480.2	110.8	354.6	58.8	207.6		457.7	
31		322.4		57.5	685.0		301.4		40.6	218.8		453.1	
Total	10543.2	8706.8	7516.8	4538.7	17899.6	33474.6	12849.8	7928.0	5895.7	6200.7	10115.6	13942.2	139611.7 CMSDAY
Mean	351.4	280.9	250.6	146.4	577.4	1115.8	414.5	264.3	190.2	200.0	348.8	449.7	381.5 CMS
Max	408.1	412.7	356.0	224.4	814.4	2050.0	833.4	486.8	350.4	286.0	456.2	540.0	2050.0 CMS
Min	272.0	106.9	64.0	52.3	103.0	480.2	104.3	70.5	40.6	39.3	104.3	277.6	39.3 CMS
Runoff	910.93	752.27	649.45	392.14	1546.53	2892.21	1110.22	684.98	509.39	535.74	873.99	1204.61	12062.45 MCM

Momentary Peak 2050.00 CMS, at 58.22 M (MSL), at 12.00 Hours, on Sep 6, 1995
Runoff Yield 20.41 Liters/Second/Square KM, Momentary Peak Yield 109.67 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

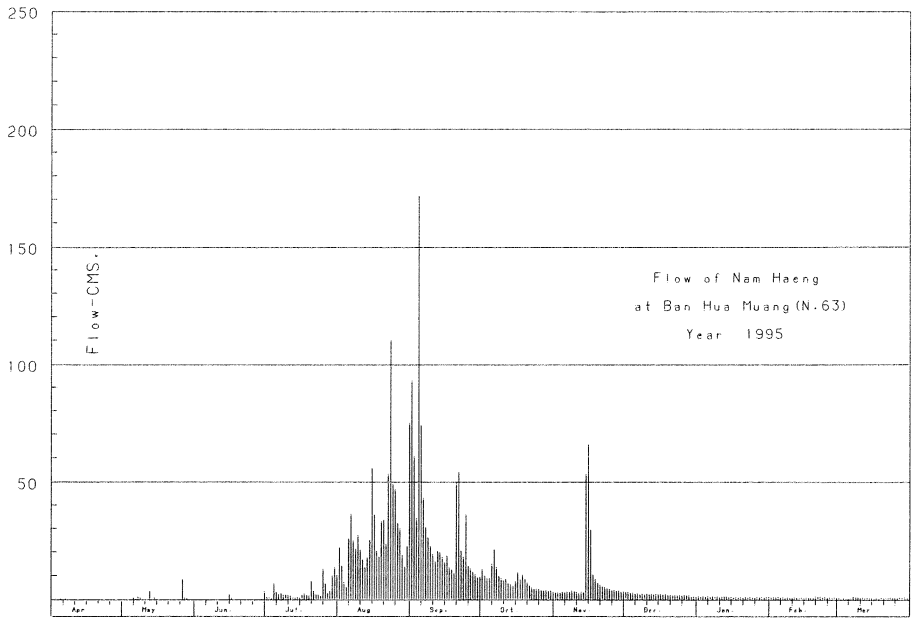
Nam Haeng at Ban Hua Muang, Nan (N.63)

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	Fairly stable with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation +6.65 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 38 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	0.80	0.74	1.09	2.63	4.60	2.06	1.17	1.20	0.90	0.85	0.76	
2	0.93	0.80	0.74	1.01	2.18	3.84	1.88	1.16	1.18	0.90	0.84	0.74	
3	0.92	0.80	0.72	0.94	1.64	3.10	1.77	1.17	1.15	0.90	0.86	0.73	
4	0.89	0.78	0.72	1.84	1.44	6.39	1.80	1.19	1.15	0.90	0.86	0.72	
5	0.85	1.02	0.71	1.42	2.79	4.17	2.22	1.18	1.12	0.91	0.84	0.75	
6	0.87	0.83	0.73	1.25	3.16	3.37	2.59	1.19	1.10	0.90	0.83	0.78	
7	0.85	1.11	0.74	1.34	2.74	2.98	2.13	1.20	1.07	0.90	0.81	0.86	
8	0.83	0.98	0.75	1.21	2.60	2.81	1.87	1.25	1.08	0.90	0.81	0.87	
9	0.80	0.84	0.75	1.26	2.84	2.64	1.78	1.24	1.07	0.89	0.81	0.84	
10	0.85	0.82	0.75	1.20	2.56	2.47	1.72	1.18	1.08	0.86	0.81	0.82	
11	0.86	0.81	0.75	1.14	2.35	2.30	1.75	1.10	1.07	0.88	0.82	0.80	
12	0.86	1.46	0.75	1.06	2.13	2.55	1.60	1.20	1.07	0.92	0.80	0.79	
13	0.84	0.91	0.76	1.00	2.39	2.51	1.54	1.19	1.06	0.88	0.80	0.78	
14	0.85	1.00	0.79	1.03	2.76	2.41	1.50	3.65	1.06	0.87	0.80	0.77	
15	0.85	0.83	1.27	1.03	3.72	2.28	1.66	3.98	1.07	0.85	0.80	0.75	
16	0.85	0.81	0.98	1.25	3.16	2.45	1.98	2.94	1.07	0.84	0.80	0.74	
17	0.87	0.80	0.84	1.31	2.54	2.12	1.75	1.92	1.05	0.83	0.80	0.73	
18	0.85	0.80	0.79	1.23	2.42	2.07	1.90	1.75	1.05	0.84	0.78	0.74	
19	0.85	0.77	0.75	1.19	3.06	1.95	1.77	1.62	1.03	0.83	0.81	0.77	
20	0.84	0.75	0.98	1.92	3.09	3.55	1.62	1.53	1.00	0.83	0.89	0.77	
21	0.83	0.76	0.87	1.44	2.68	3.68	1.52	1.47	1.00	0.84	0.91	0.78	
22	0.81	0.77	0.81	1.27	3.65	2.56	1.41	1.43	1.01	0.84	0.88	0.79	
23	0.78	0.75	0.83	1.23	5.00	2.41	1.36	1.39	1.00	0.85	0.84	0.80	
24	0.78	0.76	0.80	1.18	3.54	3.16	1.34	1.33	1.00	0.84	0.83	0.80	
25	0.78	0.75	0.80	2.31	3.47	2.18	1.33	1.30	1.00	0.85	0.82	0.80	
26	0.82	1.99	0.79	1.83	3.04	2.08	1.29	1.29	1.00	0.82	0.80	0.79	
27	0.79	1.02	0.80	1.34	2.95	2.00	1.27	1.27	1.00	0.85	0.80	0.79	
28	0.79	0.91	0.81	1.44	2.44	1.90	1.27	1.25	0.99	0.84	0.80	0.81	
29	0.76	0.79	1.00	2.12	2.15	1.82	1.25	1.22	0.90	0.83	0.79	0.81	
30	0.75	0.75	1.44	2.13	2.65	1.81	1.25	1.21	0.88	0.82		0.79	
31		0.76		1.87	4.19		1.18		0.90	0.86		0.79	
Mean	0.84	0.89	0.83	1.38	2.84	2.81	1.66	1.53	1.05	0.86	0.82	0.78	
Max	0.93	1.99	1.44	2.31	5.00	6.39	2.59	3.98	1.20	0.92	0.91	0.87	6.39
Min	0.75	0.75	0.71	0.94	1.44	1.81	1.18	1.10	0.88	0.82	0.78	0.72	0.71

Annual Max Momentary Gage Height 6.95 M (A.D), at 9.00 Hours, on Sep 4, 1995
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 6.64 M (A.D), Drainage Area 788 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.20	0.14	1.32	22.46	93.10	12.87	3.22	3.45	1.50	1.24	0.81	
2	0.60	0.20	0.14	0.93	14.61	60.86	10.44	3.15	3.30	1.50	1.19	0.73	
3	0.56	0.20	0.12	0.64	7.54	34.60	9.04	3.22	3.07	1.50	1.29	0.69	
4	0.45	0.18	0.12	7.11	5.53	172.05	9.40	3.38	3.07	1.50	1.29	0.64	
5	0.34	0.98	0.11	3.46	26.16	74.31	15.20	3.30	2.85	1.56	1.19	0.77	
6	0.40	0.28	0.13	2.26	36.52	43.38	21.61	3.38	2.70	1.50	1.14	0.90	
7	0.34	1.42	0.14	2.88	24.96	31.08	13.89	3.45	2.51	1.50	1.03	1.29	
8	0.28	0.80	0.15	1.99	21.80	26.66	10.31	3.87	2.57	1.50	1.03	1.34	
9	0.20	0.31	0.15	2.33	27.44	22.68	9.16	3.79	2.51	1.45	1.03	1.19	
10	0.34	0.26	0.15	1.92	21.04	19.33	8.44	3.30	2.57	1.29	1.03	1.08	
11	0.37	0.23	0.15	1.59	17.20	16.40	8.80	2.70	2.51	1.40	1.08	0.98	
12	0.37	3.77	0.15	1.17	13.89	20.85	7.10	3.45	2.51	1.61	0.98	0.94	
13	0.31	0.52	0.16	0.88	17.84	20.09	6.50	3.38	2.44	1.40	0.98	0.90	
14	0.34	0.88	0.19	1.03	25.44	18.19	6.10	53.50	2.44	1.34	0.98	0.85	
15	0.34	0.28	2.40	1.03	56.18	16.10	7.76	66.32	2.51	1.24	0.98	0.77	
16	0.34	0.23	0.80	2.26	36.52	18.95	11.74	30.04	2.51	1.19	0.98	0.73	
17	0.40	0.20	0.31	2.67	20.66	13.74	8.80	10.96	2.37	1.14	0.98	0.69	
18	0.34	0.20	0.19	2.12	18.38	13.01	10.70	8.80	2.37	1.19	0.90	0.73	
19	0.34	0.17	0.15	1.87	33.40	11.35	9.04	7.32	2.24	1.14	1.03	0.85	
20	0.31	0.15	0.80	7.95	34.30	49.80	7.32	6.40	2.05	1.14	1.45	0.85	
21	0.28	0.16	0.40	3.62	23.56	54.64	6.30	5.82	2.05	1.19	1.56	0.90	
22	0.23	0.17	0.23	2.40	53.50	21.04	5.25	5.44	2.11	1.19	1.40	0.94	
23	0.18	0.15	0.28	2.12	110.70	18.19	4.81	5.07	2.05	1.24	1.19	0.98	
24	0.18	0.16	0.20	1.81	49.44	36.52	4.64	4.56	2.05	1.19	1.14	0.98	
25	0.18	0.15	0.20	13.10	46.92	14.61	4.56	4.30	2.05	1.24	1.08	0.98	
26	0.26	8.74	0.19	7.01	32.80	13.16	4.21	4.21	2.05	1.08	0.98	0.94	
27	0.19	0.98	0.20	2.88	30.30	12.00	4.04	4.04	2.05	1.24	0.98	0.94	
28	0.19	0.52	0.23	3.62	18.76	10.70	4.04	3.87	2.00	1.19	0.98	1.03	
29	0.16	0.19	0.88	10.36	14.18	9.66	3.87	3.62	1.50	1.14	0.94	1.03	
30	0.15	0.15	3.62	13.89	22.90	9.53	3.87	3.54	1.40	1.08		0.94	
31		0.16		10.31	75.17		3.30		1.50	1.29		0.94	
Total	9.53	22.99	13.08	118.53	960.10	976.58	253.11	271.40	73.36	40.66	32.05	28.33	2799.72 CMSDAY
Mean	0.32	0.74	0.44	3.82	30.97	32.55	8.16	9.05	2.37	1.31	1.11	0.91	7.65 CMS
Max	0.60	8.74	3.62	13.89	110.70	172.05	21.61	66.32	3.45	1.61	1.56	1.34	172.05 CMS
Min	0.15	0.15	0.11	0.64	5.53	9.53	3.30	2.70	1.40	1.08	0.90	0.64	0.11 CMS
Runoff	0.823	1.986	1.130	10.241	82.953	84.377	21.869	23.449	6.338	3.513	2.769	2.448	241.896 MCM

Momentary Peak 197.25 CMS, at 6.95 M (A.D), at 9.00 Hours, on Sep 4, 1995

Runoff Yield 9.71 Liters/Second/Square KM, Momentary Peak Yield 250.317 Liters/Second/Square KM

WATER YEAR 1995

NAN RIVER BASIN

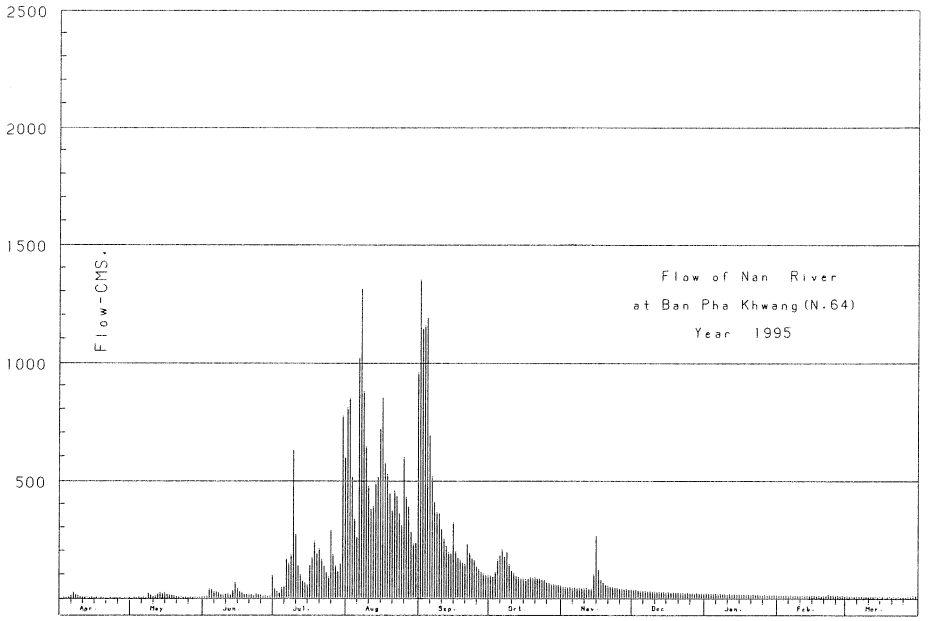
Nan River at Ban Pha Khwang, Nan (N.64)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.99	0.93	1.04	1.66	7.04	9.22	2.21	1.75	1.58	1.36	1.21	1.12	
2	0.99	0.97	1.15	1.50	7.24	8.47	2.18	1.73	1.56	1.35	1.20	1.12	
3	0.99	1.01	1.64	1.41	5.47	8.52	2.39	1.72	1.55	1.34	1.20	1.11	
4	0.99	1.01	1.61	1.69	4.32	8.65	2.90	1.71	1.54	1.34	1.20	1.11	
5	1.23	1.00	1.49	1.75	3.74	6.47	3.07	1.70	1.53	1.33	1.19	1.10	
6	1.43	1.00	1.49	2.93	7.98	5.47	3.28	1.69	1.52	1.32	1.19	1.09	
7	1.27	1.00	1.40	2.74	9.09	4.82	3.01	1.68	1.50	1.32	1.19	1.09	
8	1.17	1.36	1.28	3.10	7.37	4.52	3.20	1.67	1.49	1.31	1.18	1.09	
9	1.10	1.26	1.23	6.13	6.21	4.50	2.70	1.66	1.48	1.30	1.18	1.08	
10	1.06	1.13	1.32	3.85	5.22	4.01	2.45	1.65	1.48	1.30	1.17	1.08	
11	1.05	1.20	1.30	2.66	4.62	3.68	2.32	1.66	1.47	1.29	1.17	1.07	
12	1.02	1.36	1.25	2.25	4.68	3.44	2.21	1.63	1.46	1.29	1.16	1.06	
13	1.01	1.42	1.55	2.01	5.32	3.17	2.15	1.63	1.46	1.28	1.16	1.05	
14	0.99	1.36	1.92	1.90	5.47	3.14	2.11	2.28	1.45	1.28	1.16	1.05	
15	0.98	1.41	1.64	1.84	6.60	4.23	2.08	3.81	1.44	1.28	1.15	1.04	
16	0.97	1.30	1.49	2.67	7.25	3.20	2.07	2.48	1.43	1.27	1.15	1.04	
17	0.96	1.23	1.38	2.96	5.81	2.98	2.10	2.06	1.43	1.27	1.15	1.04	
18	0.95	1.25	1.30	3.61	5.53	2.88	2.14	1.91	1.42	1.26	1.15	1.03	
19	0.95	1.15	1.24	3.15	5.05	2.78	2.14	1.84	1.42	1.26	1.14	1.03	
20	0.94	1.12	1.28	3.32	4.56	2.70	2.15	1.78	1.41	1.26	1.14	1.03	
21	0.94	1.07	1.26	2.91	5.11	3.51	2.10	1.75	1.40	1.26	1.17	1.02	
22	0.94	1.05	1.21	2.65	4.98	3.14	2.09	1.72	1.40	1.25	1.24	1.02	
23	0.93	1.03	1.32	2.37	4.50	2.95	2.06	1.70	1.39	1.24	1.23	1.01	
24	0.93	1.00	1.30	2.18	4.12	2.86	2.03	1.67	1.39	1.24	1.22	1.01	
25	0.92	0.98	1.22	3.98	5.95	2.62	1.94	1.65	1.38	1.23	1.20	1.01	
26	0.91	0.98	1.17	3.10	4.94	2.50	1.89	1.63	1.37	1.23	1.19	1.00	
27	0.91	0.98	1.15	2.64	4.69	2.39	1.85	1.62	1.36	1.22	1.17	1.00	
28	0.96	1.04	1.13	2.41	3.92	2.29	1.83	1.62	1.36	1.22	1.16	1.04	
29	0.95	1.02	1.16	2.74	3.50	2.24	1.83	1.60	1.35	1.22	1.13	1.17	
30	0.94	1.01	2.23	6.88	3.54	2.24	1.80	1.59	1.35	1.21		1.14	
31		1.08		5.95	7.71		1.78		1.35	1.21		1.11	
Mean	1.01	1.12	1.37	2.93	5.53	4.12	2.26	1.82	1.44	1.28	1.18	1.06	
Max	1.43	1.42	2.23	6.88	9.09	9.22	3.28	3.81	1.58	1.36	1.24	1.17	9.22
Min	0.91	0.93	1.04	1.41	3.50	2.24	1.78	1.59	1.35	1.21	1.13	1.00	0.91

Annual Max Momentary Gage Height 9.90 M (A.D), at 24.00 Hours, on Sep 3, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.12 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.4	5.8	9.0	45.3	810.0	1353.6	97.5	52.9	39.0	23.8	15.5	11.8	
2	7.4	6.9	13.0	32.8	852.8	1146.2	94.5	51.1	37.4	23.2	15.0	11.8	
3	7.4	8.0	43.7	26.7	519.9	1159.2	115.5	50.3	36.6	22.6	15.0	11.4	
4	7.4	8.0	41.3	47.7	338.8	1194.0	167.0	49.4	35.9	22.6	15.0	11.4	
5	16.6	7.7	32.1	52.9	262.2	696.0	185.7	48.5	35.1	22.1	14.6	11.0	
6	28.0	7.7	32.1	170.3	1023.2	519.9	208.8	47.7	34.3	21.5	14.6	10.7	
7	18.8	7.7	26.0	150.5	1317.2	413.2	179.1	46.9	32.8	21.5	14.6	10.7	
8	13.8	23.8	19.3	189.0	881.4	368.0	200.0	46.1	32.1	21.0	14.2	10.7	
9	11.0	18.2	16.6	633.4	647.8	365.0	146.5	45.3	31.4	20.4	14.2	10.3	
10	9.7	12.2	21.5	276.5	477.4	297.3	121.5	44.5	31.4	20.4	13.8	10.3	
11	9.3	15.0	20.4	142.5	383.0	254.6	108.5	45.3	30.8	19.9	13.8	10.0	
12	8.4	23.8	17.7	101.5	392.0	226.4	97.5	42.9	30.1	19.9	13.4	9.7	
13	8.0	27.4	36.6	77.5	494.4	196.7	91.5	42.9	30.1	19.3	13.4	9.3	
14	7.4	23.8	68.5	66.5	519.9	193.4	87.5	104.5	29.4	19.3	13.4	9.3	
15	7.2	26.7	43.7	61.0	722.0	326.2	84.5	271.3	28.7	19.3	13.0	9.0	
16	6.9	20.4	32.1	143.5	855.0	200.0	83.5	124.5	28.0	18.8	13.0	9.0	
17	6.6	16.6	24.9	173.6	577.7	175.8	86.5	82.5	28.0	18.8	13.0	9.0	
18	6.4	17.7	20.4	246.2	530.1	164.9	90.5	67.5	27.4	18.2	13.0	8.7	
19	6.4	13.0	17.2	194.5	450.0	154.5	90.5	61.0	27.4	18.2	12.6	8.7	
20	6.1	11.8	19.3	213.2	374.0	146.5	91.5	55.5	26.7	18.2	12.6	8.7	
21	6.1	10.0	18.2	168.1	459.6	234.2	86.5	52.9	26.0	18.2	13.8	8.4	
22	6.1	9.3	15.5	141.5	438.8	193.4	85.5	50.3	26.0	17.7	17.2	8.4	
23	5.8	8.7	21.5	113.5	365.0	172.5	82.5	48.5	25.4	17.2	16.6	8.0	
24	5.8	7.7	20.4	94.5	311.6	162.8	79.5	46.1	25.4	17.2	16.1	8.0	
25	5.5	7.2	16.1	293.4	601.5	138.5	70.5	44.5	24.9	16.6	15.0	8.0	
26	5.3	7.2	13.8	189.0	432.4	126.5	65.6	42.9	24.3	16.6	14.6	7.7	
27	5.3	7.2	13.0	140.5	393.5	115.5	61.9	42.1	23.8	16.1	13.8	7.7	
28	6.6	9.0	12.2	117.5	285.6	105.5	60.1	42.1	23.8	16.1	13.4	9.0	
29	6.4	8.4	13.4	150.5	233.0	100.5	60.1	40.5	23.2	16.1	12.2	13.8	
30	6.1	8.0	99.5	778.0	237.8	100.5	57.3	39.7	23.2	15.5		12.6	
31		10.3		601.5	958.4		55.5		23.2	15.5		11.4	
Total	259.2	395.2	799.0	5833.1	17146.0	11001.3	3193.1	1830.2	901.8	591.8	410.4	304.5	42665.6 CMSDAY
Mean	8.6	12.7	26.6	188.2	553.1	366.7	103.0	61.0	29.1	19.1	14.2	9.8	116.6 CMS
Max	28.0	27.4	99.5	778.0	1317.2	1353.6	208.8	271.3	39.0	23.8	17.2	13.8	1353.6 CMS
Min	5.3	5.8	9.0	26.7	233.0	100.5	55.5	39.7	23.2	15.5	12.2	7.7	5.3 CMS
Runoff	22.39	34.15	69.03	503.98	1481.41	950.51	275.88	158.13	77.92	51.13	35.46	26.31	3686.31 MCM

Momentary Peak 1544.00 CMS, at 9.90 M (A.D), at 24.00 Hours, on Sep 3, 1995

Runoff Yield 33.97 Liters/Second/Square KM, Momentary Peak Yield 449.883 Liters/Second/Square KM

WATER YEAR 1995

NAM MAE KOK RIVER BASIN

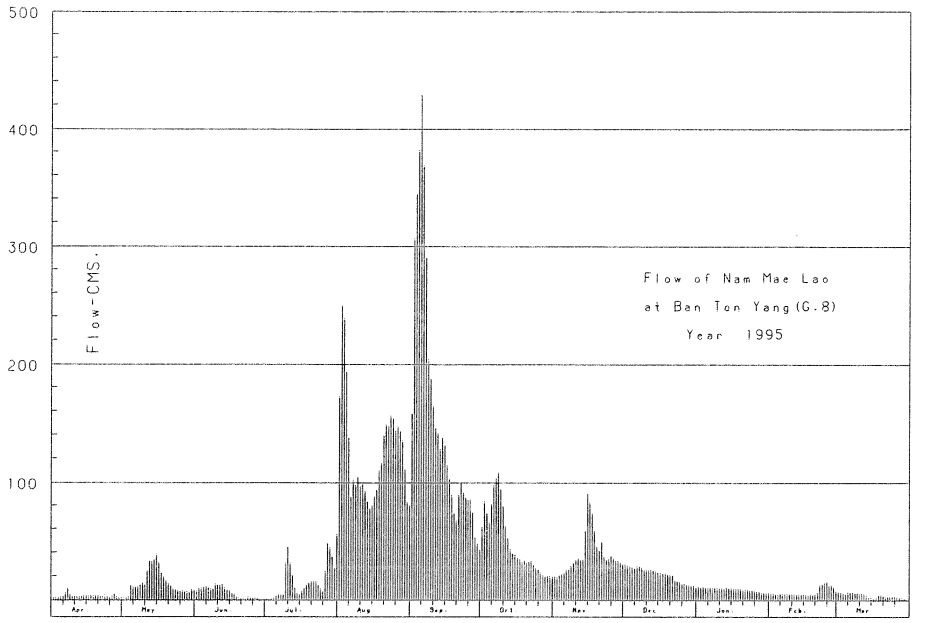
Nam Mae Lao at Ban Ton Yang, Chiang Rai (G.8)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good.The Mae Lao weir situated about 7 kilomrters upstream from the gage site. Stage-discharge relation defined by 90 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.67	0.67	0.98	0.55	3.34	3.19	2.05	1.33	1.53	1.10	0.90	0.94	
2	0.67	0.67	1.06	0.55	3.99	4.26	2.35	1.32	1.51	1.09	0.89	0.95	
3	0.68	0.73	1.08	0.57	3.92	4.41	2.22	1.35	1.50	1.09	0.86	0.88	
4	0.70	1.14	1.10	0.67	3.55	4.53	2.11	1.36	1.48	1.08	0.86	0.87	
5	0.76	1.09	1.10	0.76	2.97	4.66	2.32	1.39	1.47	1.08	0.89	0.93	
6	0.91	1.10	1.08	0.85	2.40	4.49	2.52	1.43	1.50	1.08	0.88	0.94	
7	1.05	1.10	1.04	0.82	2.57	4.19	2.59	1.45	1.50	1.08	0.88	0.93	
8	0.84	1.15	1.04	0.85	2.52	3.65	2.65	1.50	1.48	1.08	0.88	0.92	
9	0.75	1.19	1.17	1.55	2.60	3.49	2.48	1.55	1.44	1.08	0.88	0.91	
10	0.74	1.16	1.15	1.79	2.51	3.26	2.30	1.59	1.44	1.07	0.88	0.90	
11	0.73	1.42	1.14	1.55	2.54	3.06	2.06	1.62	1.44	1.06	0.86	0.89	
12	0.73	1.58	1.17	1.35	2.46	3.01	1.91	1.60	1.44	1.06	0.85	0.87	
13	0.76	1.57	1.08	1.07	2.35	2.86	1.76	1.60	1.43	1.08	0.86	0.82	
14	0.80	1.60	1.01	0.90	2.27	2.97	1.70	2.01	1.43	1.07	0.85	0.70	
15	0.80	1.69	0.98	0.83	2.31	2.90	1.67	2.44	1.40	1.06	0.85	0.68	
16	0.78	1.56	0.90	0.95	2.40	2.71	1.63	2.34	1.39	1.05	0.84	0.62	
17	0.80	1.39	0.87	1.06	2.47	2.58	1.61	2.22	1.38	1.04	0.83	0.65	
18	0.80	1.32	0.75	1.14	2.66	2.42	1.56	2.01	1.38	1.06	0.83	0.83	
19	0.80	1.25	0.66	1.19	2.73	2.22	1.59	1.79	1.36	1.04	0.84	0.83	
20	0.78	1.18	0.62	1.22	2.99	2.13	1.55	1.74	1.35	1.02	0.85	0.80	
21	0.77	1.13	0.62	1.23	3.09	2.42	1.57	1.86	1.35	1.02	0.94	0.75	
22	0.74	1.03	0.60	1.23	3.08	2.54	1.58	1.64	1.25	1.02	1.14	0.74	
23	0.73	1.02	0.74	1.14	3.17	2.44	1.52	1.60	1.23	1.00	1.17	0.74	
24	0.73	0.99	0.66	1.05	3.15	2.39	1.47	1.61	1.22	1.00	1.19	0.74	
25	0.70	0.98	0.65	0.97	3.03	2.37	1.45	1.66	1.18	0.98	1.23	0.77	
26	0.77	0.98	0.64	1.42	3.07	2.37	1.40	1.62	1.18	0.96	1.14	0.70	
27	0.88	0.96	0.62	1.84	3.03	2.23	1.35	1.59	1.16	0.96	1.15	0.68	
28	0.73	0.95	0.55	1.78	2.94	1.92	1.34	1.58	1.14	0.92	1.09	0.68	
29	0.68	0.93	0.56	1.65	2.67	1.83	1.33	1.56	1.13	0.92	0.97	0.60	
30	0.68	1.02	0.56	1.47	2.34	1.75	1.33	1.53	1.13	0.91		0.55	
31		0.99		1.96	2.31		1.32		1.09	0.91		0.55	
Mean	0.77	1.15	0.87	1.16	2.82	2.98	1.82	1.66	1.35	1.03	0.94	0.79	
Max	1.05	1.69	1.17	1.96	3.99	4.66	2.65	2.44	1.53	1.10	1.23	0.95	4.66
Min	0.67	0.67	0.55	0.55	2.27	1.75	1.32	1.32	1.09	0.91	0.83	0.55	0.55

Annual Max Momentary Gage Height 4.68 M (A.D), at 18.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.14 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.27	2.27	8.00	1.10	173.00	158.55	62.00	20.50	30.65	11.40	6.00	7.00	
2	2.27	2.27	10.24	1.10	250.40	306.80	84.00	20.00	29.55	11.11	5.80	7.25	
3	2.38	3.02	10.82	1.26	239.20	345.00	74.00	21.50	29.00	11.11	5.20	5.60	
4	2.60	12.84	11.40	2.27	194.00	381.90	66.20	22.00	28.00	10.82	5.20	5.40	
5	3.44	11.11	11.40	3.44	138.30	429.00	81.60	23.50	27.50	10.82	5.80	6.75	
6	6.25	11.40	10.82	5.00	88.00	369.00	97.80	25.50	29.00	10.82	5.60	7.00	
7	9.95	11.40	9.66	4.40	102.30	290.80	104.10	26.50	29.00	10.82	5.60	6.75	
8	4.80	13.20	9.66	5.00	97.80	204.50	109.50	29.00	28.00	10.82	5.60	6.50	
9	3.30	14.64	13.92	31.75	105.00	188.00	94.40	31.75	26.00	10.82	5.60	6.25	
10	3.16	13.56	13.20	45.40	96.90	165.20	80.00	33.95	26.00	10.53	5.60	6.00	
11	3.02	25.00	12.84	31.75	99.60	146.40	62.70	35.60	26.00	10.24	5.20	5.80	
12	3.02	33.40	13.92	21.50	92.80	141.90	52.83	34.50	26.00	10.24	5.00	5.40	
13	3.44	32.85	10.82	10.53	84.00	128.40	43.60	34.50	25.50	10.82	5.20	4.40	
14	4.00	34.50	8.79	6.00	77.75	138.30	40.00	59.20	25.50	10.53	5.00	2.60	
15	4.00	39.45	8.00	4.60	80.80	132.00	38.35	91.20	24.00	10.24	5.00	2.38	
16	3.72	32.30	6.00	7.25	88.00	114.90	36.15	83.20	23.50	9.95	4.80	1.72	
17	4.00	23.50	5.40	10.24	93.60	103.20	35.05	74.00	23.00	9.66	4.60	2.05	
18	4.00	20.00	3.30	12.84	110.40	89.60	32.30	59.20	23.00	10.24	4.60	4.60	
19	4.00	17.00	2.16	14.64	116.70	74.00	33.95	45.40	22.00	9.66	4.80	4.60	
20	3.72	14.28	1.72	15.80	140.10	67.60	31.75	42.40	21.50	9.08	5.00	4.00	
21	3.58	12.48	1.72	16.20	149.10	89.60	32.85	49.72	21.50	9.08	7.00	3.30	
22	3.16	9.37	1.50	16.20	148.20	99.60	33.40	36.70	17.00	9.08	12.84	3.16	
23	3.02	9.08	3.16	12.84	156.65	91.20	30.10	34.50	16.20	8.50	13.92	3.16	
24	3.02	8.25	2.16	9.95	154.75	87.20	27.50	35.05	15.80	8.50	14.64	3.16	
25	2.60	8.00	2.05	7.75	143.70	85.60	26.50	37.80	14.28	8.00	16.20	3.58	
26	3.58	8.00	1.94	25.00	147.30	85.60	24.00	35.60	14.28	7.50	12.84	2.60	
27	5.60	7.50	1.72	48.48	143.70	74.75	21.50	33.95	13.56	7.50	13.20	2.38	
28	3.02	7.25	1.10	44.80	135.60	53.46	21.00	33.40	12.84	6.50	11.11	2.38	
29	2.38	6.75	1.18	37.25	111.30	47.86	20.50	32.30	12.48	6.50	7.75	1.50	
30	2.38	9.08	1.18	27.50	83.20	43.00	20.50	30.65	12.48	6.25		1.10	
31		8.25		55.98	80.80		20.00		11.11	6.25		1.10	
Total	109.68	462.00	199.78	537.82	3922.95	4732.92	1538.13	1173.07	684.23	293.39	214.70	129.47	13998.14 CMSDAY
Mean	3.66	14.90	6.66	17.35	126.55	157.76	49.62	39.10	22.07	9.46	7.40	4.18	38.25 CMS
Max	9.95	39.45	13.92	55.98	250.40	429.00	109.50	91.20	30.65	11.40	16.20	7.25	429.00 CMS
Min	2.27	2.27	1.10	1.10	77.75	43.00	20.00	20.00	11.11	6.25	4.60	1.10	1.10 CMS
Runoff	9.476	39.917	17.261	46.468	338.943	408.924	132.894	101.353	59.117	25.349	18.550	11.186	1209.439 MCM

Momentary Peak 437.00 CMS, at 4.68 M (A.D), at 18.00 Hours, on Sep 5, 1995

Runoff Yield 13.04 Liters/Second/Square KM, Momentary Peak Yield 148.943 Liters/Second/Square KM

WATER YEAR 1995

NAM MAE ING BASIN

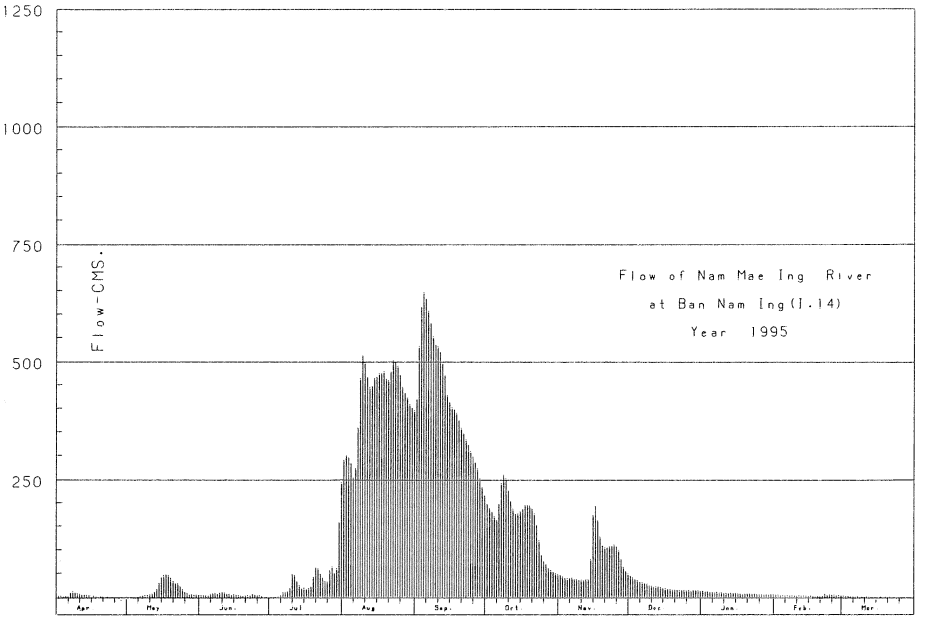
Nam Mae Ing at Ban Nam Ing, Chiang Rai (I.14)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Khong River. Stage-discharge relation defined by 51 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.22	1.09	1.26	1.01	6.73	7.85	5.40	2.52	2.49	1.61	1.35	1.24	
2	1.19	1.07	1.27	1.01	6.85	8.19	5.24	2.42	2.39	1.58	1.32	1.22	
3	1.16	1.05	1.24	1.04	6.82	8.39	5.13	2.37	2.30	1.56	1.31	1.19	
4	1.15	1.04	1.26	1.08	6.65	8.46	4.96	2.33	2.23	1.55	1.28	1.18	
5	1.18	1.08	1.37	1.30	6.27	8.43	4.83	2.36	2.17	1.53	1.28	1.15	
6	1.49	1.15	1.45	1.51	6.51	8.37	5.40	2.36	2.13	1.54	1.28	1.15	
7	1.59	1.22	1.45	1.55	7.45	8.31	6.10	2.31	2.09	1.54	1.28	1.15	
8	1.50	1.25	1.40	1.55	8.01	8.24	6.36	2.28	2.04	1.53	1.29	1.14	
9	1.43	1.30	1.47	1.81	8.14	8.20	6.24	2.27	1.97	1.52	1.28	1.14	
10	1.40	1.33	1.53	2.57	8.10	8.19	5.88	2.25	1.93	1.48	1.27	1.15	
11	1.34	1.38	1.49	2.49	8.02	8.16	5.50	2.24	1.90	1.46	1.26	1.14	
12	1.33	1.55	1.42	2.19	7.95	8.10	5.22	2.26	1.91	1.46	1.24	1.10	
13	1.28	1.75	1.36	1.94	7.96	8.03	5.06	2.29	1.90	1.47	1.23	1.09	
14	1.25	2.06	1.32	1.76	8.01	7.89	5.05	3.29	1.85	1.48	1.22	1.09	
15	1.23	2.40	1.34	1.79	8.02	7.82	5.12	4.99	1.81	1.47	1.21	1.09	
16	1.20	2.49	1.33	1.73	8.04	7.75	5.23	5.34	1.78	1.45	1.22	1.09	
17	1.17	2.55	1.27	1.77	8.04	7.73	5.35	4.86	1.75	1.42	1.20	1.08	
18	1.14	2.50	1.23	1.88	8.05	7.68	5.38	4.24	1.72	1.40	1.19	1.10	
19	1.12	2.37	1.18	2.39	8.01	7.58	5.34	3.89	1.71	1.41	1.18	1.13	
20	1.10	2.17	1.24	2.90	8.00	7.44	5.25	3.79	1.69	1.43	1.17	1.09	
21	1.08	2.07	1.26	2.85	8.05	7.34	5.06	3.81	1.69	1.42	1.22	1.08	
22	1.06	2.06	1.25	2.58	8.11	7.21	4.67	3.83	1.68	1.42	1.38	1.06	
23	1.05	1.90	1.35	2.34	8.10	7.10	4.09	3.88	1.68	1.41	1.29	1.02	
24	1.02	1.69	1.33	2.19	8.08	6.96	3.48	3.92	1.68	1.40	1.34	1.01	
25	1.00	1.55	1.29	2.14	8.03	6.84	3.22	3.85	1.67	1.39	1.36	1.00	
26	0.99	1.43	1.23	2.77	7.95	6.67	3.04	3.68	1.67	1.37	1.32	1.00	
27	1.02	1.35	1.13	2.95	7.91	6.51	2.89	3.30	1.63	1.35	1.28	0.99	
28	1.04	1.31	1.07	2.61	7.86	6.25	2.77	2.92	1.64	1.34	1.25	1.01	
29	1.11	1.32	1.05	2.85	7.79	5.97	2.70	2.72	1.66	1.34	1.25	1.05	
30	1.14	1.30	1.03	4.75	7.75	5.69	2.59	2.60	1.64	1.35		1.09	
31		1.30		6.12	7.71		2.56		1.63	1.36		1.11	
Mean	1.20	1.62	1.30	2.24	7.71	7.58	4.68	3.17	1.87	1.45	1.27	1.10	
Max	1.59	2.55	1.53	6.12	8.14	8.46	6.36	5.34	2.49	1.61	1.38	1.24	8.46
Min	0.99	1.04	1.03	1.01	6.27	5.69	2.56	2.24	1.63	1.34	1.17	0.99	0.99

Annual Max Momentary Gage Height 8.46 M (A.D), at 6.00 Hours, on Sep 4, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.02 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.9	2.9	5.8	2.1	292.4	422.0	200.0	49.5	48.3	15.3	7.9	5.3	
2	4.3	2.7	6.0	2.1	302.0	534.2	190.4	45.5	44.3	14.4	7.2	4.9	
3	3.8	2.5	5.3	2.4	299.6	617.8	183.8	43.5	40.7	13.7	6.9	4.3	
4	3.7	2.4	5.8	2.8	286.0	649.6	173.6	41.9	37.9	13.4	6.2	4.1	
5	4.1	2.8	8.3	6.7	255.9	635.8	165.8	43.1	35.5	12.8	6.2	3.7	
6	11.5	3.7	10.4	12.1	274.8	609.4	200.0	43.1	33.9	13.1	6.2	3.7	
7	14.7	4.9	10.4	13.4	362.0	584.2	244.0	41.1	32.3	13.1	6.2	3.7	
8	11.8	5.5	9.0	13.4	465.8	554.8	262.8	39.9	30.5	12.8	6.5	3.6	
9	9.8	6.7	11.0	22.0	515.2	538.0	253.8	39.5	27.9	12.4	6.2	3.6	
10	9.0	7.4	12.8	51.5	500.0	534.2	228.8	38.7	26.4	11.2	6.0	3.7	
11	7.6	8.5	11.5	48.3	469.6	522.8	206.0	38.3	25.3	10.7	5.8	3.6	
12	7.4	13.4	9.6	36.3	447.0	500.0	189.2	39.1	25.7	10.7	5.3	3.0	
13	6.2	20.0	8.1	26.8	450.0	473.4	179.6	40.3	25.3	11.0	5.1	2.9	
14	5.5	31.2	7.2	20.3	465.8	430.0	179.0	82.9	23.5	11.2	4.9	2.9	
15	5.1	44.7	7.6	21.3	469.6	416.0	183.2	175.4	22.0	11.0	4.6	2.9	
16	4.4	48.3	7.4	19.3	477.2	404.0	189.8	196.4	20.9	10.4	4.9	2.9	
17	4.0	50.7	6.0	20.6	477.2	400.8	197.0	167.6	20.0	9.6	4.4	2.8	
18	3.6	48.7	5.1	24.6	481.0	392.8	198.8	130.4	19.0	9.0	4.3	3.0	
19	3.3	43.5	4.1	44.3	465.8	377.6	196.4	112.5	18.6	9.3	4.1	3.4	
20	3.0	35.5	5.3	65.0	462.0	360.8	191.0	107.5	18.0	9.8	4.0	2.9	
21	2.8	31.6	5.8	62.8	481.0	350.0	179.6	108.5	18.0	9.6	4.9	2.8	
22	2.6	31.2	5.5	51.9	503.8	337.0	156.2	109.5	17.6	9.6	8.5	2.6	
23	2.5	25.3	7.9	42.3	500.0	326.0	122.5	112.0	17.6	9.3	6.5	2.2	
24	2.2	18.0	7.4	36.3	492.4	312.0	92.0	114.0	17.6	9.0	7.6	2.1	
25	2.0	13.4	6.5	34.3	473.4	301.2	79.6	110.5	17.3	8.8	8.1	2.0	
26	1.9	9.8	5.1	59.5	447.0	287.6	71.2	102.0	17.3	8.3	7.2	2.0	
27	2.2	7.9	3.4	67.1	435.0	274.8	64.6	83.4	16.0	7.9	6.2	1.9	
28	2.4	6.9	2.7	53.1	424.0	254.5	59.5	65.8	16.3	7.6	5.5	2.1	
29	3.1	7.2	2.5	62.8	410.4	234.9	56.7	57.5	17.0	7.6	5.5	2.5	
30	3.6	6.7	2.3	161.0	404.0	217.4	52.3	52.7	16.3	7.9		2.9	
31		6.7		245.4	397.6		51.1		16.0	8.1		3.1	
Total	153.0	550.7	205.8	1331.8	13187.5	12853.6	4998.3	2432.1	763.0	328.6	172.9	97.1	37074.4 CMSDAY
Mean	5.1	17.8	6.9	43.0	425.4	428.5	161.2	81.1	24.6	10.6	6.0	3.1	101.3 CMS
Max	14.7	50.7	12.8	245.4	515.2	649.6	262.8	196.4	48.3	15.3	8.5	5.3	649.6 CMS
Min	1.9	2.4	2.3	2.1	255.9	217.4	51.1	38.3	16.0	7.6	4.0	1.9	1.9 CMS
Runoff	13.22	47.58	17.78	115.07	1139.40	1110.55	431.85	210.13	65.92	28.39	14.94	8.39	3203.23 MCM

Momentary Peak 649.60 CMS, at 8.46 M (A.D), at 6.00 Hours, on Sep 4, 1995
Runoff Yield 16.46 Liters/Second/Square KM, Momentary Peak Yield 105.540 Liters/Second/Square KM

WATER YEAR 1995

CHAO PHRAYA RIVER BASIN

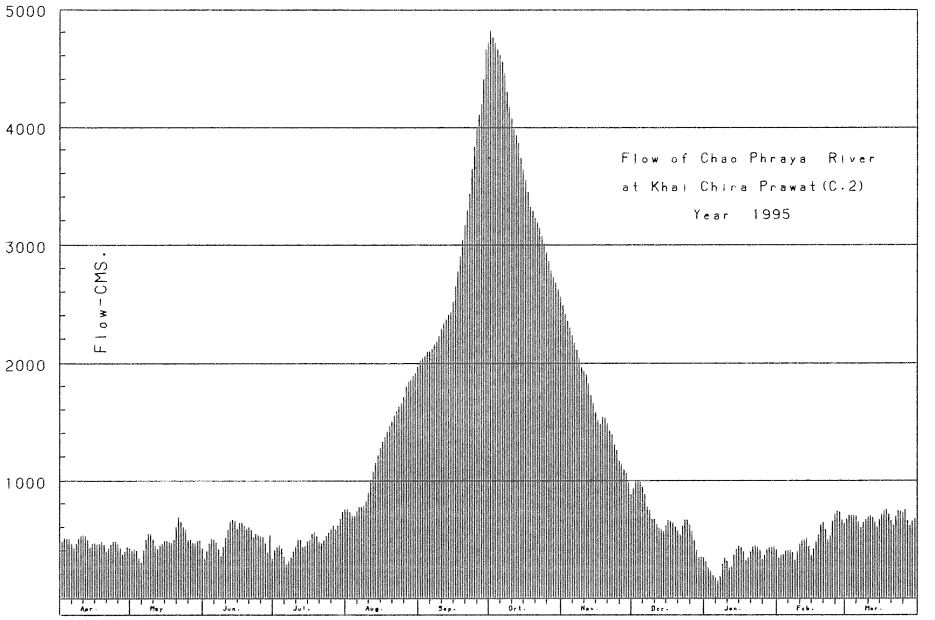
Chao Phraya River at Khai Chira Prawat, Nakhon Sawan (C.2)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 25.83 m. (M.S.L.), records are channel flow only.
General Description	Records good. Flow effected by Phumiphol Dam, Sirikit Dam and Naresuan Dam. Stage-discharge relation defined by 178 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.70	19.40	19.12	19.39	20.66	23.80	26.12	24.58	21.20	18.98	19.14	20.39	
2	19.79	19.42	19.36	19.52	20.59	23.83	26.11	24.46	21.38	18.75	19.21	20.48	
3	19.80	19.40	19.64	19.56	20.47	23.87	26.10	24.37	21.40	18.56	19.26	20.49	
4	19.77	19.10	19.78	19.47	20.48	23.93	26.09	24.27	21.34	18.35	19.36	20.48	
5	19.63	18.96	19.76	19.18	20.61	23.94	26.08	24.17	21.24	18.17	19.40	20.48	
6	19.46	19.39	19.65	18.88	20.71	23.98	26.07	24.06	21.05	18.02	19.39	20.29	
7	19.63	19.76	19.45	18.97	20.73	24.03	26.05	23.97	20.75	18.28	19.31	20.14	
8	19.77	19.93	19.21	19.16	20.75	24.08	26.02	23.84	20.63	18.90	19.06	20.27	
9	19.88	19.92	19.49	19.35	20.89	24.15	25.99	23.69	20.39	19.12	19.37	20.37	
10	19.89	19.77	19.81	19.52	21.08	24.26	25.95	23.62	20.37	19.02	19.62	20.45	
11	19.86	19.54	20.08	19.75	21.40	24.33	25.91	23.57	20.24	18.72	19.73	20.46	
12	19.76	19.46	20.30	19.76	21.61	24.39	25.89	23.42	20.11	18.79	19.76	20.44	
13	19.49	19.57	20.37	19.52	21.79	24.45	25.86	23.23	20.06	19.23	19.78	20.28	
14	19.61	19.63	20.32	19.53	21.98	24.49	25.81	23.09	20.02	19.45	19.53	20.16	
15	19.65	19.70	20.10	19.72	22.15	24.61	25.75	22.91	20.20	19.53	19.22	20.36	
16	19.59	19.70	20.25	19.73	22.27	24.81	25.69	22.74	20.34	19.51	19.44	20.51	
17	19.63	19.68	20.27	19.94	22.39	24.97	25.63	22.67	20.32	19.35	19.71	20.61	
18	19.68	19.63	20.16	19.98	22.50	25.14	25.54	22.80	20.26	19.04	19.90	20.67	
19	19.59	19.76	20.10	19.87	22.63	25.29	25.52	22.80	20.16	19.13	20.20	20.53	
20	19.35	20.14	20.13	19.69	22.71	25.42	25.47	22.68	20.03	19.36	20.29	20.33	
21	19.46	20.42	20.07	19.62	22.84	25.52	25.44	22.53	19.92	19.51	20.08	20.21	
22	19.60	20.31	19.84	19.73	22.93	25.62	25.40	22.44	20.17	19.58	19.74	20.45	
23	19.68	20.15	19.93	19.88	23.02	25.75	25.33	22.22	20.35	19.51	19.89	20.63	
24	19.70	20.05	19.90	19.96	23.09	25.85	25.26	22.08	20.36	19.41	20.30	20.60	
25	19.60	19.74	19.85	20.08	23.19	25.92	25.18	21.85	20.22	19.09	20.53	20.58	
26	19.46	19.76	19.83	20.17	23.38	25.96	25.09	21.77	20.01	19.22	20.60	20.64	
27	19.25	19.65	19.64	20.09	23.45	26.00	24.98	21.65	19.75	19.44	20.59	20.35	
28	19.34	19.62	19.33	20.18	23.47	26.04	24.91	21.56	19.40	19.48	20.34	20.20	
29	19.52	19.72	19.89	20.40	23.55	26.09	24.84	21.33	19.17	19.51	20.25	20.30	
30	19.45	19.72	19.08	20.58	23.58	26.10	24.77	21.06	19.15	19.52		20.40	
31		19.46		20.67	23.69		24.68		19.16	19.42		20.51	
Mean	19.62	19.69	19.82	19.74	22.08	24.89	25.60	22.98	20.30	19.10	19.76	20.42	
Max	19.89	20.42	20.37	20.67	23.69	26.10	26.12	24.58	21.40	19.58	20.60	20.67	26.12
Min	19.25	18.96	19.08	18.88	20.47	23.80	24.68	21.06	19.15	18.02	19.06	20.14	18.02

Annual Max Momentary Gage Height 26.12 M (MSL), at 24.00 Hours, on Sep 30, 1995
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 14.66 M (MSL)
Left Bank Elevation 25.82 M (MSL)
Right Bank Elevation 26.24 M (MSL), Drainage Area 110569 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	486.	410.	344.	408.	759.	2027.	4820.	2499.	939.	314.	348.	680.	
2	510.	415.	401.	440.	739.	2043.	4768.	2420.	1003.	266.	365.	706.	
3	512.	410.	471.	451.	703.	2064.	4717.	2365.	1010.	233.	377.	709.	
4	505.	339.	507.	428.	706.	2097.	4665.	2304.	989.	201.	401.	706.	
5	468.	310.	502.	358.	744.	2103.	4613.	2243.	953.	174.	410.	706.	
6	425.	408.	473.	293.	774.	2128.	4562.	2176.	887.	153.	408.	651.	
7	468.	502.	423.	312.	780.	2158.	4458.	2122.	785.	190.	389.	607.	
8	505.	547.	365.	353.	785.	2189.	4303.	2048.	750.	297.	331.	645.	
9	534.	545.	433.	398.	831.	2231.	4176.	1971.	680.	344.	403.	674.	
10	536.	505.	515.	440.	897.	2298.	4080.	1934.	674.	322.	466.	698.	
11	528.	445.	589.	499.	1010.	2341.	3984.	1909.	636.	260.	494.	700.	
12	502.	425.	654.	502.	1086.	2377.	3936.	1831.	598.	274.	502.	695.	
13	433.	453.	674.	440.	1153.	2414.	3864.	1734.	584.	370.	507.	648.	
14	463.	468.	659.	443.	1223.	2438.	3744.	1665.	573.	423.	443.	613.	
15	473.	486.	595.	491.	1286.	2519.	3645.	1587.	624.	443.	367.	671.	
16	458.	486.	639.	494.	1332.	2661.	3554.	1518.	665.	438.	420.	715.	
17	468.	481.	645.	550.	1378.	2778.	3458.	1490.	659.	398.	489.	744.	
18	481.	468.	613.	561.	1421.	2914.	3326.	1542.	642.	326.	539.	762.	
19	458.	502.	595.	531.	1474.	3046.	3298.	1542.	613.	346.	624.	721.	
20	398.	607.	604.	483.	1506.	3174.	3234.	1494.	575.	401.	651.	662.	
21	425.	689.	587.	466.	1558.	3298.	3198.	1433.	545.	438.	589.	627.	
22	461.	656.	523.	494.	1595.	3442.	3150.	1398.	615.	456.	497.	698.	
23	481.	610.	547.	534.	1632.	3645.	3084.	1313.	668.	438.	536.	750.	
24	486.	581.	539.	556.	1665.	3840.	3019.	1260.	671.	413.	654.	741.	
25	461.	497.	526.	589.	1714.	4008.	2948.	1175.	630.	337.	721.	736.	
26	425.	502.	520.	615.	1810.	4104.	2872.	1145.	570.	367.	741.	753.	
27	375.	473.	471.	592.	1847.	4200.	2785.	1101.	499.	420.	739.	668.	
28	396.	466.	393.	618.	1857.	4407.	2734.	1067.	410.	430.	665.	624.	
29	440.	491.	536.	683.	1898.	4665.	2683.	985.	356.	438.	639.	654.	
30	423.	491.	335.	736.	1914.	4717.	2632.	890.	351.	440.		683.	
31		425.		762.	1971.		2567.		353.	415.		715.	
Total	13984.	15093.	15678.	15520.	40048.	88326.	112877.	50161.	20507.	10765.	14715.	21362.	419036. CMSDAY
Mean	466.	487.	523.	501.	1292.	2944.	3641.	1672.	662.	347.	507.	689.	1145. CMS
Max	536.	689.	674.	762.	1971.	4717.	4820.	2499.	1010.	456.	741.	762.	4820. CMS
Min	375.	310.	335.	293.	703.	2027.	2567.	890.	351.	153.	331.	607.	153. CMS
Runoff	1208.2	1304.0	1354.6	1340.9	3460.1	7631.4	9752.6	4333.9	1771.8	930.1	1271.4	1845.7	36204.7 MCM

Momentary Peak 4820.00 CMS, at 26.12 M (MSL), at 24.00 Hours, on Sep 30, 1995

Runoff Yield 10.35 Liters/Second/Square KM, Momentary Peak Yield 43.593 Liters/Second/Square KM

WATER YEAR 1995

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 — Stable.

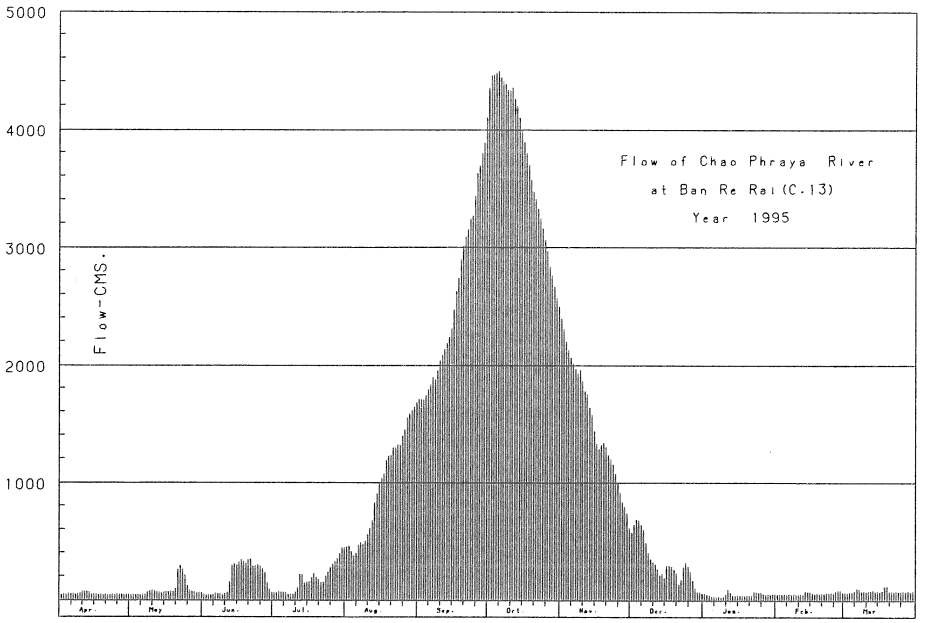
Overbank Flow Conditions — Overbank flow starts at elevation + 16.31 m.(M.S.L.), records are channel flow only.

General Description — Records good. Flow regulated by Chao Phraya Dam above gage site. Stage-discharge relation defined by 120 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.93	5.93	5.99	6.20	9.00	13.28	17.24	14.89	9.57	6.13	6.07	6.23	
2	5.93	5.93	5.93	6.22	9.05	13.25	17.30	14.71	9.82	6.02	6.07	6.23	
3	5.96	5.93	5.93	6.28	8.85	13.26	17.30	14.49	10.02	5.88	6.07	6.29	
4	6.04	5.93	5.93	6.33	8.60	13.35	17.31	14.31	9.97	5.75	6.07	6.31	
5	6.12	5.93	6.01	6.32	8.75	13.51	17.32	14.17	9.84	5.64	6.07	6.37	
6	6.06	5.93	6.13	6.21	9.10	13.60	17.29	14.04	9.65	5.64	6.07	6.76	
7	6.01	5.97	6.13	6.00	9.18	13.76	17.27	13.95	9.19	5.64	6.07	6.65	
8	6.07	6.26	6.02	5.97	9.13	13.72	17.26	13.84	8.77	5.64	6.07	6.39	
9	6.20	6.44	5.94	6.05	9.24	13.91	17.23	13.92	8.48	5.66	6.07	6.39	
10	6.32	6.47	6.06	6.25	9.49	14.10	17.23	13.68	8.30	6.10	6.07	6.39	
11	6.38	6.45	6.29	6.72	9.69	14.23	17.24	13.46	8.23	6.60	6.07	6.41	
12	6.38	6.33	7.19	7.69	9.98	14.33	17.19	13.38	7.96	6.32	6.09	6.49	
13	6.25	6.22	8.16	7.65	10.50	14.46	17.15	13.07	7.66	5.87	6.39	6.49	
14	6.06	6.20	8.20	7.15	10.78	14.57	17.09	12.86	7.73	5.87	6.39	6.38	
15	6.02	6.24	8.17	7.19	11.05	14.73	17.02	12.46	7.50	5.87	6.31	6.38	
16	6.00	6.30	8.29	7.21	11.20	15.03	16.95	12.13	8.12	5.87	6.15	6.38	
17	5.94	6.31	8.44	7.52	11.31	15.33	16.87	12.00	8.17	5.87	6.15	6.43	
18	5.93	6.35	8.33	7.71	11.69	15.51	16.79	12.09	8.09	5.87	6.15	6.91	
19	5.93	6.37	8.27	7.53	11.80	15.75	16.67	12.16	7.97	5.87	6.15	6.89	
20	5.93	6.63	8.41	7.35	11.84	15.90	16.55	12.04	7.75	5.87	6.15	6.38	
21	5.93	7.92	8.48	7.13	12.02	16.02	16.46	11.84	7.06	5.87	6.18	6.38	
22	5.93	8.15	8.12	7.20	12.04	16.10	16.35	11.71	7.36	6.39	6.23	6.38	
23	5.93	7.93	8.11	7.60	12.10	16.23	16.23	11.58	8.10	6.31	6.23	6.38	
24	5.94	7.65	8.18	7.80	12.11	16.26	16.12	11.31	8.28	6.27	6.23	6.38	
25	5.98	6.94	8.10	8.02	12.34	16.50	15.98	11.09	8.13	6.32	6.23	6.38	
26	5.94	6.50	7.97	8.22	12.49	16.73	15.84	10.81	7.83	6.07	6.37	6.38	
27	5.93	6.38	7.78	8.35	12.81	16.78	15.66	10.54	7.36	6.07	6.52	6.38	
28	5.93	6.26	7.15	8.48	12.90	16.87	15.54	10.39	6.72	6.07	6.48	6.38	
29	5.93	6.21	6.59	8.74	12.99	16.94	15.39	10.21	6.36	6.07	6.29	6.38	
30	5.93	6.21	6.28	8.96	13.07	17.09	15.22	9.70	6.28	6.07		6.38	
31		6.27		8.99	13.18		15.08		6.20	6.07		6.38	
Mean	6.03	6.47	7.22	7.26	10.91	15.04	16.65	12.56	8.14	5.99	6.19	6.43	
Max	6.38	8.15	8.48	8.99	13.18	17.09	17.32	14.89	10.02	6.60	6.52	6.91	17.32
Min	5.93	5.93	5.93	5.97	8.60	13.25	15.08	9.70	6.20	5.64	6.07	6.23	5.64

Annual Max Momentary Gage Height 17.34 M (MSL), at 6.00 Hours, on Oct 5, 1995
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed M (MSL)
Left Bank Elevation 16.84 M (MSL)
Right Bank Elevation 16.30 M (MSL), Drainage Area 120693 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.	49.	52.	65.	453.	1719.	4354.	2403.	583.	60.	56.	68.	
2	49.	49.	49.	67.	464.	1709.	4464.	2311.	644.	54.	56.	68.	
3	51.	49.	49.	72.	423.	1712.	4464.	2208.	695.	47.	56.	72.	
4	55.	49.	49.	75.	377.	1744.	4483.	2129.	682.	40.	56.	74.	
5	60.	49.	53.	75.	404.	1802.	4501.	2070.	649.	34.	56.	78.	
6	56.	49.	60.	66.	474.	1837.	4446.	2015.	602.	34.	56.	108.	
7	53.	51.	60.	53.	492.	1899.	4409.	1977.	495.	34.	56.	99.	
8	56.	70.	54.	51.	481.	1883.	4390.	1931.	407.	34.	56.	80.	
9	65.	84.	50.	55.	506.	1960.	4335.	1965.	356.	35.	56.	80.	
10	75.	86.	56.	69.	564.	2041.	4335.	1868.	326.	58.	56.	80.	
11	79.	84.	72.	105.	612.	2095.	4354.	1784.	314.	96.	56.	81.	
12	79.	75.	157.	224.	684.	2138.	4264.	1755.	267.	75.	57.	87.	
13	69.	67.	302.	218.	832.	2195.	4200.	1647.	219.	46.	80.	87.	
14	56.	65.	308.	152.	914.	2243.	4104.	1578.	230.	46.	80.	79.	
15	54.	68.	303.	157.	998.	2321.	3992.	1445.	196.	46.	74.	79.	
16	53.	73.	324.	159.	1044.	2474.	3900.	1336.	295.	46.	62.	79.	
17	50.	74.	350.	199.	1079.	2637.	3804.	1293.	303.	46.	62.	83.	
18	49.	77.	331.	227.	1197.	2743.	3708.	1323.	290.	46.	62.	124.	
19	49.	78.	320.	200.	1231.	2907.	3575.	1346.	269.	46.	62.	122.	
20	49.	98.	344.	175.	1243.	3014.	3482.	1306.	233.	46.	62.	79.	
21	49.	261.	356.	150.	1300.	3100.	3414.	1243.	142.	46.	64.	79.	
22	49.	300.	295.	158.	1306.	3157.	3336.	1203.	176.	80.	68.	79.	
23	49.	262.	293.	210.	1326.	3250.	3250.	1162.	291.	74.	68.	79.	
24	50.	218.	305.	240.	1329.	3271.	3171.	1079.	322.	71.	68.	79.	
25	52.	128.	291.	278.	1406.	3443.	3071.	1010.	296.	75.	68.	79.	
26	50.	88.	269.	312.	1455.	3635.	2971.	923.	245.	56.	78.	79.	
27	49.	79.	237.	334.	1561.	3696.	2844.	843.	176.	56.	90.	79.	
28	49.	70.	152.	356.	1591.	3804.	2763.	800.	105.	56.	87.	79.	
29	49.	66.	95.	402.	1621.	3888.	2672.	748.	78.	56.	72.	79.	
30	49.	66.	72.	445.	1647.	4104.	2573.	615.	72.	56.		79.	
31		71.		451.	1685.		2500.		65.	56.		79.	
Total	1651.	2953.	5708.	5800.	30699.	78421.	116129.	45316.	10023.	1651.	1880.	2576.	302807. CMSDAY
Mean	55.	95.	190.	187.	990.	2614.	3746.	1511.	323.	53.	65.	83.	827. CMS
Max	79.	300.	356.	451.	1685.	4104.	4501.	2403.	695.	96.	90.	124.	4501. CMS
Min	49.	49.	49.	51.	377.	1709.	2500.	615.	65.	34.	56.	68.	34. CMS
Runoff	142.6	255.1	493.2	501.1	2652.4	6775.6	10033.5	3915.3	866.0	142.6	162.4	222.6	26162.5 MCM

Momentary Peak 4538.00 CMS, at 17.34 M (MSL), at 6.00 Hours, on Oct 5, 1995

Runoff Yield 6.85 Liters/Second/Square KM, Momentary Peak Yield 37.600 Liters/Second/Square KM

WATER YEAR 1995

CHAO PHRAYA RIVER BASIN

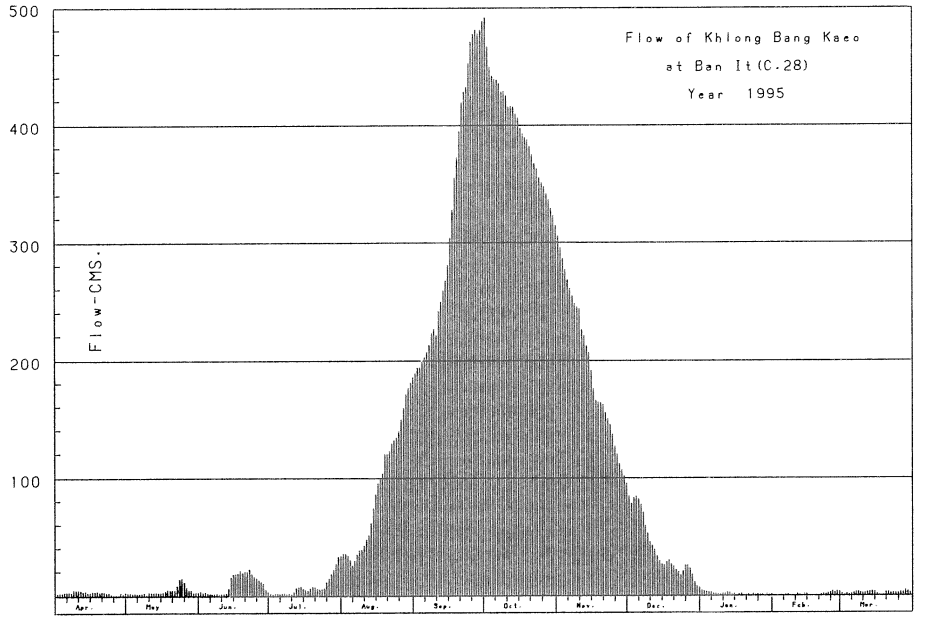
Khlong Bang Kaeo at Ban It, Ang Thong (C.28)

Location	Lat. 14°-35-32 N., Long. 100°-28-23- E., on right bank at the bridge on Asia Highway, Ban It, Amphoe Muang, Ang Thong.
Drainage Area	Flood plain.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(M.S.L.)
Bench Mark	B.M.-Highways department.
Location	On right bank at the abutment of the bridge.
Elevation	+12.300 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	1969-1979, 1985 to date.
Rating Operation	
Period of Rating	1976,1978, 1985 - 1986, 1990 to date.
Rated by Float	-
Rated by Current Meter	1976,1978, 1985 - 1986, 1990 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +6.92 m.(M.S.L), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.53	0.56	0.66	0.50	2.31	6.31	8.26	7.53	3.97	0.74	0.38	0.51	
2	0.52	0.53	0.60	0.48	2.32	6.38	8.19	7.46	3.81	0.73	0.37	0.45	
3	0.57	0.54	0.62	0.50	2.24	6.39	8.14	7.40	3.94	0.63	0.43	0.48	
4	0.58	0.51	0.55	0.53	2.10	6.46	8.12	7.33	3.96	0.63	0.39	0.47	
5	0.65	0.51	0.52	0.47	1.90	6.53	8.11	7.27	3.91	0.62	0.41	0.47	
6	0.61	0.47	0.45	0.54	2.06	6.59	8.11	7.21	3.77	0.53	0.41	0.58	
7	0.62	0.54	0.49	0.53	2.30	6.68	8.10	7.16	3.58	0.48	0.48	0.61	
8	0.79	0.55	0.53	0.48	2.43	6.81	8.08	7.10	3.20	0.48	0.40	0.67	
9	0.79	0.45	0.46	0.48	2.47	6.85	8.08	7.07	2.99	0.45	0.30	0.55	
10	0.76	0.59	0.51	0.49	2.59	6.78	8.07	7.05	2.72	0.53	0.26	0.56	
11	0.76	0.58	0.48	0.63	2.79	7.03	8.04	6.85	2.61	0.47	0.50	0.54	
12	0.68	0.60	0.55	0.95	2.94	7.11	8.04	6.78	2.46	0.62	0.39	0.64	
13	0.67	0.57	0.90	0.95	3.27	7.20	8.04	6.67	2.25	0.55	0.41	0.63	
14	0.60	0.59	1.41	1.01	3.69	7.26	8.02	6.59	2.05	0.47	0.47	0.70	
15	0.58	0.56	1.53	0.87	4.02	7.36	8.01	6.35	1.95	0.47	0.50	0.63	
16	0.65	0.60	1.52	0.80	4.26	7.52	7.98	6.07	1.90	0.41	0.33	0.52	
17	0.68	0.73	1.58	0.77	4.39	7.66	7.96	5.89	2.04	0.45	0.37	0.39	
18	0.67	0.79	1.67	0.89	4.48	7.81	7.95	5.85	2.08	0.52	0.37	0.42	
19	0.64	0.77	1.60	1.00	4.91	7.88	7.94	5.85	1.95	0.37	0.33	0.37	
20	0.64	0.76	1.63	0.96	4.90	7.97	7.92	5.81	1.85	0.44	0.35	0.64	
21	0.62	0.74	1.62	0.88	4.96	8.05	7.89	5.68	1.73	0.45	0.47	0.61	
22	0.59	1.05	1.75	0.84	5.12	8.08	7.86	5.57	1.61	0.43	0.47	0.56	
23	0.55	1.33	1.55	0.83	5.17	8.09	7.84	5.47	1.50	0.47	0.49	0.54	
24	0.44	1.34	1.40	0.91	5.23	8.15	7.81	5.28	1.65	0.45	0.53	0.56	
25	0.45	1.21	1.35	1.18	5.34	8.20	7.79	5.07	1.91	0.48	0.62	0.56	
26	0.40	0.95	1.29	1.34	5.55	8.22	7.77	4.90	1.89	0.46	0.67	0.60	
27	0.41	0.76	1.21	1.55	5.76	8.23	7.74	4.71	1.78	0.44	0.62	0.63	
28	0.57	0.75	1.12	1.70	5.99	8.22	7.71	4.56	1.50	0.38	0.68	0.74	
29	0.48	0.59	0.82	1.96	6.08	8.23	7.67	4.44	1.21	0.52	0.68	0.70	
30	0.58	0.58	0.61	2.20	6.17	8.25	7.63	4.26	1.00	0.45		0.57	
31		0.61		2.25	6.24		7.58		0.96	0.45		0.56	
Mean	0.60	0.70	1.03	0.95	4.00	7.41	7.95	6.17	2.38	0.50	0.45	0.56	
Max	0.79	1.34	1.75	2.25	6.24	8.25	8.26	7.53	3.97	0.74	0.68	0.74	8.26
Min	0.40	0.45	0.45	0.47	1.90	6.31	7.58	4.26	0.96	0.37	0.26	0.37	0.26

Annual Max Momentary Gage Height 8.26 M (MSL), at 6.00 Hours, on Oct 1, 1995
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed -0.67 M (MSL)
Left Bank Elevation 6.91 M (MSL)
Right Bank Elevation 7.17 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.4	2.8	3.9	2.1	35.9	189.6	491.9	306.5	84.9	4.7	0.8	2.2	
2	2.3	2.4	3.2	1.9	36.1	193.8	467.2	295.8	79.2	4.6	0.7	1.5	
3	2.9	2.5	3.4	2.1	34.2	194.4	449.6	287.2	83.9	3.5	1.3	1.9	
4	3.0	2.2	2.7	2.4	30.8	198.8	442.5	277.3	84.6	3.5	0.9	1.8	
5	3.7	2.2	2.3	1.8	26.2	203.1	439.0	269.1	82.8	3.4	1.1	1.8	
6	3.3	1.8	1.5	2.5	29.9	206.9	439.0	261.3	77.8	2.4	1.1	3.0	
7	3.4	2.5	2.0	2.4	35.6	213.5	435.5	255.4	71.5	1.9	1.9	3.3	
8	5.3	2.7	2.4	1.9	38.8	223.5	429.0	248.5	59.8	1.9	1.0	4.0	
9	5.3	1.5	1.7	1.9	39.7	226.6	429.0	245.8	53.6	1.5	0.0	2.7	
10	5.0	3.1	2.2	2.0	42.7	221.2	425.7	244.0	46.0	2.4	0.0	2.8	
11	5.0	3.0	1.9	3.5	47.9	242.2	416.0	226.6	43.2	1.8	2.1	2.5	
12	4.1	3.2	2.7	7.4	52.2	249.7	416.0	221.2	39.5	3.4	0.9	3.6	
13	4.0	2.9	6.5	7.4	61.9	260.0	416.0	212.8	34.4	2.7	1.1	3.5	
14	3.2	3.1	16.3	8.4	75.0	267.8	409.5	206.9	29.7	1.8	1.8	4.3	
15	3.0	2.8	18.7	6.2	86.8	281.5	406.3	192.0	27.4	1.8	2.1	3.5	
16	3.7	3.2	18.5	5.4	95.6	304.8	397.9	176.1	26.2	1.1	0.3	2.3	
17	4.1	4.6	19.7	5.1	100.4	328.3	392.8	166.6	29.4	1.5	0.7	0.9	
18	4.0	5.3	21.5	6.4	103.9	355.9	390.2	164.6	30.4	2.3	0.7	1.2	
19	3.6	5.1	20.1	8.3	120.9	372.7	387.7	164.6	27.4	0.7	0.3	0.7	
20	3.6	5.0	20.7	7.5	120.5	395.3	382.6	162.6	25.2	1.4	0.5	3.6	
21	3.4	4.7	20.5	6.3	123.0	419.2	375.1	156.0	22.8	1.5	1.8	3.3	
22	3.1	9.1	23.2	5.8	129.9	429.0	367.9	150.6	20.3	1.3	1.8	2.8	
23	2.7	14.7	19.1	5.7	132.2	432.2	363.1	146.0	18.1	1.8	2.0	2.5	
24	1.4	14.9	16.1	6.7	134.9	453.1	355.9	137.2	21.1	1.5	2.4	2.8	
25	1.5	12.2	15.1	11.6	140.0	470.7	351.6	127.7	26.4	1.9	3.4	2.8	
26	1.0	7.4	13.8	14.9	149.7	477.8	347.9	120.5	26.0	1.7	4.0	3.2	
27	1.1	5.0	12.2	19.1	160.1	481.3	342.4	112.8	23.8	1.4	3.4	3.5	
28	2.9	4.9	10.4	22.2	171.7	477.8	336.9	107.0	18.1	0.8	4.1	4.7	
29	1.9	3.1	5.6	27.6	176.6	481.3	330.0	102.3	12.2	2.3	4.1	4.3	
30	3.0	3.0	3.3	33.2	181.6	488.4	323.3	95.6	8.3	1.5		2.9	
31		3.3		34.4	185.6		314.9		7.5	1.5		2.8	
Total	96.9	144.2	311.2	274.1	2900.3	9740.4	12272.4	5840.6	1241.5	65.5	46.3	86.7	33020.1 CMSDAY
Mean	3.2	4.7	10.4	8.8	93.6	324.7	395.9	194.7	40.0	2.1	1.6	2.8	90.2 CMS
Max	5.3	14.9	23.2	34.4	185.6	488.4	491.9	306.5	84.9	4.7	4.1	4.7	491.9 CMS
Min	1.0	1.5	1.5	1.8	26.2	189.6	314.9	95.6	7.5	0.7	0.0	0.7	0.0 CMS
Runoff	8.37	12.46	26.89	23.68	250.59	841.57	1060.34	504.63	107.27	5.66	4.00	7.49	2852.94 MCM

Momentary Peak 491.90 CMS, at 8.26 M (MSL), at 6.00 Hours, on Oct 1, 1995

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

WATER YEAR 1995

CHAO PHRAYA RIVER BASIN

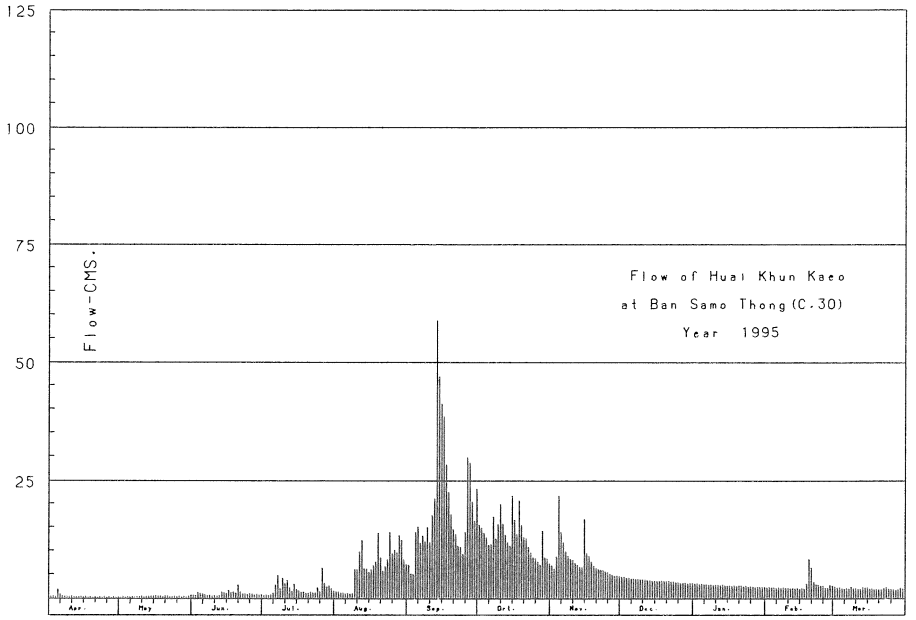
Huai Khun Kaeo at Ban Samo Thong, Uthai Thani (C.30)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 152 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.59	0.75	0.77	0.96	1.54	1.96	1.53	1.35	1.19	1.09	1.10	
2	0.69	0.59	0.76	0.77	0.94	1.41	1.93	1.48	1.34	1.18	1.09	1.09	
3	0.68	0.59	0.90	0.77	0.90	1.41	1.89	1.64	1.33	1.17	1.09	1.08	
4	1.05	0.59	0.88	0.77	0.88	1.89	1.84	2.18	1.32	1.17	1.08	1.07	
5	0.85	0.59	0.85	0.89	0.86	1.94	1.77	1.90	1.31	1.17	1.08	1.06	
6	0.70	0.59	0.79	1.16	0.86	1.79	1.77	1.79	1.30	1.16	1.08	1.06	
7	0.69	0.59	0.75	1.38	0.86	1.86	2.03	1.70	1.30	1.16	1.08	1.06	
8	0.68	0.62	0.75	1.05	0.84	1.80	1.83	1.64	1.29	1.15	1.08	1.10	
9	0.68	0.65	0.73	1.33	1.48	1.94	1.96	1.61	1.29	1.15	1.08	1.07	
10	0.67	0.69	0.72	1.19	1.47	1.79	2.12	1.59	1.28	1.15	1.07	1.06	
11	0.67	0.64	0.72	1.26	1.69	2.04	1.97	1.56	1.28	1.15	1.07	1.06	
12	0.66	0.70	0.71	1.07	1.82	2.16	1.87	1.53	1.27	1.15	1.06	1.05	
13	0.65	0.70	0.94	0.99	1.49	3.10	1.79	1.51	1.26	1.15	1.06	1.09	
14	0.64	0.69	0.90	1.17	1.48	2.87	1.76	1.50	1.25	1.14	1.06	1.09	
15	0.64	0.72	0.88	1.05	1.44	2.74	2.18	2.01	1.25	1.14	1.06	1.08	
16	0.63	0.72	1.02	0.99	1.47	2.67	2.00	1.68	1.25	1.13	1.06	1.06	
17	0.62	0.72	0.89	0.95	1.53	2.40	1.87	1.64	1.25	1.13	1.06	1.06	
18	0.61	0.69	0.96	0.93	1.57	2.21	2.15	1.58	1.25	1.13	1.18	1.05	
19	0.61	0.68	0.87	0.89	1.89	2.04	1.96	1.52	1.25	1.13	1.61	1.04	
20	0.61	0.74	1.16	0.86	1.63	1.92	1.84	1.49	1.24	1.13	1.50	1.04	
21	0.60	0.72	0.92	0.93	1.45	1.87	1.83	1.48	1.24	1.13	1.23	1.03	
22	0.60	0.68	0.86	0.91	1.52	1.76	1.75	1.47	1.23	1.12	1.17	1.08	
23	0.60	0.66	0.84	0.90	1.60	1.74	1.68	1.46	1.23	1.12	1.15	1.09	
24	0.60	0.65	0.83	1.09	1.89	1.67	1.63	1.45	1.22	1.11	1.14	1.06	
25	0.59	0.65	0.85	0.95	1.68	1.89	1.61	1.43	1.21	1.11	1.12	1.04	
26	0.59	0.65	0.84	1.50	1.71	2.44	1.57	1.41	1.20	1.11	1.07	1.04	
27	0.61	0.64	0.80	1.20	1.69	2.41	1.54	1.40	1.20	1.10	1.08	1.03	
28	0.60	0.64	0.81	1.10	1.86	2.14	1.91	1.38	1.20	1.10	1.15	1.03	
29	0.59	0.63	0.80	1.14	1.82	1.99	1.63	1.37	1.19	1.10	1.12	1.09	
30	0.59	0.67	0.78	1.05	1.60	2.23	1.61	1.36	1.19	1.09		1.05	
31		0.79		0.98	1.54		1.55		1.19	1.09		1.04	
Mean	0.66	0.66	0.84	1.03	1.43	2.06	1.83	1.58	1.26	1.14	1.13	1.06	
Max	1.05	0.79	1.16	1.50	1.89	3.10	2.18	2.18	1.35	1.19	1.61	1.10	3.10
Min	0.59	0.59	0.71	0.77	0.84	1.41	1.54	1.36	1.19	1.09	1.06	1.03	0.59

Annual Max Momentary Gage Height 3.72 M (AD), at 16.00 Hours, on Sep 13, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.99 M (AD)
Left Bank Elevation 11.14 M (AD)
Right Bank Elevation 11.75 M (AD), Drainage Area 219 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.35	0.65	0.71	1.44	7.18	15.64	7.01	4.57	3.18	2.32	2.40	
2	0.49	0.35	0.68	0.71	1.36	5.15	14.92	6.20	4.48	3.09	2.32	2.32	
3	0.47	0.35	1.20	0.71	1.20	5.15	13.98	8.92	4.39	3.01	2.32	2.24	
4	2.00	0.35	1.12	0.71	1.12	13.98	12.88	21.72	4.31	3.01	2.24	2.16	
5	1.00	0.35	1.00	1.16	1.04	15.16	11.40	14.20	4.22	3.01	2.24	2.08	
6	0.50	0.35	0.77	2.92	1.04	11.80	11.40	11.80	4.13	2.92	2.24	2.08	
7	0.49	0.35	0.65	4.83	1.04	13.32	17.44	10.00	4.13	2.92	2.24	2.08	
8	0.47	0.39	0.65	2.00	0.96	12.00	12.66	8.92	4.05	2.83	2.24	2.40	
9	0.47	0.43	0.59	4.39	6.20	15.16	15.64	8.38	4.05	2.83	2.24	2.16	
10	0.46	0.49	0.56	3.18	6.05	11.80	19.98	8.03	3.96	2.83	2.16	2.08	
11	0.46	0.42	0.56	3.79	9.82	17.72	15.88	7.52	3.96	2.83	2.16	2.08	
12	0.45	0.50	0.53	2.16	12.44	21.14	13.54	7.01	3.87	2.83	2.08	2.00	
13	0.43	0.50	1.36	1.56	6.35	59.00	11.80	6.67	3.79	2.83	2.08	2.32	
14	0.42	0.49	1.20	3.01	6.20	46.95	11.20	6.50	3.70	2.75	2.08	2.32	
15	0.42	0.56	1.12	2.00	5.60	41.34	21.72	16.88	3.70	2.75	2.08	2.24	
16	0.41	0.56	1.76	1.56	6.05	38.50	16.60	9.64	3.70	2.66	2.08	2.08	
17	0.39	0.56	1.16	1.40	7.01	28.50	13.54	8.92	3.70	2.66	2.08	2.08	
18	0.38	0.49	1.44	1.32	7.69	22.60	20.85	7.86	3.70	2.66	3.09	2.00	
19	0.38	0.47	1.08	1.16	13.98	17.72	15.64	6.84	3.70	2.66	8.38	1.92	
20	0.38	0.62	2.92	1.04	8.74	14.68	12.88	6.35	3.61	2.66	6.50	1.92	
21	0.37	0.56	1.28	1.32	5.75	13.54	12.66	6.20	3.61	2.66	3.53	1.84	
22	0.37	0.47	1.04	1.24	6.84	11.20	11.00	6.05	3.53	2.57	3.01	2.24	
23	0.37	0.45	0.96	1.20	8.20	10.80	9.64	5.90	3.53	2.57	2.83	2.32	
24	0.37	0.43	0.92	2.32	13.98	9.46	8.74	5.75	3.44	2.49	2.75	2.08	
25	0.35	0.43	1.00	1.40	9.64	13.98	8.38	5.45	3.35	2.49	2.57	1.92	
26	0.35	0.43	0.96	6.50	10.20	29.90	7.69	5.15	3.27	2.49	2.16	1.92	
27	0.38	0.42	0.80	3.27	9.82	28.85	7.18	5.00	3.27	2.40	2.24	1.84	
28	0.37	0.42	0.84	2.40	13.32	20.56	14.44	4.83	3.27	2.40	2.83	1.84	
29	0.35	0.41	0.80	2.75	12.44	16.36	8.74	4.74	3.18	2.40	2.57	2.32	
30	0.35	0.46	0.74	2.00	8.20	23.20	8.38	4.65	3.18	2.32		2.00	
31		0.77		1.52	7.18		7.35		3.18	2.32		1.92	
Total	14.60	14.18	30.34	66.24	210.90	596.70	403.79	243.09	116.53	84.03	79.66	65.20	1925.26 CMSDAY
Mean	0.49	0.46	1.01	2.14	6.80	19.89	13.03	8.10	3.76	2.71	2.75	2.10	5.26 CMS
Max	2.00	0.77	2.92	6.50	13.98	59.00	21.72	21.72	4.57	3.18	8.38	2.40	59.00 CMS
Min	0.35	0.35	0.53	0.71	0.96	5.15	7.18	4.65	3.18	2.32	2.08	1.84	0.35 CMS
Runoff	1.261	1.225	2.621	5.723	18.222	51.555	34.887	21.003	10.068	7.260	6.883	5.633	166.342 MCM

Momentary Peak 102.36 CMS, at 3.72 M (AD), at 16.00 Hours, on Sep 13, 1995

Runoff Yield 24.02 Liters/Second/Square KM, Momentary Peak Yield 467.397 Liters/Second/Square KM

WATER YEAR 1995

SAKAE KRANG RIVER BASIN

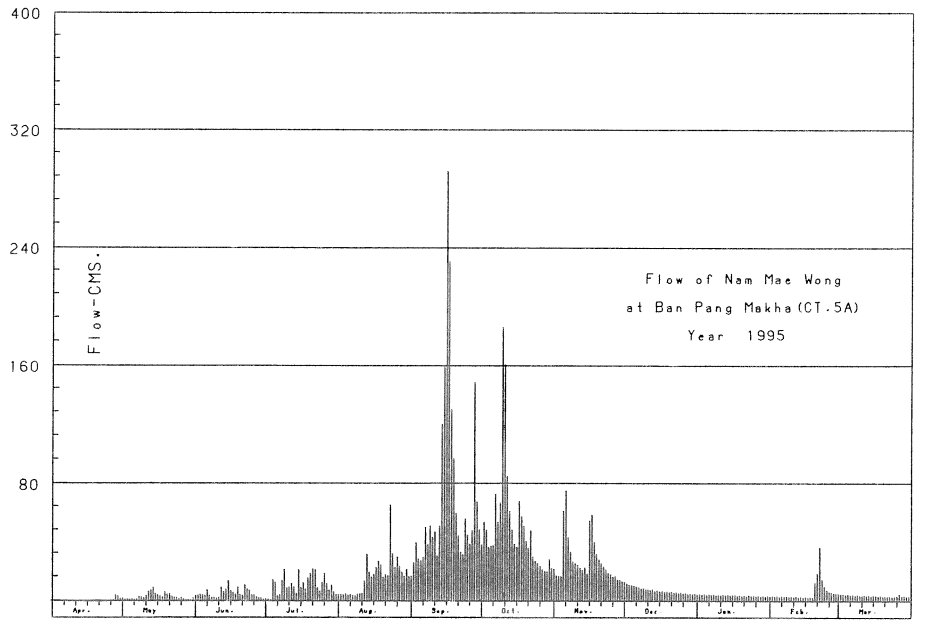
Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (CT.5A)

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	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Infront of the station office.
Elevation	+4.600 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1969 to date.
Rated by Float	-
Rated by Current Meter	1969 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir about 50 meters downstream from the gage site. Stage-discharge relation defined by 53 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.09	0.09	0.29	0.07	0.34	1.08	1.70	0.86	0.69	0.36	0.26	0.38	
2	-0.06	0.06	0.38	0.07	0.35	1.41	1.60	0.83	0.65	0.36	0.26	0.36	
3	-0.03	0.08	0.32	0.77	0.38	1.15	1.34	0.84	0.65	0.36	0.26	0.35	
4	-0.03	0.07	0.31	0.70	0.35	1.13	1.35	1.83	0.63	0.35	0.25	0.34	
5	-0.03	0.08	0.53	0.27	0.34	1.18	1.37	2.07	0.62	0.35	0.25	0.34	
6	-0.03	0.10	0.28	0.33	0.28	1.62	2.03	1.48	0.59	0.35	0.24	0.33	
7	-0.03	0.23	0.20	0.75	0.30	1.38	1.69	1.27	0.57	0.35	0.24	0.33	
8	-0.03	0.18	0.16	0.96	0.35	1.64	1.94	1.10	0.56	0.33	0.24	0.32	
9	-0.02	0.16	0.14	0.58	0.41	1.48	3.10	1.08	0.55	0.33	0.23	0.32	
10	-0.02	0.27	0.16	0.59	0.40	1.57	2.93	1.04	0.53	0.33	0.24	0.31	
11	-0.02	0.49	0.59	0.67	0.73	1.21	2.20	0.99	0.53	0.33	0.23	0.30	
12	-0.02	0.53	0.48	0.60	1.24	1.64	1.83	0.95	0.53	0.33	0.22	0.30	
13	-0.03	0.58	0.53	0.42	0.92	2.58	1.60	1.00	0.50	0.33	0.21	0.29	
14	-0.03	0.41	0.74	0.97	0.81	2.92	1.38	0.89	0.50	0.32	0.21	0.28	
15	-0.01	0.30	0.51	0.59	0.88	3.74	1.34	1.71	0.49	0.31	0.20	0.28	
16	-0.02	0.24	0.43	0.70	1.00	3.38	1.95	1.79	0.48	0.31	0.20	0.27	
17	-0.02	0.21	0.38	0.53	1.12	2.68	1.77	1.42	0.47	0.30	0.20	0.27	
18	-0.02	0.47	0.59	0.80	1.04	2.34	1.64	1.23	0.47	0.29	0.20	0.27	
19	-0.03	0.34	0.33	0.89	0.82	1.81	1.43	1.15	0.46	0.28	0.69	0.26	
20	-0.01	0.39	0.33	0.97	0.86	1.50	1.32	1.07	0.46	0.28	0.89	0.25	
21	-0.01	0.28	0.66	0.97	0.84	1.26	1.59	1.02	0.45	0.28	1.34	0.25	
22	-0.01	0.21	0.56	0.59	1.91	1.23	1.19	0.96	0.44	0.29	0.77	0.24	
23	-0.01	0.15	0.50	0.48	1.24	1.73	1.12	0.91	0.43	0.29	0.61	0.24	
24	-0.02	0.12	0.35	0.71	1.01	1.52	1.07	0.87	0.43	0.28	0.53	0.23	
25	-0.03	0.15	0.31	0.89	1.20	1.39	1.03	0.83	0.42	0.28	0.47	0.28	
26	0.04	0.07	0.25	0.67	1.02	1.58	0.96	0.83	0.41	0.28	0.44	0.35	
27	0.34	0.06	0.17	0.52	0.92	2.83	0.94	0.77	0.40	0.27	0.42	0.28	
28	0.23	0.03	0.13	0.65	0.83	1.95	0.92	0.75	0.39	0.26	0.40	0.26	
29	0.13	0.05	0.09	0.45	0.98	1.59	1.15	0.73	0.38	0.26	0.40	0.25	
30	0.11	0.14	0.08	0.37	0.83	1.37	0.98	0.71	0.38	0.26		0.23	
31		0.30		0.32	0.83		0.97		0.37	0.26		0.23	
Mean	0.01	0.22	0.36	0.61	0.79	1.80	1.53	1.10	0.50	0.31	0.38	0.29	
Max	0.34	0.58	0.74	0.97	1.91	3.74	3.10	2.07	0.69	0.36	1.34	0.38	3.74
Min	-0.09	0.03	0.08	0.07	0.28	1.08	0.92	0.71	0.37	0.26	0.20	0.23	-0.09

Annual Max Momentary Gage Height 3.96 M (A.D), at 10.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.22 M (A.D)
Left Bank Elevation 4.16 M (A.D)
Right Bank Elevation 4.70 M (A.D), Drainage Area 938 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	1.40	3.72	1.20	4.30	25.88	54.30	17.70	12.20	4.53	3.37	4.77	
2	0.20	1.10	4.77	1.20	4.42	40.13	49.00	16.72	11.00	4.53	3.37	4.53	
3	0.35	1.30	4.07	14.78	4.77	28.57	36.87	17.05	11.00	4.53	3.37	4.42	
4	0.35	1.20	3.95	12.50	4.42	27.80	37.33	61.32	10.40	4.42	3.25	4.30	
5	0.35	1.30	7.75	3.48	4.30	29.73	38.27	75.55	10.10	4.42	3.25	4.30	
6	0.35	1.50	3.60	4.18	3.60	50.06	72.95	43.40	9.25	4.42	3.13	4.18	
7	0.35	3.02	2.67	14.13	3.83	38.73	53.77	33.65	8.75	4.42	3.13	4.18	
8	0.35	2.43	2.20	21.28	4.42	51.12	67.46	26.65	8.50	4.18	3.13	4.07	
9	0.40	2.20	1.97	9.00	5.20	43.40	186.00	25.88	8.25	4.18	3.02	4.07	
10	0.40	3.48	2.20	9.25	5.00	47.60	161.20	24.34	7.75	4.18	3.13	3.95	
11	0.40	6.80	9.25	11.60	13.48	30.95	85.50	22.42	7.75	4.18	3.02	3.83	
12	0.40	7.75	6.60	9.50	32.30	51.12	61.32	20.90	7.75	4.18	2.90	3.83	
13	0.35	9.00	7.75	5.40	19.76	120.00	49.00	22.80	7.00	4.18	2.78	3.72	
14	0.35	5.20	13.80	21.66	16.07	159.80	38.73	18.68	7.00	4.07	2.78	3.60	
15	0.45	3.83	7.25	9.25	18.35	292.20	36.87	54.84	6.80	3.95	2.67	3.60	
16	0.40	3.13	5.60	12.50	22.80	230.25	68.05	59.16	6.60	3.95	2.67	3.48	
17	0.40	2.78	4.77	7.75	27.42	130.80	58.08	40.60	6.40	3.83	2.67	3.48	
18	0.40	6.40	9.25	15.75	24.34	97.40	51.12	31.85	6.40	3.72	2.67	3.48	
19	0.35	4.30	4.18	18.68	16.40	60.24	41.07	28.57	6.20	3.60	12.20	3.37	
20	0.45	4.88	4.18	21.66	17.70	44.33	35.93	25.50	6.20	3.60	18.68	3.25	
21	0.45	3.60	11.30	21.66	17.05	33.20	48.53	23.57	6.00	3.60	36.87	3.25	
22	0.45	2.78	8.50	9.25	65.69	31.85	30.12	21.28	5.80	3.72	14.78	3.13	
23	0.45	2.08	7.00	6.60	32.30	55.92	27.42	19.38	5.60	3.72	9.80	3.13	
24	0.40	1.73	4.42	12.82	23.18	45.27	25.50	18.03	5.60	3.60	7.75	3.02	
25	0.35	2.08	3.95	18.68	30.50	39.20	23.95	16.72	5.40	3.60	6.40	3.60	
26	0.90	1.20	3.25	11.60	23.57	48.07	21.28	16.72	5.20	3.60	5.80	4.42	
27	4.30	1.10	2.32	7.50	19.76	148.60	20.52	14.78	5.00	3.48	5.40	3.60	
28	3.02	0.80	1.85	11.00	16.72	68.05	19.76	14.13	4.88	3.37	5.00	3.37	
29	1.85	1.00	1.40	6.00	22.04	48.53	28.57	13.48	4.77	3.37	5.00	3.25	
30	1.62	1.97	1.30	4.65	16.72	38.27	22.04	12.82	4.77	3.37		3.02	
31		3.83		4.07	16.72		21.66		4.65	3.37		3.02	
Total	20.89	95.17	154.82	338.58	537.13	2157.07	1572.17	838.49	222.97	121.87	181.99	115.22	6356.37 CMSDAY
Mean	0.70	3.07	5.16	10.92	17.33	71.90	50.72	27.95	7.19	3.93	6.28	3.72	17.37 CMS
Max	4.30	9.00	13.80	21.66	65.69	292.20	186.00	75.55	12.20	4.53	36.87	4.77	292.20 CMS
Min	0.05	0.80	1.30	1.20	3.60	25.88	19.76	12.82	4.65	3.37	2.67	3.02	0.05 CMS
Runoff	1.805	8.223	13.376	29.253	46.408	186.371	135.836	72.446	19.265	10.530	15.724	9.955	549.190 MCM

Momentary Peak 332.60 CMS, at 3.96 M (A.D), at 10.00 Hours, on Sep 15, 1995

Runoff Yield 18.52 Liters/Second/Square KM, Momentary Peak Yield 354.584 Liters/Second/Square KM

WATER YEAR 1995

SAKAE KRANG RIVER BASIN

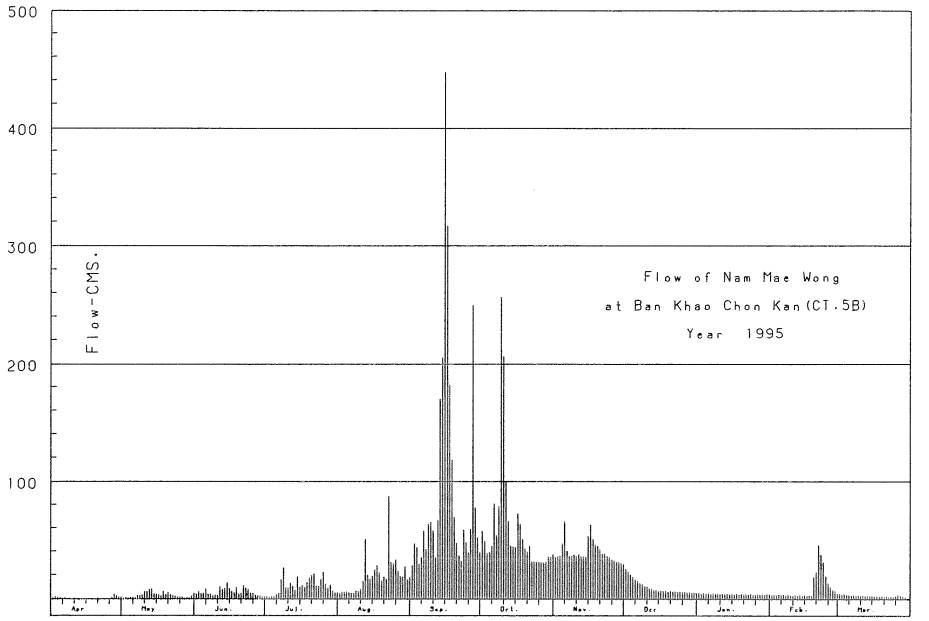
Nam Mae Wong at Ban Khao Chon Kan, Nakhon Sawan (CT.5B)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir about 50 meters above gage site. Stage-discharge relation defined by 43 discharge measurements made in 1988, 1992 and 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.83	4.80	5.08	4.86	5.12	5.97	6.55	6.13	5.89	5.12	5.02	5.08	
2	4.84	4.81	5.17	4.85	5.15	6.35	6.40	6.13	5.83	5.11	5.02	5.06	
3	4.85	4.82	5.11	4.85	5.18	6.30	6.19	6.15	5.78	5.11	5.01	5.05	
4	4.77	4.81	5.10	4.89	5.17	5.98	6.22	6.36	5.72	5.10	5.01	5.01	
5	4.76	4.80	5.32	5.04	5.16	6.12	6.31	6.68	5.67	5.10	5.01	4.98	
6	4.77	4.81	5.07	5.09	5.10	6.55	6.89	6.24	5.61	5.09	5.01	4.98	
7	4.77	4.97	5.02	5.67	5.13	6.26	6.49	6.15	5.56	5.09	4.99	4.97	
8	4.75	4.93	4.98	5.92	5.20	6.65	6.86	6.14	5.49	5.08	4.99	4.96	
9	4.75	5.01	4.96	5.35	5.22	6.67	8.20	6.18	5.44	5.07	4.98	4.96	
10	4.74	5.17	4.98	5.34	5.30	6.55	7.91	6.14	5.39	5.06	4.98	4.94	
11	4.68	5.21	5.40	5.53	5.62	6.12	7.12	6.17	5.35	5.06	4.97	4.94	
12	4.66	5.29	5.30	5.44	6.42	6.70	6.68	6.14	5.31	5.06	4.97	4.94	
13	4.65	5.31	5.33	5.24	5.77	7.68	6.33	6.13	5.27	5.06	4.97	4.93	
14	4.65	5.10	5.58	5.74	5.67	7.90	6.30	6.13	5.25	5.06	4.96	4.93	
15	4.74	5.03	5.34	5.39	5.75	9.17	6.29	6.47	5.23	5.06	4.96	4.92	
16	4.72	4.98	5.20	5.43	5.86	8.53	6.78	6.64	5.23	5.05	4.96	4.92	
17	4.71	4.97	5.15	5.38	5.96	7.76	6.64	6.43	5.22	5.05	4.95	4.91	
18	4.71	5.20	5.36	5.56	5.81	7.30	6.43	6.34	5.21	5.04	4.95	4.91	
19	4.71	5.04	5.10	5.71	5.63	6.74	6.27	6.32	5.20	5.04	5.72	4.89	
20	4.74	5.14	5.10	5.75	5.72	6.36	6.22	6.26	5.20	5.04	5.82	4.89	
21	4.73	5.04	5.44	5.78	5.68	6.16	6.32	6.20	5.20	5.04	6.34	4.88	
22	4.73	4.97	5.36	5.44	6.98	6.04	6.04	6.19	5.19	5.04	6.18	4.88	
23	4.73	4.89	5.28	5.40	6.03	6.57	6.03	6.15	5.19	5.04	6.02	4.88	
24	4.72	4.87	5.13	5.67	5.99	6.38	6.03	6.12	5.18	5.03	5.75	4.88	
25	4.72	4.84	5.09	5.83	6.08	6.22	6.03	6.08	5.18	5.03	5.55	4.93	
26	4.79	4.82	5.02	5.49	5.84	6.57	6.02	6.05	5.17	5.03	5.38	4.99	
27	5.08	4.80	4.95	5.33	5.74	8.16	6.02	6.03	5.16	5.03	5.29	4.96	
28	4.92	4.79	4.91	5.49	5.72	6.85	6.02	6.02	5.15	5.03	5.21	4.86	
29	4.85	4.82	4.88	5.23	5.93	6.45	6.14	6.01	5.15	5.03	5.12	4.82	
30	4.82	4.91	4.86	5.15	5.67	6.21	6.12	5.98	5.13	5.03		4.79	
31		5.11		5.13	5.71		6.17		5.13	5.03		4.78	
Mean	4.76	4.97	5.15	5.39	5.66	6.78	6.45	6.21	5.34	5.06	5.24	4.93	
Max	5.08	5.31	5.58	5.92	6.98	9.17	8.20	6.68	5.89	5.12	6.34	5.08	9.17
Min	4.65	4.79	4.86	4.85	5.10	5.97	6.02	5.98	5.13	5.03	4.95	4.78	4.65

Annual Max Momentary Gage Height 9.40 M (A.D), at 9.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 4.74 M (A.D)
Left Bank Elevation 13.43 M (A.D)
Right Bank Elevation 13.02 M (A.D), Drainage Area 930 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.85	1.50	4.77	2.20	5.35	29.22	58.13	36.03	25.82	5.35	4.07	4.77	
2	1.97	1.62	6.23	2.08	5.88	47.00	49.67	36.03	23.27	5.18	4.07	4.53	
3	2.08	1.73	5.18	2.08	6.40	44.33	38.58	36.88	21.20	5.18	3.95	4.42	
4	1.20	1.62	5.00	2.55	6.23	29.65	40.07	47.53	18.80	5.00	3.95	3.95	
5	1.10	1.50	8.93	4.30	6.05	35.60	44.87	66.25	17.10	5.00	3.95	3.60	
6	1.20	1.62	4.65	4.88	5.00	58.13	81.25	41.13	15.30	4.88	3.95	3.60	
7	1.20	3.48	4.07	17.10	5.53	42.20	54.47	36.88	14.13	4.88	3.72	3.48	
8	1.00	3.02	3.60	27.10	6.75	64.38	79.00	36.45	12.62	4.77	3.72	3.37	
9	1.00	3.95	3.37	9.58	7.10	65.63	257.25	38.15	11.53	4.65	3.60	3.37	
10	0.90	6.23	3.60	9.37	8.50	58.13	207.15	36.45	10.45	4.53	3.60	3.13	
11	0.30	6.92	10.67	13.48	15.60	35.60	99.90	37.73	9.58	4.53	3.48	3.13	
12	0.10	8.32	8.50	11.53	50.73	67.50	66.25	36.45	8.72	4.53	3:48	3.13	
13	0.00	8.72	9.15	7.45	20.80	170.00	45.93	36.03	7.97	4.53	3.48	3.02	
14	0.00	5.00	14.57	19.60	17.10	205.50	44.33	36.03	7.62	4.53	3.37	3.02	
15	0.90	4.18	9.37	10.45	20.00	447.70	43.80	53.40	7.27	4.53	3.37	2.90	
16	0.70	3.60	6.75	11.32	24.55	317.85	73.10	63.75	7.27	4.42	3.37	2.90	
17	0.60	3.48	5.88	10.23	28.80	182.60	63.75	51.27	7.10	4.42	3.25	2.78	
18	0.60	6.75	9.80	14.13	22.42	118.50	51.27	46.47	6.92	4.30	3.25	2.78	
19	0.60	4.30	5.00	18.40	15.90	70.30	42.73	45.40	6.75	4.30	18.80	2.55	
20	0.90	5.70	5.00	20.00	18.80	47.53	40.07	42.20	6.75	4.30	22.85	2.55	
21	0.80	4.30	11.53	21.20	17.40	37.30	45.40	39.00	6.75	4.30	46.47	2.43	
22	0.80	3.48	9.80	11.53	88.00	32.20	32.20	38.58	6.58	4.30	38.15	2.43	
23	0.80	2.55	8.15	10.67	31.78	59.38	31.78	36.88	6.58	4.30	31.35	2.43	
24	0.70	2.32	5.53	17.10	30.07	48.60	31.78	35.60	6.40	4.18	20.00	2.43	
25	0.70	1.97	4.88	23.27	33.90	40.07	31.78	33.90	6.40	4.18	13.92	3.02	
26	1.40	1.73	4.07	12.62	23.70	59.38	31.35	32.63	6.23	4.18	10.23	3.72	
27	4.77	1.50	3.25	9.15	19.60	250.15	31.35	31.78	6.05	4.18	8.32	3.37	
28	2.90	1.40	2.78	12.62	18.80	78.25	31.35	31.35	5.88	4.18	6.92	2.20	
29	2.08	1.73	2.43	7.27	27.52	52.33	36.45	30.93	5.88	4.18	5.35	1.73	
30	1.73	2.78	2.20	5.88	17.10	39.53	35.60	29.65	5.53	4.18		1.40	
31		5.18		5.53	18.40		37.73		5.53	4.18		1.30	
Total	34.88	112.18	188.71	354.67	623.76	2834.54	1858.34	1200.81	313.98	140.15	287.99	93.44	8043.45 CMSDAY
Mean	1.16	3.62	6.29	11.44	20.12	94.48	59.95	40.03	10.13	4.52	9.93	3.01	21.98 CMS
Max	4.77	8.72	14.57	27.10	88.00	447.70	257.25	66.25	25.82	5.35	46.47	4.77	447.70 CMS
Min	0.00	1.40	2.20	2.08	5.00	29.22	31.35	29.65	5.53	4.18	3.25	1.30	0.00 CMS
Runoff	3.014	9.692	16.305	30.643	53.893	244.904	160.561	103.750	27.128	12.109	24.882	8.073	694.954 MCM

Momentary Peak 497.50 CMS, at 9.40 M (A.D), at 9.00 Hours, on Sep 15, 1995

Runoff Yield 23.63 Liters/Second/Square KM, Momentary Peak Yield 534.946 Liters/Second/Square KM

WATER YEAR 1995

SAKAE KRANG RIVER BASIN

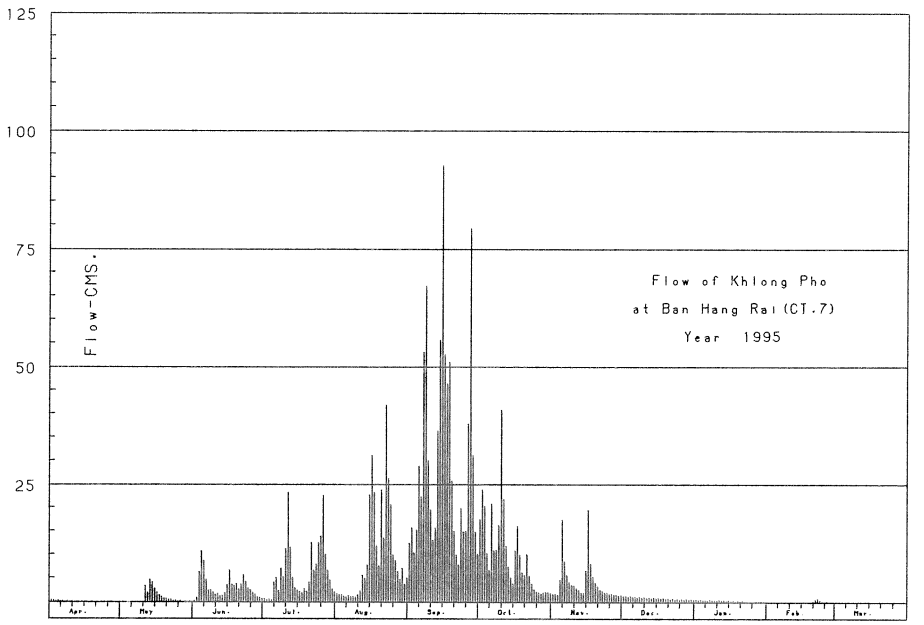
Khlong Pho at Ban Hang Rai, Nakhon Sawan (CT.7)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 123 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.71	0.52	0.63	0.74	0.94	1.55	1.70	0.95	0.87	0.72	0.55	0.56	
2	0.68	0.53	0.81	0.72	0.93	1.65	1.87	0.93	0.86	0.71	0.55	0.56	
3	0.67	0.52	1.31	0.72	0.90	1.48	1.78	0.92	0.85	0.71	0.55	0.55	
4	0.65	0.51	1.50	0.71	0.86	1.64	1.47	1.21	0.85	0.71	0.54	0.55	
5	0.64	0.50	1.41	1.18	0.84	1.99	1.33	1.70	0.84	0.70	0.54	0.54	
6	0.63	0.51	1.22	1.24	0.87	1.83	1.79	1.41	0.83	0.70	0.54	0.54	
7	0.63	0.49	1.04	1.05	0.85	2.47	1.50	1.28	0.82	0.71	0.54	0.53	
8	0.63	0.48	1.05	1.35	0.83	2.66	1.50	1.18	0.82	0.70	0.53	0.53	
9	0.63	0.47	1.01	1.25	0.83	2.02	1.67	1.15	0.81	0.69	0.53	0.52	
10	0.62	0.46	0.93	1.51	0.90	1.76	2.25	1.13	0.81	0.69	0.53	0.52	
11	0.62	1.13	0.94	1.86	1.03	1.57	1.82	1.10	0.80	0.69	0.53	0.52	
12	0.61	1.00	0.87	1.52	1.27	1.65	1.53	1.05	0.80	0.69	0.53	0.52	
13	0.59	1.22	0.86	1.25	1.24	2.16	1.36	1.00	0.80	0.68	0.53	0.54	
14	0.58	1.18	0.99	1.11	1.38	2.51	1.24	0.98	0.79	0.68	0.52	0.59	
15	0.58	1.10	1.14	1.06	1.84	2.93	1.16	1.32	0.79	0.67	0.52	0.57	
16	0.57	0.99	1.33	1.01	2.04	2.46	1.50	1.76	0.78	0.67	0.52	0.55	
17	0.56	0.91	1.16	0.99	1.86	2.35	1.66	1.39	0.78	0.66	0.52	0.53	
18	0.56	0.82	1.13	1.08	1.54	2.43	1.46	1.25	0.77	0.66	0.51	0.53	
19	0.56	0.79	1.16	1.03	1.37	1.92	1.31	1.18	0.77	0.65	0.55	0.52	
20	0.55	0.75	1.08	1.18	1.87	1.63	1.27	1.12	0.76	0.65	0.59	0.52	
21	0.55	0.73	1.15	1.56	1.59	1.46	1.47	1.07	0.75	0.65	0.75	0.51	
22	0.55	0.71	1.28	1.33	2.27	1.38	1.27	1.03	0.75	0.65	0.76	0.51	
23	0.54	0.69	1.20	1.38	1.93	1.77	1.16	1.00	0.74	0.58	0.71	0.51	
24	0.54	0.67	1.09	1.56	1.79	1.63	1.08	0.98	0.74	0.58	0.66	0.50	
25	0.53	0.65	1.07	1.60	1.46	1.63	1.03	0.95	0.73	0.57	0.62	0.50	
26	0.53	0.64	1.00	1.84	1.42	2.19	0.98	0.94	0.73	0.57	0.60	0.50	
27	0.53	0.63	0.91	1.47	1.32	2.80	0.97	0.93	0.73	0.57	0.58	0.50	
28	0.53	0.63	0.83	1.33	1.22	2.04	0.98	0.90	0.73	0.57	0.58	0.50	
29	0.53	0.62	0.78	1.21	1.34	1.63	1.02	0.89	0.73	0.56	0.57	0.50	
30	0.53	0.63	0.76	1.09	1.16	1.47	0.99	0.89	0.72	0.56		0.49	
31		0.62		1.00	1.24		0.96		0.72	0.55		0.49	
Mean	0.59	0.71	1.05	1.22	1.32	1.96	1.39	1.12	0.78	0.65	0.57	0.53	
Max	0.71	1.22	1.50	1.86	2.27	2.93	2.25	1.76	0.87	0.72	0.76	0.59	2.93
Min	0.53	0.46	0.63	0.71	0.83	1.38	0.96	0.89	0.72	0.55	0.51	0.49	0.46

Annual Max Momentary Gage Height 2.96 M (A.D), at 18.00 Hours, on Sep 15, 1995
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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	0.04	0.29	0.70	1.77	12.50	17.50	1.82	1.39	0.60	0.10	0.12	
2	0.44	0.06	1.05	0.60	1.72	15.75	23.88	1.72	1.33	0.55	0.10	0.12	
3	0.41	0.04	6.43	0.60	1.55	10.50	20.50	1.66	1.28	0.55	0.10	0.10	
4	0.35	0.02	11.00	0.55	1.33	15.40	10.25	4.67	1.28	0.55	0.08	0.10	
5	0.32	0.00	8.75	4.20	1.22	28.96	6.89	17.50	1.22	0.50	0.08	0.08	
6	0.29	0.02	4.84	5.18	1.39	22.38	20.87	8.75	1.16	0.50	0.08	0.08	
7	0.29	0.00	2.46	2.55	1.28	53.31	11.00	5.86	1.11	0.55	0.08	0.06	
8	0.29	0.00	2.55	7.35	1.16	67.18	11.00	4.20	1.11	0.50	0.06	0.06	
9	0.29	0.00	2.19	5.35	1.16	30.30	16.45	3.75	1.05	0.47	0.06	0.04	
10	0.26	0.00	1.72	11.30	1.55	19.75	41.05	3.45	1.05	0.47	0.06	0.04	
11	0.26	3.45	1.77	23.50	2.37	13.10	22.00	3.00	1.00	0.47	0.06	0.04	
12	0.23	2.10	1.39	11.60	5.69	15.75	11.90	2.55	1.00	0.47	0.06	0.04	
13	0.18	4.84	1.33	5.35	5.18	36.60	7.58	2.10	1.00	0.44	0.06	0.08	
14	0.16	4.20	2.05	3.15	8.04	55.72	5.18	1.99	0.95	0.44	0.04	0.18	
15	0.16	3.00	3.60	2.64	22.75	92.80	3.90	6.66	0.95	0.41	0.04	0.14	
16	0.14	2.05	6.89	2.19	31.20	52.74	11.00	19.75	0.90	0.41	0.04	0.10	
17	0.12	1.61	3.90	2.05	23.50	46.52	16.10	8.27	0.90	0.38	0.04	0.06	
18	0.12	1.11	3.45	2.82	12.20	51.05	10.00	5.35	0.85	0.38	0.02	0.06	
19	0.12	0.95	3.90	2.37	7.81	25.88	6.43	4.20	0.85	0.35	0.10	0.04	
20	0.10	0.75	2.82	4.20	23.88	15.05	5.69	3.30	0.80	0.35	0.18	0.04	
21	0.10	0.65	3.75	12.80	13.70	10.00	10.25	2.73	0.75	0.35	0.75	0.02	
22	0.10	0.55	5.86	6.89	42.11	8.04	5.69	2.37	0.75	0.35	0.80	0.02	
23	0.08	0.47	4.50	8.04	26.32	20.12	3.90	2.10	0.70	0.16	0.55	0.02	
24	0.08	0.41	2.91	12.80	20.87	15.05	2.82	1.99	0.70	0.16	0.38	0.00	
25	0.06	0.35	2.73	14.00	10.00	15.05	2.37	1.82	0.65	0.14	0.26	0.00	
26	0.06	0.32	2.10	22.75	9.00	37.95	1.99	1.77	0.65	0.14	0.20	0.00	
27	0.06	0.29	1.61	10.25	6.66	79.50	1.94	1.72	0.65	0.14	0.16	0.00	
28	0.06	0.29	1.16	6.89	4.84	31.20	1.99	1.55	0.65	0.14	0.16	0.00	
29	0.06	0.26	0.90	4.67	7.12	15.05	2.28	1.49	0.65	0.12	0.14	0.00	
30	0.06	0.29	0.80	2.91	3.90	10.25	2.05	1.49	0.60	0.12		0.00	
31		0.26		2.10	5.18		1.88		0.60	0.10		0.00	
Total	5.80	28.38	98.70	202.35	306.45	923.45	316.33	129.58	28.53	11.26	4.84	1.64	2057.31 CMSDAY
Mean	0.19	0.92	3.29	6.53	9.89	30.78	10.20	4.32	0.92	0.36	0.17	0.05	5.62 CMS
Max	0.55	4.84	11.00	23.50	42.11	92.80	41.05	19.75	1.39	0.60	0.80	0.18	92.80 CMS
Min	0.06	0.00	0.29	0.55	1.16	8.04	1.88	1.49	0.60	0.10	0.02	0.00	0.00 CMS
Runoff	0.501	2.452	8.528	17.483	26.477	79.786	27.331	11.196	2.465	0.973	0.418	0.142	177.752 MCM

Momentary Peak 96.10 CMS, at 2.96 M (A.D), at 18.00 Hours, on Sep 15, 1995

Runoff Yield 12.30 Liters/Second/Square KM, Momentary Peak Yield 210.284 Liters/Second/Square KM

WATER YEAR 1995

SAKAE KRANG RIVER BASIN

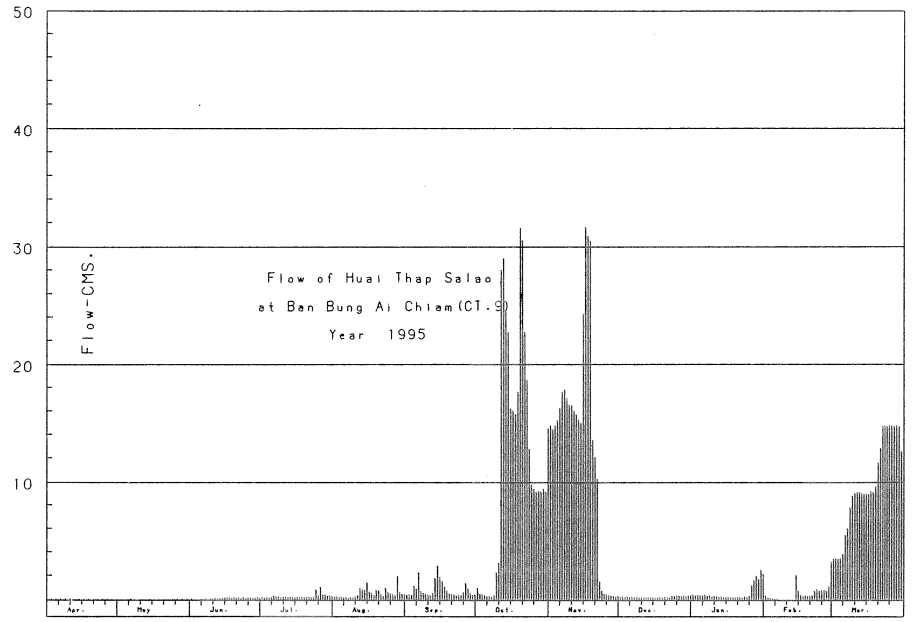
Huai Thap Salao at Ban Bung Ai Chiam, Uthai Thani (CT.9)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Thap Salao reservoir about 5 kilometers above gage site. Stage-discharge relation defined by 94 discharge measurements made in 1995.
Remarks.	Flow released from Thap Salao Dam upstream during Jan.25 - Mar.31, 1996.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.10	124.09	124.09	124.13	124.16	124.21	124.32	125.14	124.15	124.21	124.18	124.55	
2	124.10	124.09	124.09	124.13	124.15	124.21	124.23	125.13	124.15	124.20	124.14	124.55	
3	124.10	124.09	124.10	124.13	124.15	124.21	124.21	125.14	124.15	124.20	124.11	124.55	
4	124.10	124.08	124.10	124.13	124.14	124.34	124.20	125.16	124.15	124.20	124.10	124.55	
5	124.10	124.08	124.10	124.15	124.14	124.32	124.18	125.20	124.15	124.20	124.10	124.58	
6	124.10	124.08	124.10	124.17	124.13	124.46	124.16	125.25	124.15	124.20	124.07	124.69	
7	124.10	124.08	124.10	124.17	124.13	124.28	124.16	125.26	124.15	124.19	124.07	124.72	
8	124.10	124.08	124.10	124.15	124.13	124.25	124.19	125.23	124.14	124.18	124.06	124.82	
9	124.10	124.08	124.11	124.14	124.15	124.22	124.46	125.21	124.14	124.17	124.06	124.87	
10	124.10	124.08	124.11	124.14	124.15	124.20	124.52	125.21	124.14	124.17	124.06	124.88	
11	124.10	124.08	124.11	124.14	124.20	124.20	125.58	125.19	124.14	124.16	124.06	124.89	
12	124.10	124.08	124.11	124.14	124.32	124.24	125.61	125.18	124.14	124.16	124.06	124.89	
13	124.10	124.08	124.11	124.14	124.31	124.41	125.48	125.16	124.14	124.15	124.06	124.88	
14	124.10	124.08	124.13	124.14	124.30	124.51	125.42	125.15	124.14	124.15	124.44	124.88	
15	124.09	124.08	124.13	124.14	124.38	124.42	125.20	125.47	124.14	124.15	124.30	124.88	
16	124.09	124.08	124.13	124.14	124.28	124.39	125.19	125.68	124.14	124.14	124.19	124.88	
17	124.09	124.08	124.13	124.14	124.24	124.34	125.18	125.66	124.14	124.14	124.18	124.89	
18	124.09	124.08	124.13	124.14	124.21	124.29	125.25	125.65	124.14	124.14	124.18	124.89	
19	124.09	124.08	124.13	124.14	124.30	124.24	125.68	125.09	124.14	124.14	124.18	124.91	
20	124.09	124.09	124.13	124.14	124.30	124.21	125.65	125.03	124.14	124.14	124.18	125.01	
21	124.09	124.09	124.13	124.14	124.22	124.21	125.42	124.94	124.14	124.14	124.18	125.06	
22	124.09	124.09	124.13	124.14	124.18	124.20	125.29	124.39	124.14	124.14	124.30	125.14	
23	124.09	124.09	124.13	124.14	124.32	124.20	125.06	124.29	124.17	124.16	124.31	125.14	
24	124.09	124.09	124.13	124.31	124.27	124.21	124.92	124.24	124.19	124.16	124.30	125.14	
25	124.09	124.09	124.13	124.21	124.23	124.25	124.90	124.21	124.18	124.18	124.30	125.14	
26	124.09	124.09	124.13	124.33	124.21	124.37	124.89	124.19	124.18	124.35	124.30	125.14	
27	124.09	124.09	124.13	124.22	124.20	124.32	124.89	124.19	124.18	124.40	124.30	125.14	
28	124.09	124.09	124.13	124.20	124.43	124.24	124.89	124.17	124.18	124.43	124.34	125.14	
29	124.09	124.09	124.13	124.19	124.26	124.21	124.90	124.16	124.18	124.41	124.53	125.14	
30	124.09	124.09	124.13	124.18	124.23	124.20	124.89	124.16	124.18	124.48		125.05	
31		124.10		124.16	124.21		125.13		124.20	124.44		124.92	
Mean	124.09	124.09	124.12	124.16	124.23	124.28	124.90	124.94	124.15	124.22	124.19	124.90	
Max	124.10	124.10	124.13	124.33	124.43	124.51	125.68	125.68	124.20	124.48	124.53	125.14	125.68
Min	124.09	124.08	124.09	124.13	124.13	124.20	124.16	124.16	124.14	124.14	124.06	124.55	124.06

Annual Max Momentary Gage Height 125.71 M (MSL), at 18.00 Hours, on Oct 11, 1995
Zero Gage at Bottom Elevation 123.45 M (MSL), River Bed 124.10 M (MSL)
Left Bank Elevation 127.54 M (MSL)
Right Bank Elevation 127.62 M (MSL), Drainage Area 522 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.08	0.08	0.19	0.28	0.44	0.98	14.80	0.25	0.44	0.34	3.50	
2	0.10	0.08	0.08	0.19	0.25	0.44	0.52	14.55	0.25	0.40	0.22	3.50	
3	0.10	0.08	0.10	0.19	0.25	0.44	0.44	14.80	0.25	0.40	0.13	3.50	
4	0.10	0.06	0.10	0.19	0.22	1.16	0.40	15.30	0.25	0.40	0.10	3.50	
5	0.10	0.06	0.10	0.25	0.22	0.98	0.34	16.30	0.25	0.40	0.10	3.92	
6	0.10	0.06	0.10	0.31	0.19	2.36	0.28	17.65	0.25	0.40	0.04	5.55	
7	0.10	0.06	0.10	0.31	0.19	0.72	0.28	17.92	0.25	0.37	0.04	6.06	
8	0.10	0.06	0.10	0.25	0.19	0.60	0.37	17.11	0.22	0.34	0.02	7.88	
9	0.10	0.06	0.13	0.22	0.25	0.48	2.36	16.57	0.22	0.31	0.02	8.83	
10	0.10	0.06	0.13	0.22	0.25	0.40	3.08	16.57	0.22	0.31	0.02	9.02	
11	0.10	0.06	0.13	0.22	0.40	0.40	28.02	16.05	0.22	0.28	0.02	9.21	
12	0.10	0.06	0.13	0.22	0.98	0.56	29.07	15.80	0.22	0.28	0.02	9.21	
13	0.10	0.06	0.13	0.22	0.89	1.81	24.66	15.30	0.22	0.25	0.02	9.02	
14	0.10	0.06	0.19	0.22	0.80	2.94	22.74	15.05	0.22	0.25	2.14	9.02	
15	0.08	0.06	0.19	0.22	1.52	1.92	16.30	24.34	0.22	0.25	0.80	9.02	
16	0.08	0.06	0.19	0.22	0.72	1.61	16.05	31.66	0.22	0.22	0.37	9.02	
17	0.08	0.06	0.19	0.22	0.56	1.16	15.80	30.92	0.22	0.22	0.34	9.21	
18	0.08	0.06	0.19	0.22	0.44	0.76	17.65	30.55	0.22	0.22	0.34	9.21	
19	0.08	0.06	0.19	0.22	0.80	0.56	31.66	13.57	0.22	0.22	0.34	9.61	
20	0.08	0.08	0.19	0.22	0.80	0.44	30.55	12.19	0.22	0.22	0.34	11.73	
21	0.08	0.08	0.19	0.22	0.48	0.44	22.74	10.24	0.22	0.22	0.34	12.88	
22	0.08	0.08	0.19	0.22	0.34	0.40	18.73	1.61	0.22	0.22	0.80	14.80	
23	0.08	0.08	0.19	0.22	0.98	0.40	12.88	0.76	0.31	0.28	0.89	14.80	
24	0.08	0.08	0.19	0.89	0.68	0.44	9.82	0.56	0.37	0.28	0.80	14.80	
25	0.08	0.08	0.19	0.44	0.52	0.60	9.40	0.44	0.34	0.34	0.80	14.80	
26	0.08	0.08	0.19	1.07	0.44	1.43	9.21	0.37	0.34	1.25	0.80	14.80	
27	0.08	0.08	0.19	0.48	0.40	0.98	9.21	0.37	0.34	1.70	0.80	14.80	
28	0.08	0.08	0.19	0.40	2.03	0.56	9.21	0.31	0.34	2.03	1.16	14.80	
29	0.08	0.08	0.19	0.37	0.64	0.44	9.40	0.28	0.34	1.81	3.22	14.80	
30	0.08	0.08	0.19	0.34	0.52	0.40	9.21	0.28	0.34	2.58		12.65	
31		0.10		0.28	0.44		14.55		0.40	2.14		9.82	
Total	2.68	2.18	4.64	9.45	17.67	26.27	375.91	382.22	8.17	19.03	15.37	303.27	1166.86 CMSDAY
Mean	0.09	0.07	0.15	0.30	0.57	0.88	12.13	12.74	0.26	0.61	0.53	9.78	3.19 CMS
Max	0.10	0.10	0.19	1.07	2.03	2.94	31.66	31.66	0.40	2.58	3.22	14.80	31.66 CMS
Min	0.08	0.06	0.08	0.19	0.19	0.40	0.28	0.28	0.22	0.22	0.02	3.50	0.02 CMS
Runoff	0.232	0.188	0.401	0.816	1.527	2.270	32.479	33.024	0.706	1.644	1.328	26.203	100.817 MCM

Momentary Peak 32.78 CMS, at 125.71 M (MSL), at 18.00 Hours, on Oct 11, 1995

Runoff Yield 6.11 Liters/Second/Square KM, Momentary Peak Yield 62.797 Liters/Second/Square KM

WATER YEAR 1995

PASAK RIVER BASIN

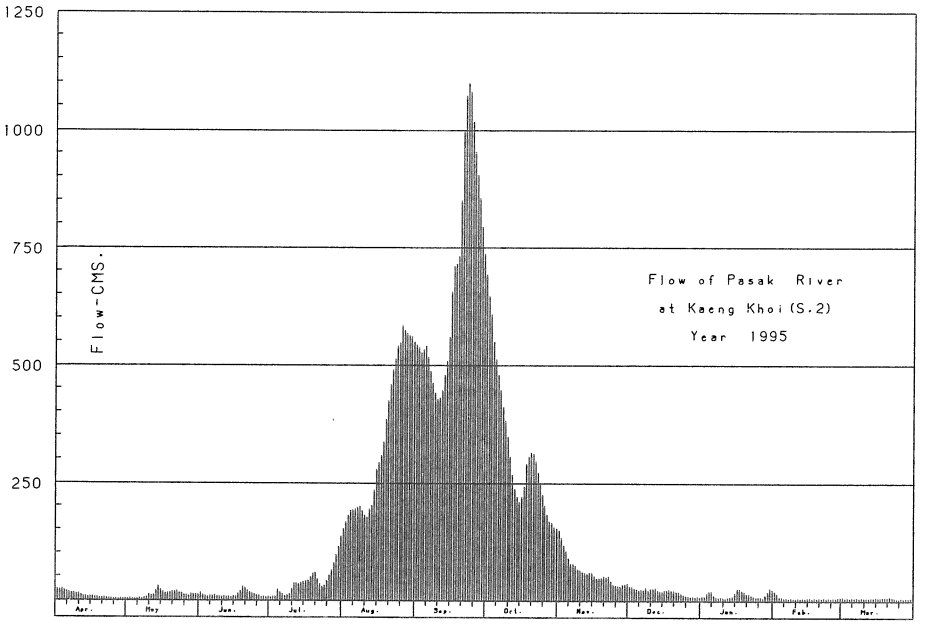
Pasak River at Kaeng Khoi, Saraburi (S.2)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.56	6.79	7.39	7.05	9.41	13.30	14.65	9.38	7.76	7.11	7.52	7.08	
2	7.58	6.79	7.27	7.04	9.56	13.24	14.24	9.19	7.72	7.19	7.35	6.98	
3	7.59	6.79	7.14	7.14	9.72	13.15	13.88	9.03	7.66	7.35	7.15	6.97	
4	7.55	6.79	7.11	7.55	9.81	13.20	13.36	8.87	7.60	7.51	7.05	6.97	
5	7.50	6.80	7.16	7.45	9.84	13.28	13.01	8.70	7.57	7.50	6.96	6.97	
6	7.43	6.81	7.21	7.30	9.85	13.05	12.72	8.52	7.58	7.28	6.93	6.97	
7	7.41	6.82	7.21	7.22	9.90	12.79	12.41	8.54	7.59	7.08	6.92	6.97	
8	7.38	6.87	7.19	7.21	9.91	12.55	12.06	8.47	7.67	7.04	6.92	6.97	
9	7.35	7.07	7.10	7.34	9.82	12.36	11.76	8.37	7.56	7.04	6.92	6.98	
10	7.34	7.26	7.11	7.63	9.71	12.21	11.43	8.33	7.62	7.04	6.92	6.97	
11	7.27	7.19	7.12	7.88	9.68	12.24	11.02	8.29	7.65	7.03	6.91	6.92	
12	7.17	7.27	7.12	7.88	9.85	12.41	10.62	8.25	7.66	7.03	6.90	6.94	
13	7.11	7.54	7.08	7.87	9.94	12.70	10.30	8.23	7.57	7.03	6.90	6.95	
14	7.09	7.74	7.04	7.90	10.28	12.98	10.14	8.27	7.48	7.17	6.90	6.99	
15	7.10	7.59	7.08	7.95	10.74	13.45	10.01	8.26	7.49	7.40	6.91	7.01	
16	7.10	7.44	7.16	7.95	10.87	14.32	10.13	8.14	7.53	7.67	6.92	7.01	
17	7.08	7.39	7.32	8.00	11.03	14.82	10.37	8.08	7.57	7.62	6.91	7.01	
18	7.01	7.39	7.52	8.10	11.31	14.85	10.84	8.07	7.58	7.55	6.93	7.03	
19	6.96	7.43	7.71	8.22	11.80	15.02	11.01	8.10	7.56	7.46	6.94	7.03	
20	6.95	7.45	7.67	8.27	12.18	16.08	11.08	8.13	7.53	7.37	6.94	7.06	
21	6.95	7.47	7.53	8.05	12.53	17.37	11.07	8.12	7.48	7.32	6.94	7.09	
22	6.90	7.49	7.46	7.84	12.81	18.00	10.90	8.13	7.45	7.28	6.94	7.08	
23	6.78	7.42	7.36	7.74	13.03	18.22	10.67	7.99	7.39	7.15	6.92	6.90	
24	6.78	7.37	7.33	7.77	13.27	18.06	10.44	7.82	7.27	7.09	6.92	6.85	
25	6.78	7.29	7.25	7.98	13.34	17.54	10.19	7.81	7.24	7.12	6.92	6.85	
26	6.78	7.23	7.19	8.17	13.66	16.99	9.93	7.76	7.17	7.04	6.93	6.87	
27	6.78	7.20	7.10	8.33	13.58	16.58	9.74	7.76	7.14	6.99	6.95	6.86	
28	6.79	7.29	7.08	8.56	13.51	16.12	9.57	7.82	7.13	7.23	6.98	6.86	
29	6.79	7.31	7.06	8.77	13.48	15.58	9.55	7.87	7.12	7.49	7.09	6.88	
30	6.79	7.28	7.04	9.00	13.45	15.06	9.44	7.88	7.12	7.64		6.90	
31		7.31		9.23	13.35		9.41		7.10	7.58		6.91	
Mean	7.12	7.22	7.24	7.88	11.33	14.58	11.16	8.27	7.47	7.27	6.98	6.96	
Max	7.59	7.74	7.71	9.23	13.66	18.22	14.65	9.38	7.76	7.67	7.52	7.09	18.22
Min	6.78	6.79	7.04	7.04	9.41	12.21	9.41	7.76	7.10	6.99	6.90	6.85	6.78

Annual Max Momentary Gage Height 18.50 M (MSL), at 11.00 Hours, on Sep 21, 1995
Zero Gage at Bottom Elevation 6.11 M (MSL), River Bed 4.34 M (MSL)
Left Bank Elevation 21.34 M (MSL)
Right Bank Elevation 21.77 M (MSL), Drainage Area 14522 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.40	4.90	16.70	8.25	153.62	545.00	693.50	150.86	31.70	9.20	21.80	8.70	
2	24.20	4.90	13.10	8.10	167.54	538.40	648.40	133.60	29.90	10.80	15.50	7.20	
3	24.60	4.90	9.80	9.80	182.58	528.50	608.80	119.20	27.40	15.50	10.00	7.05	
4	23.00	4.90	9.20	23.00	191.04	534.00	551.60	105.60	25.00	21.40	8.25	7.05	
5	21.00	5.00	10.20	19.00	193.86	542.80	513.10	92.00	23.80	21.00	6.90	7.05	
6	18.20	5.10	11.30	14.00	194.80	517.50	481.20	78.40	24.20	13.40	6.45	7.05	
7	17.40	5.20	11.30	11.60	199.50	488.90	448.05	79.80	24.60	8.70	6.30	7.05	
8	16.40	5.70	10.80	11.30	200.45	462.75	413.00	74.90	27.80	8.10	6.30	7.05	
9	15.50	8.55	9.00	15.20	191.98	443.00	383.00	67.90	23.40	8.10	6.30	7.20	
10	15.20	12.80	9.20	26.20	181.64	428.00	350.00	65.10	25.80	8.10	6.30	7.05	
11	13.10	10.80	9.40	37.10	178.82	431.00	309.00	62.35	27.00	7.95	6.15	6.30	
12	10.40	13.10	9.40	37.10	194.80	448.05	269.00	59.75	27.40	7.95	6.00	6.60	
13	9.20	22.60	8.70	36.65	203.30	479.00	237.50	58.45	23.80	7.95	6.00	6.75	
14	8.85	30.80	8.10	38.00	235.60	509.80	222.30	61.05	20.20	10.40	6.00	7.35	
15	9.00	24.60	8.70	41.00	281.00	561.50	209.95	60.40	20.60	17.00	6.15	7.65	
16	9.00	18.60	10.20	41.00	294.00	657.20	221.35	52.60	22.20	27.80	6.30	7.65	
17	8.70	16.70	14.60	44.00	310.00	712.20	244.15	48.80	23.80	25.80	6.15	7.65	
18	7.65	16.70	21.80	50.00	338.00	715.50	291.00	48.20	24.20	23.00	6.45	7.95	
19	6.90	18.20	29.45	57.80	387.00	734.20	308.00	50.00	23.40	19.40	6.60	7.95	
20	6.75	19.00	27.80	61.05	425.00	850.80	315.00	51.95	22.20	16.10	6.60	8.40	
21	6.75	19.80	22.20	47.00	460.65	998.40	314.00	51.30	20.20	14.60	6.60	8.85	
22	6.00	20.60	19.40	35.30	491.10	1074.00	297.00	51.95	19.00	13.40	6.60	8.70	
23	4.80	17.80	15.80	30.80	515.30	1100.40	274.00	43.40	16.70	10.00	6.30	6.00	
24	4.80	16.10	14.90	32.15	541.70	1081.20	251.00	34.40	13.10	8.85	6.30	5.50	
25	4.80	13.70	12.50	42.80	549.40	1018.80	227.05	33.95	12.20	9.40	6.30	5.50	
26	4.80	11.90	10.80	54.55	584.60	952.85	202.35	31.70	10.40	8.10	6.45	5.70	
27	4.80	11.00	9.00	65.10	575.80	905.80	184.46	31.70	9.80	7.35	6.75	5.60	
28	4.90	13.70	8.70	81.20	568.10	855.20	168.48	34.40	9.60	11.90	7.20	5.60	
29	4.90	14.30	8.40	97.60	564.80	795.80	166.60	36.65	9.40	20.60	8.85	5.80	
30	4.90	13.40	8.10	116.50	561.50	738.60	156.38	37.10	9.40	26.60		6.00	
31		14.30		137.20	550.50		153.62		9.00	24.20		6.15	
Total	339.90	419.65	388.55	1330.35	*******	*******	*******	1907.46	637.20	442.65	217.85	216.10	47329.68 CMSDAY
Mean	11.33	13.54	12.95	42.91	344.13	688.30	326.22	63.58	20.55	14.28	7.51	6.97	129.32 CMS
Max	24.60	30.80	29.45	137.20	584.60	1100.40	693.50	150.86	31.70	27.80	21.80	8.85	1100.40 CMS
Min	4.80	4.90	8.10	8.10	153.62	428.00	153.62	31.70	9.00	7.35	6.00	5.50	4.80 CMS
Runoff	29.367	36.258	33.571	114.942	921.713	*******	873.749	164.805	55.054	38.245	18.822	18.671	4089.285 MCM

Momentary Peak 1134.00 CMS, at 18.50 M (MSL), at 11.00 Hours, on Sep 21, 1995
Runoff Yield 8.90 Liters/Second/Square KM, Momentary Peak Yield 78.088 Liters/Second/Square KM

WATER YEAR 1995

PASAK RIVER BASIN

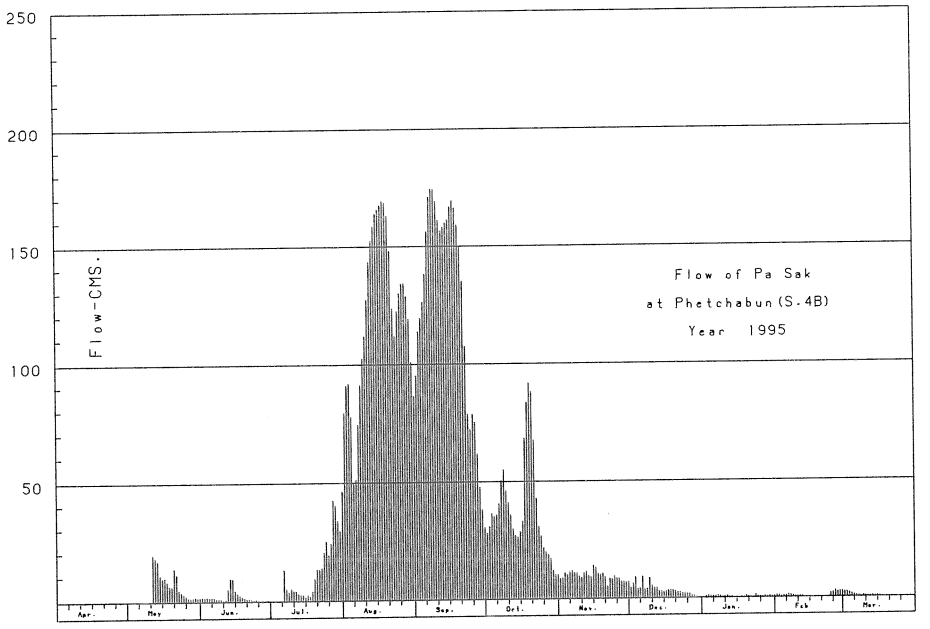
Pasak River at Phetchabun, Phetchabun (S.4B)

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	Water-stage recorder.
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	+114.20 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1966 to date.
Rating Operation	
Period of Rating	1966, 1995 to date.
Rated by Float	-
Rated by Current Meter	1966, 1995 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +114.69 m. (M.S.L.),records are channel flow only.
General Description	Records good. Flow effected by the locol weir downstream from the gage site. Stage-discharge relation defined by 99 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.02	109.10	109.57	109.51	112.70	113.27	110.23	109.81	109.69	109.51	109.55	109.60	
2	109.02	109.10	109.57	109.51	113.13	113.89	110.42	109.81	109.74	109.54	109.54	109.59	
3	109.02	109.10	109.57	109.51	113.16	114.08	110.72	109.88	109.82	109.54	109.53	109.58	
4	109.02	109.10	109.57	109.51	112.64	114.28	110.67	109.85	109.66	109.54	109.53	109.56	
5	109.02	109.10	109.57	109.51	111.41	114.63	110.69	109.89	109.68	109.54	109.54	109.55	
6	109.02	109.10	109.56	109.93	111.48	115.13	110.94	109.90	109.82	109.54	109.55	109.54	
7	109.02	109.10	109.55	109.71	112.51	115.50	111.46	109.88	109.66	109.54	109.55	109.53	
8	109.02	109.10	109.54	109.65	113.14	115.59	111.67	109.87	109.66	109.54	109.53	109.52	
9	109.02	109.10	109.54	109.71	113.52	115.58	111.24	109.83	109.81	109.53	109.53	109.54	
10	109.02	109.10	109.53	109.68	113.84	115.46	110.98	109.82	109.71	109.53	109.53	109.53	
11	109.02	110.06	109.53	109.66	114.32	115.25	110.70	109.88	109.69	109.53	109.53	109.52	
12	109.02	110.04	109.71	109.63	114.77	115.13	110.34	109.89	109.68	109.53	109.52	109.53	
13	109.02	110.01	109.83	109.60	115.02	115.18	110.18	109.84	109.63	109.52	109.49	109.53	
14	109.02	109.87	109.83	109.61	115.19	115.22	110.12	109.82	109.62	109.52	109.46	109.53	
15	109.02	109.84	109.68	109.56	115.33	115.26	110.28	109.95	109.61	109.52	109.45	109.53	
16	109.02	109.84	109.64	109.60	115.37	115.40	110.54	109.93	109.62	109.52	109.45	109.53	
17	109.02	109.80	109.60	109.58	115.42	115.46	112.24	109.87	109.64	109.52	109.45	109.52	
18	109.02	109.74	109.58	109.66	115.46	115.38	112.86	109.85	109.64	109.52	109.45	109.51	
19	109.02	109.74	109.56	109.83	115.45	115.20	113.16	109.87	109.64	109.54	109.50	109.51	
20	109.02	109.94	109.55	109.93	115.30	114.94	113.02	109.82	109.62	109.53	109.50	109.51	
21	109.02	109.89	109.54	109.93	114.91	114.54	112.21	109.71	109.61	109.52	109.51	109.46	
22	109.02	109.69	109.54	109.94	114.20	113.69	111.07	109.80	109.60	109.50	109.51	109.45	
23	109.02	109.66	109.53	110.08	113.84	112.67	110.41	109.80	109.59	109.55	109.50	109.42	
24	109.02	109.62	109.53	110.17	114.16	112.41	110.17	109.83	109.59	109.53	109.57	109.41	
25	109.04	109.60	109.52	110.06	114.39	112.67	110.11	109.81	109.58	109.53	109.59	109.37	
26	109.06	109.56	109.52	110.15	114.51	112.53	110.07	109.80	109.57	109.53	109.61	109.37	
27	109.08	109.56	109.52	111.04	114.51	111.98	110.05	109.77	109.55	109.53	109.60	109.38	
28	109.10	109.56	109.52	110.94	114.36	111.31	110.01	109.76	109.54	109.53	109.60	109.39	
29	109.10	109.58	109.52	110.58	114.06	110.82	109.91	109.76	109.53	109.53	109.60	109.40	
30	109.10	109.56	109.51	110.34	113.47	110.38	109.85	109.76	109.51	109.53		109.40	
31		109.57		111.25	112.97		109.85		109.51	109.53		109.40	
Mean	109.03	109.54	109.58	109.92	114.02	114.09	110.84	109.84	109.64	109.53	109.53	109.49	
Max	109.10	110.06	109.83	111.25	115.46	115.59	113.16	109.95	109.82	109.55	109.61	109.60	115.59
Min	109.02	109.10	109.51	109.51	111.41	110.38	109.85	109.71	109.51	109.50	109.45	109.37	109.02

Annual Max Momentary Gage Height 115.60 M (MSL), at 24.00 Hours, on Sep 8, 1995
Zero Gage at Bottom Elevation 106.50 M (MSL), River Bed 107.75 M (MSL)
Left Bank Elevation 114.68 M (MSL)
Right Bank Elevation 116.76 M (MSL), Drainage Area 3566 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.75	0.25	79.60	95.13	28.08	8.85	4.75	0.25	1.25	2.50	
2	0.00	0.00	1.75	0.25	91.07	113.70	31.12	8.85	6.40	1.00	1.00	2.25	
3	0.00	0.00	1.75	0.25	91.94	119.85	36.38	11.30	9.20	1.00	0.75	2.00	
4	0.00	0.00	1.75	0.25	78.07	126.35	35.46	10.25	4.00	1.00	0.75	1.50	
5	0.00	0.00	1.75	0.25	49.66	138.55	35.82	11.65	4.50	1.00	1.00	1.25	
6	0.00	0.00	1.50	13.42	51.09	156.62	40.56	12.00	9.20	1.00	1.25	1.00	
7	0.00	0.00	1.25	5.35	74.76	171.00	50.68	11.30	4.00	1.00	1.25	0.75	
8	0.00	0.00	1.00	3.75	91.36	174.60	54.99	10.95	4.00	1.00	0.75	0.50	
9	0.00	0.00	1.00	5.35	102.60	174.20	46.26	9.55	8.85	0.75	0.75	1.00	
10	0.00	0.00	0.75	4.50	112.20	169.40	41.32	9.20	5.35	0.75	0.75	0.75	
11	0.00	19.60	0.75	4.00	127.70	161.12	36.00	11.30	4.75	0.75	0.75	0.50	
12	0.00	18.65	5.35	3.25	143.45	156.62	29.84	11.65	4.50	0.75	0.50	0.75	
13	0.00	17.23	9.55	2.50	152.50	158.50	27.28	9.90	3.25	0.50	0.00	0.75	
14	0.00	10.95	9.55	2.75	158.88	160.00	26.32	9.20	3.00	0.50	0.00	0.75	
15	0.00	9.90	4.50	1.50	164.20	161.50	28.88	14.37	2.75	0.50	0.00	0.75	
16	0.00	9.90	3.50	2.50	165.80	167.00	33.12	13.42	3.00	0.50	0.00	0.75	
17	0.00	8.50	2.50	2.00	167.80	169.40	68.16	10.95	3.50	0.50	0.00	0.50	
18	0.00	6.40	2.00	4.00	169.40	166.20	83.76	10.25	3.50	0.50	0.00	0.25	
19	0.00	6.40	1.50	9.55	169.00	159.25	91.94	10.95	3.50	1.00	0.00	0.25	
20	0.00	13.90	1.25	13.42	163.00	149.50	88.04	9.20	3.00	0.75	0.00	0.25	
21	0.00	11.65	1.00	13.42	148.38	135.40	67.44	5.35	2.75	0.50	0.25	0.00	
22	0.00	4.75	1.00	13.90	123.75	107.70	43.03	8.50	2.50	0.00	0.25	0.00	
23	0.00	4.00	0.75	20.55	112.20	78.84	30.96	8.50	2.25	1.25	0.00	0.00	
24	0.00	3.00	0.75	25.35	122.45	72.30	27.12	9.55	2.25	0.75	1.75	0.00	
25	0.00	2.50	0.50	19.60	130.15	78.84	22.05	8.85	2.00	0.75	2.25	0.00	
26	0.00	1.50	0.50	24.25	134.35	75.26	20.08	8.50	1.75	0.75	2.75	0.00	
27	0.00	1.50	0.50	42.46	134.35	62.04	19.13	7.45	1.25	0.75	2.50	0.00	
28	0.00	1.50	0.50	40.56	129.10	47.60	17.23	7.10	1.00	0.75	2.50	0.00	
29	0.00	2.00	0.50	33.84	119.20	38.28	12.48	7.10	0.75	0.75	2.50	0.00	
30	0.00	1.50	0.25	29.84	101.10	30.48	10.25	7.10	0.25	0.75		0.00	
31		1.75		46.45	86.69		10.25		0.25	0.75		0.00	
Total	0.00	157.08	60.95	389.31	3745.80	3775.23	1194.03	293.09	112.00	22.75	25.50	19.00	9794.74 CMSDAY
Mean	0.00	5.07	2.03	12.56	120.83	125.84	38.52	9.77	3.61	0.73	0.88	0.61	26.76 CMS
Max	0.00	19.60	9.55	46.45	169.40	174.60	91.94	14.37	9.20	1.25	2.75	2.50	174.60 CMS
Min	0.00	0.00	0.25	0.25	49.66	30.48	10.25	5.35	0.25	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	13.572	5.266	33.636	323.637	326.180	103.164	25.323	9.677	1.966	2.203	1.642	846.266 MCM

Momentary Peak 175.00 CMS, at 115.60 M (MSL), at 24.00 Hours, on Sep 8, 1995
Runoff Yield 7.50 Liters/Second/Square KM, Momentary Peak Yield 49.075 Liters/Second/Square KM

WATER YEAR 1995

PASAK RIVER BASIN

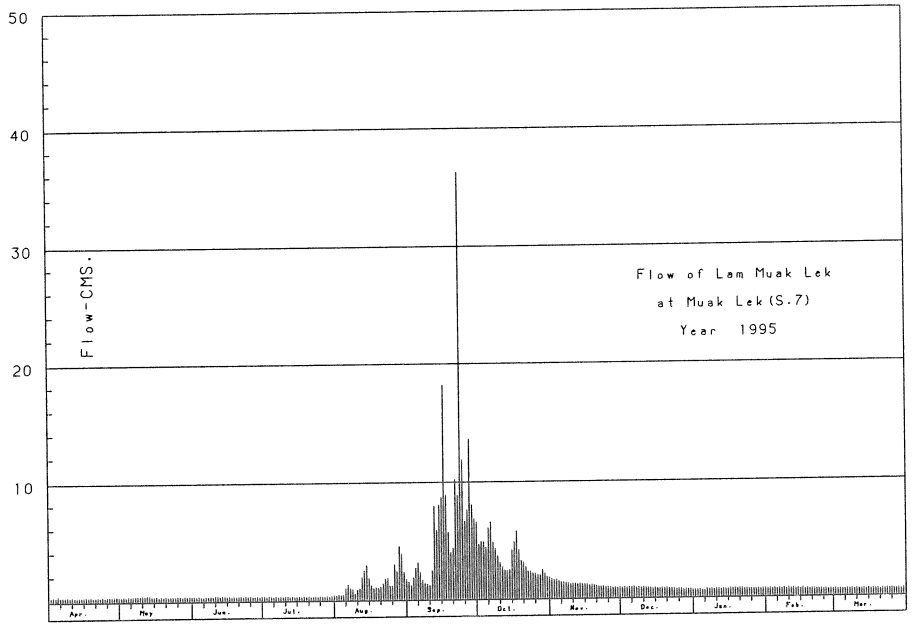
Lam Muak Lek at Muak Lek, Saraburi (S.7)

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, AmphoMuak Lek, Saraburi.
Drainage Area	177 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Near automatic gage building.
Elevation	+6.919 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965 to date.
Rated by Float	-
Rated by Current Meter	1965 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.39	0.39	0.38	0.41	0.65	1.07	0.68	0.53	0.46	0.48	0.46	
2	0.40	0.40	0.39	0.38	0.42	0.61	1.09	0.67	0.53	0.47	0.48	0.46	
3	0.40	0.39	0.39	0.39	0.42	0.72	1.09	0.67	0.53	0.47	0.48	0.45	
4	0.42	0.40	0.39	0.39	0.41	0.85	1.04	0.66	0.53	0.46	0.48	0.46	
5	0.40	0.40	0.38	0.38	0.57	0.92	1.20	0.64	0.54	0.46	0.48	0.46	
6	0.39	0.41	0.38	0.38	0.62	0.79	1.23	0.63	0.54	0.48	0.48	0.46	
7	0.40	0.41	0.40	0.38	0.57	0.68	1.09	0.63	0.53	0.48	0.48	0.46	
8	0.39	0.41	0.39	0.38	0.53	0.64	1.03	0.62	0.53	0.48	0.48	0.46	
9	0.39	0.41	0.40	0.38	0.45	0.62	0.97	0.61	0.53	0.48	0.48	0.46	
10	0.39	0.42	0.41	0.38	0.52	0.61	0.91	0.61	0.53	0.48	0.49	0.46	
11	0.39	0.42	0.40	0.38	0.56	0.82	0.86	0.61	0.53	0.48	0.48	0.46	
12	0.38	0.43	0.40	0.38	0.72	1.32	0.82	0.61	0.53	0.48	0.48	0.46	
13	0.38	0.42	0.40	0.38	0.82	1.18	0.80	0.61	0.51	0.48	0.48	0.46	
14	0.39	0.40	0.41	0.38	0.90	1.33	0.82	0.61	0.51	0.48	0.47	0.46	
15	0.38	0.40	0.40	0.38	0.72	1.37	1.02	0.61	0.51	0.48	0.47	0.46	
16	0.39	0.40	0.39	0.38	0.61	1.77	1.09	0.60	0.51	0.49	0.48	0.46	
17	0.39	0.39	0.39	0.38	0.56	1.38	1.17	0.59	0.51	0.49	0.47	0.46	
18	0.39	0.39	0.39	0.38	0.57	1.17	1.02	0.59	0.51	0.49	0.47	0.46	
19	0.38	0.40	0.39	0.38	0.57	1.00	0.93	0.59	0.51	0.49	0.47	0.46	
20	0.38	0.40	0.39	0.38	0.58	1.04	0.91	0.57	0.51	0.49	0.47	0.45	
21	0.39	0.39	0.39	0.37	0.64	1.45	0.86	0.56	0.51	0.49	0.47	0.46	
22	0.38	0.40	0.39	0.38	0.71	1.38	0.80	0.56	0.51	0.48	0.47	0.46	
23	0.39	0.39	0.40	0.38	0.71	2.25	0.79	0.55	0.49	0.48	0.47	0.46	
24	0.38	0.40	0.40	0.37	0.61	1.53	0.77	0.55	0.49	0.48	0.46	0.47	
25	0.39	0.40	0.39	0.38	0.60	1.24	0.76	0.54	0.49	0.48	0.46	0.46	
26	0.39	0.40	0.39	0.38	0.90	1.30	0.74	0.53	0.49	0.48	0.46	0.46	
27	0.39	0.40	0.39	0.38	0.81	1.60	0.74	0.53	0.48	0.48	0.46	0.46	
28	0.41	0.40	0.39	0.38	1.06	1.33	0.82	0.53	0.48	0.48	0.46	0.46	
29	0.41	0.40	0.39	0.38	0.99	1.25	0.76	0.53	0.48	0.48	0.46	0.46	
30	0.39	0.40	0.39	0.39	0.80	1.23	0.72	0.53	0.48	0.48		0.46	
31		0.40		0.41	0.69		0.70		0.47	0.48		0.46	
Mean	0.39	0.40	0.39	0.38	0.65	1.13	0.92	0.59	0.51	0.48	0.47	0.46	
Max	0.42	0.43	0.41	0.41	1.06	2.25	1.23	0.68	0.54	0.49	0.49	0.47	2.25
Min	0.38	0.39	0.38	0.37	0.41	0.61	0.70	0.53	0.47	0.46	0.46	0.45	0.37

Annual Max Momentary Gage Height 3.14 M (A.D), at 4.00 Hours, on Sep 23, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.44 M (A.D)
Left Bank Elevation 7.86 M (A.D)
Right Bank Elevation 7.75 M (A.D), Drainage Area 177 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.400	0.380	0.380	0.360	0.440	1.500	4.700	1.680	0.920	0.640	0.720	0.640	
2	0.400	0.400	0.380	0.360	0.480	1.260	4.900	1.620	0.920	0.680	0.720	0.640	
3	0.400	0.380	0.380	0.380	0.480	1.920	4.900	1.620	0.920	0.680	0.720	0.600	
4	0.480	0.400	0.380	0.380	0.440	2.700	4.400	1.560	0.920	0.640	0.720	0.640	
5	0.400	0.400	0.360	0.360	1.080	3.200	6.100	1.440	0.960	0.640	0.720	0.640	
6	0.380	0.440	0.360	0.360	1.320	2.340	6.550	1.380	0.960	0.720	0.720	0.640	
7	0.400	0.440	0.400	0.360	1.080	1.680	4.900	1.380	0.920	0.720	0.720	0.640	
8	0.380	0.440	0.380	0.360	0.920	1.440	4.300	1.320	0.920	0.720	0.720	0.640	
9	0.380	0.440	0.400	0.360	0.600	1.320	3.700	1.260	0.920	0.720	0.720	0.640	
10	0.380	0.480	0.440	0.360	0.880	1.260	3.100	1.260	0.920	0.720	0.760	0.640	
11	0.380	0.480	0.400	0.360	1.040	2.520	2.760	1.260	0.920	0.720	0.720	0.640	
12	0.360	0.520	0.400	0.360	1.920	7.920	2.520	1.260	0.920	0.720	0.720	0.640	
13	0.360	0.480	0.400	0.360	2.520	5.880	2.400	1.260	0.840	0.720	0.720	0.640	
14	0.380	0.400	0.440	0.360	3.000	8.080	2.520	1.260	0.840	0.720	0.680	0.640	
15	0.360	0.400	0.400	0.360	1.920	8.720	4.200	1.260	0.840	0.720	0.680	0.640	
16	0.380	0.400	0.380	0.360	1.260	18.270	4.900	1.200	0.840	0.760	0.720	0.640	
17	0.380	0.380	0.380	0.360	1.040	8.880	5.770	1.160	0.840	0.760	0.680	0.640	
18	0.380	0.380	0.380	0.360	1.080	5.770	4.200	1.160	0.840	0.760	0.680	0.640	
19	0.360	0.400	0.380	0.360	1.080	4.000	3.300	1.160	0.840	0.760	0.680	0.640	
20	0.360	0.400	0.380	0.360	1.120	4.400	3.100	1.080	0.840	0.760	0.680	0.600	
21	0.380	0.380	0.380	0.340	1.440	10.200	2.760	1.040	0.840	0.760	0.680	0.640	
22	0.360	0.400	0.380	0.360	1.860	8.880	2.400	1.040	0.840	0.720	0.680	0.640	
23	0.380	0.380	0.400	0.360	1.860	36.300	2.340	1.000	0.760	0.720	0.680	0.640	
24	0.360	0.400	0.400	0.340	1.260	11.920	2.220	1.000	0.760	0.720	0.640	0.680	
25	0.380	0.400	0.380	0.360	1.200	6.700	2.160	0.960	0.760	0.720	0.640	0.640	
26	0.380	0.400	0.380	0.360	3.000	7.600	2.040	0.920	0.760	0.720	0.640	0.640	
27	0.380	0.400	0.380	0.360	2.460	13.600	2.040	0.920	0.720	0.720	0.640	0.640	
28	0.440	0.400	0.380	0.360	4.600	8.080	2.520	0.920	0.720	0.720	0.640	0.640	
29	0.440	0.400	0.380	0.360	3.900	6.850	2.160	0.920	0.720	0.720	0.640	0.640	
30	0.380	0.400	0.380	0.380	2.400	6.550	1.920	0.920	0.720	0.720		0.640	
31		0.400		0.440	1.740		1.800		0.680	0.720		0.640	
Total	11.580	12.800	11.640	11.260	49.420	209.740	107.580	36.220	26.120	22.240	20.080	19.800	538.480 CMSDAY
Mean	0.386	0.413	0.388	0.363	1.594	6.991	3.470	1.207	0.843	0.717	0.692	0.639	1.471 CMS
Max	0.480	0.520	0.440	0.440	4.600	36.300	6.550	1.680	0.960	0.760	0.760	0.680	36.300 CMS
Min	0.360	0.380	0.360	0.340	0.440	1.260	1.800	0.920	0.680	0.640	0.640	0.600	0.340 CMS
Runoff	1.001	1.106	1.006	0.973	4.270	18.122	9.295	3.129	2.257	1.922	1.735	1.711	46.525 MCM

Momentary Peak 100.40 CMS, at 3.14 M (A.D), at 4.00 Hours, on Sep 23, 1995

Runoff Yield 8.31 Liters/Second/Square KM, Momentary Peak Yield 567.232 Liters/Second/Square KM

WATER YEAR 1995

PASAK RIVER BASIN

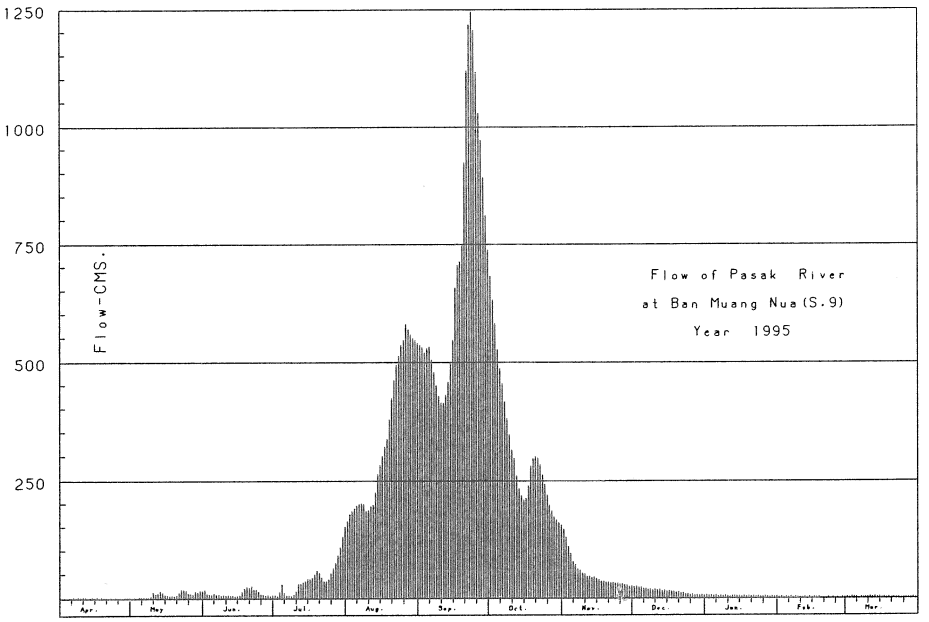
Pasak River at Ban Muang Nua, Saraburi (S.9)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.23	8.24	8.86	8.52	10.94	14.45	15.56	10.73	9.02	8.57	8.39	8.36	
2	8.24	8.24	8.72	8.50	11.11	14.40	15.18	10.50	9.01	8.57	8.39	8.36	
3	8.22	8.24	8.64	8.76	11.21	14.32	14.79	10.27	9.00	8.56	8.38	8.42	
4	8.22	8.35	8.64	9.12	11.26	14.38	14.37	10.07	8.97	8.55	8.38	8.43	
5	8.29	8.32	8.69	8.73	11.35	14.42	14.04	9.87	8.95	8.55	8.38	8.41	
6	8.33	8.29	8.65	8.57	11.37	14.18	13.76	9.77	8.92	8.53	8.38	8.33	
7	8.34	8.30	8.61	8.52	11.41	13.96	13.45	9.66	8.91	8.52	8.37	8.33	
8	8.33	8.28	8.59	8.53	11.38	13.74	13.14	9.59	8.89	8.52	8.37	8.36	
9	8.31	8.45	8.57	8.60	11.21	13.55	12.87	9.53	8.88	8.51	8.37	8.38	
10	8.33	8.79	8.58	8.82	11.22	13.42	12.56	9.48	8.89	8.51	8.36	8.38	
11	8.33	8.63	8.59	9.11	11.32	13.43	12.37	9.43	8.89	8.51	8.36	8.39	
12	8.32	8.73	8.57	9.15	11.37	13.56	12.02	9.41	8.88	8.51	8.36	8.40	
13	8.32	8.84	8.52	9.18	11.66	13.79	11.73	9.39	8.84	8.49	8.36	8.40	
14	8.33	8.74	8.49	9.26	12.04	14.13	11.59	9.38	8.84	8.48	8.36	8.39	
15	8.33	8.63	8.49	9.32	12.24	14.53	11.47	9.36	8.82	8.48	8.36	8.38	
16	8.33	8.54	8.61	9.33	12.42	15.37	11.51	9.29	8.82	8.48	8.36	8.37	
17	8.32	8.53	8.79	9.36	12.63	15.74	11.80	9.25	8.82	8.48	8.38	8.36	
18	8.31	8.51	8.95	9.49	12.78	15.78	12.21	9.22	8.79	8.47	8.37	8.35	
19	8.27	8.51	8.99	9.59	13.14	16.04	12.38	9.21	8.78	8.47	8.32	8.34	
20	8.25	8.53	8.98	9.54	13.50	17.22	12.41	9.19	8.77	8.47	8.31	8.33	
21	8.24	8.77	9.01	9.38	13.83	18.52	12.39	9.19	8.75	8.46	8.31	8.33	
22	8.22	8.87	8.91	9.25	14.09	19.12	12.24	9.18	8.73	8.46	8.31	8.32	
23	8.22	8.89	8.87	9.22	14.26	19.26	12.04	9.17	8.70	8.45	8.31	8.30	
24	8.22	8.83	8.81	9.33	14.44	19.05	11.83	9.15	8.67	8.45	8.29	8.30	
25	8.22	8.74	8.70	9.52	14.53	18.50	11.61	9.13	8.65	8.45	8.27	8.31	
26	8.21	8.67	8.62	9.66	14.78	17.93	11.36	9.12	8.64	8.44	8.27	8.31	
27	8.22	8.68	8.57	9.82	14.70	17.54	11.19	9.10	8.60	8.42	8.29	8.31	
28	8.22	8.79	8.55	10.02	14.61	17.02	11.05	9.06	8.59	8.42	8.36	8.33	
29	8.24	8.78	8.52	10.24	14.56	16.48	10.95	9.03	8.59	8.42	8.36	8.36	
30	8.25	8.83	8.52	10.51	14.52	15.96	10.89	9.02	8.59	8.42		8.34	
31		8.85		10.78	14.47		10.82		8.58	8.41		8.35	
Mean	8.27	8.59	8.69	9.28	12.72	15.66	12.44	9.46	8.80	8.48	8.35	8.36	
Max	8.34	8.89	9.01	10.78	14.78	19.26	15.56	10.73	9.02	8.57	8.39	8.43	19.26
Min	8.21	8.24	8.49	8.50	10.94	12.42	10.82	9.02	8.58	8.41	8.27	8.30	8.21

Annual Max Momentary Gage Height 19.28 M (MSL), at 9.00 Hours, on Sep 23, 1995
Zero Gage at Bottom Elevation 7.49 M (MSL), River Bed 5.89 M (MSL)
Left Bank Elevation 20.94 M (MSL)
Right Bank Elevation 19.86 M (MSL), Drainage Area 14374 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.3	2.4	18.0	6.4	165.2	538.5	682.8	148.4	26.0	7.4	4.4	3.9	
2	2.4	2.4	11.4	6.0	178.8	532.0	633.4	130.0	25.5	7.4	4.4	3.9	
3	2.2	2.4	9.0	13.2	186.8	522.4	582.7	111.6	25.0	7.2	4.2	4.8	
4	2.2	3.8	9.0	31.0	190.8	529.6	528.4	95.6	23.5	7.0	4.2	5.0	
5	2.9	3.3	10.2	11.8	198.3	534.6	488.8	79.6	22.5	7.0	4.2	4.6	
6	3.4	2.9	9.2	7.4	200.0	505.6	455.2	71.9	21.0	6.6	4.2	3.4	
7	3.6	3.0	8.2	6.4	203.4	479.2	418.0	64.2	20.5	6.4	4.0	3.4	
8	3.4	2.8	7.8	6.6	200.8	452.8	380.8	59.3	19.5	6.4	4.0	3.9	
9	3.2	5.2	7.4	8.0	186.8	430.0	348.4	55.1	19.0	6.2	4.0	4.2	
10	3.4	14.5	7.6	16.0	187.6	414.4	316.0	51.6	19.5	6.2	3.9	4.2	
11	3.4	8.7	7.8	30.5	195.7	415.6	297.0	48.1	19.5	6.2	3.9	4.4	
12	3.3	11.8	7.4	32.5	200.0	431.2	262.0	46.7	19.0	6.2	3.9	4.5	
13	3.3	17.0	6.4	34.0	226.2	458.8	233.0	45.4	17.0	5.8	3.9	4.5	
14	3.4	12.3	5.8	38.0	264.0	499.6	219.6	44.8	17.0	5.7	3.9	4.4	
15	3.4	8.7	5.8	41.2	284.0	548.9	208.8	43.6	16.0	5.7	3.9	4.2	
16	3.4	6.8	8.2	41.8	302.0	658.1	212.4	39.5	16.0	5.7	3.9	4.0	
17	3.3	6.6	14.5	43.6	323.0	707.6	240.0	37.5	16.0	5.7	4.2	3.9	
18	3.2	6.2	22.5	52.3	338.0	713.2	281.0	36.0	14.5	5.6	4.0	3.8	
19	2.7	6.2	24.5	59.3	380.8	749.6	298.0	35.5	14.1	5.6	3.3	3.6	
20	2.5	6.6	24.0	55.8	424.0	924.0	301.0	34.5	13.7	5.6	3.2	3.4	
21	2.4	13.7	25.5	44.8	463.6	1119.0	299.0	34.5	12.8	5.4	3.2	3.4	
22	2.2	18.5	20.5	37.5	494.8	1218.8	284.0	34.0	11.8	5.4	3.2	3.3	
23	2.2	19.5	18.5	36.0	515.2	1245.4	264.0	33.5	10.5	5.2	3.2	3.0	
24	2.2	16.5	15.5	41.8	537.2	1205.5	243.0	32.5	9.8	5.2	2.9	3.0	
25	2.2	12.3	10.5	54.4	548.9	1116.0	221.4	31.5	9.2	5.2	2.7	3.2	
26	2.1	9.8	8.5	64.2	581.4	1030.5	199.1	31.0	9.0	5.1	2.7	3.2	
27	2.2	10.0	7.4	75.6	571.0	972.0	185.2	30.0	8.0	4.8	2.9	3.2	
28	2.2	14.5	7.0	91.6	559.3	894.0	174.0	28.0	7.8	4.8	3.9	3.4	
29	2.4	14.1	6.4	109.2	552.8	813.0	166.0	26.5	7.8	4.8	3.9	3.9	
30	2.5	16.5	6.4	130.8	547.6	738.4	161.2	26.0	7.8	4.8		3.6	
31		17.5		152.4	541.1		155.6		7.6	4.6		3.8	
Total	83.5	296.5	350.9	1380.1	10749.1	21398.3	9739.8	1586.4	486.9	180.9	108.2	119.0	46479.6 CMSDAY
Mean	2.8	9.6	11.7	44.5	346.7	713.3	314.2	52.9	15.7	5.8	3.7	3.8	127.0 CMS
Max	3.6	19.5	25.5	152.4	581.4	1245.4	682.8	148.4	26.0	7.4	4.4	5.0	1245.4 CMS
Min	2.1	2.4	5.8	6.0	165.2	414.4	155.6	26.0	7.6	4.6	2.7	3.0	2.1 CMS
Runoff	7.21	25.62	30.32	119.24	928.72	1848.81	841.52	137.06	42.07	15.63	9.35	10.28	4015.84 MCM

Momentary Peak 1249.20 CMS, at 19.28 M (MSL), at 9.00 Hours, on Sep 23, 1995

Runoff Yield 8.83 Liters/Second/Square KM, Momentary Peak Yield 86.907 Liters/Second/Square KM

WATER YEAR 1995

PASAK RIVER BASIN

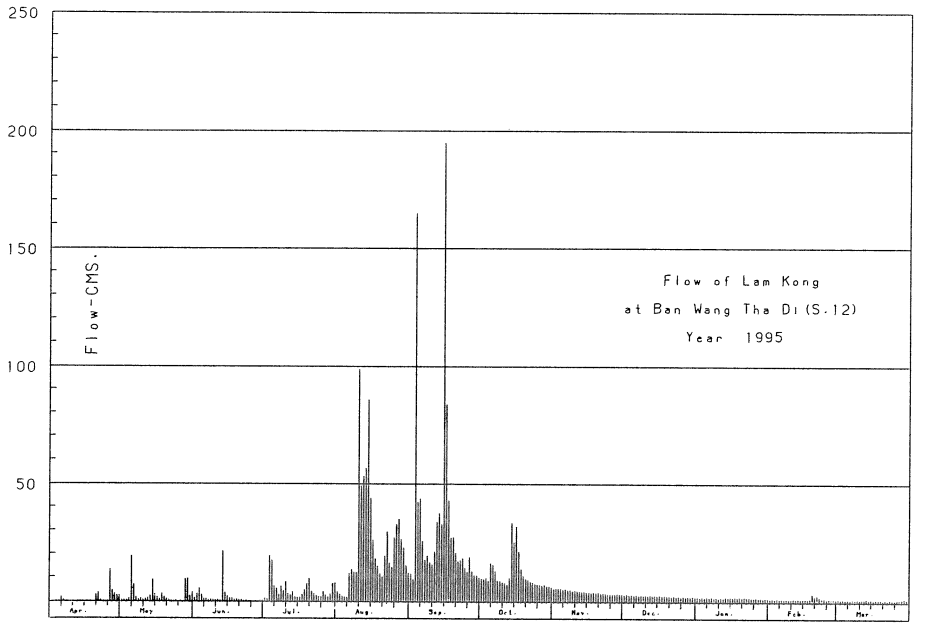
Lam Kong at Ban Wang Tha Di, Phetchabun (S.12)

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	+5.759 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +5.00 m. (A.D.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 87 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.39	0.60	0.70	0.69	0.97	1.44	1.32	1.05	0.88	0.76	0.70	0.66	
2	0.38	0.55	0.89	0.67	0.88	1.31	1.32	1.05	0.87	0.76	0.70	0.66	
3	0.38	0.61	1.06	1.82	0.81	4.50	1.34	1.06	0.86	0.76	0.69	0.65	
4	0.38	0.67	0.87	1.74	0.76	2.69	1.28	1.04	0.86	0.76	0.69	0.64	
5	0.77	1.82	0.69	1.11	0.77	2.73	1.67	1.03	0.85	0.76	0.69	0.64	
6	0.54	1.16	0.64	1.06	1.45	2.07	1.65	1.03	0.85	0.76	0.68	0.64	
7	0.46	0.74	0.61	0.90	1.55	1.75	1.50	1.02	0.84	0.76	0.68	0.64	
8	0.44	0.65	0.59	1.10	1.48	1.82	1.28	1.01	0.84	0.75	0.68	0.64	
9	0.45	0.67	0.60	0.99	1.49	1.70	1.26	0.99	0.84	0.74	0.68	0.64	
10	0.44	0.60	0.59	1.25	3.78	1.64	1.23	0.99	0.84	0.74	0.69	0.63	
11	0.43	0.68	0.57	0.89	2.88	1.90	1.20	0.99	0.84	0.74	0.68	0.64	
12	0.42	0.71	0.59	0.86	2.98	2.40	1.17	0.97	0.84	0.75	0.68	0.66	
13	0.41	0.82	1.91	0.95	3.07	2.52	1.34	0.96	0.84	0.76	0.68	0.69	
14	0.40	1.30	0.93	0.77	3.59	2.37	2.40	0.96	0.83	0.76	0.68	0.65	
15	0.39	0.86	0.79	0.72	2.74	4.77	2.05	0.95	0.83	0.76	0.68	0.63	
16	0.38	0.74	0.73	0.74	2.09	3.56	2.32	0.94	0.83	0.76	0.68	0.62	
17	0.37	0.67	0.70	0.88	1.78	2.71	1.90	0.94	0.82	0.76	0.68	0.61	
18	0.36	0.90	0.64	1.00	1.61	2.13	1.56	0.94	0.82	0.76	0.68	0.63	
19	0.42	0.78	0.61	1.18	1.46	2.15	1.40	0.94	0.82	0.76	0.91	0.62	
20	0.87	0.64	0.61	1.34	1.37	1.87	1.33	0.94	0.80	0.76	0.79	0.59	
21	0.92	0.60	0.59	0.98	1.82	1.72	1.29	0.92	0.80	0.76	0.86	0.60	
22	0.58	0.57	0.56	0.90	2.24	1.73	1.26	0.92	0.80	0.76	0.76	0.60	
23	0.51	0.55	0.54	0.84	1.68	1.79	1.22	0.91	0.79	0.75	0.73	0.62	
24	0.49	0.53	0.54	0.77	1.60	1.57	1.19	0.90	0.79	0.74	0.71	0.61	
25	0.54	0.52	0.52	0.80	2.14	1.49	1.18	0.90	0.78	0.74	0.69	0.60	
26	1.53	0.52	0.52	0.97	2.36	1.80	1.15	0.90	0.78	0.73	0.68	0.64	
27	1.00	0.51	0.51	0.84	2.45	1.51	1.14	0.90	0.78	0.73	0.67	0.61	
28	0.89	1.32	0.50	0.77	2.10	1.41	1.15	0.90	0.78	0.72	0.66	0.67	
29	0.84	1.32	0.53	0.87	1.97	1.42	1.13	0.90	0.78	0.72	0.66	0.69	
30	0.82	0.82	0.57	1.20	1.63	1.35	1.11	0.88	0.78	0.71		0.65	
31		0.93		1.20	1.46		1.08		0.77	0.71		0.63	
Mean	0.57	0.79	0.69	0.99	1.90	2.13	1.40	0.96	0.82	0.75	0.70	0.64	
Max	1.53	1.82	1.91	1.82	3.78	4.77	2.40	1.06	0.88	0.76	0.91	0.69	4.77
Min	0.36	0.51	0.50	0.67	0.76	1.31	1.08	0.88	0.77	0.71	0.66	0.59	0.36

Annual Max Momentary Gage Height 5.20 M (A.D), at 15.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.14 M (A.D)
Left Bank Elevation 6.25 M (A.D)
Right Bank Elevation 5.00 M (A.D), Drainage Area 471 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	1.00	1.50	1.45	4.55	11.80	9.80	5.75	3.30	2.10	1.50	1.30	
2	0.16	0.75	3.40	1.35	3.30	9.65	9.80	5.75	3.20	2.10	1.50	1.30	
3	0.16	1.05	5.90	19.50	2.60	165.00	10.10	5.90	3.10	2.10	1.45	1.25	
4	0.16	1.35	3.20	17.80	2.10	42.70	9.20	5.60	3.10	2.10	1.45	1.20	
5	2.20	19.50	1.45	6.65	2.20	43.90	16.40	5.45	3.00	2.10	1.45	1.20	
6	0.70	7.40	1.20	5.90	12.00	25.75	16.00	5.45	3.00	2.10	1.40	1.20	
7	0.38	1.90	1.05	3.50	14.00	18.00	13.00	5.30	2.90	2.10	1.40	1.20	
8	0.32	1.25	0.95	6.50	12.60	19.50	9.20	5.15	2.90	2.00	1.40	1.20	
9	0.35	1.35	1.00	4.85	12.80	17.00	8.90	4.85	2.90	1.90	1.40	1.20	
10	0.32	1.00	0.95	8.75	98.67	15.80	8.45	4.85	2.90	1.90	1.45	1.15	
11	0.29	1.40	0.85	3.40	49.20	21.50	8.00	4.85	2.90	1.90	1.40	1.20	
12	0.26	1.60	0.95	3.10	53.20	34.00	7.55	4.55	2.90	2.00	1.40	1.30	
13	0.23	2.70	21.75	4.25	56.80	37.60	10.10	4.40	2.90	2.10	1.40	1.45	
14	0.20	9.50	3.95	2.20	86.00	33.25	34.00	4.40	2.80	2.10	1.40	1.25	
15	0.18	3.10	2.40	1.70	44.20	195.05	25.25	4.25	2.80	2.10	1.40	1.15	
16	0.16	1.90	1.80	1.90	26.25	84.00	32.00	4.10	2.80	2.10	1.40	1.10	
17	0.14	1.35	1.50	3.30	18.60	43.30	21.50	4.10	2.70	2.10	1.40	1.05	
18	0.12	3.50	1.20	5.00	15.20	27.25	14.20	4.10	2.70	2.10	1.40	1.15	
19	0.26	2.30	1.05	7.70	12.20	27.75	11.00	4.10	2.70	2.10	3.65	1.10	
20	3.20	1.20	1.05	10.10	10.55	20.75	9.95	4.10	2.50	2.10	2.40	0.95	
21	3.80	1.00	0.95	4.70	19.50	17.40	9.35	3.80	2.50	2.10	3.10	1.00	
22	0.90	0.85	0.80	3.50	30.00	17.60	8.90	3.80	2.50	2.10	2.10	1.00	
23	0.55	0.75	0.70	2.90	16.60	18.80	8.30	3.65	2.40	2.00	1.80	1.10	
24	0.47	0.65	0.70	2.20	15.00	14.40	7.85	3.50	2.40	1.90	1.60	1.05	
25	0.70	0.60	0.60	2.50	27.50	12.80	7.70	3.50	2.30	1.90	1.45	1.00	
26	13.60	0.60	0.60	4.55	33.00	19.00	7.25	3.50	2.30	1.80	1.40	1.20	
27	5.00	0.55	0.55	2.90	35.50	13.20	7.10	3.50	2.30	1.80	1.35	1.05	
28	3.40	9.80	0.50	2.20	26.50	11.20	7.25	3.50	2.30	1.70	1.30	1.35	
29	2.90	9.80	0.65	3.20	23.25	11.40	6.95	3.50	2.30	1.70	1.30	1.45	
30	2.70	2.70	0.85	8.00	15.60	10.25	6.65	3.30	2.30	1.60		1.25	
31		3.95		8.00	12.20		6.20		2.20	1.60		1.15	
Total	43.99	96.35	64.00	163.55	791.67	1039.60	367.90	132.55	83.80	61.40	47.05	36.50	2928.36 CMSDAY
Mean	1.47	3.11	2.13	5.28	25.54	34.65	11.87	4.42	2.70	1.98	1.62	1.18	8.00 CMS
Max	13.60	19.50	21.75	19.50	98.67	195.05	34.00	5.90	3.30	2.10	3.65	1.45	195.05 CMS
Min	0.12	0.55	0.50	1.35	2.10	9.65	6.20	3.30	2.20	1.60	1.30	0.95	0.12 CMS
Runoff	3.801	8.325	5.530	14.131	68.400	89.821	31.787	11.452	7.240	5.305	4.065	3.154	253.010 MCM

Momentary Peak 247.00 CMS, at 5.20 M (A.D), at 15.00 Hours, on Sep 15, 1995

Runoff Yield 16.99 Liters/Second/Square KM, Momentary Peak Yield 524.42 Liters/Second/Square KM

WATER YEAR 1995

PASAK RIVER BASIN

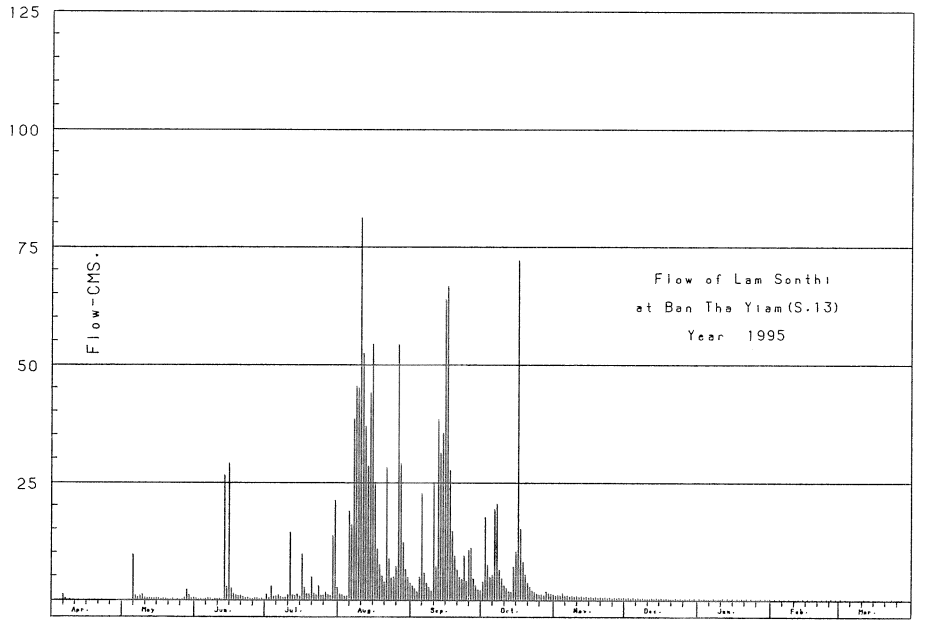
Lam Sonthi at Ban Tha Yiam, Lop Buri (S.13)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 102 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.31	0.15	0.52	0.88	0.94	1.19	1.29	0.83	0.58	0.49	0.45	0.43	
2	0.30	0.15	0.49	0.61	0.83	1.11	2.74	0.81	0.57	0.49	0.45	0.43	
3	0.29	0.15	0.47	1.19	0.77	1.03	1.72	0.84	0.57	0.48	0.45	0.43	
4	0.28	0.15	0.45	0.75	0.73	1.41	1.42	0.99	0.57	0.48	0.44	0.42	
5	0.91	1.96	0.44	0.70	2.86	3.17	1.46	0.83	0.56	0.48	0.44	0.42	
6	0.52	0.83	0.61	0.88	2.57	1.53	2.89	0.78	0.55	0.48	0.44	0.42	
7	0.44	0.60	0.52	0.65	4.35	1.27	2.99	0.75	0.55	0.48	0.43	0.41	
8	0.40	0.77	0.46	0.62	4.77	1.15	1.61	0.74	0.54	0.48	0.43	0.41	
9	0.37	0.85	0.47	0.60	4.75	1.06	1.37	0.73	0.54	0.48	0.43	0.41	
10	0.35	0.60	0.48	0.89	6.33	3.33	1.21	0.72	0.54	0.48	0.43	0.41	
11	0.34	0.55	0.46	2.43	5.13	1.68	1.12	0.69	0.54	0.48	0.43	0.41	
12	0.32	0.56	0.49	0.86	4.24	4.34	1.05	0.69	0.54	0.48	0.43	0.43	
13	0.31	0.52	3.49	0.74	3.64	3.85	1.01	0.69	0.54	0.48	0.43	0.42	
14	0.30	0.56	1.16	0.92	4.70	4.15	1.69	0.67	0.54	0.48	0.43	0.41	
15	0.28	0.53	3.68	0.71	5.22	5.67	2.01	0.66	0.54	0.48	0.43	0.41	
16	0.25	0.52	1.14	1.96	3.35	5.78	6.00	0.65	0.54	0.47	0.43	0.40	
17	0.23	0.51	0.93	1.14	2.08	3.58	2.50	0.64	0.54	0.47	0.43	0.40	
18	0.20	0.48	0.88	0.95	1.72	2.44	1.82	0.64	0.53	0.47	0.43	0.40	
19	0.32	0.55	0.74	0.90	1.45	1.92	1.47	0.63	0.53	0.47	0.43	0.39	
20	0.29	0.47	0.84	1.42	1.28	1.61	1.27	0.63	0.53	0.47	0.43	0.39	
21	0.27	0.46	0.65	0.94	3.62	1.40	1.16	0.62	0.52	0.47	0.43	0.39	
22	0.25	0.48	0.61	0.87	1.86	1.37	1.07	0.62	0.51	0.47	0.43	0.38	
23	0.24	0.44	0.58	1.19	1.40	1.94	1.01	0.61	0.51	0.47	0.43	0.48	
24	0.21	0.42	0.55	0.82	1.41	1.30	0.95	0.61	0.51	0.47	0.43	0.44	
25	0.15	0.41	0.52	0.79	1.68	2.06	0.91	0.60	0.51	0.47	0.43	0.43	
26	0.15	0.39	0.60	1.00	5.22	2.09	0.88	0.59	0.50	0.46	0.43	0.42	
27	0.15	0.65	0.53	0.89	3.68	1.38	0.86	0.59	0.50	0.46	0.43	0.41	
28	0.15	1.10	0.52	0.74	2.22	1.19	1.02	0.59	0.49	0.46	0.43	0.41	
29	0.15	0.80	0.49	2.35	1.62	1.10	0.99	0.59	0.49	0.46	0.43	0.47	
30	0.15	0.58	0.48	3.04	1.40	1.05	0.91	0.59	0.48	0.46		0.43	
31		0.56		1.14	1.25		0.86		0.48	0.45		0.43	
Mean	0.30	0.57	0.81	1.08	2.81	2.21	1.59	0.69	0.53	0.47	0.43	0.42	
Max	0.91	1.96	3.68	3.04	6.33	5.78	6.00	0.99	0.58	0.49	0.45	0.48	6.33
Min	0.15	0.15	0.44	0.60	0.73	1.03	0.86	0.59	0.48	0.45	0.43	0.38	0.15

Annual Max Momentary Gage Height 6.99 M (A.D), at 6.00 Hours, on Aug 10, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.15 M (A.D)
Left Bank Elevation 8.56 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.11	0.00	0.44	1.26	1.46	3.12	3.95	1.14	0.58	0.39	0.33	0.30	
2	0.10	0.00	0.39	0.65	1.14	2.48	17.74	1.10	0.56	0.39	0.33	0.30	
3	0.09	0.00	0.36	3.12	1.01	1.91	7.53	1.16	0.56	0.37	0.33	0.30	
4	0.08	0.00	0.33	0.96	0.92	4.95	5.03	1.66	0.56	0.37	0.31	0.28	
5	1.34	9.82	0.31	0.85	19.06	22.78	5.37	1.14	0.54	0.37	0.31	0.28	
6	0.44	1.14	0.65	1.26	15.99	5.95	19.39	1.03	0.51	0.37	0.31	0.28	
7	0.31	0.63	0.44	0.74	38.57	3.78	20.59	0.96	0.51	0.37	0.30	0.26	
8	0.25	1.01	0.34	0.67	45.46	2.80	6.62	0.94	0.49	0.37	0.30	0.26	
9	0.21	1.19	0.36	0.63	45.10	2.12	4.62	0.92	0.49	0.37	0.30	0.26	
10	0.17	0.63	0.37	1.28	81.39	24.72	3.28	0.90	0.49	0.37	0.30	0.26	
11	0.16	0.51	0.34	14.57	52.59	7.20	2.56	0.83	0.49	0.37	0.30	0.26	
12	0.13	0.54	0.39	1.21	36.95	38.42	2.05	0.83	0.49	0.37	0.30	0.30	
13	0.11	0.44	26.66	0.94	28.54	31.41	1.77	0.83	0.49	0.37	0.30	0.28	
14	0.10	0.54	2.88	1.38	44.20	35.67	7.28	0.78	0.49	0.37	0.30	0.26	
15	0.08	0.47	29.08	0.87	54.45	64.01	10.32	0.76	0.49	0.37	0.30	0.26	
16	0.05	0.44	2.72	9.82	24.96	66.71	72.10	0.74	0.49	0.36	0.30	0.25	
17	0.03	0.42	1.42	2.72	11.03	27.76	15.28	0.72	0.49	0.36	0.30	0.25	
18	0.00	0.37	1.26	1.50	7.53	14.67	8.40	0.72	0.47	0.36	0.30	0.25	
19	0.13	0.51	0.94	1.30	5.28	9.41	5.45	0.69	0.47	0.36	0.30	0.23	
20	0.09	0.36	1.16	5.03	3.87	6.62	3.78	0.69	0.47	0.36	0.30	0.23	
21	0.07	0.34	0.74	1.46	28.27	4.87	2.88	0.67	0.44	0.36	0.30	0.23	
22	0.05	0.37	0.65	1.23	8.81	4.62	2.19	0.67	0.42	0.36	0.30	0.22	
23	0.04	0.31	0.58	3.12	4.87	9.62	1.77	0.65	0.42	0.36	0.30	0.37	
24	0.01	0.28	0.51	1.12	4.95	4.03	1.50	0.65	0.42	0.36	0.30	0.31	
25	0.00	0.26	0.44	1.05	7.20	10.83	1.34	0.63	0.42	0.36	0.30	0.30	
26	0.00	0.23	0.63	1.70	54.45	11.13	1.26	0.60	0.40	0.34	0.30	0.28	
27	0.00	0.74	0.47	1.28	29.08	4.70	1.21	0.60	0.40	0.34	0.30	0.26	
28	0.00	2.40	0.44	0.94	12.45	3.12	1.84	0.60	0.39	0.34	0.30	0.26	
29	0.00	1.08	0.39	13.76	6.70	2.40	1.66	0.60	0.39	0.34	0.30	0.36	
30	0.00	0.58	0.37	21.20	4.87	2.05	1.34	0.60	0.37	0.34		0.30	
31		0.54		2.72	3.62		1.21		0.37	0.33		0.30	
Total	4.15	26.15	76.06	100.34	684.77	433.86	241.31	24.81	14.57	11.22	8.82	8.54	1634.60 CMSDAY
Mean	0.14	0.84	2.54	3.24	22.09	14.46	7.78	0.83	0.47	0.36	0.30	0.28	4.47 CMS
Max	1.34	9.82	29.08	21.20	81.39	66.71	72.10	1.66	0.58	0.39	0.33	0.37	81.39 CMS
Min	0.00	0.00	0.31	0.63	0.92	1.91	1.21	0.60	0.37	0.33	0.30	0.22	0.00 CMS
Runoff	0.359	2.259	6.572	8.669	59.164	37.486	20.849	2.144	1.259	0.969	0.762	0.738	141.229 MCM

Momentary Peak 104.72 CMS, at 6.99 M (A.D), at 6.00 Hours, on Aug 10, 1995

Runoff Yield 12.44 Liters/Second/Square KM, Momentary Peak Yield 291.699 Liters/Second/Square KM

WATER YEAR 1995

PASAK RIVER BASIN

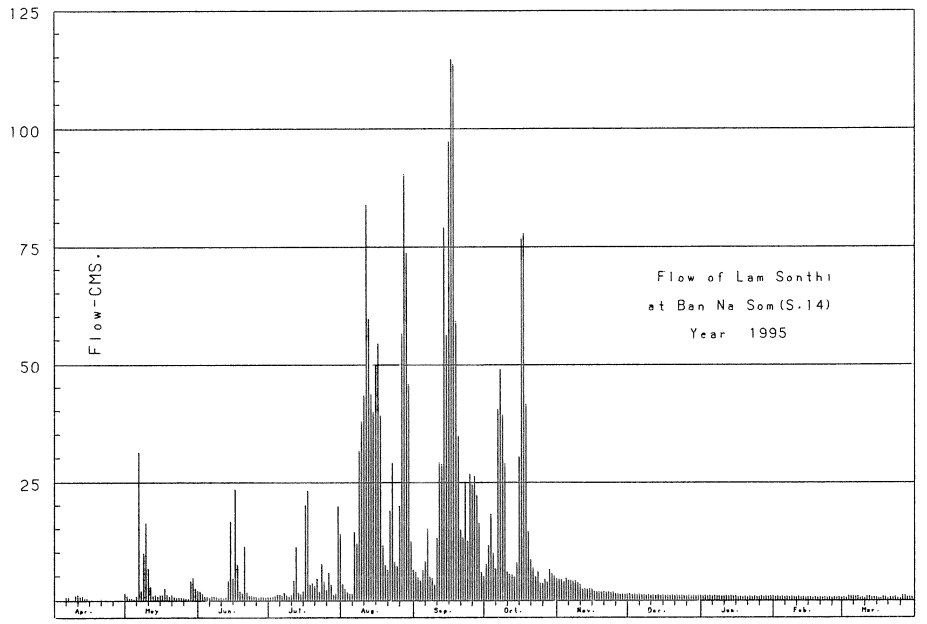
Lam Sonthi at Ban Na Som, Lop Buri (S.14)

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	+10.065 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 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 good. Stage-discharge relation defined by 52 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	1.58	1.92	1.50	2.18	2.50	2.69	2.33	1.80	1.66	1.61	1.54	
2	1.20	1.47	1.80	1.60	1.99	2.35	3.13	2.30	1.80	1.66	1.60	1.53	
3	1.20	1.39	1.61	1.60	1.89	2.28	3.79	2.26	1.80	1.66	1.60	1.65	
4	1.20	1.33	1.55	1.79	1.79	2.54	2.94	2.34	1.78	1.66	1.60	1.64	
5	1.51	1.58	1.51	1.74	1.81	2.76	2.60	2.30	1.78	1.66	1.60	1.64	
6	1.53	4.92	1.58	1.63	3.41	3.48	5.53	2.27	1.75	1.66	1.60	1.64	
7	1.24	1.94	1.62	1.85	3.17	2.39	6.05	2.27	1.74	1.66	1.60	1.64	
8	1.21	2.94	1.50	1.66	4.94	2.33	5.46	2.27	1.74	1.66	1.58	1.52	
9	1.68	3.60	1.48	1.60	5.36	2.16	4.72	2.23	1.74	1.66	1.59	1.51	
10	1.72	2.60	1.48	1.68	5.72	3.30	2.52	2.16	1.74	1.66	1.58	1.50	
11	1.60	2.09	1.47	2.27	7.62	4.74	2.44	2.01	1.72	1.66	1.58	1.61	
12	1.60	1.66	1.49	3.10	6.61	4.71	2.44	2.01	1.72	1.66	1.57	1.65	
13	1.46	1.70	2.26	1.87	5.74	7.42	2.37	2.01	1.72	1.66	1.56	1.51	
14	1.38	1.62	3.65	1.75	5.49	6.44	2.72	2.01	1.72	1.65	1.55	1.56	
15	1.30	1.69	2.34	1.91	6.11	8.13	4.85	2.01	1.72	1.64	1.54	1.54	
16	1.26	1.70	4.28	3.98	6.34	8.75	7.33	1.91	1.72	1.58	1.54	1.52	
17	1.20	2.03	2.68	4.24	5.45	8.71	7.37	1.91	1.70	1.58	1.54	1.45	
18	1.30	1.72	1.90	2.16	3.12	6.58	5.60	1.90	1.70	1.58	1.54	1.63	
19	1.30	1.60	1.85	2.18	2.68	5.16	3.44	1.90	1.70	1.58	1.54	1.57	
20	1.36	1.70	3.09	2.10	2.55	3.48	2.81	1.90	1.70	1.59	1.54	1.46	
21	1.20	1.59	1.86	2.34	3.86	3.30	2.60	1.90	1.70	1.59	1.54	1.55	
22	1.20	1.52	1.69	1.91	4.74	4.40	2.40	1.89	1.69	1.61	1.54	1.57	
23	1.20	1.50	1.62	2.70	2.73	3.24	2.52	1.88	1.69	1.61	1.54	1.58	
24	1.20	1.50	1.60	2.24	2.65	4.55	2.20	1.88	1.69	1.61	1.54	1.50	
25	1.21	1.44	1.54	1.94	3.97	4.36	2.21	1.84	1.67	1.61	1.54	1.47	
26	1.22	1.40	1.50	2.48	6.45	4.50	2.31	1.80	1.67	1.61	1.54	1.67	
27	1.21	1.42	1.57	2.16	7.87	4.17	2.24	1.80	1.66	1.61	1.54	1.67	
28	1.21	2.27	1.50	1.73	7.21	3.60	2.56	1.79	1.66	1.61	1.54	1.58	
29	1.21	2.34	1.50	1.81	5.86	2.50	2.47	1.79	1.66	1.63	1.54	1.56	
30	1.84	2.04	1.50	3.96	3.22	2.38	2.40	1.78	1.66	1.63		1.56	
31		1.92		3.38	2.56		2.33		1.66	1.63		1.58	
Mean	1.34	1.93	1.90	2.22	4.36	4.24	3.45	2.02	1.72	1.63	1.56	1.57	
Max	1.84	4.92	4.28	4.24	7.87	8.75	7.37	2.34	1.80	1.66	1.61	1.67	8.75
Min	1.20	1.33	1.47	1.50	1.79	2.16	2.20	1.78	1.66	1.58	1.54	1.45	1.20

Annual Max Momentary Gage Height 8.96 M (A.D), at 9.00 Hours, on Sep 16, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.63 M (A.D)
Left Bank Elevation 11.52 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.85	2.01	0.65	3.56	6.05	7.72	4.67	1.40	1.05	0.93	0.75	
2	0.10	0.58	1.40	0.90	2.40	4.82	11.75	4.45	1.40	1.05	0.90	0.73	
3	0.10	0.39	0.93	0.90	1.85	4.30	18.28	4.15	1.40	1.05	0.90	1.03	
4	0.10	0.30	0.78	1.38	1.38	6.39	10.01	4.75	1.35	1.05	0.90	1.00	
5	0.68	0.85	0.68	1.25	1.45	8.36	6.90	4.45	1.35	1.05	0.90	1.00	
6	0.73	31.48	0.85	0.98	14.42	15.13	40.52	4.22	1.28	1.05	0.90	1.00	
7	0.16	2.12	0.95	1.65	12.11	5.13	49.11	4.22	1.25	1.05	0.90	1.00	
8	0.12	10.01	0.65	1.05	31.76	4.67	39.45	4.22	1.25	1.05	0.85	0.70	
9	1.10	16.35	0.60	0.90	37.93	3.42	29.01	3.92	1.25	1.05	0.88	0.68	
10	1.20	6.90	0.60	1.10	43.44	13.30	6.22	3.42	1.25	1.05	0.85	0.65	
11	0.90	2.95	0.58	4.22	84.06	29.25	5.54	2.51	1.20	1.05	0.85	0.93	
12	0.90	1.05	0.63	11.47	59.82	28.89	5.54	2.51	1.20	1.05	0.83	1.03	
13	0.55	1.15	4.15	1.75	43.78	79.02	4.97	2.51	1.20	1.05	0.80	0.68	
14	0.37	0.95	16.86	1.28	39.91	56.33	8.00	2.51	1.20	1.03	0.78	0.80	
15	0.25	1.13	4.75	1.95	50.15	97.32	30.59	2.51	1.20	1.00	0.75	0.75	
16	0.19	1.15	23.67	20.30	54.38	114.80	76.76	1.95	1.20	0.85	0.75	0.70	
17	0.10	2.62	7.63	23.22	39.30	113.60	77.76	1.95	1.15	0.85	0.75	0.53	
18	0.25	1.20	1.90	3.42	11.65	59.18	41.58	1.90	1.15	0.85	0.75	0.98	
19	0.25	0.90	1.65	3.56	7.63	34.92	14.72	1.90	1.15	0.85	0.75	0.83	
20	0.34	1.15	11.38	3.00	6.48	15.13	8.82	1.90	1.15	0.88	0.75	0.55	
21	0.10	0.88	1.70	4.75	18.99	13.30	6.90	1.90	1.15	0.88	0.75	0.78	
22	0.10	0.70	1.13	1.95	29.25	25.12	5.20	1.85	1.13	0.93	0.75	0.83	
23	0.10	0.65	0.95	7.81	8.09	12.75	6.22	1.80	1.13	0.93	0.75	0.85	
24	0.10	0.65	0.90	4.00	7.36	26.94	3.70	1.80	1.13	0.93	0.75	0.65	
25	0.12	0.50	0.75	2.12	20.19	24.63	3.78	1.60	1.08	0.93	0.75	0.58	
26	0.13	0.40	0.65	5.88	56.52	26.33	4.52	1.40	1.08	0.93	0.75	1.08	
27	0.12	0.45	0.83	3.42	90.44	22.44	4.00	1.40	1.05	0.93	0.75	1.08	
28	0.12	4.22	0.65	1.23	73.81	16.35	6.56	1.38	1.05	0.93	0.75	0.85	
29	0.12	4.75	0.65	1.45	45.84	6.05	5.80	1.38	1.05	0.98	0.75	0.80	
30	1.60	2.67	0.65	20.07	12.57	5.05	5.20	1.35	1.05	0.98		0.80	
31		2.01		14.11	6.56		4.67		1.05	0.98		0.85	
Total	11.10	101.96	91.51	151.72	917.08	878.97	549.80	80.48	36.93	30.29	23.42	25.47	2898.73 CMSDAY
Mean	0.37	3.29	3.05	4.89	29.58	29.30	17.74	2.68	1.19	0.98	0.81	0.82	7.92 CMS
Max	1.60	31.48	23.67	23.22	90.44	114.80	77.76	4.75	1.40	1.05	0.93	1.08	114.80 CMS
Min	0.10	0.30	0.58	0.65	1.38	3.42	3.70	1.35	1.05	0.85	0.75	0.53	0.10 CMS
Runoff	0.959	8.809	7.906	13.109	79.236	75.943	47.503	6.953	3.191	2.617	2.023	2.201	250.450 MCM

Momentary Peak 121.10 CMS, at 8.96 M (A.D), at 9.00 Hours, on Sep 16, 1995

Runoff Yield 6.35 Liters/Second/Square KM, Momentary Peak Yield 97.113 Liters/Second/Square KM

WATER YEAR 1995

PASAK RIVER BASIN

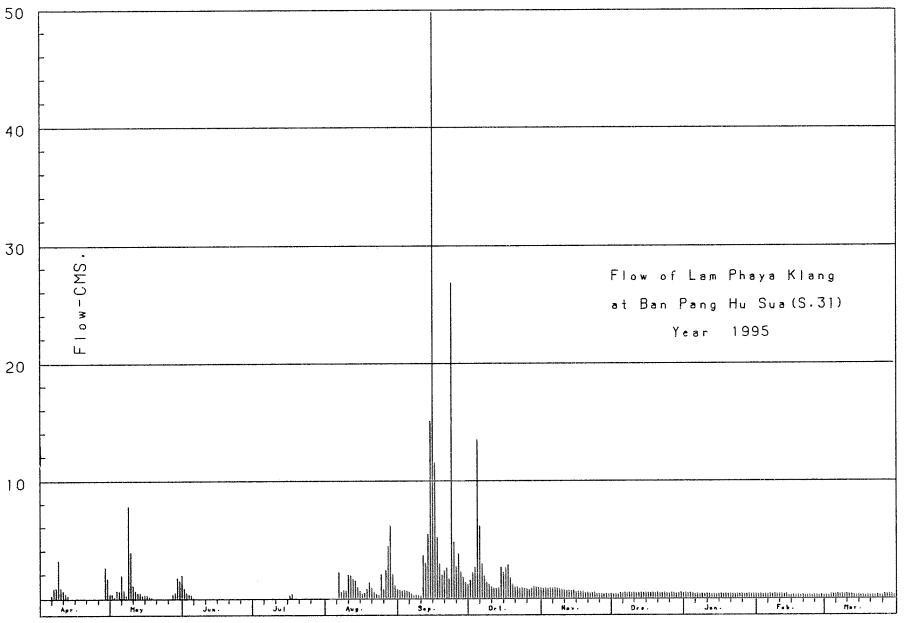
Lam Phaya Klang at Ban Pang Hu Sua, Lop Buri (S.31)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 3.43 m. (A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.19	0.27	0.05	0.06	0.24	0.36	0.27	0.18	0.20	0.19	0.17	
2	0.05	0.13	0.20	0.05	0.05	0.23	0.42	0.27	0.18	0.20	0.19	0.17	
3	0.05	0.24	0.18	0.04	0.03	0.25	0.47	0.27	0.18	0.20	0.19	0.18	
4	0.06	0.22	0.15	0.07	0.07	0.24	1.30	0.27	0.20	0.20	0.19	0.18	
5	0.15	0.40	0.13	0.11	0.06	0.22	0.78	0.27	0.20	0.19	0.19	0.18	
6	0.29	0.23	0.11	0.10	0.43	0.19	0.50	0.27	0.20	0.19	0.18	0.18	
7	0.29	0.17	0.09	0.06	0.22	0.17	0.39	0.27	0.20	0.19	0.18	0.19	
8	0.53	0.91	0.08	0.06	0.25	0.16	0.34	0.26	0.20	0.19	0.18	0.18	
9	0.28	0.60	0.10	0.06	0.25	0.15	0.32	0.26	0.20	0.19	0.18	0.18	
10	0.24	0.31	0.11	0.06	0.40	0.14	0.30	0.25	0.20	0.19	0.18	0.18	
11	0.18	0.23	0.08	0.06	0.40	0.57	0.29	0.23	0.20	0.19	0.18	0.18	
12	0.15	0.20	0.08	0.06	0.37	0.50	0.28	0.23	0.20	0.19	0.18	0.18	
13	0.11	0.20	0.08	0.11	0.35	0.72	0.29	0.23	0.20	0.19	0.18	0.17	
14	0.09	0.16	0.07	0.09	0.30	1.41	0.47	0.23	0.20	0.19	0.17	0.17	
15	0.08	0.15	0.07	0.08	0.23	3.51	0.42	0.22	0.20	0.19	0.17	0.17	
16	0.08	0.15	0.06	0.17	0.19	1.17	0.46	0.22	0.20	0.19	0.17	0.17	
17	0.07	0.14	0.06	0.18	0.20	0.70	0.49	0.22	0.20	0.19	0.17	0.17	
18	0.07	0.13	0.05	0.11	0.26	0.50	0.38	0.22	0.20	0.19	0.17	0.17	
19	0.07	0.12	0.04	0.09	0.34	0.40	0.32	0.21	0.20	0.19	0.17	0.16	
20	0.08	0.11	0.04	0.08	0.29	0.44	0.30	0.21	0.20	0.19	0.17	0.16	
21	0.07	0.09	0.04	0.07	0.22	0.46	0.30	0.21	0.20	0.19	0.17	0.15	
22	0.05	0.08	0.04	0.07	0.19	0.37	0.28	0.21	0.20	0.19	0.17	0.15	
23	0.04	0.08	0.04	0.07	0.17	2.18	0.27	0.20	0.20	0.19	0.17	0.15	
24	0.05	0.08	0.04	0.06	0.41	0.67	0.27	0.19	0.20	0.19	0.17	0.15	
25	0.04	0.08	0.04	0.06	0.26	0.47	0.26	0.19	0.19	0.19	0.17	0.17	
26	0.04	0.07	0.04	0.06	0.44	0.58	0.26	0.18	0.20	0.19	0.17	0.19	
27	0.04	0.18	0.02	0.11	0.64	0.43	0.27	0.18	0.20	0.19	0.17	0.18	
28	0.47	0.21	0.02	0.11	0.78	0.38	0.30	0.18	0.19	0.19	0.17	0.18	
29	0.37	0.38	0.02	0.12	0.41	0.34	0.30	0.18	0.20	0.19	0.17	0.18	
30	0.21	0.35	0.02	0.09	0.31	0.32	0.28	0.18	0.20	0.19		0.17	
31		0.40		0.06	0.26		0.27		0.20	0.19		0.17	
Mean	0.14	0.23	0.08	0.08	0.29	0.60	0.39	0.23	0.20	0.19	0.18	0.17	
Max	0.53	0.91	0.27	0.18	0.78	3.51	1.30	0.27	0.20	0.20	0.19	0.19	3.51
Min	0.04	0.07	0.02	0.04	0.03	0.14	0.26	0.18	0.18	0.19	0.17	0.15	0.02

Annual Max Momentary Gage Height 4.21 M (A.D), at 6.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.27 M (A.D)
Left Bank Elevation 3.42 M (A.D)
Right Bank Elevation 6.16 M (A.D), Drainage Area 381 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.4	0.9	0.0	0.0	0.7	1.6	0.9	0.4	0.5	0.4	0.3	
2	0.0	0.1	0.5	0.0	0.0	0.7	2.2	0.9	0.4	0.5	0.4	0.3	
3	0.0	0.7	0.4	0.0	0.0	0.7	2.7	0.9	0.4	0.5	0.4	0.4	
4	0.0	0.6	0.3	0.0	0.0	0.7	13.5	0.9	0.5	0.5	0.4	0.4	
5	0.3	2.0	0.1	0.0	0.0	0.6	6.2	0.9	0.5	0.4	0.4	0.4	
6	0.9	0.7	0.0	0.0	2.3	0.4	3.0	0.9	0.5	0.4	0.4	0.4	
7	0.9	0.3	0.0	0.0	0.6	0.3	1.9	0.9	0.5	0.4	0.4	0.4	
8	3.3	7.9	0.0	0.0	0.7	0.3	1.4	0.8	0.5	0.4	0.4	0.4	
9	0.9	4.0	0.0	0.0	0.7	0.3	1.2	0.8	0.5	0.4	0.4	0.4	
10	0.7	1.1	0.0	0.0	2.0	0.2	1.0	0.7	0.5	0.4	0.4	0.4	
11	0.4	0.7	0.0	0.0	2.0	3.7	0.9	0.7	0.5	0.4	0.4	0.4	
12	0.3	0.5	0.0	0.0	1.7	3.0	0.9	0.7	0.5	0.4	0.4	0.4	
13	0.0	0.5	0.0	0.0	1.5	5.5	0.9	0.7	0.5	0.4	0.4	0.3	
14	0.0	0.3	0.0	0.0	1.0	15.1	2.7	0.7	0.5	0.4	0.3	0.3	
15	0.0	0.3	0.0	0.0	0.7	49.8	2.2	0.6	0.5	0.4	0.3	0.3	
16	0.0	0.3	0.0	0.3	0.4	11.6	2.6	0.6	0.5	0.4	0.3	0.3	
17	0.0	0.2	0.0	0.4	0.5	5.2	2.9	0.6	0.5	0.4	0.3	0.3	
18	0.0	0.1	0.0	0.0	0.8	3.0	1.8	0.6	0.5	0.4	0.3	0.3	
19	0.0	0.1	0.0	0.0	1.4	2.0	1.2	0.5	0.5	0.4	0.3	0.3	
20	0.0	0.0	0.0	0.0	0.9	2.4	1.0	0.5	0.5	0.4	0.3	0.3	
21	0.0	0.0	0.0	0.0	0.6	2.6	1.0	0.5	0.5	0.4	0.3	0.3	
22	0.0	0.0	0.0	0.0	0.4	1.7	0.9	0.5	0.5	0.4	0.3	0.3	
23	0.0	0.0	0.0	0.0	0.3	26.9	0.9	0.5	0.5	0.4	0.3	0.3	
24	0.0	0.0	0.0	0.0	2.1	4.8	0.9	0.4	0.5	0.4	0.3	0.3	
25	0.0	0.0	0.0	0.0	0.8	2.7	0.8	0.4	0.4	0.4	0.3	0.3	
26	0.0	0.0	0.0	0.0	2.4	3.8	0.8	0.4	0.5	0.4	0.3	0.4	
27	0.0	0.4	0.0	0.0	4.5	2.3	0.9	0.4	0.5	0.4	0.3	0.4	
28	2.7	0.5	0.0	0.0	6.2	1.8	1.0	0.4	0.4	0.4	0.3	0.4	
29	1.7	1.8	0.0	0.1	2.1	1.4	1.0	0.4	0.5	0.4	0.3	0.4	
30	0.5	1.5	0.0	0.0	1.1	1.2	0.9	0.4	0.5	0.4		0.3	
31		2.0		0.0	0.8		0.9		0.5	0.4		0.3	
Total	12.6	27.0	2.2	0.8	38.5	155.4	61.8	19.1	15.0	12.8	10.0	10.7	365.9 CMSDAY
Mean	0.4	0.9	0.1	0.0	1.2	5.2	2.0	0.6	0.5	0.4	0.3	0.3	1.0 CMS
Max	3.3	7.9	0.9	0.4	6.2	49.8	13.5	0.9	0.5	0.5	0.4	0.4	49.8 CMS
Min	0.0	0.0	0.0	0.0	0.0	0.2	0.8	0.4	0.4	0.4	0.3	0.3	0.0 CMS
Runoff	1.09	2.33	0.19	0.07	3.33	13.43	5.34	1.65	1.30	1.11	0.86	0.92	31.61 MCM

Momentary Peak 62.38 CMS, at 4.21 M (A.D), at 6.00 Hours, on Sep 15, 1995

Runoff Yield 2.62 Liters/Second/Square KM, Momentary Peak Yield 163.727 Liters/Second/Square KM

WATER YEAR 1995

SALAWIN RIVER BASIN

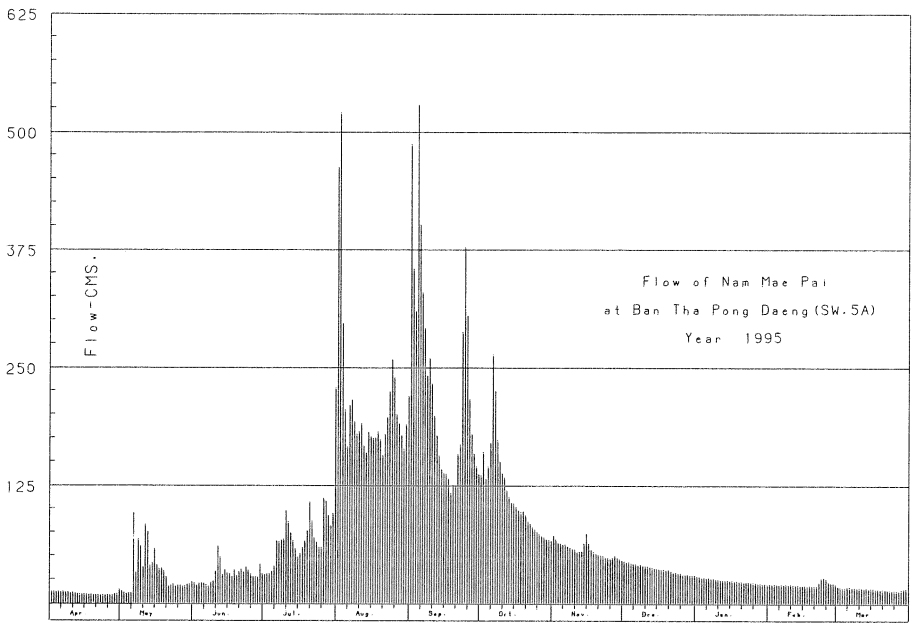
Nam Mae Pai at Ban Tha Pong Daeng, Mae Hong Son (SW.5A)

Location	Lat. 19-16-10 N., Long. 97-56-55 E., on left bank at Ban Tha Pong Daeng, Amphoe Muang, Mae Hong Son.
Drainage Area	4,466 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank near the station office.
Elevation	+8.372 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1980 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Fairly stable 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 115 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.09	-0.02	0.13	3.38	3.50	1.57	1.00	0.67	0.43	0.25	0.20	
2	0.06	0.03	-0.06	0.13	3.67	2.80	1.75	0.95	0.66	0.41	0.25	0.17	
3	0.06	0.01	-0.03	0.13	2.46	2.54	1.54	0.91	0.66	0.40	0.25	0.16	
4	0.06	0.01	-0.01	0.17	1.85	3.71	1.64	0.90	0.65	0.40	0.25	0.16	
5	0.06	0.03	-0.02	0.23	1.54	3.06	1.82	0.89	0.64	0.39	0.24	0.19	
6	0.06	0.82	-0.06	0.43	1.89	2.70	2.37	0.89	0.63	0.39	0.24	0.18	
7	0.04	0.15	-0.08	0.41	1.93	2.51	2.16	0.87	0.62	0.38	0.24	0.17	
8	0.04	0.45	-0.01	0.44	1.76	2.25	1.84	0.85	0.62	0.37	0.24	0.16	
9	0.03	0.38	0.02	0.45	1.65	2.35	1.68	0.84	0.61	0.36	0.24	0.16	
10	0.03	0.22	0.17	0.85	1.67	2.20	1.59	0.83	0.60	0.35	0.24	0.16	
11	0.02	0.66	0.38	0.70	1.74	2.00	1.55	0.80	0.60	0.35	0.23	0.16	
12	0.01	0.57	0.31	0.55	1.55	1.87	1.44	0.80	0.59	0.34	0.23	0.15	
13	-0.01	0.23	0.12	0.43	1.48	1.72	1.38	0.81	0.58	0.34	0.23	0.15	
14	-0.01	0.26	0.19	0.36	1.67	1.62	1.33	0.90	0.57	0.34	0.22	0.14	
15	-0.01	0.36	0.14	0.31	1.63	1.59	1.32	1.02	0.56	0.33	0.22	0.14	
16	-0.02	0.24	0.13	0.33	1.61	1.58	1.29	0.90	0.56	0.33	0.21	0.14	
17	-0.02	0.20	0.09	0.37	1.62	1.54	1.26	0.83	0.55	0.32	0.21	0.13	
18	-0.03	0.21	0.19	0.42	1.67	1.41	1.24	0.80	0.55	0.32	0.21	0.12	
19	-0.03	0.17	0.11	0.58	1.60	1.48	1.25	0.78	0.54	0.31	0.21	0.12	
20	-0.03	0.09	0.16	0.96	1.46	1.48	1.21	0.76	0.54	0.31	0.20	0.12	
21	-0.04	-0.08	0.19	0.71	1.65	1.73	1.15	0.76	0.52	0.30	0.20	0.12	
22	-0.04	-0.06	0.16	0.47	1.79	1.81	1.12	0.75	0.50	0.30	0.29	0.11	
23	-0.04	-0.05	0.22	0.41	1.99	2.49	1.09	0.73	0.50	0.29	0.39	0.10	
24	-0.04	-0.08	0.18	0.37	2.22	2.94	1.06	0.72	0.49	0.29	0.40	0.10	
25	-0.04	-0.07	0.13	0.37	2.09	2.58	1.04	0.71	0.48	0.28	0.36	0.09	
26	-0.04	-0.07	0.10	1.00	1.81	2.11	1.01	0.72	0.46	0.28	0.30	0.08	
27	-0.05	-0.08	0.10	0.97	1.74	1.88	0.99	0.75	0.46	0.27	0.28	0.08	
28	0.00	-0.08	0.08	0.79	1.64	1.74	0.97	0.73	0.45	0.26	0.26	0.11	
29	0.00	-0.04	0.25	0.65	1.52	1.64	0.95	0.70	0.45	0.26	0.24	0.14	
30	0.12	-0.04	0.13	0.81	1.73	1.58	0.94	0.69	0.44	0.25		0.13	
31		0.01		2.02	1.96		0.93		0.44	0.25		0.12	
Mean	0.01	0.15	0.11	0.55	1.87	2.15	1.37	0.82	0.55	0.33	0.25	0.14	
Max	0.12	0.82	0.38	2.02	3.67	3.71	2.37	1.02	0.67	0.43	0.40	0.20	3.71
Min	-0.05	-0.08	-0.08	0.13	1.46	1.41	0.93	0.69	0.44	0.25	0.20	0.08	-0.08

Annual Max Momentary Gage Height 4.05 M (A.D), at 6.00 Hours, on Sep 1, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.79 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.32	14.04	22.16	31.67	463.20	487.00	136.40	73.00	45.04	29.56	20.95	18.70	
2	12.96	11.88	20.08	31.67	521.00	355.00	161.00	68.50	44.32	28.52	20.95	17.41	
3	12.96	11.16	21.64	31.67	297.60	310.40	132.80	64.90	44.32	28.00	20.95	16.98	
4	12.96	11.16	22.68	34.83	205.50	529.10	145.60	64.00	43.60	28.00	20.95	16.98	
5	12.96	11.88	22.16	40.44	166.80	402.40	171.00	63.10	42.88	27.52	20.50	18.27	
6	12.96	96.60	20.08	67.10	210.70	330.00	264.30	63.10	42.16	27.52	20.50	17.84	
7	12.24	33.25	19.04	65.70	216.20	292.00	225.80	61.30	41.44	27.04	20.50	17.41	
8	12.24	68.50	22.68	67.80	193.80	242.00	174.00	59.50	41.44	26.56	20.50	16.98	
9	11.88	61.60	24.42	68.50	180.00	260.50	151.20	58.60	40.72	26.08	20.50	16.98	
10	11.88	39.36	34.83	99.00	182.40	233.00	138.80	57.70	40.00	25.60	20.50	16.98	
11	11.52	83.80	61.60	87.00	191.20	199.00	134.00	55.00	40.00	25.60	20.05	16.98	
12	11.16	76.90	49.70	75.50	168.00	178.50	120.80	55.00	39.32	25.12	20.05	16.55	
13	10.48	40.44	30.88	67.10	159.80	156.80	113.60	55.90	38.64	25.12	20.05	16.55	
14	10.48	43.68	36.41	58.20	182.40	142.80	107.60	64.00	37.96	25.12	19.60	16.12	
15	10.48	58.20	32.46	49.70	177.60	138.80	106.40	75.00	37.28	24.64	19.60	16.12	
16	10.16	41.52	31.67	53.10	175.20	137.60	102.90	64.00	37.28	24.64	19.15	16.12	
17	10.16	37.20	28.69	59.90	176.40	132.80	99.60	57.70	36.60	24.16	19.15	15.69	
18	9.84	38.28	36.41	66.40	182.40	117.20	97.40	55.00	36.60	24.16	19.15	15.26	
19	9.84	34.83	30.09	77.60	174.00	125.60	98.50	53.44	35.92	23.68	19.15	15.26	
20	9.84	28.69	34.04	108.40	157.60	125.60	94.10	51.88	35.92	23.68	18.70	15.26	
21	9.52	19.04	36.41	87.80	180.00	158.20	88.00	51.88	34.56	23.20	18.70	15.26	
22	9.52	20.08	34.04	69.90	197.70	169.50	85.00	51.10	33.20	23.20	22.75	14.83	
23	9.52	20.60	39.36	65.70	224.60	288.00	82.00	49.54	33.20	22.75	27.52	14.40	
24	9.52	19.04	35.62	59.90	259.20	378.40	79.00	48.76	32.68	22.75	28.00	14.40	
25	9.52	19.56	31.67	59.90	239.50	306.00	77.00	47.98	32.16	22.30	26.08	14.04	
26	9.52	19.56	29.30	112.00	200.30	216.80	74.00	48.76	31.12	22.30	23.20	13.68	
27	9.20	19.04	29.30	109.30	191.20	180.00	72.10	51.10	31.12	21.85	22.30	13.68	
28	10.80	19.04	28.08	94.20	178.80	159.60	70.30	49.54	30.60	21.40	21.40	14.83	
29	10.80	21.12	42.60	83.00	164.40	145.60	68.50	47.20	30.60	21.40	20.50	16.12	
30	15.26	21.12	31.67	95.80	189.90	137.60	67.60	46.48	30.08	20.95		15.69	
31		23.81		229.00	220.40		66.70		30.08	20.95		15.26	
Total	333.50	1064.98	939.77	2307.78	6627.80	7035.80	3606.00	1712.96	1150.84	763.37	611.90	496.63	26651.33 CMSDAY
Mean	11.12	34.35	31.33	74.44	213.80	234.53	116.32	57.10	37.12	24.62	21.10	16.02	72.82 CMS
Max	15.26	96.60	61.60	229.00	521.00	529.10	264.30	75.00	45.04	29.56	28.00	18.70	529.10 CMS
Min	9.20	11.16	19.04	31.67	157.60	117.20	66.70	46.48	30.08	20.95	18.70	13.68	9.20 CMS
Runoff	28.814	92.014	81.196	199.392	572.642	607.893	311.558	148.000	99.433	65.955	52.868	42.909	2302.675 MCM

Momentary Peak 601.00 CMS, at 4.05 M (A.D), at 6.00 Hours, on Sep 1, 1995

Runoff Yield 16.30 Liters/Second/Square KM, Momentary Peak Yield 134.572 Liters/Second/Square KM

WATER YEAR 1995

SALAWIN RIVER BASIN

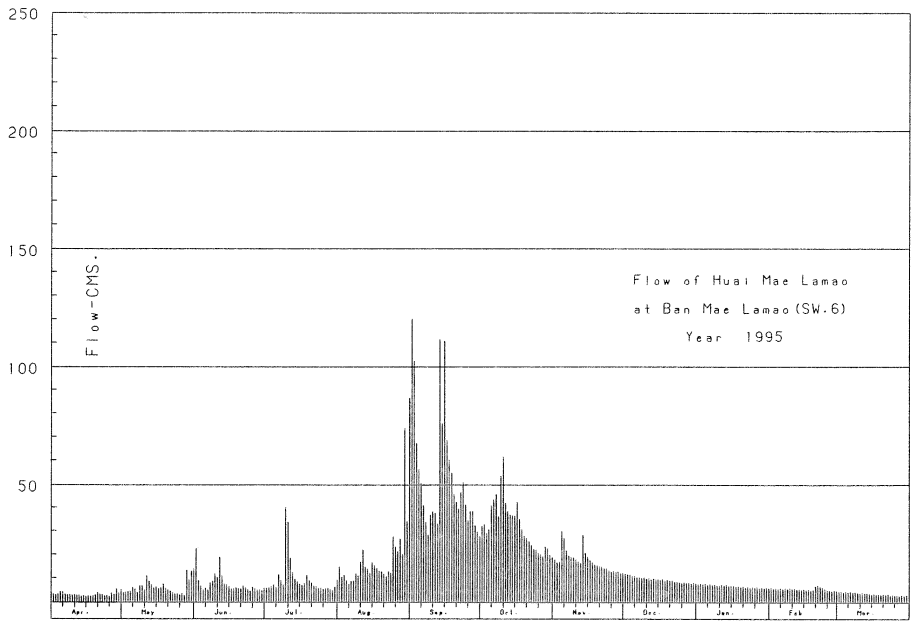
Huai Mae Lamao at Ban Mae Lamao, Tak (SW.6)

Location	Lat. 16-45- 44 N., Long. 98-45-14 E., on left bank downstream from the bridge on highway, at Ban Mae Lamao, Amphoe Mae Sot, Tak.
Drainage Area	1,038 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	About 6.25 meters from automatic gage building.
Elevation	+10.386 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1971 to date.
Rated by Float	-
Rated by Current Meter	1971 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 112 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.53	0.57	1.22	0.64	0.97	3.60	1.50	1.07	0.87	0.72	0.65	0.59	
2	0.53	0.56	0.78	0.66	0.82	3.21	1.52	1.04	0.87	0.72	0.64	0.58	
3	0.53	0.59	0.68	0.67	0.86	2.43	1.42	1.04	0.86	0.72	0.64	0.58	
4	0.59	0.58	0.62	0.70	0.77	2.15	1.46	1.45	0.85	0.72	0.64	0.58	
5	0.57	0.66	0.64	0.66	0.72	2.01	1.76	1.35	0.84	0.71	0.64	0.58	
6	0.54	0.62	0.62	0.87	0.78	1.76	1.82	1.19	0.83	0.71	0.64	0.58	
7	0.53	0.57	0.73	0.77	0.77	1.55	1.89	1.13	0.82	0.71	0.64	0.58	
8	0.52	0.70	0.77	0.71	0.88	1.40	1.63	1.10	0.82	0.70	0.64	0.57	
9	0.52	0.68	0.87	1.73	0.84	1.64	2.08	1.11	0.82	0.70	0.64	0.57	
10	0.52	0.62	0.83	1.56	1.04	1.68	2.29	1.07	0.81	0.70	0.64	0.56	
11	0.52	0.84	1.11	1.10	1.21	1.67	1.78	1.04	0.81	0.70	0.63	0.56	
12	0.51	0.77	0.84	0.89	0.98	1.54	1.68	1.03	0.80	0.70	0.63	0.56	
13	0.50	0.70	0.72	0.80	0.94	3.41	1.65	1.40	0.80	0.70	0.62	0.55	
14	0.50	0.65	0.70	0.75	0.89	2.62	1.63	1.17	0.80	0.69	0.62	0.54	
15	0.50	0.66	0.67	0.71	1.03	3.40	1.63	1.11	0.79	0.68	0.62	0.54	
16	0.50	0.63	0.64	0.70	0.99	2.46	1.80	1.07	0.79	0.68	0.62	0.54	
17	0.50	0.66	0.63	0.72	0.96	2.25	1.60	1.03	0.79	0.68	0.62	0.54	
18	0.50	0.71	0.66	0.86	0.91	2.12	1.46	1.01	0.78	0.67	0.61	0.53	
19	0.53	0.65	0.63	0.78	0.91	1.88	1.39	0.99	0.78	0.67	0.61	0.53	
20	0.56	0.61	0.64	0.73	0.87	1.80	1.35	0.99	0.78	0.67	0.69	0.53	
21	0.54	0.60	0.68	0.69	0.84	1.71	1.32	0.97	0.77	0.66	0.69	0.53	
22	0.52	0.56	0.66	0.67	0.91	1.91	1.26	0.96	0.76	0.66	0.68	0.53	
23	0.51	0.55	0.61	0.65	0.88	2.01	1.22	0.95	0.75	0.66	0.65	0.52	
24	0.50	0.54	0.60	0.64	1.37	1.77	1.20	0.93	0.75	0.66	0.64	0.52	
25	0.50	0.53	0.67	0.63	1.25	1.58	1.17	0.91	0.74	0.66	0.62	0.52	
26	0.55	0.54	0.63	0.63	1.18	1.68	1.14	0.91	0.74	0.66	0.60	0.51	
27	0.54	0.52	0.62	0.65	1.35	1.68	1.12	0.91	0.74	0.65	0.60	0.51	
28	0.64	0.93	0.61	0.62	1.15	1.52	1.25	0.90	0.73	0.65	0.60	0.51	
29	0.55	0.78	0.61	0.61	2.57	1.43	1.22	0.89	0.73	0.65	0.59	0.51	
30	0.61	0.92	0.64	0.66	1.56	1.38	1.13	0.88	0.73	0.65		0.51	
31		0.94		0.79	2.87		1.11		0.72	0.65		0.51	
Mean	0.53	0.66	0.71	0.78	1.10	2.04	1.50	1.05	0.79	0.68	0.63	0.54	
Max	0.64	0.94	1.22	1.73	2.87	3.60	2.29	1.45	0.87	0.72	0.69	0.59	3.60
Min	0.50	0.52	0.60	0.61	0.72	1.38	1.11	0.88	0.72	0.65	0.59	0.51	0.50

Annual Max Momentary Gage Height 4.15 M (A.D), at 6.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.08 M (A.D)
Left Bank Elevation 8.86 M (A.D)
Right Bank Elevation 7.91 M (A.D), Drainage Area 1038 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.39	4.31	22.86	5.96	15.00	120.60	32.20	18.07	12.03	7.92	6.20	4.77	
2	3.39	4.08	9.48	6.44	10.58	102.36	32.88	17.14	12.03	7.92	5.96	4.54	
3	3.39	4.77	6.92	6.68	11.74	67.86	29.48	17.14	11.74	7.92	5.96	4.54	
4	4.77	4.54	5.48	7.40	9.22	56.40	30.84	30.50	11.45	7.92	5.96	4.54	
5	4.31	6.44	5.96	6.44	7.92	50.80	41.36	27.15	11.16	7.66	5.96	4.54	
6	3.62	5.48	5.48	12.03	9.48	41.36	43.54	21.88	10.87	7.66	5.96	4.54	
7	3.39	4.31	8.18	9.22	9.22	33.90	46.13	19.96	10.58	7.66	5.96	4.54	
8	3.16	7.40	9.22	7.66	12.32	28.80	36.68	19.00	10.58	7.40	5.96	4.31	
9	3.16	6.92	12.03	40.28	11.16	37.04	53.60	19.32	10.58	7.40	5.96	4.31	
10	3.16	5.48	10.87	34.24	17.14	38.48	62.09	18.07	10.29	7.40	5.96	4.08	
11	3.16	11.16	19.32	19.00	22.53	38.12	42.08	17.14	10.29	7.40	5.72	4.08	
12	2.93	9.22	11.16	12.61	15.30	33.56	38.48	16.83	10.00	7.40	5.72	4.08	
13	2.70	7.40	7.92	10.00	14.10	111.67	37.40	28.80	10.00	7.40	5.48	3.85	
14	2.70	6.20	7.40	8.70	12.61	75.88	36.68	21.24	10.00	7.16	5.48	3.62	
15	2.70	6.44	6.68	7.66	16.83	111.20	36.68	19.32	9.74	6.92	5.48	3.62	
16	2.70	5.72	5.96	7.40	15.60	69.12	42.80	18.07	9.74	6.92	5.48	3.62	
17	2.70	6.44	5.72	7.92	14.70	60.45	35.60	16.83	9.74	6.92	5.48	3.62	
18	2.70	7.66	6.44	11.74	13.20	55.20	30.84	16.21	9.48	6.68	5.24	3.39	
19	3.39	6.20	5.72	9.48	13.20	45.76	28.47	15.60	9.48	6.68	5.24	3.39	
20	4.08	5.24	5.96	8.18	12.03	42.80	27.15	15.60	9.48	6.68	7.16	3.39	
21	3.62	5.00	6.92	7.16	11.16	39.56	26.16	15.00	9.22	6.44	7.16	3.39	
22	3.16	4.08	6.44	6.68	13.20	46.89	24.18	14.70	8.96	6.44	6.92	3.39	
23	2.93	3.85	5.24	6.20	12.32	50.80	22.86	14.40	8.70	6.44	6.20	3.16	
24	2.70	3.62	5.00	5.96	27.81	41.72	22.20	13.80	8.70	6.44	5.96	3.16	
25	2.70	3.39	6.68	5.72	23.85	34.92	21.24	13.20	8.44	6.44	5.48	3.16	
26	3.85	3.62	5.72	5.72	21.56	38.48	20.28	13.20	8.44	6.44	5.00	2.93	
27	3.62	3.16	5.48	6.20	27.15	38.48	19.64	13.20	8.44	6.20	5.00	2.93	
28	5.96	13.80	5.24	5.48	20.60	32.88	23.85	12.90	8.18	6.20	5.00	2.93	
29	3.85	9.48	5.24	5.24	73.74	29.82	22.86	12.61	8.18	6.20	4.77	2.93	
30	5.24	13.50	5.96	6.44	34.24	28.14	19.96	12.32	8.18	6.20		2.93	
31		14.10		9.74	86.95		19.32		7.92	6.20		2.93	
Total	103.13	203.01	236.68	309.58	616.46	1603.05	1007.53	529.20	302.62	216.66	167.81	115.21	5410.94 CMSDAY
Mean	3.44	6.55	7.89	9.99	19.89	53.44	32.50	17.64	9.76	6.99	5.79	3.72	14.78 CMS
Max	5.96	14.10	22.86	40.28	86.95	120.60	62.09	30.50	12.03	7.92	7.16	4.77	120.60 CMS
Min	2.70	3.16	5.00	5.24	7.92	28.14	19.32	12.32	7.92	6.20	4.77	2.93	2.70 CMS
Runoff	8.910	17.540	20.449	26.748	53.262	138.504	87.051	45.723	26.146	18.719	14.499	9.954	467.505 MCM

Momentary Peak 147.25 CMS, at 4.15 M (A.D), at 6.00 Hours, on Sep 15, 1995
Runoff Yield 14.24 Liters/Second/Square KM, Momentary Peak Yield 141.859 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

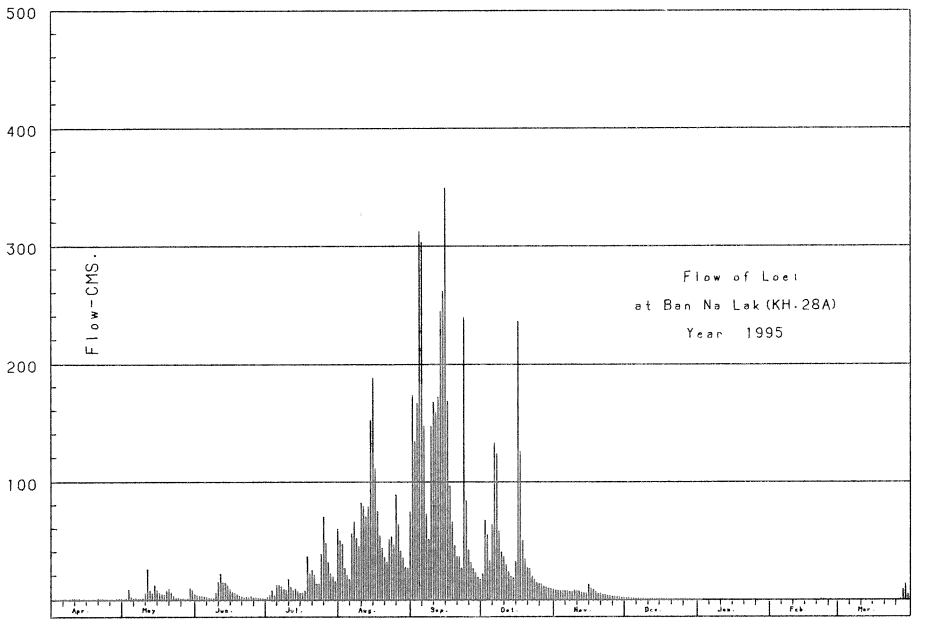
Loei River at Ban Na Lak, Loei (Kh.28A)

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	Staff gage.
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	5-time daily readings at 06.00, 09.00, 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 29 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.81	239.87	240.10	240.04	241.61	243.51	240.90	240.34	240.02	239.83	239.72	239.71	
2	239.80	239.87	240.10	240.12	241.55	243.00	241.96	240.32	240.02	239.82	239.72	239.71	
3	239.80	240.35	240.09	240.33	241.04	243.43	241.71	240.31	240.01	239.82	239.72	239.70	
4	239.80	240.05	240.08	240.12	240.86	244.98	241.21	240.30	240.00	239.82	239.72	239.70	
5	239.80	239.92	240.04	240.55	240.76	244.90	241.89	240.32	239.98	239.82	239.72	239.70	
6	239.80	239.97	240.01	240.55	241.73	243.17	242.98	240.30	239.97	239.81	239.71	239.69	
7	239.80	239.90	239.99	240.48	241.93	242.05	242.85	240.29	239.96	239.80	239.71	239.68	
8	239.81	239.86	239.98	240.38	241.66	241.64	241.77	240.26	239.95	239.79	239.71	239.68	
9	239.96	239.91	240.21	240.33	241.50	243.17	241.40	240.34	239.94	239.78	239.71	239.68	
10	239.92	240.20	240.66	240.75	242.22	243.44	241.30	240.30	239.94	239.78	239.71	239.68	
11	239.90	241.01	240.91	240.47	242.16	243.32	241.12	240.30	239.94	239.78	239.71	239.67	
12	239.89	240.32	240.64	240.31	242.02	243.49	240.95	240.24	239.93	239.78	239.70	239.67	
13	239.82	240.19	240.64	240.40	242.16	244.33	240.83	240.22	239.93	239.78	239.70	239.67	
14	239.81	240.54	240.51	240.28	243.24	244.50	240.81	240.20	239.92	239.78	239.70	239.66	
15	239.81	240.31	240.37	240.22	243.69	245.30	241.20	240.59	239.92	239.78	239.70	239.66	
16	239.80	240.21	240.26	240.21	242.67	243.45	244.24	240.41	239.91	239.77	239.70	239.65	
17	239.80	240.17	240.21	240.31	242.10	242.45	242.87	240.38	239.91	239.76	239.70	239.65	
18	239.80	240.12	240.16	241.31	241.70	241.93	241.62	240.27	239.90	239.76	239.70	239.65	
19	239.79	240.30	240.10	240.90	241.47	241.53	241.25	240.20	239.89	239.75	239.71	239.65	
20	239.97	240.38	240.08	240.99	241.29	241.30	241.05	240.20	239.89	239.75	239.75	239.65	
21	239.88	240.24	240.02	240.87	241.18	241.29	241.03	240.16	239.88	239.75	239.78	239.65	
22	239.81	240.09	240.06	240.61	241.63	241.04	240.84	240.15	239.88	239.74	239.90	239.65	
23	239.80	240.01	240.02	240.60	241.68	244.27	240.75	240.12	239.88	239.74	239.88	239.66	
24	239.80	239.97	240.09	241.35	241.53	242.24	240.65	240.10	239.87	239.74	239.81	239.66	
25	239.79	239.91	240.02	242.02	242.33	241.44	240.62	240.08	239.87	239.74	239.78	239.68	
26	239.79	239.90	240.02	241.57	241.89	241.17	240.59	240.07	239.86	239.74	239.75	239.86	
27	239.79	239.89	240.01	241.18	241.42	241.03	240.50	240.07	239.85	239.73	239.74	239.91	
28	239.89	239.91	239.99	240.90	241.27	240.92	240.46	240.06	239.85	239.73	239.73	240.38	
29	239.90	240.42	239.92	240.82	241.06	240.82	240.43	240.04	239.84	239.73	239.72	240.58	
30	239.92	240.33	239.92	240.69	241.03	240.75	240.40	240.03	239.84	239.73		240.16	
31		240.17		241.81	242.08		240.36		239.83	239.73		239.96	
Mean	239.84	240.14	240.17	240.69	241.76	242.66	241.31	240.23	239.92	239.77	239.73	239.76	
Max	239.97	241.01	240.91	242.02	243.69	245.30	244.24	240.59	240.02	239.83	239.90	240.58	245.30
Min	239.79	239.86	239.92	240.04	240.76	240.75	240.36	240.03	239.83	239.73	239.70	239.65	239.65

Annual Max Momentary Gage Height 245.60 M (MSL), at 18.00 Hours, on Sep 4, 1995
Zero Gage at Bottom Elevation 239.62 M (MSL), River Bed 239.21 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.24	1.48	4.00	2.80	50.50	173.80	22.50	8.80	2.40	1.32	0.88	0.84	
2	1.20	1.48	4.00	4.40	47.75	135.00	68.00	8.40	2.40	1.28	0.88	0.84	
3	1.20	9.00	3.80	8.60	27.40	167.40	55.50	8.20	2.20	1.28	0.88	0.80	
4	1.20	3.00	3.60	4.40	21.10	312.80	33.40	8.00	2.00	1.28	0.88	0.80	
5	1.20	1.68	2.80	13.00	18.00	304.00	64.50	8.40	1.92	1.28	0.88	0.80	
6	1.20	1.88	2.20	13.00	56.50	147.75	133.60	8.00	1.88	1.24	0.84	0.76	
7	1.20	1.60	1.96	11.60	66.50	73.00	124.50	7.80	1.84	1.20	0.84	0.72	
8	1.24	1.44	1.92	9.60	53.00	52.00	58.50	7.20	1.80	1.16	0.84	0.72	
9	1.84	1.64	6.20	8.60	45.50	147.75	41.00	8.80	1.76	1.12	0.84	0.72	
10	1.68	6.00	15.50	17.75	83.20	168.20	37.00	8.00	1.76	1.12	0.84	0.72	
11	1.60	26.35	22.85	11.40	79.60	159.00	30.20	8.00	1.76	1.12	0.84	0.68	
12	1.56	8.40	15.00	8.20	71.20	172.20	24.25	6.80	1.72	1.12	0.80	0.68	
13	1.28	5.80	15.00	10.00	79.60	245.35	20.05	6.40	1.72	1.12	0.80	0.68	
14	1.24	12.80	12.20	7.60	153.00	262.00	19.35	6.00	1.68	1.12	0.80	0.64	
15	1.24	8.20	9.40	6.40	188.65	350.00	33.00	13.80	1.68	1.12	0.80	0.64	
16	1.20	6.20	7.20	6.20	111.90	169.00	236.80	10.20	1.64	1.08	0.80	0.60	
17	1.20	5.40	6.20	8.20	76.00	97.25	125.90	9.60	1.64	1.04	0.80	0.60	
18	1.20	4.40	5.20	37.40	55.00	66.50	51.00	7.40	1.60	1.04	0.80	0.60	
19	1.16	8.00	4.00	22.50	44.15	46.85	35.00	6.00	1.56	1.00	0.84	0.60	
20	1.88	9.60	3.60	25.65	36.60	37.00	27.75	6.00	1.56	1.00	1.00	0.60	
21	1.52	6.80	2.40	21.45	32.30	36.60	27.05	5.20	1.52	1.00	1.12	0.60	
22	1.24	3.80	3.20	14.25	51.50	27.40	20.40	5.00	1.52	0.96	1.60	0.60	
23	1.20	2.20	2.40	14.00	54.00	239.65	17.75	4.40	1.52	0.96	1.52	0.64	
24	1.20	1.88	3.80	39.00	46.85	84.40	15.25	4.00	1.48	0.96	1.24	0.64	
25	1.16	1.64	2.40	71.20	89.80	42.80	14.50	3.60	1.48	0.96	1.12	0.72	
26	1.16	1.60	2.40	48.65	64.50	31.95	13.80	3.40	1.44	0.96	1.00	1.44	
27	1.16	1.56	2.20	32.30	41.90	27.05	12.00	3.40	1.40	0.92	0.96	1.64	
28	1.56	1.64	1.96	22.50	35.80	23.20	11.20	3.20	1.40	0.92	0.92	9.60	
29	1.60	10.40	1.68	19.70	28.10	19.70	10.60	2.80	1.36	0.92	0.88	13.60	
30	1.68	8.60	1.68	16.25	27.05	17.75	10.00	2.60	1.36	0.92		5.20	
31		5.40		60.50	74.80		9.20		1.32	0.92		1.84	
Total	40.24	169.87	170.75	597.10	1911.75	3837.35	1403.55	199.40	52.32	33.44	27.24	50.56	8493.57 CMSDAY
Mean	1.34	5.48	5.69	19.26	61.67	127.91	45.28	6.65	1.69	1.08	0.94	1.63	23.21 CMS
Max	1.88	26.35	22.85	71.20	188.65	350.00	236.80	13.80	2.40	1.32	1.60	13.60	350.00 CMS
Min	1.16	1.44	1.68	2.80	18.00	17.75	9.20	2.60	1.32	0.92	0.80	0.60	0.60 CMS
Runoff	3.477	14.677	14.753	51.589	165.175	331.547	121.267	17.228	4.520	2.889	2.354	4.368	733.845 MCM

Momentary Peak 388.00 CMS, at 245.60 M (MSL), at 18.00 Hours, on Sep 4, 1995
Runoff Yield 18.39 Liters/Second/Square KM, Momentary Peak Yield 307.448 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

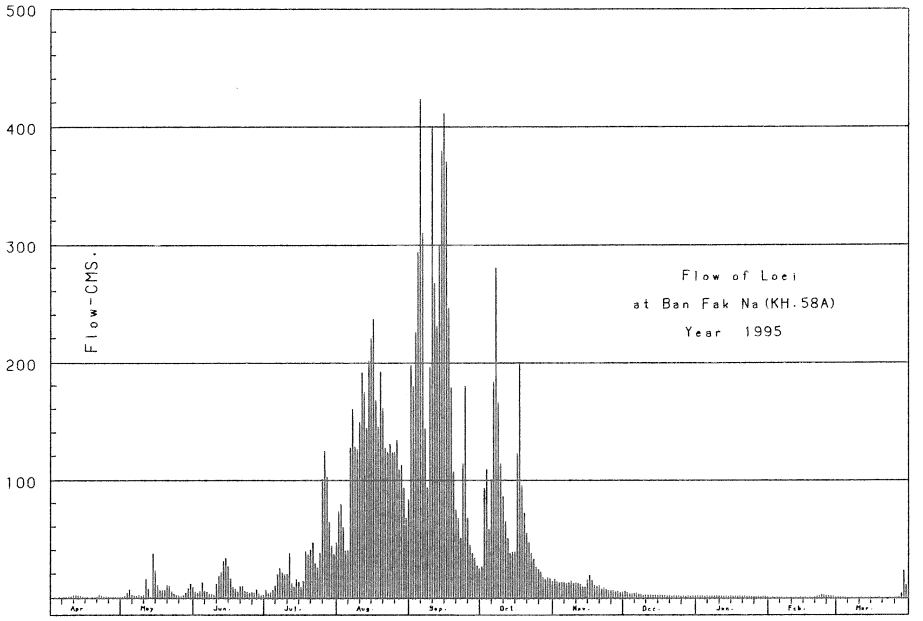
Loei River at Ban Fak Na, Loei (Kh.58A)

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	Staff gage.
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	5-time daily readings at 06.00, 09.00, 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	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 fair. Stage-discharge relation defined by 37 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.21	230.23	230.49	230.56	232.48	234.47	231.30	230.95	230.54	230.30	230.23	230.25	
2	230.19	230.26	230.45	230.44	232.61	234.22	232.86	230.85	230.47	230.30	230.23	230.25	
3	230.18	230.45	230.51	230.46	232.19	234.83	233.13	230.83	230.42	230.30	230.23	230.25	
4	230.18	230.58	230.83	230.58	231.68	235.62	232.15	230.83	230.41	230.30	230.23	230.25	
5	230.18	230.35	230.53	230.71	231.70	236.94	232.99	230.84	230.45	230.30	230.23	230.23	
6	230.19	230.28	230.48	231.09	233.44	235.79	234.27	230.79	230.44	230.30	230.23	230.20	
7	230.23	230.28	230.39	231.25	233.94	233.70	235.48	230.84	230.41	230.29	230.23	230.20	
8	230.24	230.32	230.36	231.14	233.45	232.87	234.02	230.88	230.39	230.30	230.22	230.21	
9	230.25	230.28	230.34	231.08	233.41	234.45	233.21	230.81	230.35	230.30	230.22	230.21	
10	230.30	230.33	230.77	231.10	233.78	236.70	232.74	230.81	230.35	230.30	230.22	230.20	
11	230.33	230.94	231.03	231.63	234.39	235.33	232.30	230.81	230.35	230.27	230.22	230.19	
12	230.30	230.62	231.13	230.79	234.15	234.89	231.96	230.77	230.35	230.28	230.22	230.20	
13	230.26	230.17	231.43	230.69	233.71	235.68	231.63	230.69	230.35	230.28	230.22	230.21	
14	230.22	231.62	231.51	230.93	234.52	236.50	231.66	230.67	230.34	230.28	230.23	230.23	
15	230.21	231.18	231.31	230.85	234.76	236.82	231.66	230.91	230.34	230.29	230.23	230.21	
16	230.20	230.73	230.96	230.66	234.97	236.41	233.36	231.07	230.34	230.29	230.23	230.20	
17	230.20	230.56	230.67	230.88	234.05	235.08	234.48	230.92	230.34	230.28	230.21	230.20	
18	230.20	230.54	230.61	231.67	233.72	234.21	232.90	230.73	230.32	230.28	230.22	230.20	
19	230.20	230.57	230.51	231.60	234.40	233.10	232.46	230.71	230.32	230.29	230.19	230.20	
20	230.20	230.74	230.71	231.71	233.95	232.51	232.07	230.72	230.32	230.29	230.23	230.19	
21	230.35	230.70	230.70	231.87	233.43	232.36	231.87	230.62	230.30	230.29	230.29	230.19	
22	230.28	230.51	230.54	231.39	233.37	231.96	231.63	230.64	230.31	230.28	230.30	230.18	
23	230.25	230.39	230.49	231.27	233.49	233.21	231.50	230.61	230.31	230.27	230.39	230.18	
24	230.24	230.34	230.46	231.64	233.37	234.22	231.29	230.55	230.30	230.28	230.35	230.18	
25	230.24	230.30	230.49	232.99	233.37	232.37	231.23	230.56	230.28	230.26	230.32	230.20	
26	230.24	230.28	230.45	233.39	233.54	231.81	231.16	230.55	230.28	230.26	230.30	230.21	
27	230.23	230.31	230.59	233.03	233.13	231.63	231.00	230.52	230.29	230.26	230.31	230.24	
28	230.22	230.46	230.41	232.29	233.19	231.51	230.93	230.52	230.30	230.26	230.28	230.44	
29	230.22	230.62	230.32	231.79	232.87	231.33	230.99	230.48	230.29	230.26	230.26	231.20	
30	230.22	230.79	230.34	231.60	232.36	231.24	230.97	230.49	230.29	230.27		230.75	
31		230.66		231.86	232.68		230.86		230.30	230.23		230.46	
Mean	230.23	230.53	230.66	231.39	233.42	234.06	232.26	230.73	230.35	230.28	230.25	230.27	
Max	230.35	231.62	231.51	233.39	234.97	236.94	235.48	231.07	230.54	230.30	230.39	231.20	236.94
Min	230.18	230.17	230.32	230.44	231.68	231.24	230.86	230.48	230.28	230.23	230.19	230.18	230.17

Annual Max Momentary Gage Height 237.00 M (MSL), at 18.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 229.00 M (MSL), River Bed 229.55 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.33	1.59	5.62	7.12	74.00	198.25	27.00	16.75	6.68	2.50	1.59	1.85	
2	1.15	1.98	4.90	4.72	80.50	180.40	93.60	14.25	5.26	2.50	1.59	1.85	
3	1.10	4.90	6.02	5.08	60.60	226.40	109.80	13.75	4.36	2.50	1.59	1.85	
4	1.10	7.56	13.75	7.56	40.30	293.90	59.00	13.75	4.18	2.50	1.59	1.85	
5	1.10	3.25	6.46	10.75	41.00	424.00	101.40	14.00	4.90	2.50	1.59	1.59	
6	1.15	2.24	5.44	20.70	128.40	310.05	183.90	12.75	4.72	2.50	1.59	1.20	
7	1.59	2.24	3.85	25.50	160.80	144.50	281.20	14.00	4.18	2.37	1.59	1.20	
8	1.72	2.80	3.40	22.20	129.00	94.20	166.40	15.00	3.85	2.50	1.46	1.33	
9	1.85	2.24	3.10	20.40	126.60	196.75	114.60	13.25	3.25	2.50	1.46	1.33	
10	2.50	2.95	12.25	21.00	149.70	400.00	87.00	13.25	3.25	2.50	1.46	1.20	
11	2.95	16.50	18.90	38.55	192.30	268.05	65.50	13.25	3.25	2.11	1.46	1.15	
12	2.50	8.50	21.90	12.75	175.50	231.20	51.40	12.25	3.25	2.24	1.46	1.20	
13	1.98	1.05	31.55	10.25	145.15	299.60	38.55	10.25	3.25	2.24	1.46	1.33	
14	1.46	38.20	34.35	16.25	202.00	380.00	39.60	9.75	3.10	2.24	1.59	1.59	
15	1.33	23.40	27.35	14.25	220.80	412.00	39.60	15.75	3.10	2.37	1.59	1.33	
16	1.20	11.25	17.00	9.50	237.60	371.00	123.60	20.10	3.10	2.37	1.59	1.20	
17	1.20	7.12	9.75	15.00	168.50	246.80	199.00	16.00	3.10	2.24	1.33	1.20	
18	1.20	6.68	8.25	39.95	145.80	179.70	96.00	11.25	2.80	2.24	1.46	1.20	
19	1.20	7.34	6.02	37.50	193.00	108.00	73.00	10.75	2.80	2.37	1.15	1.20	
20	1.20	11.50	10.75	41.40	161.50	75.50	55.80	11.00	2.80	2.37	1.59	1.15	
21	3.25	10.50	10.50	47.80	127.80	68.20	47.80	8.50	2.50	2.37	2.37	1.15	
22	2.24	6.02	6.68	30.15	124.20	51.40	38.55	9.00	2.65	2.24	2.50	1.10	
23	1.85	3.85	5.62	26.10	131.40	114.60	34.00	8.25	2.65	2.11	3.85	1.10	
24	1.72	3.10	5.08	38.90	124.20	180.40	26.70	6.90	2.50	2.24	3.25	1.10	
25	1.72	2.50	5.62	101.40	124.20	68.65	24.90	7.12	2.24	1.98	2.80	1.20	
26	1.72	2.24	4.90	125.40	134.40	45.40	22.80	6.90	2.24	1.98	2.50	1.33	
27	1.59	2.65	7.78	103.80	109.80	38.55	18.00	6.24	2.37	1.98	2.65	1.72	
28	1.46	5.08	4.18	65.05	113.40	34.35	16.25	6.24	2.50	1.98	2.24	4.72	
29	1.46	8.50	2.80	44.60	94.20	28.05	17.75	5.44	2.37	1.98	1.98	24.00	
30	1.46	12.75	3.10	37.50	68.20	25.20	17.25	5.62	2.37	2.11		11.75	
31		9.50		47.40	84.00		14.50		2.50	1.59		5.08	
Total	49.28	229.98	306.87	1048.53	4068.85	5695.10	2284.45	341.31	102.07	70.22	54.33	82.05	14333.04 CMSDAY
Mean	1.64	7.42	10.23	33.82	131.25	189.84	73.69	11.38	3.29	2.27	1.87	2.65	39.16 CMS
Max	3.25	38.20	34.35	125.40	237.60	424.00	281.20	20.10	6.68	2.50	3.85	24.00	424.00 CMS
Min	1.10	1.05	2.80	4.72	40.30	25.20	14.50	5.44	2.24	1.59	1.15	1.10	1.05 CMS
Runoff	4.258	19.870	26.514	90.593	351.549	492.057	197.376	29.489	8.819	6.067	4.694	7.089	1238.375 MCM

Momentary Peak 430.00 CMS, at 237.00 M (MSL), at 18.00 Hours, on Sep 15, 1995
Runoff Yield 12.63 Liters/Second/Square KM, Momentary Peak Yield 138.665 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

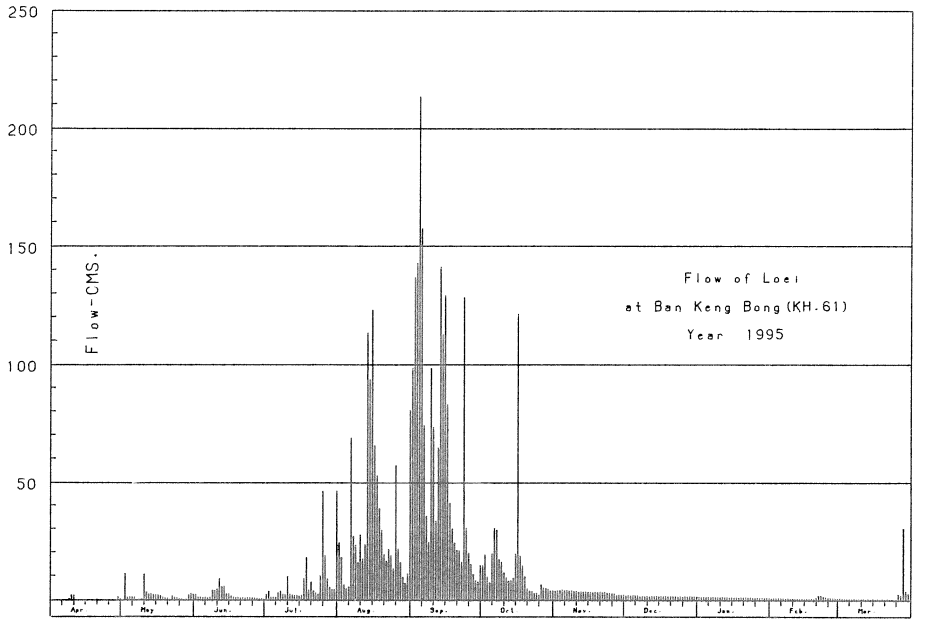
Loei River at Ban Keng Bong, Loei (Kh.61)

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	Staff gage.
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	5-time daily readings at 06.00, 09.00, 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	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 29 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	258.71	258.74	258.96	258.96	259.54	260.98	259.34	259.06	258.94	258.88	258.83	258.82	
2	258.69	259.28	258.87	259.05	259.39	261.56	259.41	259.06	258.94	258.88	258.83	258.82	
3	258.69	258.86	258.86	258.87	259.16	261.64	259.25	259.07	258.94	258.88	258.83	258.81	
4	258.66	258.86	258.85	258.86	259.10	262.57	259.19	259.08	258.94	258.88	258.83	258.81	
5	258.66	258.86	258.85	258.86	259.13	261.84	259.42	259.07	258.94	258.88	258.83	258.81	
6	258.69	258.86	258.84	259.01	260.48	260.57	259.69	259.07	258.93	258.88	258.82	258.81	
7	258.75	258.76	258.85	259.05	259.61	259.81	259.68	259.06	258.91	258.88	258.82	258.81	
8	258.78	258.76	259.07	258.97	259.51	259.54	259.38	259.06	258.91	258.88	258.82	258.81	
9	258.95	258.77	259.06	258.96	259.36	260.98	259.36	259.05	258.91	258.87	258.82	258.80	
10	258.92	259.28	259.09	259.25	259.62	260.56	259.30	259.05	258.91	258.87	258.82	258.80	
11	258.74	259.03	259.23	258.97	259.38	259.76	259.24	259.04	258.91	258.87	258.81	258.80	
12	258.71	258.98	259.13	258.95	259.52	260.40	259.21	259.04	258.91	258.87	258.81	258.80	
13	258.66	258.98	259.13	258.93	261.21	261.62	259.21	259.04	258.91	258.86	258.81	258.80	
14	258.66	258.96	258.99	258.94	260.90	261.20	259.24	259.04	258.91	258.86	258.81	258.80	
15	258.66	258.94	258.98	258.92	261.37	261.45	259.42	259.04	258.91	258.86	258.81	258.80	
16	258.66	258.94	258.92	258.93	260.42	260.72	261.33	259.03	258.91	258.86	258.81	258.79	
17	258.66	258.93	258.86	259.23	260.16	259.93	259.40	259.03	258.91	258.86	258.81	258.79	
18	258.66	258.86	258.85	259.39	259.88	259.69	259.34	259.03	258.91	258.86	258.81	258.79	
19	258.66	258.84	258.85	259.07	259.67	259.54	259.26	259.03	258.91	258.86	258.81	258.79	
20	258.76	258.82	258.84	259.20	259.41	259.46	259.10	259.03	258.91	258.86	258.85	258.79	
21	258.71	258.78	258.84	259.06	259.37	259.45	259.06	259.03	258.91	258.86	258.94	258.79	
22	258.69	258.91	258.84	259.01	259.47	259.36	259.05	259.03	258.90	258.86	258.93	258.79	
23	258.66	258.86	258.84	258.99	259.40	261.44	259.01	259.02	258.90	258.86	258.91	258.77	
24	258.66	258.83	258.84	259.26	259.32	259.69	259.01	259.01	258.90	258.85	258.87	258.76	
25	258.66	258.79	258.84	260.03	260.25	259.43	258.96	259.01	258.90	258.84	258.85	258.76	
26	258.66	258.76	258.82	259.40	259.47	259.35	259.16	258.99	258.90	258.84	258.83	258.98	
27	258.66	258.76	258.82	259.23	259.36	259.28	259.11	258.95	258.90	258.84	258.83	258.93	
28	258.69	258.76	258.81	259.12	259.25	259.21	259.11	258.95	258.90	258.84	258.82	259.69	
29	258.89	258.96	258.80	259.08	259.18	259.20	259.09	258.95	258.90	258.84	258.82	259.05	
30	258.76	258.99	258.80	259.08	259.28	259.34	259.06	258.95	258.90	258.84		259.00	
31		258.97		260.03	260.68		259.06		258.90	258.83		258.87	
Mean	258.71	258.89	258.91	259.12	259.74	260.32	259.30	259.03	258.91	258.86	258.83	258.85	
Max	258.95	259.28	259.23	260.03	261.37	262.57	261.33	259.08	258.94	258.88	258.94	259.69	262.57
Min	258.66	258.74	258.80	258.86	259.10	259.20	258.96	258.95	258.90	258.83	258.81	258.76	258.66

Annual Max Momentary Gage Height 262.86 M (MSL), at 6.00 Hours, on Oct 16, 1995
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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.44	2.52	2.52	24.60	98.80	14.80	4.20	2.28	1.60	1.10	1.00	
2	0.18	11.20	1.50	4.00	18.30	137.20	19.40	4.20	2.28	1.60	1.10	1.00	
3	0.18	1.40	1.40	1.50	6.80	143.00	10.00	4.40	2.28	1.60	1.10	0.90	
4	0.12	1.40	1.30	1.40	5.00	213.60	7.70	4.60	2.28	1.60	1.10	0.90	
5	0.12	1.40	1.30	1.40	5.90	158.00	19.80	4.40	2.28	1.60	1.10	0.90	
6	0.18	1.40	1.20	3.20	69.00	74.20	30.60	4.40	2.16	1.60	1.00	0.90	
7	0.50	0.56	1.30	4.00	27.40	35.95	30.20	4.20	1.92	1.60	1.00	0.90	
8	0.68	0.56	4.40	2.64	23.40	24.60	17.60	4.20	1.92	1.60	1.00	0.90	
9	2.40	0.62	4.20	2.52	16.20	98.80	16.20	4.00	1.92	1.50	1.00	0.80	
10	2.04	11.20	4.80	10.00	27.80	73.60	12.00	4.00	1.92	1.50	1.00	0.80	
11	0.44	3.60	9.20	2.64	17.60	33.70	9.60	3.80	1.92	1.50	0.90	0.80	
12	0.26	2.76	5.90	2.40	23.80	65.00	8.40	3.80	1.92	1.50	0.90	0.80	
13	0.12	2.76	5.90	2.16	113.65	141.50	8.40	3.80	1.92	1.40	0.90	0.80	
14	0.12	2.52	2.88	2.28	94.00	113.00	9.60	3.80	1.92	1.40	0.90	0.80	
15	0.12	2.28	2.76	2.04	124.05	129.50	19.80	3.80	1.92	1.40	0.90	0.80	
16	0.12	2.28	2.04	2.16	66.00	83.20	121.45	3.60	1.92	1.40	0.90	0.74	
17	0.12	2.16	1.40	9.20	53.00	41.50	19.00	3.60	1.92	1.40	0.90	0.74	
18	0.12	1.40	1.30	18.30	39.10	30.60	14.80	3.60	1.92	1.40	0.90	0.74	
19	0.12	1.20	1.30	4.40	29.80	24.60	10.40	3.60	1.92	1.40	0.90	0.74	
20	0.56	1.00	1.20	8.00	19.40	21.40	5.00	3.60	1.92	1.40	1.30	0.74	
21	0.26	0.68	1.20	4.20	16.90	21.00	4.20	3.60	1.92	1.40	2.28	0.74	
22	0.18	1.92	1.20	3.20	21.80	16.20	4.00	3.60	1.80	1.40	2.16	0.74	
23	0.12	1.40	1.20	2.88	19.00	128.80	3.20	3.40	1.80	1.40	1.92	0.62	
24	0.12	1.10	1.20	10.40	13.40	30.60	3.20	3.20	1.80	1.30	1.50	0.56	
25	0.12	0.74	1.20	46.50	57.50	20.20	2.52	3.20	1.80	1.20	1.30	0.56	
26	0.12	0.56	1.00	19.00	21.80	15.50	6.80	2.88	1.80	1.20	1.10	2.76	
27	0.12	0.56	1.00	9.20	16.20	11.20	5.30	2.40	1.80	1.20	1.10	2.16	
28	0.18	0.56	0.90	5.60	10.00	8.40	5.30	2.40	1.80	1.20	1.00	30.60	
29	1.70	2.52	0.80	4.60	7.40	8.00	4.80	2.40	1.80	1.20	1.00	4.00	
30	0.56	2.88	0.80	4.60	11.20	14.80	4.20	2.40	1.80	1.20		3.00	
31		2.64		46.50	80.80		4.20		1.80	1.10		1.50	
Total	12.24	67.70	68.30	243.44	1080.80	2016.45	452.47	109.08	60.36	43.80	33.26	63.94	4251.84 CMSDAY
Mean	0.41	2.18	2.28	7.85	34.86	67.21	14.60	3.64	1.95	1.41	1.15	2.06	11.62 CMS
Max	2.40	11.20	9.20	46.50	124.05	213.60	121.45	4.60	2.28	1.60	2.28	30.60	213.60 CMS
Min	0.12	0.44	0.80	1.40	5.00	8.00	2.52	2.40	1.80	1.10	0.90	0.56	0.12 CMS
Runoff	1.058	5.849	5.901	21.033	93.381	174.221	39.093	9.425	5.215	3.784	2.874	5.524	367.359 MCM

Momentary Peak 238.10 CMS, at 262.86 M (MSL), at 6.00 Hours, on Oct 16, 1995
Runoff Yield 20.67 Liters/Second/Square KM, Momentary Peak Yield 423.665 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

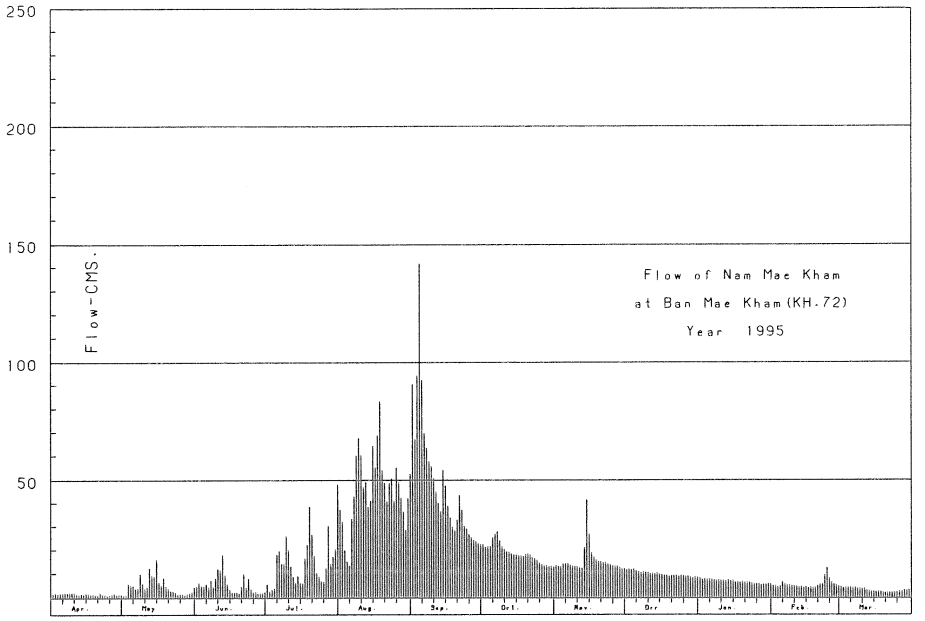
Nam Mae Kham at Ban Mae Kham, Chiang Rai (Kh.72)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 65 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.34	1.24	1.59	1.65	2.79	3.77	2.32	2.00	1.94	1.78	1.62	1.58	
2	1.35	1.22	1.67	1.43	2.64	3.45	2.29	1.99	1.94	1.76	1.61	1.56	
3	1.34	1.65	1.60	1.49	2.24	3.81	2.29	1.98	1.94	1.76	1.59	1.56	
4	1.34	1.61	1.58	1.52	2.06	4.24	2.30	2.03	1.94	1.76	1.59	1.57	
5	1.37	1.61	1.65	2.17	2.00	3.79	2.42	2.03	1.92	1.76	1.71	1.56	
6	1.37	1.50	1.56	2.23	2.67	3.49	2.47	2.03	1.90	1.76	1.65	1.56	
7	1.38	1.53	1.74	2.03	2.94	3.39	2.51	2.01	1.89	1.74	1.64	1.56	
8	1.39	1.86	1.58	2.02	3.33	3.28	2.38	1.99	1.90	1.74	1.63	1.54	
9	1.40	1.65	1.77	2.44	3.46	3.24	2.29	1.99	1.89	1.74	1.62	1.53	
10	1.37	1.51	1.95	2.24	3.33	3.13	2.26	1.98	1.88	1.74	1.61	1.53	
11	1.33	1.57	1.92	1.99	3.04	2.99	2.22	1.96	1.87	1.73	1.59	1.53	
12	1.30	1.96	2.17	1.80	3.10	2.87	2.21	1.96	1.87	1.73	1.58	1.49	
13	1.30	1.82	1.83	1.68	2.82	2.76	2.19	2.28	1.87	1.74	1.58	1.46	
14	1.31	1.81	1.65	1.82	2.90	3.21	2.17	2.91	1.88	1.73	1.57	1.45	
15	1.34	2.09	1.48	1.68	3.40	3.06	2.16	2.48	1.86	1.73	1.57	1.44	
16	1.33	1.69	1.41	1.66	3.23	2.83	2.16	2.20	1.84	1.70	1.56	1.44	
17	1.31	1.61	1.39	2.11	3.48	2.69	2.15	2.14	1.84	1.70	1.56	1.44	
18	1.30	1.79	1.39	2.32	3.68	2.57	2.15	2.09	1.83	1.70	1.56	1.44	
19	1.29	1.58	1.37	2.83	3.21	2.52	2.17	2.07	1.82	1.71	1.56	1.42	
20	1.27	1.52	1.59	2.46	3.09	2.66	2.19	2.06	1.82	1.70	1.62	1.41	
21	1.36	1.46	1.85	2.15	2.89	2.96	2.17	2.05	1.83	1.70	1.64	1.41	
22	1.30	1.44	1.55	1.88	3.08	2.79	2.13	2.05	1.83	1.70	1.66	1.41	
23	1.27	1.39	1.77	1.80	3.13	2.58	2.11	2.03	1.82	1.67	1.84	1.41	
24	1.25	1.31	1.51	1.72	2.89	2.55	2.09	2.01	1.83	1.66	1.97	1.42	
25	1.24	1.31	1.42	1.70	3.23	2.47	2.04	2.00	1.83	1.66	1.79	1.43	
26	1.31	1.32	1.42	1.96	3.09	2.42	2.01	1.99	1.81	1.65	1.70	1.45	
27	1.33	1.29	1.35	2.59	2.93	2.39	2.00	2.00	1.82	1.64	1.66	1.45	
28	1.28	1.32	1.36	2.02	2.76	2.36	2.00	1.97	1.80	1.64	1.63	1.48	
29	1.29	1.38	1.38	2.14	2.53	2.34	1.99	1.95	1.79	1.65	1.61	1.49	
30	1.28	1.41	1.41	2.25	2.92	2.32	1.99	1.95	1.80	1.66		1.48	
31		1.55		3.07	3.17		1.98		1.80	1.65		1.46	
Mean	1.32	1.55	1.60	2.03	2.97	2.96	2.19	2.07	1.86	1.71	1.64	1.48	
Max	1.40	2.09	2.17	3.07	3.68	4.24	2.51	2.91	1.94	1.78	1.97	1.58	4.24
Min	1.24	1.22	1.35	1.43	2.00	2.32	1.98	1.95	1.79	1.64	1.56	1.41	1.22

Annual Max Momentary Gage Height 4.78 M (A.D), at 9.00 Hours, on Sep 4, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.70 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.79	1.10	4.96	5.95	37.65	90.95	22.60	13.75	12.21	8.48	5.44	4.82	
2	1.88	0.98	6.29	2.71	32.40	67.50	21.72	13.49	12.21	8.06	5.27	4.53	
3	1.79	5.95	5.10	3.54	20.32	94.45	21.72	13.24	12.21	8.06	4.96	4.53	
4	1.79	5.27	4.82	3.96	15.37	142.20	22.00	14.56	12.21	8.06	4.96	4.67	
5	2.05	5.27	5.95	18.38	13.75	92.65	25.60	14.56	11.69	8.06	7.01	4.53	
6	2.05	3.68	4.53	20.04	33.45	69.90	27.10	14.56	11.18	8.06	5.95	4.53	
7	2.13	4.11	7.64	14.56	43.10	63.95	28.30	14.02	10.95	7.64	5.78	4.53	
8	2.22	10.27	4.82	14.29	60.65	58.00	24.40	13.49	11.18	7.64	5.61	4.25	
9	2.30	5.95	8.27	26.20	68.10	56.00	21.72	13.49	10.95	7.64	5.44	4.11	
10	2.05	3.82	12.47	20.32	60.65	50.85	20.88	13.24	10.72	7.64	5.27	4.11	
11	1.71	4.67	11.69	13.49	47.10	45.10	19.76	12.72	10.50	7.43	4.96	4.11	
12	1.45	12.72	18.38	8.90	49.50	40.45	19.48	12.72	10.50	7.43	4.82	3.54	
13	1.45	9.36	9.58	6.46	38.70	36.60	18.93	21.44	10.50	7.64	4.82	3.13	
14	1.53	9.13	5.95	9.36	41.50	54.50	18.38	41.90	10.72	7.43	4.67	2.99	
15	1.79	16.18	3.40	6.46	64.50	47.90	18.10	27.40	10.27	7.43	4.67	2.85	
16	1.71	6.63	2.44	6.12	55.50	39.05	18.10	19.20	9.81	6.80	4.53	2.85	
17	1.53	5.27	2.22	16.72	69.30	34.15	17.83	17.55	9.81	6.80	4.53	2.85	
18	1.45	8.69	2.22	22.60	83.50	30.10	17.83	16.18	9.58	6.80	4.53	2.85	
19	1.39	4.82	2.05	39.05	54.50	28.60	18.38	15.64	9.36	7.01	4.53	2.58	
20	1.27	3.96	4.96	26.80	49.10	33.10	18.93	15.37	9.36	6.80	5.44	2.44	
21	1.96	3.13	10.04	17.83	41.15	43.90	18.38	15.10	9.58	6.80	5.78	2.44	
22	1.45	2.85	4.39	10.72	48.70	37.65	17.28	15.10	9.58	6.80	6.12	2.44	
23	1.27	2.22	8.27	8.90	50.85	30.40	16.72	14.56	9.36	6.29	9.81	2.44	
24	1.16	1.53	3.82	7.22	41.15	29.50	16.18	14.02	9.58	6.12	12.98	2.58	
25	1.10	1.53	2.58	6.80	55.50	27.10	14.83	13.75	9.58	6.12	8.69	2.71	
26	1.53	1.62	2.58	12.72	49.10	25.60	14.02	13.49	9.13	5.95	6.80	2.99	
27	1.71	1.39	1.88	30.70	42.70	24.70	13.75	13.75	9.36	5.78	6.12	2.99	
28	1.33	1.62	1.96	14.29	36.60	23.80	13.75	12.98	8.90	5.78	5.61	3.40	
29	1.39	2.13	2.13	17.55	28.90	23.20	13.49	12.47	8.69	5.95	5.27	3.54	
30	1.33	2.44	2.44	20.60	42.30	22.60	13.49	12.47	8.90	6.12		3.40	
31		4.39		48.30	52.65		13.24		8.90	5.95		3.13	
Total	49.56	152.68	167.83	481.54	1428.24	1464.45	586.89	476.21	317.48	218.57	170.37	106.86	5620.68 CMSDAY
Mean	1.65	4.93	5.59	15.53	46.07	48.81	18.93	15.87	10.24	7.05	5.87	3.45	15.36 CMS
Max	2.30	16.18	18.38	48.30	83.50	142.20	28.30	41.90	12.21	8.48	12.98	4.82	142.20 CMS
Min	1.10	0.98	1.88	2.71	13.75	22.60	13.24	12.47	8.69	5.78	4.53	2.44	0.98 CMS
Runoff	4.282	13.192	14.501	41.605	123.400	126.528	50.707	41.145	27.430	18.884	14.720	9.233	485.627 MCM

Momentary Peak 226.50 CMS, at 4.78 M (A.D), at 9.00 Hours, on Sep 4, 1995
Runoff Yield 23.85 Liters/Second/Square KM, Momentary Peak Yield 351.708 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

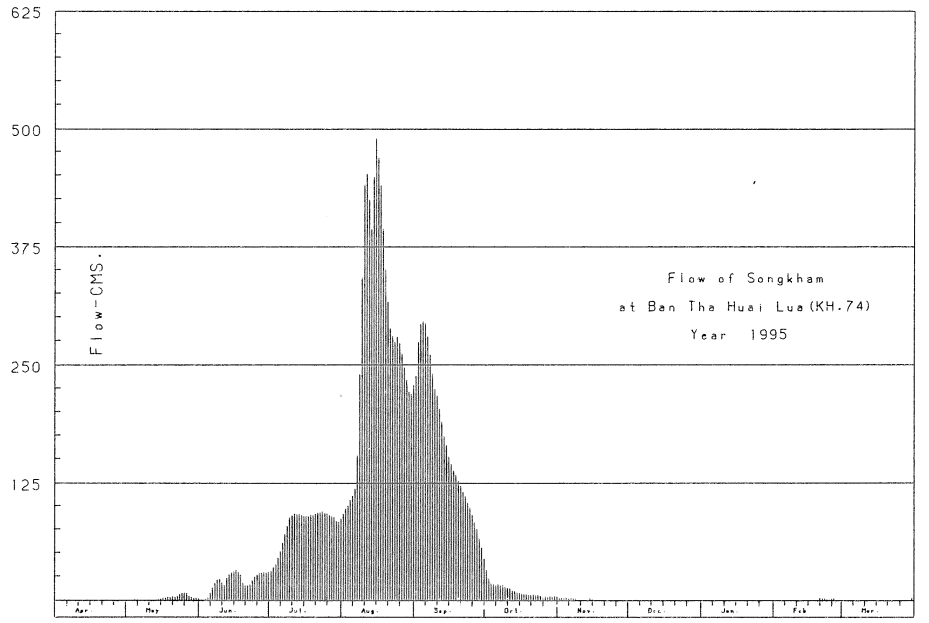
Songkram River at Ban Tha Huai Lua, Sakon Nakhon (Kh.74)

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 fair. The weir situated about 10 kilometers downstream from the gage site. Stage-discharge relation defined by 89 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.89	1.90	1.93	3.18	6.26	9.44	4.13	2.05	1.98	1.93	1.95	1.97	
2	1.89	1.90	1.91	3.34	6.74	9.62	3.46	2.04	1.98	1.93	1.94	1.96	
3	1.89	1.89	1.94	3.55	7.09	9.71	3.12	2.04	1.98	1.93	1.92	1.96	
4	1.89	1.89	2.06	3.86	7.42	9.72	3.00	2.04	1.97	1.92	1.90	1.95	
5	1.90	1.89	2.29	4.23	7.69	9.71	2.93	2.03	1.97	1.92	1.90	1.94	
6	1.89	1.89	2.50	4.65	8.00	9.65	3.00	2.03	1.97	1.93	1.90	1.94	
7	1.89	1.89	2.69	5.00	8.83	9.56	2.93	2.03	1.97	1.93	1.90	1.93	
8	1.89	1.89	2.79	5.38	9.45	9.45	2.89	2.02	1.97	1.93	1.90	1.92	
9	1.90	1.90	2.83	5.73	9.91	9.36	2.81	1.99	1.97	1.93	1.90	1.92	
10	1.90	1.90	2.69	6.01	10.19	9.31	2.75	1.98	1.97	1.93	1.90	1.91	
11	1.90	1.90	2.63	6.18	10.22	9.23	2.62	1.98	1.96	1.93	1.90	1.91	
12	1.90	1.90	2.85	6.23	10.15	9.14	2.51	1.98	1.94	1.93	1.91	1.92	
13	1.90	1.91	3.00	6.18	10.07	9.04	2.41	1.99	1.93	1.93	1.91	1.93	
14	1.90	1.93	3.07	6.05	10.21	8.95	2.33	2.01	1.93	1.93	1.91	1.92	
15	1.90	1.96	3.16	5.88	10.31	8.82	2.27	2.00	1.92	1.92	1.90	1.92	
16	1.90	2.01	3.20	5.78	10.26	8.70	2.23	1.99	1.93	1.92	1.90	1.92	
17	1.89	2.04	3.14	5.81	10.19	8.57	2.23	1.99	1.93	1.90	1.90	1.93	
18	1.88	2.06	2.96	5.93	10.07	8.44	2.21	1.98	1.93	1.90	1.90	1.93	
19	1.88	2.07	2.70	6.01	9.94	8.30	2.21	1.98	1.94	1.90	1.96	1.92	
20	1.88	2.08	2.58	6.15	9.81	8.14	2.20	1.98	1.94	1.90	2.03	1.92	
21	1.89	2.10	2.58	6.31	9.69	7.97	2.19	1.97	1.94	1.90	2.03	1.91	
22	1.89	2.13	2.65	6.41	9.65	7.79	2.18	1.96	1.94	1.92	2.01	1.90	
23	1.88	2.20	2.79	6.44	9.62	7.59	2.16	1.95	1.94	1.93	2.00	1.90	
24	1.88	2.26	2.90	6.36	9.65	7.39	2.16	1.95	1.94	1.92	2.01	1.90	
25	1.89	2.27	2.98	6.19	9.62	7.14	2.14	1.95	1.94	1.91	2.04	1.89	
26	1.89	2.26	3.04	6.01	9.56	6.82	2.12	1.95	1.94	1.92	2.03	1.89	
27	1.89	2.14	3.07	5.82	9.49	6.51	2.11	1.95	1.94	1.94	1.99	1.90	
28	1.89	2.06	3.09	5.73	9.41	6.08	2.11	1.96	1.94	1.95	1.98	1.90	
29	1.90	2.02	3.09	5.60	9.34	5.55	2.11	1.97	1.93	1.95	1.97	1.95	
30	1.90	2.00	3.11	5.52	9.32	4.89	2.11	1.98	1.93	1.95		2.04	
31		2.00		5.67	9.38		2.10		1.93	1.95		2.05	
Mean	1.89	2.01	2.74	5.52	9.28	8.35	2.51	1.99	1.95	1.93	1.94	1.93	
Max	1.90	2.27	3.20	6.44	10.31	9.72	4.13	2.05	1.98	1.95	2.04	2.05	10.31
Min	1.88	1.89	1.91	3.18	6.26	4.89	2.10	1.95	1.92	1.90	1.90	1.89	1.88

Annual Max Momentary Gage Height 10.32 M (A.D), at 1.00 Hours, on Aug 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.29 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.90	1.00	1.45	31.60	92.60	239.20	32.95	3.12	0.00	0.00	0.00	0.00	
2	0.90	1.00	1.15	34.80	97.40	274.40	23.25	2.90	0.00	0.00	0.00	0.00	
3	0.90	0.90	1.60	39.00	101.35	294.40	19.00	2.90	0.00	0.00	0.00	0.00	
4	0.90	0.90	3.55	45.20	106.40	296.80	17.50	2.90	0.00	0.00	0.00	0.00	
5	1.00	0.90	8.52	52.60	111.80	294.40	16.63	2.67	0.00	0.00	0.00	0.00	
6	0.90	0.90	13.50	61.63	120.00	281.00	17.50	2.67	0.00	0.00	0.00	0.00	
7	0.90	0.90	18.70	70.00	154.40	262.00	16.63	2.67	0.00	0.00	0.00	0.00	
8	0.90	0.90	21.70	79.50	241.00	241.00	16.13	2.45	0.00	0.00	0.00	0.00	
9	1.00	1.00	22.90	88.25	343.00	225.60	15.13	0.00	0.00	0.00	0.00	0.00	
10	1.00	1.00	18.70	91.05	441.00	217.60	14.38	0.00	0.00	0.00	0.00	0.00	
11	1.00	1.00	16.90	91.90	453.00	204.80	12.75	0.00	0.00	0.00	0.00	0.00	
12	1.00	1.00	23.50	92.30	425.00	190.40	11.38	0.00	0.00	0.00	0.00	0.00	
13	1.00	1.15	28.00	91.90	394.50	175.60	10.13	0.00	0.00	0.00	0.00	0.00	
14	1.00	1.45	29.40	91.25	449.00	165.00	9.13	2.23	0.00	0.00	0.00	0.00	
15	1.00	1.90	31.20	90.40	490.50	153.60	8.08	2.00	0.00	0.00	0.00	0.00	
16	1.00	2.68	32.00	89.50	469.00	145.00	7.18	0.00	0.00	0.00	0.00	0.00	
17	0.90	3.20	30.80	90.05	441.00	138.80	7.18	0.00	0.00	0.00	0.00	0.00	
18	0.80	3.55	26.80	90.65	394.50	133.60	6.73	0.00	0.00	0.00	0.00	0.00	
19	0.80	3.73	19.00	91.05	352.00	128.00	6.73	0.00	0.00	0.00	0.00	0.00	
20	0.80	3.90	15.50	91.75	318.40	121.90	6.50	0.00	0.00	0.00	2.67	0.00	
21	0.90	4.25	15.50	93.10	289.80	116.10	6.28	0.00	0.00	0.00	2.67	0.00	
22	0.90	4.93	17.50	94.10	281.00	110.70	6.05	0.00	0.00	0.00	2.23	0.00	
23	0.80	6.50	21.70	94.40	274.40	104.70	5.60	0.00	0.00	0.00	2.00	0.00	
24	0.80	7.85	25.00	93.60	281.00	98.72	5.60	0.00	0.00	0.00	2.23	0.00	
25	0.90	8.07	27.40	91.95	274.40	91.85	5.15	0.00	0.00	0.00	2.90	0.00	
26	0.90	7.85	28.80	91.05	262.00	83.50	4.70	0.00	0.00	0.00	2.67	0.00	
27	0.90	5.15	29.40	90.10	248.20	75.75	4.47	0.00	0.00	0.00	0.00	0.00	
28	0.90	3.55	29.80	88.25	233.80	66.60	4.47	0.00	0.00	0.00	0.00	0.00	
29	1.00	2.85	29.80	85.00	222.40	56.00	4.47	0.00	0.00	0.00	0.00	0.00	
30	1.00	2.50	30.20	83.00	219.20	44.35	4.47	0.00	0.00	0.00		2.90	
31		2.50		86.75	228.80		4.25		0.00	0.00		3.12	
Total	27.60	88.96	619.97	2495.68	8810.85	5031.37	330.40	26.51	0.00	0.00	17.37	6.02	17454.73 CMSDAY
Mean	0.92	2.87	20.67	80.51	284.22	167.71	10.66	0.88	0.00	0.00	0.60	0.19	47.69 CMS
Max	1.00	8.07	32.00	94.40	490.50	296.80	32.95	3.12	0.00	0.00	2.90	3.12	490.50 CMS
Min	0.80	0.90	1.15	31.60	92.60	44.35	4.25	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	2.385	7.686	53.565	215.627	761.257	434.711	28.547	2.290	0.000	0.000	1.501	0.520	1508.089 MCM

Momentary Peak 496.00 CMS, at 10.32 M (A.D), at 1.00 Hours, on Aug 15, 1995
Runoff Yield 22.23 Liters/Second/Square KM, Momentary Peak Yield 231.235 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

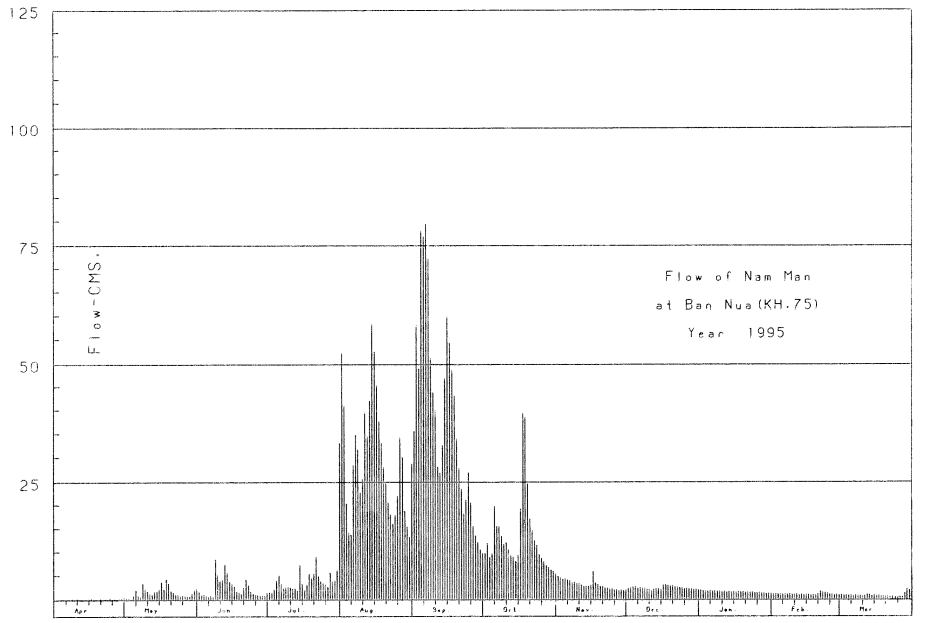
Nam Man at Ban Nua, Loei (Kh.75)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	348.73	348.88	349.48	349.45	353.15	352.52	350.80	350.18	349.71	349.63	349.35	349.25	
2	348.75	348.85	349.27	349.45	352.73	353.33	351.00	350.12	349.72	349.62	349.35	349.24	
3	348.72	348.85	349.27	349.65	351.73	353.04	350.71	350.09	349.78	349.60	349.35	349.23	
4	348.77	349.15	349.21	350.02	351.23	353.90	350.78	350.08	349.79	349.60	349.34	349.22	
5	348.75	349.64	349.12	350.21	351.20	353.87	351.69	350.07	349.72	349.60	349.33	349.22	
6	348.72	349.12	349.16	349.88	352.18	353.94	351.38	350.02	349.74	349.59	349.33	349.20	
7	348.79	349.07	349.07	349.72	352.49	353.74	351.36	349.96	349.72	349.59	349.33	349.22	
8	348.83	349.93	350.66	349.74	352.35	353.11	351.17	349.95	349.71	349.58	349.32	349.22	
9	348.88	349.67	350.22	349.77	351.87	352.85	350.98	349.93	349.69	349.57	349.32	349.19	
10	348.82	349.59	350.04	349.76	352.04	352.69	351.03	349.92	349.64	349.55	349.32	349.18	
11	348.81	349.32	350.04	349.68	352.68	352.17	350.87	349.84	349.61	349.54	349.30	349.17	
12	348.79	349.31	350.52	349.71	352.47	352.10	350.75	349.81	349.66	349.53	349.28	349.34	
13	348.75	349.50	350.26	349.59	352.78	352.40	350.69	349.79	349.70	349.53	349.27	349.26	
14	348.73	349.57	350.00	350.50	353.34	352.96	350.60	349.82	349.68	349.53	349.27	349.21	
15	348.85	349.64	349.87	349.88	353.16	353.39	350.74	349.83	349.67	349.53	349.26	349.23	
16	348.82	349.97	349.77	349.65	352.90	353.22	351.64	350.32	349.83	349.53	349.26	349.22	
17	348.77	349.68	349.56	349.87	352.60	353.03	352.67	349.96	349.88	349.52	349.25	349.20	
18	348.75	350.09	349.45	350.24	352.42	352.82	352.63	349.86	349.83	349.52	349.24	349.17	
19	348.75	349.91	349.34	350.11	352.16	352.45	351.99	349.81	349.82	349.51	349.24	349.12	
20	348.82	349.61	349.73	350.24	352.00	352.15	351.51	349.77	349.81	349.51	349.32	349.14	
21	348.79	349.44	350.07	350.71	351.74	351.93	351.28	349.74	349.79	349.50	349.60	349.12	
22	348.77	349.30	349.85	350.18	351.56	351.58	351.08	349.72	349.76	349.50	349.44	349.08	
23	348.86	349.26	349.52	350.00	351.43	351.77	350.96	349.70	349.75	349.49	349.50	349.06	
24	348.89	349.18	349.38	349.94	351.55	352.11	350.78	349.67	349.72	349.48	349.41	349.05	
25	348.85	349.18	349.33	349.85	351.82	351.73	350.68	349.65	349.71	349.46	349.34	349.06	
26	348.78	349.19	349.21	349.77	352.46	351.36	350.58	349.63	349.70	349.46	349.31	349.04	
27	348.82	349.08	349.19	350.28	352.27	351.18	350.49	349.62	349.69	349.45	349.28	349.08	
28	348.79	349.14	349.15	349.98	351.62	351.02	350.42	349.62	349.68	349.42	349.27	349.42	
29	348.86	349.36	349.17	350.04	351.36	350.88	350.36	349.62	349.67	349.39	349.25	349.67	
30	349.00	349.65	349.39	350.36	351.15	350.79	350.30	349.62	349.66	349.37		349.64	
31		349.69		352.42	352.20		350.24		349.65	349.36		349.41	
Mean	348.80	349.41	349.61	350.02	352.15	352.47	351.04	349.86	349.73	349.52	349.33	349.22	
Max	349.00	350.09	350.66	352.42	353.34	353.94	352.67	350.32	349.88	349.63	349.60	349.67	353.94
Min	348.72	348.85	349.07	349.45	351.15	350.79	350.24	349.62	349.61	349.36	349.24	349.04	348.72

Annual Max Momentary Gage Height 354.22 M (MSL), at 6.00 Hours, on Sep 4, 1995
Zero Gage at Bottom Elevation 346.57 M (MSL), River Bed 348.04 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.42	1.70	1.63	52.50	36.00	10.00	5.17	2.55	2.15	1.37	1.12	
2	0.22	0.38	1.17	1.63	41.25	58.22	12.00	4.78	2.60	2.10	1.37	1.10	
3	0.18	0.38	1.17	2.25	20.70	49.20	9.23	4.58	2.90	2.00	1.37	1.07	
4	0.25	0.90	1.02	4.13	14.30	78.25	9.83	4.52	2.95	2.00	1.35	1.05	
5	0.22	2.20	0.84	5.37	14.00	77.12	20.10	4.46	2.60	2.00	1.32	1.05	
6	0.18	0.84	0.92	3.40	28.60	79.75	15.80	4.13	2.70	1.97	1.32	1.00	
7	0.29	0.74	0.74	2.60	35.25	72.25	15.60	3.80	2.60	1.97	1.32	1.05	
8	0.34	3.65	8.81	2.70	32.00	51.30	13.70	3.75	2.55	1.95	1.30	1.05	
9	0.42	2.35	5.45	2.85	22.80	44.25	11.80	3.65	2.45	1.93	1.30	0.98	
10	0.33	1.97	4.26	2.80	25.80	40.25	12.30	3.60	2.20	1.87	1.30	0.96	
11	0.31	1.30	4.26	2.40	40.00	28.40	10.70	3.20	2.05	1.85	1.25	0.94	
12	0.29	1.27	7.70	2.55	34.75	27.00	9.58	3.05	2.30	1.82	1.20	1.35	
13	0.22	1.75	5.75	1.97	42.50	33.00	9.07	2.95	2.50	1.82	1.17	1.15	
14	0.20	1.93	4.00	7.55	58.55	47.00	8.30	3.10	2.40	1.82	1.17	1.02	
15	0.38	2.20	3.35	3.40	52.80	60.18	9.49	3.15	2.35	1.82	1.15	1.07	
16	0.33	3.85	2.85	2.25	45.50	54.65	19.35	6.20	3.15	1.82	1.15	1.05	
17	0.25	2.40	1.90	3.35	38.00	48.90	39.75	3.80	3.40	1.80	1.12	1.00	
18	0.22	4.58	1.63	5.60	33.50	43.50	38.75	3.30	3.15	1.80	1.10	0.94	
19	0.22	3.55	1.35	4.71	28.20	34.25	24.82	3.05	3.10	1.78	1.10	0.84	
20	0.33	2.05	2.65	5.60	25.00	28.00	17.40	2.85	3.05	1.78	1.30	0.88	
21	0.29	1.60	4.46	9.23	20.85	23.77	14.80	2.70	2.95	1.75	2.00	0.84	
22	0.25	1.25	3.25	5.17	18.15	18.45	12.80	2.60	2.80	1.75	1.60	0.76	
23	0.39	1.15	1.80	4.00	16.37	21.30	11.60	2.50	2.75	1.72	1.75	0.72	
24	0.44	0.96	1.45	3.70	18.00	27.20	9.83	2.35	2.60	1.70	1.52	0.70	
25	0.38	0.96	1.32	3.25	22.05	20.70	8.98	2.25	2.55	1.65	1.35	0.72	
26	0.27	0.98	1.02	2.85	34.50	15.60	8.15	2.15	2.50	1.65	1.27	0.68	
27	0.33	0.76	0.98	5.90	30.40	13.80	7.47	2.10	2.45	1.63	1.20	0.76	
28	0.29	0.88	0.90	3.90	19.05	12.20	6.95	2.10	2.40	1.55	1.17	1.55	
29	0.39	1.40	0.94	4.26	15.60	10.80	6.50	2.10	2.35	1.48	1.12	2.35	
30	0.60	2.25	1.48	6.50	13.50	9.92	6.05	2.10	2.30	1.42		2.20	
31		2.45		33.50	29.00		5.60		2.25	1.40		1.52	
Total	9.01	53.35	79.12	151.00	923.47	1165.21	416.30	100.04	81.45	55.75	38.01	33.47	3106.18 CMSDAY
Mean	0.30	1.72	2.64	4.87	29.79	38.84	13.43	3.33	2.63	1.80	1.31	1.08	8.49 CMS
Max	0.60	4.58	8.81	33.50	58.55	79.75	39.75	6.20	3.40	2.15	2.00	2.35	79.75 CMS
Min	0.18	0.38	0.74	1.63	13.50	9.92	5.60	2.10	2.05	1.40	1.10	0.68	0.18 CMS
Runoff	0.778	4.609	6.836	13.046	79.788	100.674	35.968	8.643	7.037	4.817	3.284	2.892	268.374 MCM

Momentary Peak 90.80 CMS, at 354.22 M (MSL), at 6.00 Hours, on Sep 4, 1995
Runoff Yield 22.04 Liters/Second/Square KM, Momentary Peak Yield 235.844 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

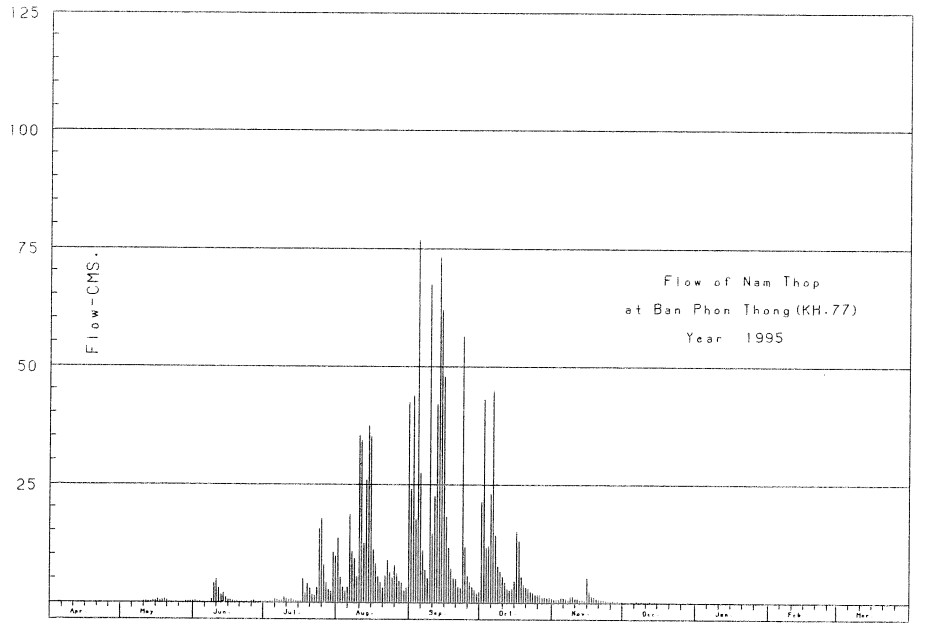
Nam Thop at Ban Phon Thong, Loei (Kh.77)

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	Staff gage.
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	5-time daily readings at 06.00, 09.00, 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 19 discharge measurements in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.73	257.70	257.95	257.89	259.09	259.47	259.38	258.03	257.87	257.77	257.75	257.74	
2	257.73	257.70	257.90	257.88	258.60	260.00	259.98	258.01	257.87	257.77	257.75	257.75	
3	257.73	257.70	257.88	257.88	258.42	259.26	258.99	258.04	257.86	257.77	257.73	257.72	
4	257.73	257.72	257.86	257.91	258.30	260.63	259.00	258.08	257.85	257.77	257.72	257.72	
5	257.73	257.78	257.85	258.04	258.42	259.59	259.44	258.10	257.87	257.77	257.72	257.72	
6	257.73	257.77	257.83	257.99	259.29	258.96	260.02	258.04	257.89	257.77	257.72	257.72	
7	257.73	257.79	257.83	257.96	258.94	258.71	259.12	258.01	257.89	257.77	257.72	257.72	
8	257.74	257.81	258.03	257.93	258.87	258.59	258.77	258.13	257.88	257.75	257.72	257.72	
9	257.74	257.85	258.50	258.12	258.62	260.47	258.69	258.13	257.89	257.75	257.72	257.72	
10	257.74	257.87	258.56	258.03	259.79	259.13	258.62	258.07	257.89	257.76	257.72	257.72	
11	257.73	257.93	258.39	258.00	259.76	259.42	258.51	258.04	257.89	257.76	257.72	257.70	
12	257.73	257.91	258.21	258.05	259.03	259.95	258.38	258.01	257.88	257.76	257.72	257.70	
13	257.73	257.91	258.25	257.95	259.54	260.57	258.32	257.99	257.88	257.76	257.71	257.71	
14	257.72	257.92	258.12	257.95	259.84	260.36	258.38	257.98	257.88	257.76	257.71	257.71	
15	257.72	257.96	258.02	257.92	259.78	260.08	258.53	258.60	257.88	257.76	257.71	257.72	
16	257.71	258.02	257.97	257.92	258.97	259.28	259.16	258.29	257.87	257.76	257.71	257.72	
17	257.72	257.95	257.92	258.58	258.80	258.99	259.06	258.16	257.82	257.75	257.71	257.72	
18	257.72	257.97	257.91	258.24	258.62	258.73	258.62	258.11	257.82	257.75	257.71	257.72	
19	257.71	258.04	257.89	258.48	258.51	258.59	258.47	258.06	257.81	257.75	257.71	257.72	
20	257.71	257.95	257.89	258.39	258.40	258.57	258.42	258.02	257.81	257.75	257.74	257.72	
21	257.70	257.89	257.88	258.20	258.63	258.41	258.38	258.01	257.79	257.75	257.75	257.70	
22	257.70	257.87	257.87	258.18	258.85	258.40	258.31	257.98	257.79	257.75	257.75	257.68	
23	257.71	257.84	257.86	258.41	258.67	260.25	258.26	257.96	257.79	257.75	257.75	257.69	
24	257.71	257.83	257.86	259.19	258.60	258.99	258.22	257.95	257.79	257.74	257.75	257.69	
25	257.71	257.83	257.88	259.26	258.78	258.63	258.22	257.93	257.78	257.74	257.75	257.69	
26	257.71	257.83	257.97	258.78	258.66	258.52	258.20	257.92	257.78	257.74	257.74	257.69	
27	257.71	257.84	257.90	258.50	258.54	258.42	258.11	257.91	257.77	257.74	257.74	257.73	
28	257.72	257.90	257.88	258.36	258.50	258.34	258.10	257.91	257.77	257.74	257.74	257.80	
29	257.71	257.92	257.88	258.29	258.33	258.25	258.10	257.89	257.77	257.74	257.74	257.79	
30	257.71	257.89	257.89	258.94	258.39	258.28	258.09	257.88	257.77	257.74		257.78	
31		257.93		258.89	259.96		258.05		257.78	257.74		257.78	
Mean	257.72	257.87	257.99	258.26	258.89	259.19	258.64	258.04	257.83	257.75	257.73	257.72	
Max	257.74	258.04	258.56	259.26	259.96	260.63	260.02	258.60	257.89	257.77	257.75	257.80	260.63
Min	257.70	257.70	257.83	257.88	258.30	258.25	258.05	257.88	257.77	257.74	257.71	257.68	257.68

Annual Max Momentary Gage Height 261.41 M (MSL), at 6.00 Hours, on Sep 4, 1995
Zero Gage at Bottom Elevation 257.40 M (MSL), River Bed 256.88 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.00	0.55	0.37	13.80	24.10	21.40	0.85	0.31	0.07	0.05	0.04	
2	0.03	0.00	0.40	0.34	5.40	44.00	43.20	0.75	0.31	0.07	0.05	0.05	
3	0.03	0.00	0.34	0.34	3.40	17.80	11.80	0.90	0.28	0.07	0.03	0.02	
4	0.03	0.02	0.28	0.43	2.40	76.80	12.00	1.10	0.25	0.07	0.02	0.02	
5	0.03	0.08	0.25	0.90	3.40	27.70	23.20	1.20	0.31	0.07	0.02	0.02	
6	0.03	0.07	0.19	0.67	18.70	11.20	45.00	0.90	0.37	0.07	0.02	0.02	
7	0.03	0.09	0.19	0.58	10.80	6.95	14.40	0.75	0.37	0.07	0.02	0.02	
8	0.04	0.13	0.85	0.49	9.49	5.28	7.85	1.35	0.34	0.05	0.02	0.02	
9	0.04	0.25	4.20	1.30	5.68	67.50	6.66	1.35	0.37	0.05	0.02	0.02	
10	0.04	0.31	4.92	0.85	35.60	14.60	5.68	1.05	0.37	0.06	0.02	0.02	
11	0.03	0.49	3.12	0.70	34.40	22.60	4.32	0.90	0.37	0.06	0.02	0.00	
12	0.03	0.43	1.77	0.95	12.60	42.00	3.04	0.75	0.34	0.06	0.02	0.00	
13	0.03	0.43	2.05	0.55	26.20	73.20	2.56	0.67	0.34	0.06	0.01	0.01	
14	0.02	0.46	1.30	0.55	37.60	62.00	3.04	0.64	0.34	0.06	0.01	0.01	
15	0.02	0.58	0.80	0.46	35.20	48.00	4.56	5.40	0.34	0.06	0.01	0.02	
16	0.01	0.80	0.61	0.46	11.40	18.40	15.20	2.33	0.31	0.06	0.01	0.02	
17	0.02	0.55	0.46	5.16	8.30	11.80	13.20	1.50	0.16	0.05	0.01	0.02	
18	0.02	0.61	0.43	1.98	5.68	7.25	5.68	1.25	0.16	0.05	0.01	0.02	
19	0.01	0.90	0.37	4.00	4.32	5.28	3.90	1.00	0.13	0.05	0.01	0.02	
20	0.01	0.55	0.37	3.12	3.20	5.04	3.40	0.80	0.13	0.05	0.04	0.02	
21	0.00	0.37	0.34	1.70	5.82	3.30	3.04	0.75	0.09	0.05	0.05	0.00	
22	0.00	0.31	0.31	1.60	9.15	3.20	2.48	0.64	0.09	0.05	0.05	0.00	
23	0.01	0.22	0.28	3.30	6.38	56.50	2.12	0.58	0.09	0.05	0.05	0.00	
24	0.01	0.19	0.28	15.80	5.40	11.80	1.84	0.55	0.09	0.04	0.05	0.00	
25	0.01	0.19	0.34	17.80	8.00	5.82	1.84	0.49	0.08	0.04	0.05	0.00	
26	0.01	0.19	0.61	8.00	6.24	4.44	1.70	0.46	0.08	0.04	0.04	0.00	
27	0.01	0.22	0.40	4.20	4.68	3.40	1.25	0.43	0.07	0.04	0.04	0.03	
28	0.02	0.40	0.34	2.88	4.20	2.72	1.20	0.43	0.07	0.04	0.04	0.10	
29	0.01	0.46	0.34	2.33	2.64	2.05	1.20	0.37	0.07	0.04	0.04	0.09	
30	0.01	0.37	0.37	10.80	3.12	2.26	1.15	0.34	0.07	0.04		0.08	
31		0.49		9.83	42.40		0.95		0.08	0.04		0.08	
Total	0.62	10.16	27.06	102.44	385.60	686.99	268.86	30.48	6.78	1.68	0.83	0.77	1522.27 CMSDAY
Mean	0.02	0.33	0.90	3.30	12.44	22.90	8.67	1.02	0.22	0.05	0.03	0.02	4.16 CMS
Max	0.04	0.90	4.92	17.80	42.40	76.80	45.00	5.40	0.37	0.07	0.05	0.10	76.80 CMS
Min	0.00	0.00	0.19	0.34	2.40	2.05	0.95	0.34	0.07	0.04	0.01	0.00	0.00 CMS
Runoff	0.054	0.878	2.338	8.851	33.316	59.356	23.230	2.633	0.586	0.145	0.072	0.067	131.524 MCM

Momentary Peak 130.80 CMS, at 261.41 M (MSL), at 6.00 Hours, on Sep 4, 1995

Runoff Yield 29.29 Liters/Second/Square KM, Momentary Peak Yield 921.127 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

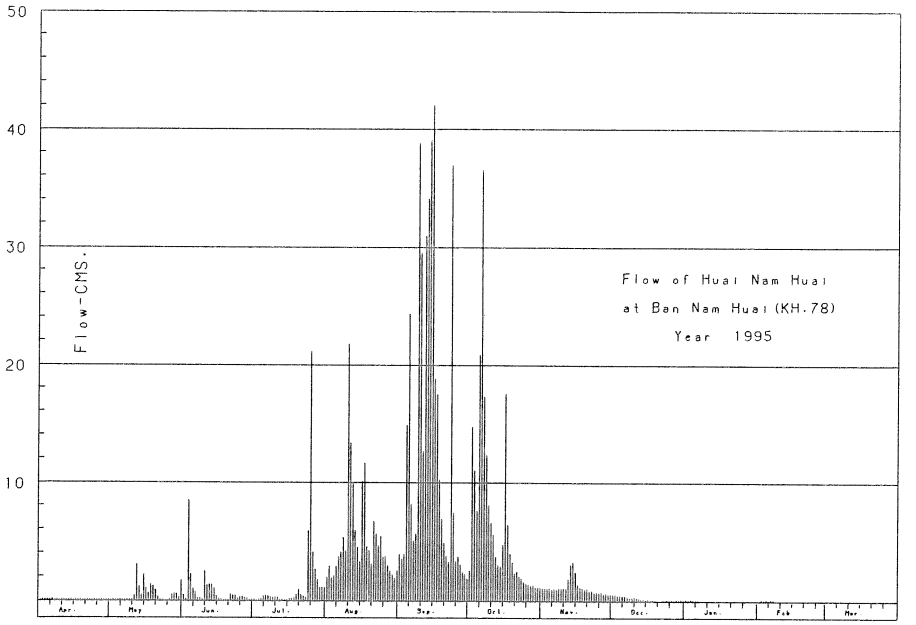
Huai Nam Huai at Ban Nam Huai, Loei (Kh.78)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	247.05	247.07	247.19	247.08	247.44	247.68	247.51	247.30	247.20	247.07	247.03	247.01	
2	247.06	247.07	247.09	247.07	247.56	247.64	248.80	247.29	247.19	247.07	247.06	247.01	
3	247.07	247.07	248.17	247.07	247.43	247.68	248.43	247.29	247.18	247.07	247.07	247.01	
4	247.07	247.07	247.47	247.11	247.45	248.82	248.07	247.29	247.17	247.07	247.07	247.01	
5	247.07	247.07	247.29	247.17	247.56	249.63	249.34	247.28	247.17	247.07	247.07	247.01	
6	247.07	247.07	247.23	247.17	247.66	248.13	250.57	247.28	247.16	247.06	247.07	247.02	
7	247.07	247.07	247.12	247.17	247.70	247.81	249.03	247.28	247.15	247.04	247.07	247.02	
8	247.07	247.07	247.12	247.14	247.84	247.87	248.57	247.29	247.12	247.02	247.00	247.02	
9	247.07	247.07	247.08	247.14	247.71	250.72	248.12	247.29	247.13	247.01	247.00	247.02	
10	247.07	247.07	247.51	247.14	249.42	250.04	247.97	247.29	247.14	247.01	247.00	247.02	
11	247.07	247.17	247.33	247.13	248.67	248.60	247.86	247.29	247.13	247.01	247.00	247.02	
12	247.07	247.58	247.35	247.09	248.32	250.16	247.66	247.41	247.11	247.00	247.00	247.02	
13	247.07	247.32	247.34	247.07	247.90	250.41	247.57	247.58	247.10	247.00	247.00	247.01	
14	247.07	247.19	247.30	247.06	247.75	250.74	247.56	247.60	247.09	247.00	247.00	247.01	
15	247.07	247.46	247.17	247.06	247.61	250.94	247.77	247.50	247.09	247.00	247.00	247.01	
16	247.07	247.29	247.10	247.11	248.33	249.16	249.05	247.34	247.08	247.00	247.00	247.01	
17	247.07	247.22	247.09	247.11	248.50	249.05	247.95	247.31	247.07	247.00	247.00	247.01	
18	247.07	247.34	247.07	247.13	247.75	248.35	247.69	247.29	247.06	247.00	247.00	247.01	
19	247.07	247.32	247.06	247.19	247.72	248.00	247.60	247.28	247.04	247.00	247.00	247.00	
20	247.07	247.27	247.07	247.27	247.58	247.79	247.48	247.28	247.02	247.01	247.00	247.00	
21	247.07	247.15	247.20	247.20	247.98	247.66	247.51	247.26	247.03	247.01	247.01	247.00	
22	247.07	247.08	247.18	247.16	247.87	247.60	247.45	247.25	247.03	247.01	247.01	247.00	
23	247.07	247.05	247.17	247.13	247.76	250.60	247.42	247.23	247.03	247.01	247.01	247.00	
24	247.07	247.02	247.12	247.90	247.85	248.05	247.38	247.23	247.05	247.01	247.01	247.00	
25	247.07	247.02	247.14	249.36	247.66	247.61	247.36	247.23	247.05	247.00	247.01	247.00	
26	247.07	247.09	247.16	247.70	247.66	247.66	247.34	247.23	247.05	247.00	247.01	247.00	
27	247.07	247.20	247.13	247.53	247.57	247.58	247.33	247.21	247.06	247.00	247.01	247.00	
28	247.07	247.21	247.11	247.40	247.51	247.50	247.33	247.21	247.06	247.00	247.01	247.00	
29	247.07	247.21	247.04	247.31	247.47	247.47	247.31	247.20	247.07	247.00	247.01	247.00	
30	247.07	247.14	247.10	247.30	247.42	247.42	247.30	247.20	247.07	247.00		247.00	
31		247.39		247.30	247.52		247.30		247.07	247.00		247.00	
Mean	247.07	247.17	247.22	247.28	247.81	248.61	247.92	247.30	247.10	247.02	247.02	247.01	
Max	247.07	247.58	248.17	249.36	249.42	250.94	250.57	247.60	247.20	247.07	247.07	247.02	250.94
Min	247.05	247.02	247.04	247.06	247.42	247.42	247.30	247.20	247.02	247.00	247.00	247.00	247.00

Annual Max Momentary Gage Height 251.47 M (MSL), at 18.00 Hours, on Sep 9, 1995
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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.16	0.56	0.17	2.08	3.98	2.58	1.15	0.60	0.16	0.09	0.06	
2	0.14	0.16	0.18	0.16	2.98	3.64	14.75	1.09	0.56	0.16	0.14	0.06	
3	0.16	0.16	8.61	0.16	2.01	3.98	11.08	1.09	0.52	0.16	0.16	0.06	
4	0.16	0.16	2.29	0.24	2.15	14.97	7.67	1.09	0.48	0.16	0.16	0.06	
5	0.16	0.16	1.09	0.48	2.98	24.38	20.91	1.04	0.48	0.16	0.16	0.06	
6	0.16	0.16	0.76	0.48	3.81	8.24	36.55	1.04	0.44	0.14	0.16	0.08	
7	0.16	0.16	0.28	0.48	4.15	5.14	17.35	1.04	0.40	0.11	0.16	0.08	
8	0.16	0.16	0.28	0.36	5.43	5.71	12.42	1.09	0.28	0.08	0.05	0.08	
9	0.16	0.16	0.17	0.36	4.24	38.80	8.14	1.09	0.32	0.06	0.05	0.08	
10	0.16	0.16	2.58	0.36	21.83	29.50	6.70	1.09	0.36	0.06	0.05	0.08	
11	0.16	0.48	1.35	0.32	13.40	12.70	5.62	1.09	0.32	0.06	0.05	0.08	
12	0.16	3.14	1.48	0.18	10.04	31.00	3.81	1.87	0.24	0.05	0.05	0.08	
13	0.16	1.28	1.41	0.16	6.00	34.15	3.06	3.14	0.20	0.05	0.05	0.06	
14	0.16	0.56	1.15	0.14	4.60	39.10	2.98	3.30	0.18	0.05	0.05	0.06	
15	0.16	2.22	0.48	0.14	3.38	42.10	4.78	2.50	0.18	0.05	0.05	0.06	
16	0.16	1.09	0.20	0.24	10.13	18.84	17.58	1.41	0.17	0.05	0.05	0.06	
17	0.16	0.71	0.18	0.24	11.75	17.58	6.50	1.21	0.16	0.05	0.05	0.06	
18	0.16	1.41	0.16	0.32	4.60	10.33	4.07	1.09	0.14	0.05	0.05	0.06	
19	0.16	1.28	0.14	0.56	4.33	7.00	3.30	1.04	0.11	0.05	0.05	0.05	
20	0.16	0.99	0.16	0.99	3.14	4.96	2.36	1.04	0.08	0.06	0.05	0.05	
21	0.16	0.40	0.60	0.60	6.80	3.81	2.58	0.93	0.09	0.06	0.06	0.05	
22	0.16	0.17	0.52	0.44	5.71	3.30	2.15	0.88	0.09	0.06	0.06	0.05	
23	0.16	0.13	0.48	0.32	4.69	37.00	1.94	0.76	0.09	0.06	0.06	0.05	
24	0.16	0.08	0.28	6.00	5.53	7.48	1.67	0.76	0.13	0.06	0.06	0.05	
25	0.16	0.08	0.36	21.14	3.81	3.38	1.54	0.76	0.13	0.05	0.06	0.05	
26	0.16	0.18	0.44	4.15	3.81	3.81	1.41	0.76	0.13	0.05	0.06	0.05	
27	0.16	0.60	0.32	2.74	3.06	3.14	1.35	0.66	0.14	0.05	0.06	0.05	
28	0.16	0.66	0.24	1.80	2.58	2.50	1.35	0.66	0.14	0.05	0.06	0.05	
29	0.16	0.66	0.11	1.21	2.29	2.29	1.21	0.60	0.16	0.05	0.06	0.05	
30	0.16	0.36	0.20	1.15	1.94	1.94	1.15	0.60	0.16	0.05		0.05	
31		1.74		1.15	2.66		1.15		0.16	0.05		0.05	
Total	4.75	19.82	27.06	47.24	165.91	424.75	209.71	35.87	7.64	2.36	2.22	1.87	949.20 CMSDAY
Mean	0.16	0.64	0.90	1.52	5.35	14.16	6.76	1.20	0.25	0.08	0.08	0.06	2.59 CMS
Max	0.16	3.14	8.61	21.14	21.83	42.10	36.55	3.30	0.60	0.16	0.16	0.08	42.10 CMS
Min	0.13	0.08	0.11	0.14	1.94	1.94	1.15	0.60	0.08	0.05	0.05	0.05	0.05 CMS
Runoff	0.410	1.712	2.338	4.082	14.335	36.698	18.119	3.099	0.660	0.204	0.192	0.162	82.011 MCM

Momentary Peak 50.05 CMS, at 251.47 M (MSL), at 18.00 Hours, on Sep 9, 1995
Runoff Yield 2.98 Liters/Second/Square KM, Momentary Peak Yield 57.595 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

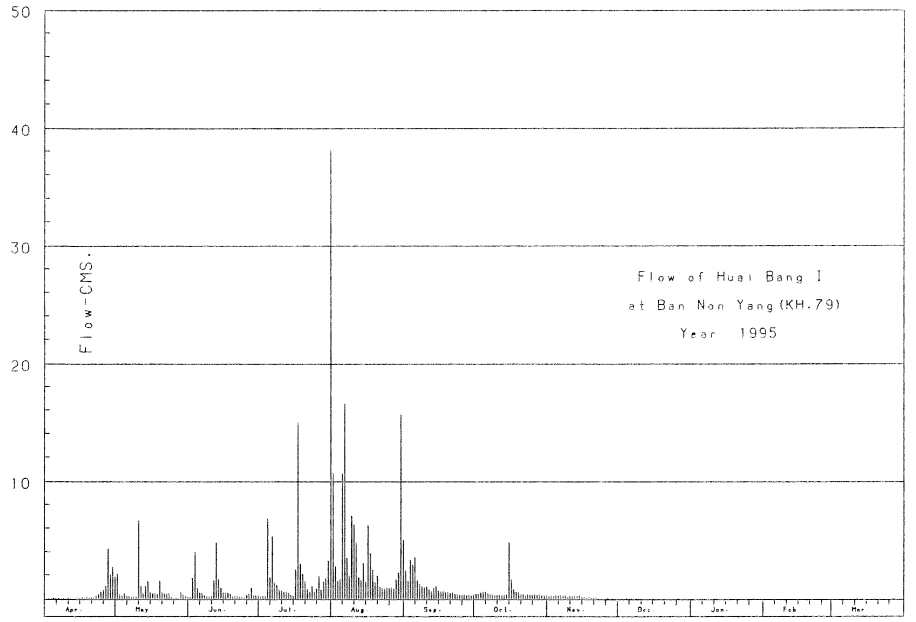
Huai Bang I at Ban Non Yang, Muk Dahan (Kh.79)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	186.31	186.87	186.35	186.38	187.64	186.92	186.50	186.41	186.30	186.28	186.26	186.26	
2	186.31	186.47	186.80	186.38	186.97	186.75	186.47	186.41	186.30	186.28	186.26	186.26	
3	186.31	186.43	187.12	186.41	186.76	187.05	186.54	186.41	186.30	186.28	186.26	186.26	
4	186.31	186.50	186.64	187.39	186.78	187.00	186.55	186.42	186.30	186.28	186.26	186.26	
5	186.31	186.41	186.53	186.82	187.64	187.07	186.54	186.42	186.30	186.28	186.26	186.26	
6	186.31	186.38	186.50	187.27	187.94	186.77	186.53	186.42	186.30	186.28	186.26	186.26	
7	186.31	186.37	186.44	186.72	187.07	186.70	186.49	186.42	186.30	186.28	186.26	186.26	
8	186.31	186.36	186.37	186.68	186.84	186.67	186.45	186.42	186.30	186.28	186.26	186.26	
9	186.31	186.37	186.38	186.60	187.41	186.64	186.45	186.38	186.29	186.28	186.26	186.26	
10	186.31	187.38	186.39	186.57	187.35	186.66	186.45	186.39	186.29	186.28	186.26	186.26	
11	186.31	186.67	186.76	186.55	187.21	186.61	186.45	186.40	186.29	186.28	186.26	186.26	
12	186.31	186.51	187.22	186.54	186.82	186.57	186.45	186.40	186.29	186.28	186.26	186.26	
13	186.31	186.66	186.81	186.53	186.76	186.63	186.45	186.41	186.29	186.28	186.26	186.26	
14	186.32	186.75	186.64	186.42	187.01	186.67	186.45	186.41	186.29	186.28	186.26	186.26	
15	186.33	186.52	186.54	186.42	186.74	186.58	187.22	186.38	186.29	186.28	186.26	186.26	
16	186.33	186.51	186.52	186.93	187.35	186.57	186.79	186.35	186.29	186.27	186.26	186.26	
17	186.33	186.50	186.53	187.86	187.12	186.56	186.61	186.35	186.29	186.27	186.26	186.26	
18	186.35	186.49	186.48	187.01	186.93	186.55	186.56	186.35	186.29	186.27	186.26	186.26	
19	186.35	186.76	186.39	186.88	186.73	186.54	186.53	186.35	186.29	186.27	186.26	186.26	
20	186.35	186.53	186.38	186.74	186.85	186.53	186.49	186.35	186.29	186.27	186.26	186.26	
21	186.35	186.51	186.38	186.61	186.66	186.52	186.47	186.35	186.29	186.27	186.26	186.26	
22	186.39	186.51	186.37	186.56	186.63	186.50	186.45	186.30	186.29	186.27	186.26	186.26	
23	186.49	186.50	186.35	186.67	186.63	186.47	186.46	186.30	186.29	186.27	186.26	186.26	
24	186.54	186.34	186.35	186.56	186.64	186.46	186.46	186.30	186.29	186.27	186.26	186.26	
25	186.59	186.33	186.45	186.62	186.64	186.45	186.46	186.30	186.29	186.27	186.26	186.26	
26	186.67	186.31	186.47	186.83	186.64	186.44	186.46	186.30	186.29	186.27	186.26	186.26	
27	187.16	186.31	186.65	186.60	186.63	186.44	186.46	186.30	186.29	186.27	186.26	186.26	
28	186.86	186.55	186.44	186.75	186.78	186.44	186.46	186.30	186.29	186.27	186.26	186.26	
29	186.96	186.45	186.40	186.79	186.89	186.44	186.44	186.30	186.29	186.27	186.26	186.25	
30	186.83	186.42	186.41	187.04	187.90	186.44	186.41	186.30	186.29	186.27		186.25	
31		186.35		188.74	187.24		186.41		186.29	186.27		186.25	
Mean	186.44	186.52	186.54	186.80	187.01	186.62	186.51	186.36	186.29	186.27	186.26	186.26	
Max	187.16	187.38	187.22	188.74	187.94	187.07	187.22	186.42	186.30	186.28	186.26	186.26	188.74
Min	186.31	186.31	186.35	186.38	186.63	186.44	186.41	186.30	186.29	186.27	186.26	186.25	186.25

Annual Max Momentary Gage Height 190.40 M (MSL), at 8.00 Hours, on Jul 31, 1995
Zero Gage at Bottom Elevation 186.13 M (MSL), River Bed 186.15 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	2.15	0.20	0.26	10.72	2.44	0.50	0.32	0.10	0.08	0.06	0.06	
2	0.12	0.44	1.80	0.26	2.79	1.55	0.44	0.32	0.10	0.08	0.06	0.06	
3	0.12	0.36	3.98	0.32	1.60	3.40	0.62	0.32	0.10	0.08	0.06	0.06	
4	0.12	0.50	1.00	6.87	1.70	3.00	0.65	0.34	0.10	0.08	0.06	0.06	
5	0.12	0.32	0.59	1.90	10.72	3.56	0.62	0.34	0.10	0.08	0.06	0.06	
6	0.12	0.26	0.50	5.40	16.68	1.65	0.59	0.34	0.10	0.08	0.06	0.06	
7	0.12	0.24	0.38	1.40	3.56	1.30	0.48	0.34	0.10	0.08	0.06	0.06	
8	0.12	0.22	0.24	1.20	2.00	1.15	0.40	0.34	0.10	0.08	0.06	0.06	
9	0.12	0.24	0.26	0.80	7.15	1.00	0.40	0.26	0.09	0.08	0.06	0.06	
10	0.12	6.74	0.28	0.71	6.35	1.10	0.40	0.28	0.09	0.08	0.06	0.06	
11	0.12	1.15	1.60	0.65	4.80	0.85	0.40	0.30	0.09	0.08	0.06	0.06	
12	0.12	0.53	4.90	0.62	1.90	0.71	0.40	0.30	0.09	0.08	0.06	0.06	
13	0.12	1.10	1.85	0.59	1.60	0.95	0.40	0.32	0.09	0.08	0.06	0.06	
14	0.14	1.55	1.00	0.34	3.08	1.15	0.40	0.32	0.09	0.08	0.06	0.06	
15	0.16	0.56	0.62	0.34	1.50	0.74	4.90	0.26	0.09	0.08	0.06	0.06	
16	0.16	0.53	0.56	2.51	6.35	0.71	1.75	0.20	0.09	0.07	0.06	0.06	
17	0.16	0.50	0.59	15.00	3.98	0.68	0.85	0.20	0.09	0.07	0.06	0.06	
18	0.20	0.48	0.46	3.08	2.51	0.65	0.68	0.20	0.09	0.07	0.06	0.06	
19	0.20	1.60	0.28	2.20	1.45	0.62	0.59	0.20	0.09	0.07	0.06	0.06	
20	0.20	0.59	0.26	1.50	2.05	0.59	0.48	0.20	0.09	0.07	0.06	0.06	
21	0.20	0.53	0.26	0.85	1.10	0.56	0.44	0.20	0.09	0.07	0.06	0.06	
22	0.28	0.53	0.24	0.68	0.95	0.50	0.40	0.10	0.09	0.07	0.06	0.06	
23	0.48	0.50	0.20	1.15	0.95	0.44	0.42	0.10	0.09	0.07	0.06	0.06	
24	0.62	0.18	0.20	0.68	1.00	0.42	0.42	0.10	0.09	0.07	0.06	0.06	
25	0.77	0.16	0.40	0.90	1.00	0.40	0.42	0.10	0.09	0.07	0.06	0.06	
26	1.15	0.12	0.44	1.95	1.00	0.38	0.42	0.10	0.09	0.07	0.06	0.06	
27	4.34	0.12	1.05	0.80	0.95	0.38	0.42	0.10	0.09	0.07	0.06	0.06	
28	2.10	0.65	0.38	1.55	1.70	0.38	0.42	0.10	0.09	0.07	0.06	0.06	
29	2.72	0.40	0.30	1.75	2.25	0.38	0.38	0.10	0.09	0.07	0.06	0.05	
30	1.95	0.34	0.32	3.32	15.80	0.38	0.32	0.10	0.09	0.07		0.05	
31		0.20		38.20	5.10		0.32		0.09	0.07		0.05	
Total	17.39	23.79	25.14	97.78	124.29	32.02	20.33	6.80	2.87	2.32	1.74	1.83	356.30 CMSDAY
Mean	0.58	0.77	0.84	3.15	4.01	1.07	0.66	0.23	0.09	0.07	0.06	0.06	0.97 CMS
Max	4.34	6.74	4.90	38.20	16.68	3.56	4.90	0.34	0.10	0.08	0.06	0.06	38.20 CMS
Min	0.12	0.12	0.20	0.26	0.95	0.38	0.32	0.10	0.09	0.07	0.06	0.05	0.05 CMS
Runoff	1.502	2.055	2.172	8.448	10.739	2.767	1.757	0.588	0.248	0.200	0.150	0.158	30.784 MCM

Momentary Peak 113.00 CMS, at 190.40 M (MSL), at 8.00 Hours, on Jul 31, 1995
Runoff Yield 8.85 Liters/Second/Square KM, Momentary Peak Yield 1027.273 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

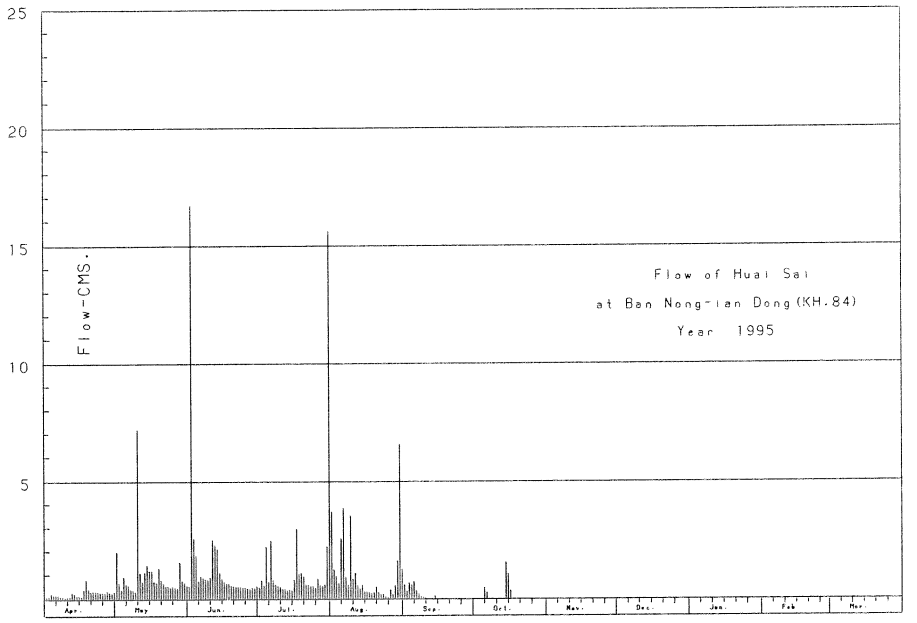
Huai Sai at Ban Nong-ian Dong, Muk Dahan (Kh.84)

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	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Rather Unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	185.73	186.14	185.88	185.87	186.28	185.90	185.70	185.62	185.57	185.55	185.54	185.52	
2	185.73	185.92	186.65	185.95	186.04	185.82	185.62	185.62	185.57	185.55	185.54	185.52	
3	185.77	185.84	186.20	185.90	185.99	185.92	185.61	185.62	185.57	185.55	185.54	185.52	
4	185.76	185.99	186.12	186.16	185.92	185.90	185.62	185.62	185.57	185.55	185.54	185.52	
5	185.76	185.91	185.95	185.94	186.20	185.94	185.86	185.62	185.57	185.55	185.54	185.51	
6	185.75	185.89	185.99	186.19	186.29	185.83	185.80	185.61	185.57	185.55	185.53	185.51	
7	185.74	185.84	185.98	185.95	185.99	185.77	185.68	185.61	185.57	185.55	185.53	185.51	
8	185.73	185.82	185.96	185.91	185.90	185.74	185.65	185.61	185.57	185.56	185.53	185.51	
9	185.73	185.81	185.96	185.88	186.27	185.72	185.64	185.61	185.57	185.56	185.53	185.51	
10	185.72	186.44	185.98	185.87	185.96	185.72	185.63	185.60	185.57	185.56	185.53	185.51	
11	185.74	186.02	186.19	185.85	186.02	185.70	185.62	185.60	185.57	185.56	185.52	185.51	
12	185.80	185.94	186.17	185.84	185.89	185.68	185.60	185.60	185.57	185.56	185.52	185.51	
13	185.77	186.02	186.15	185.83	185.85	185.67	185.61	185.60	185.57	185.56	185.52	185.52	
14	185.75	186.07	186.02	185.83	185.90	185.75	186.09	185.60	185.56	185.56	185.52	185.52	
15	185.74	186.03	185.97	185.83	185.81	185.69	186.01	185.60	185.56	185.56	185.52	185.52	
16	185.74	186.03	185.93	185.96	185.80	185.66	185.83	185.60	185.56	185.56	185.52	185.51	
17	185.83	185.94	185.92	186.23	185.80	185.66	185.71	185.60	185.56	185.55	185.52	185.51	
18	185.95	185.92	185.91	186.01	185.78	185.66	185.70	185.60	185.56	185.55	185.57	185.51	
19	185.85	186.05	185.90	186.02	185.80	185.65	185.68	185.60	185.56	185.55	185.56	185.50	
20	185.81	185.95	185.88	185.99	185.87	185.64	185.68	185.59	185.56	185.55	185.56	185.50	
21	185.81	185.92	185.88	185.91	185.79	185.63	185.66	185.59	185.56	185.55	185.54	185.50	
22	185.81	185.89	185.88	185.90	185.77	185.62	185.65	185.59	185.56	185.55	185.52	185.50	
23	185.80	185.88	185.87	185.89	185.76	185.62	185.64	185.59	185.56	185.55	185.52	185.52	
24	185.80	185.87	185.87	185.88	185.73	185.61	185.64	185.59	185.56	185.55	185.52	185.52	
25	185.79	185.87	185.86	185.87	185.73	185.60	185.64	185.59	185.56	185.54	185.52	185.52	
26	185.79	185.86	185.85	185.97	185.84	185.60	185.63	185.59	185.56	185.54	185.52	185.53	
27	185.82	185.86	185.85	185.89	185.77	185.60	185.63	185.59	185.56	185.54	185.52	185.52	
28	185.79	186.09	185.86	185.89	185.89	185.59	185.62	185.58	185.56	185.54	185.52	185.52	
29	185.79	185.95	185.86	185.90	186.10	185.59	185.62	185.58	185.56	185.54	185.52	185.52	
30	185.80	185.92	185.88	186.16	186.42	185.59	185.62	185.58	185.56	185.54		185.52	
31		185.90		186.63	186.04		185.62		185.56	185.54		185.52	
Mean	185.78	185.95	185.98	185.96	185.94	185.70	185.69	185.60	185.56	185.55	185.53	185.51	
Max	185.95	186.44	186.65	186.63	186.42	185.94	186.09	185.62	185.57	185.56	185.57	185.53	186.65
Min	185.72	185.81	185.85	185.83	185.73	185.59	185.60	185.58	185.56	185.54	185.52	185.50	185.50

Annual Max Momentary Gage Height 187.18 M (MSL), at 6.00 Hours, on Jun 2, 1995
Zero Gage at Bottom Elevation 184.73 M (MSL), River Bed 184.81 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	2.03	0.54	0.51	3.72	0.60	0.02	0.01	0.01	0.01	0.00	0.00	
2	0.10	0.68	16.75	0.80	1.26	0.36	0.01	0.01	0.01	0.01	0.00	0.00	
3	0.22	0.42	2.60	0.60	0.96	0.68	0.01	0.01	0.01	0.01	0.00	0.00	
4	0.19	0.96	1.84	2.22	0.68	0.60	0.01	0.01	0.01	0.01	0.00	0.00	
5	0.19	0.64	0.80	0.76	2.60	0.76	0.48	0.01	0.01	0.01	0.00	0.00	
6	0.16	0.57	0.96	2.51	3.86	0.39	0.30	0.01	0.01	0.01	0.00	0.00	
7	0.13	0.42	0.92	0.80	0.96	0.22	0.02	0.01	0.01	0.01	0.00	0.00	
8	0.10	0.36	0.84	0.64	0.60	0.13	0.01	0.01	0.01	0.01	0.00	0.00	
9	0.10	0.33	0.84	0.54	3.58	0.08	0.01	0.01	0.01	0.01	0.00	0.00	
10	0.08	7.20	0.92	0.51	0.84	0.08	0.01	0.01	0.01	0.01	0.00	0.00	
11	0.13	1.13	2.51	0.45	1.13	0.02	0.01	0.01	0.01	0.01	0.00	0.00	
12	0.30	0.76	2.31	0.42	0.57	0.02	0.01	0.01	0.01	0.01	0.00	0.00	
13	0.22	1.13	2.12	0.39	0.45	0.02	0.01	0.01	0.01	0.01	0.00	0.00	
14	0.16	1.46	1.13	0.39	0.60	0.16	1.58	0.01	0.01	0.01	0.00	0.00	
15	0.13	1.19	0.88	0.39	0.33	0.02	1.06	0.01	0.01	0.01	0.00	0.00	
16	0.13	1.19	0.72	0.84	0.30	0.02	0.39	0.01	0.01	0.01	0.00	0.00	
17	0.39	0.76	0.68	3.02	0.30	0.02	0.05	0.01	0.01	0.01	0.00	0.00	
18	0.80	0.68	0.64	1.06	0.24	0.02	0.02	0.01	0.01	0.01	0.01	0.00	
19	0.45	1.33	0.60	1.13	0.30	0.01	0.02	0.01	0.01	0.01	0.01	0.00	
20	0.33	0.80	0.54	0.96	0.51	0.01	0.02	0.01	0.01	0.01	0.01	0.00	
21	0.33	0.68	0.54	0.64	0.27	0.01	0.02	0.01	0.01	0.01	0.00	0.00	
22	0.33	0.57	0.54	0.60	0.22	0.01	0.01	0.01	0.01	0.01	0.00	0.00	
23	0.30	0.54	0.51	0.57	0.19	0.01	0.01	0.01	0.01	0.01	0.00	0.00	
24	0.30	0.51	0.51	0.54	0.10	0.01	0.01	0.01	0.01	0.01	0.00	0.00	
25	0.27	0.51	0.48	0.51	0.10	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
26	0.27	0.48	0.45	0.88	0.42	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
27	0.36	0.48	0.45	0.57	0.22	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
28	0.27	1.58	0.48	0.57	0.57	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
29	0.27	0.80	0.48	0.60	1.65	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
30	0.30	0.68	0.54	2.22	6.60	0.01	0.01	0.01	0.01	0.00		0.00	
31		0.60		15.65	1.26		0.01		0.01	0.00		0.00	
Total	7.41	31.47	44.12	42.29	35.39	4.32	4.17	0.30	0.31	0.24	0.03	0.00	170.05 CMSDAY
Mean	0.25	1.02	1.47	1.36	1.14	0.14	0.13	0.01	0.01	0.01	0.00	0.00	0.46 CMS
Max	0.80	7.20	16.75	15.65	6.60	0.76	1.58	0.01	0.01	0.01	0.01	0.00	16.75 CMS
Min	0.08	0.33	0.45	0.39	0.10	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00 CMS
Runoff	0.640	2.719	3.812	3.654	3.058	0.373	0.360	0.026	0.027	0.021	0.003	0.000	14.692 MCM

Momentary Peak 54.30 CMS, at 187.18 M (MSL), at 6.00 Hours, on Jun 2, 1995
Runoff Yield 9.68 Liters/Second/Square KM, Momentary Peak Yield 1131.250 Liters/Second/Square KM

WATER YEAR 1995

KHONG RIVER BASIN

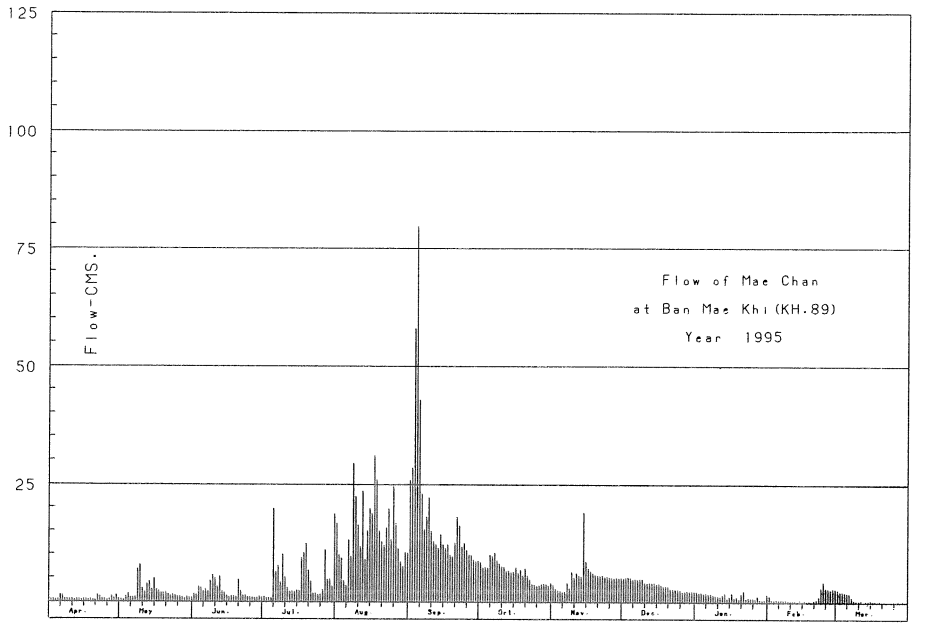
Nam Mae Chan at Ban Mae Khi, Chiang Rai (Kh.89)

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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The concrete weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 68 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.39	0.39	0.61	0.52	1.28	1.49	0.84	0.64	0.71	0.55	0.49	0.58	
2	0.39	0.38	0.60	0.49	1.08	1.54	0.80	0.60	0.71	0.54	0.37	0.56	
3	0.37	0.54	0.75	0.47	1.06	2.04	0.80	0.57	0.72	0.54	0.36	0.55	
4	0.37	0.63	0.73	0.48	0.83	2.36	0.80	0.57	0.71	0.53	0.36	0.55	
5	0.60	0.51	0.67	1.36	0.77	1.80	0.90	0.55	0.70	0.53	0.37	0.53	
6	0.57	0.48	0.71	0.94	1.19	1.43	0.89	0.55	0.70	0.52	0.35	0.53	
7	0.43	0.52	0.67	1.00	1.07	1.25	0.92	0.66	0.70	0.52	0.35	0.45	
8	0.40	0.96	0.83	0.81	1.56	1.16	0.86	0.60	0.70	0.51	0.35	0.37	
9	0.40	1.01	0.90	1.09	1.42	1.27	0.83	0.76	0.70	0.49	0.34	0.32	
10	0.40	0.72	0.86	0.88	1.27	1.07	0.81	0.71	0.66	0.48	0.33	0.33	
11	0.37	0.66	0.75	0.73	1.14	1.00	0.80	0.75	0.66	0.46	0.33	0.32	
12	0.41	0.79	0.89	0.67	1.44	0.98	0.77	0.73	0.66	0.51	0.30	0.30	
13	0.39	0.82	0.68	0.67	1.05	0.95	0.77	0.72	0.66	0.53	0.30	0.30	
14	0.37	0.71	0.64	0.67	1.24	1.05	0.76	1.19	0.66	0.42	0.34	0.32	
15	0.39	0.86	0.57	0.69	1.36	0.98	0.76	0.85	0.65	0.46	0.31	0.33	
16	0.39	0.70	0.50	0.69	1.33	0.95	0.80	0.79	0.65	0.53	0.31	0.32	
17	0.38	0.67	0.55	1.06	1.59	0.98	0.75	0.77	0.64	0.44	0.32	0.30	
18	0.39	0.64	0.54	1.10	1.49	0.90	0.78	0.75	0.62	0.45	0.31	0.30	
19	0.38	0.63	0.52	1.16	1.24	0.89	0.73	0.74	0.63	0.41	0.30	0.31	
20	0.35	0.65	0.85	0.95	1.18	0.99	0.79	0.73	0.62	0.52	0.32	0.30	
21	0.60	0.62	0.68	0.83	1.15	1.16	0.73	0.73	0.60	0.57	0.38	0.27	
22	0.53	0.56	0.58	0.63	1.26	1.11	0.70	0.73	0.59	0.42	0.46	0.29	
23	0.44	0.59	0.56	0.62	1.36	0.96	0.65	0.72	0.59	0.43	0.61	0.28	
24	0.39	0.57	0.52	0.60	1.19	0.99	0.64	0.72	0.59	0.43	0.67	0.27	
25	0.37	0.52	0.50	0.60	1.46	0.94	0.63	0.72	0.58	0.43	0.61	0.28	
26	0.40	0.52	0.50	0.70	1.28	0.90	0.63	0.71	0.55	0.40	0.60	0.27	
27	0.55	0.51	0.48	1.12	1.13	0.90	0.65	0.71	0.56	0.48	0.59	0.29	
28	0.43	0.43	0.47	0.85	1.03	0.86	0.65	0.71	0.56	0.36	0.60	0.29	
29	0.59	0.53	0.55	0.85	1.00	0.85	0.65	0.71	0.56	0.36	0.60	0.30	
30	0.41	0.47	0.49	0.76	1.10	0.85	0.63	0.71	0.56	0.36		0.29	
31		0.47		1.33	1.10		0.66		0.56	0.51		0.29	
Mean	0.43	0.61	0.64	0.82	1.21	1.15	0.75	0.71	0.64	0.47	0.41	0.35	
Max	0.60	1.01	0.90	1.36	1.59	2.36	0.92	1.19	0.72	0.57	0.67	0.58	2.36
Min	0.35	0.38	0.47	0.47	0.77	0.85	0.63	0.55	0.55	0.36	0.30	0.27	0.27

Annual Max Momentary Gage Height 2.65 M (A.D), at 11.00 Hours, on Sep 4, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.52 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	0.61	1.70	1.12	16.72	26.00	8.44	3.70	5.15	2.20	1.42	2.62	
2	0.61	0.58	1.60	0.97	9.94	28.50	7.40	2.90	5.15	2.06	0.58	2.34	
3	0.55	1.24	3.30	0.90	9.38	58.16	7.40	2.48	5.40	2.06	0.54	2.20	
4	0.55	1.90	3.02	0.93	4.51	79.70	7.40	2.48	5.15	1.92	0.54	2.20	
5	1.60	1.06	2.30	19.90	3.58	43.00	10.00	2.20	4.90	1.92	0.58	1.92	
6	1.42	0.93	2.74	6.50	13.29	23.00	9.74	2.20	4.90	1.78	0.50	1.92	
7	0.76	1.12	2.30	7.70	9.66	15.55	10.58	4.10	4.90	1.78	0.50	1.10	
8	0.65	6.90	4.51	4.17	29.50	18.10	8.96	2.90	4.90	1.64	0.50	0.58	
9	0.65	7.98	5.70	10.22	22.50	22.30	8.18	6.40	4.90	1.42	0.46	0.38	
10	0.65	2.88	5.02	5.36	16.33	15.07	7.66	5.15	4.10	1.34	0.42	0.42	
11	0.55	2.20	3.30	3.02	11.74	12.90	7.40	6.15	4.10	1.18	0.42	0.38	
12	0.69	3.86	5.53	2.30	23.50	12.32	6.65	5.65	4.10	1.64	0.30	0.30	
13	0.61	4.34	2.40	2.30	9.10	11.45	6.65	5.40	4.10	1.92	0.30	0.30	
14	0.55	2.74	2.00	2.30	15.16	14.45	6.40	19.15	4.10	0.86	0.46	0.38	
15	0.61	5.02	1.42	2.50	19.90	12.32	6.40	8.70	3.90	1.18	0.34	0.42	
16	0.61	2.60	1.00	2.50	18.70	11.45	7.40	7.15	3.90	1.92	0.34	0.38	
17	0.58	2.30	1.30	9.38	31.00	12.32	6.15	6.65	3.70	1.02	0.38	0.30	
18	0.61	2.00	1.24	10.50	26.00	10.00	6.90	6.15	3.30	1.10	0.34	0.30	
19	0.58	1.90	1.12	12.36	15.16	9.74	5.65	5.90	3.50	0.78	0.30	0.34	
20	0.47	2.10	4.85	6.70	12.98	12.61	7.15	5.65	3.30	1.78	0.38	0.30	
21	1.60	1.80	2.40	4.51	12.05	18.10	5.65	5.65	2.90	2.48	0.62	0.21	
22	1.18	1.36	1.48	1.90	15.94	16.35	4.90	5.65	2.76	0.86	1.18	0.27	
23	0.79	1.54	1.36	1.80	19.90	11.74	3.90	5.40	2.76	0.94	3.10	0.24	
24	0.61	1.42	1.12	1.60	13.29	12.61	3.70	5.40	2.76	0.94	4.30	0.21	
25	0.55	1.12	1.00	1.60	24.50	11.16	3.50	5.40	2.62	0.94	3.10	0.24	
26	0.65	1.12	1.00	2.60	16.72	10.00	3.50	5.15	2.20	0.70	2.90	0.21	
27	1.30	1.06	0.93	11.12	11.43	10.00	3.90	5.15	2.34	1.34	2.76	0.27	
28	0.76	0.76	0.90	4.85	8.54	8.96	3.90	5.15	2.34	0.54	2.90	0.27	
29	1.54	1.18	1.30	4.85	7.70	8.70	3.90	5.15	2.34	0.54	2.90	0.30	
30	0.69	0.90	0.97	3.44	10.50	8.70	3.50	5.15	2.34	0.54		0.27	
31		0.90		18.70	10.50		4.10		2.34	1.64		0.27	
Total	23.58	67.42	68.81	168.60	469.72	565.26	196.96	164.31	115.15	42.96	33.36	21.84	1937.97 CMSDAY
Mean	0.79	2.17	2.29	5.44	15.15	18.84	6.35	5.48	3.71	1.39	1.15	0.70	5.30 CMS
Max	1.60	7.98	5.70	19.90	31.00	79.70	10.58	19.15	5.40	2.48	4.30	2.62	79.70 CMS
Min	0.47	0.58	0.90	0.90	3.58	8.70	3.50	2.20	2.20	0.54	0.30	0.21	0.21 CMS
Runoff	2.037	5.825	5.945	14.567	40.584	48.838	17.017	14.196	9.949	3.712	2.882	1.887	167.441 MCM

Momentary Peak 101.50 CMS, at 2.65 M (A.D), at 11.00 Hours, on Sep 4, 1995
Runoff Yield 20.76 Liters/Second/Square KM, Momentary Peak Yield 398.039 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

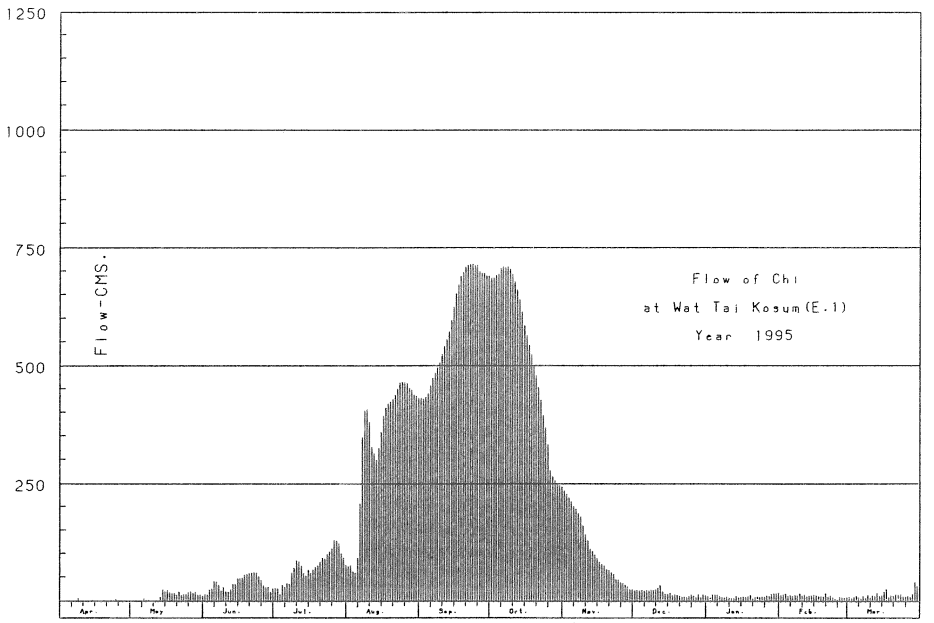
Chi River at Wat Tai Kosum, Maha Sarakham (E.1)

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	On right bank at the footpath of the bridge.
Elevation	+149.341 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	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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Kui Chuak barrage above gage site. Stage-discharge relation defined by 21 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.62	136.54	137.14	137.48	138.52	143.63	145.83	141.13	137.40	136.98	137.11	136.96	
2	136.52	136.54	137.15	137.50	138.53	143.62	145.84	141.01	137.39	136.93	137.14	136.83	
3	136.49	136.54	137.40	137.19	138.29	143.65	145.86	140.92	137.39	137.14	137.23	136.92	
4	136.53	136.49	137.49	137.63	138.21	143.76	145.88	140.78	137.39	137.16	137.03	137.06	
5	136.52	136.54	137.85	137.57	138.87	143.95	145.94	140.66	137.39	137.12	137.12	136.89	
6	136.45	136.76	137.78	137.72	140.73	144.13	145.95	140.56	137.39	137.04	136.99	136.82	
7	136.63	136.67	137.67	137.72	142.61	144.27	145.95	140.43	137.39	136.89	137.14	137.01	
8	136.79	136.59	137.36	138.22	143.32	144.38	145.95	140.31	137.40	136.93	137.05	136.88	
9	136.59	136.52	137.53	138.44	143.34	144.51	145.93	140.03	137.41	136.95	137.24	137.09	
10	136.52	136.54	137.34	138.74	143.00	144.67	145.87	139.71	137.42	136.91	137.09	136.92	
11	136.52	136.59	137.29	138.70	142.35	144.83	145.79	139.52	137.51	136.79	137.11	137.06	
12	136.61	136.56	137.43	138.54	142.17	144.96	145.69	139.20	137.66	136.82	137.02	137.04	
13	136.61	136.95	137.68	138.20	141.99	145.09	145.56	139.13	137.35	137.01	137.03	137.24	
14	136.62	137.44	137.71	138.11	142.33	145.28	145.39	138.98	137.19	136.94	137.09	137.06	
15	136.60	137.29	137.98	138.36	142.75	145.46	145.20	138.86	137.20	136.93	137.11	137.06	
16	136.59	137.40	137.96	138.20	143.18	145.63	145.02	138.69	137.24	136.95	137.06	137.30	
17	136.57	137.26	138.01	138.37	143.38	145.76	144.86	138.62	137.12	136.95	137.04	137.47	
18	136.53	137.19	138.12	138.46	143.50	145.85	144.67	138.53	137.13	136.97	136.98	136.96	
19	136.66	137.24	138.18	138.56	143.53	145.90	144.46	138.40	137.14	137.14	137.00	137.06	
20	136.55	137.08	138.20	138.69	143.60	145.95	144.20	138.34	137.02	136.81	137.22	137.08	
21	136.52	137.33	138.22	138.84	143.72	145.97	143.91	138.26	136.99	136.92	136.99	137.15	
22	136.61	137.09	138.25	138.84	143.87	145.98	143.58	138.18	136.96	137.01	137.05	137.14	
23	136.63	137.14	138.22	139.01	144.01	145.98	143.20	137.94	136.95	136.90	136.93	137.15	
24	136.69	137.16	138.06	139.10	144.04	145.97	142.86	137.91	136.99	137.02	136.74	137.01	
25	136.64	137.27	137.87	139.22	144.02	145.97	142.43	137.80	137.17	136.99	136.74	137.01	
26	136.59	137.31	137.65	139.51	144.00	145.91	141.70	137.74	137.01	137.04	136.96	137.02	
27	136.54	137.23	137.55	139.51	143.89	145.89	141.55	137.69	136.94	137.06	136.93	136.97	
28	136.52	137.30	137.54	139.39	143.83	145.88	141.42	137.58	137.14	137.18	136.86	137.17	
29	136.52	137.13	137.30	139.04	143.72	145.86	141.32	137.46	136.95	137.24	136.96	137.81	
30	136.54	137.09	137.46	138.85	143.68	145.85	141.27	137.42	137.13	137.22		137.61	
31		137.04		138.54	143.64		141.23		137.09	137.26		137.51	
Mean	136.58	136.96	137.71	138.46	142.47	145.15	144.33	139.06	137.22	137.01	137.03	137.11	
Max	136.79	137.44	138.25	139.51	144.04	145.98	145.95	141.13	137.66	137.26	137.24	137.81	145.98
Min	136.45	136.49	137.14	137.19	138.21	143.62	141.23	137.42	136.94	136.79	136.74	136.82	136.45

Annual Max Momentary Gage Height 145.99 M (MSL), at 18.00 Hours, on Sep 22, 1995
Zero Gage at Bottom Elevation 136.64 M (MSL), River Bed 136.25 M (MSL)
Left Bank Elevation 147.30 M (MSL)
Right Bank Elevation 149.50 M (MSL), Drainage Area 29788 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.9	1.6	14.5	27.2	75.0	431.6	686.0	236.1	24.0	10.5	13.8	10.0	
2	1.3	1.6	14.7	28.0	75.5	430.7	688.0	227.7	23.6	9.2	14.5	7.1	
3	0.9	1.6	24.0	15.8	63.5	433.2	692.0	221.4	23.6	14.5	17.2	9.0	
4	1.4	0.9	27.6	33.3	59.5	442.6	696.0	211.6	23.6	15.0	11.8	12.5	
5	1.3	1.6	43.3	30.8	92.8	458.7	708.0	203.2	23.6	14.0	14.0	8.3	
6	0.5	5.7	40.1	37.4	208.1	474.1	710.0	196.4	23.6	12.0	10.8	6.9	
7	3.1	3.9	35.1	37.4	348.8	486.0	710.0	187.9	23.6	8.3	14.5	11.2	
8	6.3	2.3	22.4	60.0	405.6	495.7	710.0	180.1	24.0	9.2	12.3	8.1	
9	2.3	1.3	29.2	71.0	407.2	508.0	706.0	161.9	24.4	9.8	17.6	13.3	
10	1.3	1.6	21.6	86.0	380.0	524.3	694.0	141.6	24.8	8.8	13.3	9.0	
11	1.3	2.3	19.6	84.0	328.0	542.0	678.4	130.2	28.4	6.3	13.8	12.5	
12	2.7	1.9	25.2	76.0	313.6	557.2	662.4	111.0	34.7	6.9	11.5	12.0	
13	2.7	9.8	35.6	59.0	299.3	572.8	641.6	107.2	22.0	11.2	11.8	17.6	
14	2.9	25.6	37.0	55.0	326.4	598.2	614.5	98.9	15.8	9.5	13.3	12.5	
15	2.5	19.6	49.1	67.0	360.0	625.6	587.0	92.3	16.0	9.2	13.8	12.5	
16	2.3	24.0	48.2	59.0	394.4	652.8	564.4	83.5	17.6	9.8	12.5	20.0	
17	2.1	18.4	50.4	67.5	410.4	673.6	545.4	80.0	14.0	9.8	12.0	26.8	
18	1.4	15.8	55.4	72.0	420.5	690.0	524.3	75.5	14.3	10.3	10.5	10.0	
19	3.7	17.6	58.1	77.0	423.1	700.0	503.2	69.0	14.5	14.5	11.0	12.5	
20	1.7	13.0	59.0	83.5	429.0	710.0	480.0	66.0	11.5	6.7	16.8	13.0	
21	1.3	21.2	60.0	91.2	439.2	714.0	455.4	62.0	10.8	9.0	10.8	14.7	
22	2.7	13.3	61.5	91.2	451.9	716.0	427.3	58.1	10.0	11.2	12.3	14.5	
23	3.1	14.5	60.0	100.5	463.8	716.0	396.0	47.3	9.8	8.5	9.2	14.7	
24	4.3	15.0	52.7	105.5	466.4	714.0	368.8	46.0	10.8	11.5	5.3	11.2	
25	3.3	18.8	44.1	112.2	464.7	714.0	334.4	41.0	15.3	10.8	5.3	11.2	
26	2.3	20.4	34.2	129.6	463.0	702.0	277.5	38.3	11.2	12.0	10.0	11.5	
27	1.6	17.2	30.0	129.6	453.7	698.0	266.3	36.0	9.5	12.5	9.2	10.3	
28	1.3	20.0	29.6	122.4	448.6	696.0	256.5	31.2	14.5	15.5	7.7	15.3	
29	1.3	14.3	20.0	102.2	439.2	692.0	249.4	26.4	9.8	17.6	10.0	41.4	
30	1.6	13.3	26.4	91.8	435.8	690.0	245.9	24.8	14.3	16.8		32.4	
31		12.0		76.0	432.4		243.1		13.3	18.4		28.4	
Total	67.4	350.1	1128.6	2279.1	10779.4	18059.1	16321.8	3292.6	556.9	349.3	346.6	450.4	53981.3 CMSDAY
Mean	2.2	11.3	37.6	73.5	347.7	602.0	526.5	109.8	18.0	11.3	12.0	14.5	147.5 CMS
Max	6.3	25.6	61.5	129.6	466.4	716.0	710.0	236.1	34.7	18.4	17.6	41.4	716.0 CMS
Min	0.5	0.9	14.5	15.8	59.5	430.7	243.1	24.8	9.5	6.3	5.3	6.9	0.5 CMS
Runoff	5.82	30.25	97.51	196.91	931.34	1560.31	1410.20	284.48	48.12	30.18	29.95	38.91	4663.98 MCM

Momentary Peak 718.00 CMS, at 145.99 M (MSL), at 18.00 Hours, on Sep 22, 1995

Runoff Yield 4.95 Liters/Second/Square KM, Momentary Peak Yield 24.104 Liters/Second/Square KM

WATER YEAR 1995

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 station office.

Elevation — +197.543 m. (M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1958 to date.

Rating Operation

Period of Rating — 1967-1971, 1973, 1979, 1982 to date.

Rated by Float — -

Rated by Current Meter — 1967-1971, 1973, 1979, 1982 to date.

Stability of Channel Regimes — Stable.

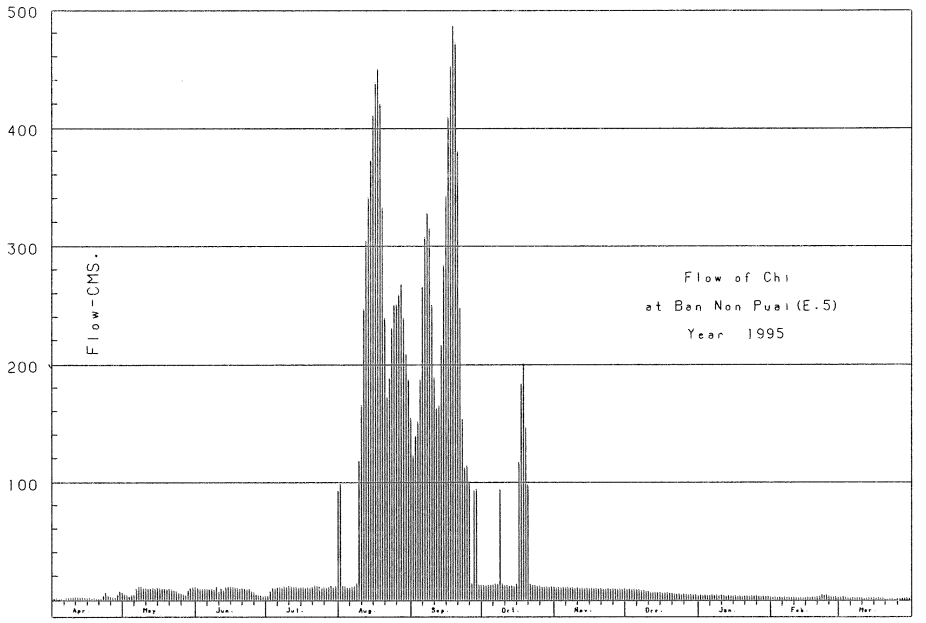
Overbank Flow Conditions — No overbank flow.

General Description — Records good. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 22 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.07	190.29	190.52	190.22	191.72	192.32	191.03	190.73	190.42	190.26	190.19	190.19	
2	190.07	190.25	190.45	190.36	191.00	192.75	191.07	190.70	190.42	190.26	190.19	190.23	
3	190.04	190.22	190.41	190.56	190.84	193.04	191.08	190.69	190.42	190.26	190.18	190.18	
4	190.00	190.25	190.53	190.57	190.73	193.93	191.18	190.68	190.41	190.26	190.18	190.14	
5	189.99	190.27	190.45	190.70	190.66	195.49	191.19	190.70	190.40	190.26	190.17	190.13	
6	190.08	190.44	190.39	190.69	190.68	196.11	191.27	190.69	190.39	190.26	190.17	190.13	
7	190.13	190.90	190.49	190.66	190.93	196.32	191.34	190.65	190.38	190.26	190.17	190.12	
8	190.13	190.76	190.38	190.77	191.32	196.20	191.61	190.64	190.37	190.26	190.16	190.13	
9	190.18	190.56	190.85	190.79	192.22	195.19	191.32	190.60	190.36	190.25	190.17	190.14	
10	190.16	190.51	190.34	190.88	193.40	193.96	191.10	190.60	190.35	190.25	190.17	190.10	
11	190.16	190.50	190.45	190.81	195.12	193.33	191.05	190.59	190.34	190.24	190.16	190.09	
12	190.17	190.51	190.38	190.80	196.08	193.38	190.98	190.58	190.33	190.23	190.14	190.10	
13	190.13	190.57	190.66	190.70	196.44	194.52	190.92	190.58	190.33	190.24	190.13	190.11	
14	190.10	190.49	190.82	190.68	196.66	195.78	190.93	190.57	190.33	190.25	190.14	190.13	
15	190.09	190.55	190.88	190.75	196.89	196.45	191.26	190.56	190.33	190.24	190.15	190.11	
16	190.08	190.56	190.69	190.63	197.03	196.88	192.18	190.55	190.32	190.24	190.15	190.11	
17	190.08	190.50	190.74	190.58	197.08	197.09	193.85	190.52	190.33	190.23	190.17	190.12	
18	190.08	190.43	190.54	190.57	196.94	197.21	194.20	190.51	190.33	190.23	190.17	190.11	
19	190.06	190.40	190.47	190.60	196.37	197.16	192.93	190.50	190.32	190.22	190.20	190.09	
20	190.05	190.42	190.47	190.73	194.97	196.71	191.70	190.50	190.31	190.22	190.20	190.05	
21	190.06	190.42	190.46	190.99	193.57	195.15	191.24	190.49	190.31	190.23	190.21	190.04	
22	190.24	190.38	190.43	190.94	193.94	193.11	191.11	190.48	190.30	190.23	190.29	190.05	
23	190.32	190.35	190.40	190.76	194.81	192.06	191.01	190.45	190.30	190.24	190.26	190.04	
24	190.25	190.32	190.36	190.70	195.20	192.11	190.94	190.44	190.29	190.24	190.26	190.02	
25	190.18	190.30	190.33	190.66	195.20	191.79	190.88	190.44	190.29	190.24	190.24	190.01	
26	190.15	190.27	190.29	190.69	195.37	191.42	190.83	190.44	190.29	190.23	190.21	190.07	
27	190.13	190.26	190.26	190.81	195.53	191.57	190.80	190.43	190.28	190.22	190.21	190.10	
28	190.29	190.38	190.23	190.90	194.98	191.61	190.78	190.43	190.27	190.22	190.20	190.10	
29	190.35	190.51	190.22	190.73	194.37	191.19	190.77	190.42	190.27	190.22	190.19	190.10	
30	190.32	190.78	190.22	190.83	193.92	191.06	190.77	190.42	190.27	190.21		190.11	
31		190.69		191.52	193.12		190.75		190.26	190.20		190.16	
Mean	190.14	190.45	190.47	190.73	194.10	194.16	191.36	190.55	190.33	190.24	190.19	190.11	
Max	190.35	190.90	190.88	191.52	197.08	197.21	194.20	190.73	190.42	190.26	190.29	190.23	197.21
Min	189.99	190.22	190.22	190.22	190.66	191.06	190.75	190.42	190.26	190.20	190.13	190.01	189.99

Annual Max Momentary Gage Height 197.23 M (MSL), at 24.00 Hours, on Sep 18, 1995
Zero Gage at Bottom Elevation 186.07 M (MSL), River Bed 185.71 M (MSL)
Left Bank Elevation 197.31 M (MSL)
Right Bank Elevation 197.65 M (MSL), Drainage Area 4254 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.7	5.2	10.1	3.5	98.8	122.8	12.7	11.1	9.6	4.5	2.9	2.9	
2	1.7	4.3	9.8	7.9	12.5	140.0	12.9	11.0	9.6	4.5	2.9	3.7	
3	1.4	3.5	9.6	10.3	11.7	151.6	12.9	11.0	9.6	4.5	2.8	2.8	
4	1.0	4.3	10.2	10.4	11.1	187.8	13.4	10.9	9.6	4.5	2.8	2.4	
5	1.0	4.8	9.8	11.0	10.8	266.4	13.5	11.0	9.5	4.5	2.7	2.3	
6	1.8	9.7	9.1	11.0	10.9	307.9	13.9	11.0	9.1	4.5	2.7	2.3	
7	2.3	12.0	10.0	10.8	12.1	328.2	14.2	10.7	8.7	4.5	2.7	2.2	
8	2.3	11.3	8.7	11.4	14.1	316.0	94.4	10.7	8.3	4.5	2.6	2.3	
9	2.8	10.3	11.8	11.4	118.8	250.5	14.1	10.5	7.9	4.3	2.7	2.4	
10	2.6	10.1	7.1	11.9	166.0	189.2	13.0	10.5	7.5	4.3	2.7	2.0	
11	2.6	10.0	9.8	11.6	247.0	163.2	12.8	10.5	7.1	4.0	2.6	1.9	
12	2.7	10.1	8.7	11.5	305.6	165.2	12.4	10.4	6.7	3.7	2.4	2.0	
13	2.3	10.4	10.8	11.0	341.8	217.0	12.1	10.4	6.7	4.0	2.3	2.1	
14	2.0	10.0	11.6	10.9	373.0	284.6	12.1	10.4	6.7	4.3	2.4	2.3	
15	1.9	10.3	11.9	11.3	411.2	343.0	13.8	10.3	6.7	4.0	2.5	2.1	
16	1.8	10.3	11.0	10.7	438.9	409.4	117.2	10.3	6.3	4.0	2.5	2.1	
17	1.8	10.0	11.2	10.4	450.4	452.7	184.3	10.1	6.7	3.7	2.7	2.2	
18	1.8	9.6	10.2	10.4	420.6	487.2	201.0	10.1	6.7	3.7	2.7	2.1	
19	1.6	9.5	9.9	10.5	333.7	472.4	147.2	10.0	6.3	3.5	3.0	1.9	
20	1.5	9.6	9.9	11.1	239.5	380.6	98.0	10.0	5.9	3.5	3.0	1.5	
21	1.6	9.6	9.8	12.5	172.8	248.5	13.7	10.0	5.9	3.7	3.3	1.4	
22	4.0	8.7	9.6	12.2	188.3	154.4	13.1	9.9	5.5	3.7	5.2	1.5	
23	6.3	7.5	9.5	11.3	231.5	112.4	12.5	9.8	5.5	4.0	4.5	1.4	
24	4.3	6.3	7.9	11.0	251.0	114.4	12.2	9.7	5.2	4.0	4.5	1.2	
25	2.8	5.5	6.7	10.8	251.0	101.6	11.9	9.7	5.2	4.0	4.0	1.1	
26	2.5	4.8	5.2	11.0	259.5	14.6	11.7	9.7	5.2	3.7	3.3	1.7	
27	2.3	4.5	4.5	11.6	268.8	93.7	11.5	9.6	5.0	3.5	3.3	2.0	
28	5.2	8.7	3.7	12.0	240.0	94.4	11.4	9.6	4.8	3.5	3.0	2.0	
29	7.5	10.1	3.5	11.1	209.5	13.5	11.4	9.6	4.8	3.5	2.9	2.0	
30	6.3	11.4	3.5	11.7	187.4	12.8	11.4	9.6	4.8	3.3		2.1	
31		11.0		93.2	154.8		11.3		4.5	3.0		2.6	
Total	81.4	263.4	265.1	417.4	6443.1	6596.0	1158.0	308.1	211.6	122.9	87.6	64.5	16019.1 CMSDAY
Mean	2.7	8.5	8.8	13.5	207.8	219.9	37.4	10.3	6.8	4.0	3.0	2.1	43.8 CMS
Max	7.5	12.0	11.9	93.2	450.4	487.2	201.0	11.1	9.6	4.5	5.2	3.7	487.2 CMS
Min	1.0	3.5	3.5	3.5	10.8	12.8	11.3	9.6	4.5	3.0	2.3	1.1	1.0 CMS
Runoff	7.03	22.76	22.90	36.06	556.68	569.89	100.05	26.62	18.28	10.62	7.57	5.57	1384.05 MCM

Momentary Peak 493.60 CMS, at 197.23 M (MSL), at 24.00 Hours, on Sep 18, 1995

Runoff Yield 10.29 Liters/Second/Square KM, Momentary Peak Yield 116.032 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

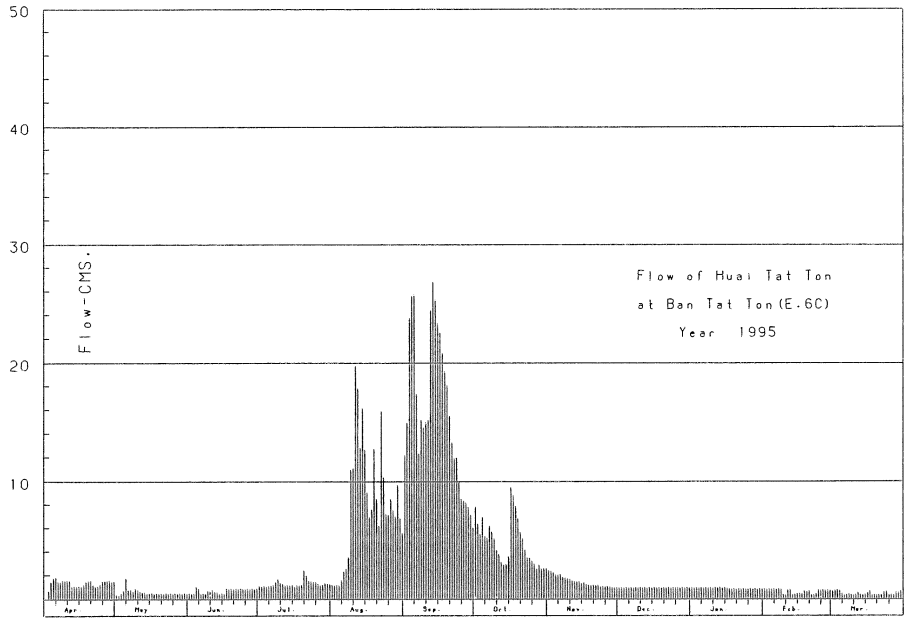
Huai Tat Ton at Ban Tat Ton, Chaiyaphum (E.6C)

Location	Lat. 15-57-36 N., Long. 102-01-57 E., on right bank about 5 kilometers upstream from E.6A station at Ban Tat Ton, Amphoe Muang, Chaiyaphum.
Drainage Area	300 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+6.840 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1973 to date.
Rating Operation	
Period of Rating	1973 to date.
Rated by Float	-
Rated by Current Meter	1973 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. 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 17 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.30	-0.19	-0.17	0.04	0.08	2.16	1.49	0.47	0.01	0.00	-0.03	-0.10	
2	-0.10	-0.22	-0.17	0.04	0.08	2.57	1.24	0.45	0.01	0.00	-0.03	-0.08	
3	0.15	-0.18	-0.17	0.03	0.08	3.68	1.07	0.42	0.01	0.00	-0.03	-0.08	
4	0.28	-0.10	0.04	0.03	0.07	3.90	1.33	0.38	0.01	0.00	-0.03	-0.08	
5	0.29	0.26	-0.02	0.03	0.19	3.91	1.06	0.37	0.01	-0.01	-0.03	-0.17	
6	0.15	-0.06	-0.17	0.08	0.45	2.87	1.01	0.35	0.01	-0.01	-0.03	-0.20	
7	0.15	-0.08	-0.17	0.07	0.49	2.18	1.22	0.31	0.00	-0.01	-0.03	-0.21	
8	0.20	-0.10	-0.17	0.17	0.71	2.59	1.12	0.28	0.00	-0.01	-0.05	-0.18	
9	0.20	-0.05	-0.10	0.23	1.97	2.52	1.01	0.26	0.00	-0.01	-0.21	-0.20	
10	0.19	-0.06	-0.10	0.13	2.00	2.56	0.82	0.23	0.00	-0.01	-0.21	-0.21	
11	0.21	-0.11	-0.08	0.09	3.16	2.60	0.74	0.21	0.00	-0.01	-0.06	-0.21	
12	0.04	-0.15	-0.10	0.08	2.94	3.76	0.63	0.18	0.00	-0.01	-0.07	-0.14	
13	0.03	-0.15	-0.15	0.06	2.25	4.03	0.57	0.17	0.00	-0.01	-0.20	-0.20	
14	0.03	-0.16	-0.16	0.05	2.72	3.87	0.58	0.16	0.00	-0.01	-0.21	-0.21	
15	0.03	-0.16	-0.17	0.05	2.23	3.62	0.71	0.13	0.00	-0.01	-0.17	-0.21	
16	0.03	-0.17	-0.17	0.04	1.67	3.53	1.74	0.12	0.00	-0.01	-0.17	-0.15	
17	0.06	-0.17	-0.04	0.06	1.34	3.31	1.64	0.10	0.00	-0.02	-0.18	-0.10	
18	0.15	-0.17	-0.05	0.05	1.43	3.11	1.48	0.08	0.00	-0.02	-0.10	-0.19	
19	0.20	-0.17	-0.05	0.08	2.25	2.97	1.32	0.06	0.00	-0.02	-0.10	-0.21	
20	0.21	-0.17	-0.05	0.47	1.58	2.64	1.12	0.06	0.00	-0.02	-0.10	-0.21	
21	0.05	-0.17	-0.05	0.33	1.22	2.33	1.02	0.06	0.00	-0.02	-0.21	-0.21	
22	0.03	-0.18	-0.05	0.20	2.70	2.12	0.82	0.05	0.00	-0.03	-0.21	-0.21	
23	0.04	-0.17	-0.05	0.17	1.88	2.12	0.71	0.04	0.00	-0.03	-0.16	-0.13	
24	0.11	-0.16	-0.05	0.18	1.37	1.81	0.68	0.03	0.00	-0.03	-0.08	-0.10	
25	0.17	-0.17	-0.05	0.15	1.36	1.59	0.64	0.02	0.00	-0.03	-0.08	-0.20	
26	0.20	-0.17	-0.05	0.11	1.58	1.57	0.58	0.02	0.00	-0.03	-0.08	-0.21	
27	0.21	-0.17	-0.05	0.08	1.43	1.53	0.51	0.02	0.00	-0.03	-0.08	-0.21	
28	0.19	-0.17	-0.05	0.06	1.33	1.46	0.57	0.01	0.00	-0.03	-0.08	-0.13	
29	0.18	-0.17	-0.05	0.13	1.77	1.36	0.51	0.01	0.00	-0.03	-0.08	-0.12	
30	0.17	-0.16	-0.05	0.10	1.31	1.19	0.51	0.01	0.00	-0.03		-0.10	
31		-0.16		0.09	1.10		0.50		0.00	-0.03		-0.08	
Mean	0.12	-0.14	-0.09	0.11	1.44	2.65	0.93	0.17	0.00	-0.02	-0.11	-0.16	
Max	0.29	0.26	0.04	0.47	3.16	4.03	1.74	0.47	0.01	0.00	-0.03	-0.08	4.03
Min	-0.30	-0.22	-0.17	0.03	0.07	1.19	0.50	0.01	0.00	-0.03	-0.21	-0.21	-0.30

Annual Max Momentary Gage Height 4.06 M (A.D), at 6.00 Hours, on Sep 13, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.50 M (A.D)
Left Bank Elevation 7.41 M (A.D)
Right Bank Elevation 4.93 M (A.D), Drainage Area 300 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.1	0.4	0.5	1.1	1.2	12.2	7.9	2.5	1.0	1.0	0.9	0.7	
2	0.7	0.3	0.5	1.1	1.2	15.0	6.4	2.4	1.0	1.0	0.9	0.8	
3	1.5	0.5	0.5	1.1	1.2	23.8	5.5	2.3	1.0	1.0	0.9	0.8	
4	1.8	0.7	1.1	1.1	1.2	25.7	7.0	2.1	1.0	1.0	0.9	0.8	
5	1.9	1.8	0.9	1.1	1.6	25.8	5.4	2.1	1.0	1.0	0.9	0.5	
6	1.5	0.8	0.5	1.2	2.4	17.4	5.2	2.1	1.0	1.0	0.9	0.4	
7	1.5	0.8	0.5	1.2	2.6	12.4	6.3	1.9	1.0	1.0	0.9	0.4	
8	1.6	0.7	0.5	1.5	3.6	15.2	5.7	1.8	1.0	1.0	0.9	0.5	
9	1.6	0.9	0.7	1.7	11.0	14.6	5.2	1.8	1.0	1.0	0.4	0.4	
10	1.6	0.8	0.7	1.4	11.2	15.0	4.2	1.7	1.0	1.0	0.4	0.4	
11	1.6	0.7	0.8	1.3	19.7	15.2	3.8	1.6	1.0	1.0	0.8	0.4	
12	1.1	0.6	0.7	1.2	17.9	24.5	3.2	1.5	1.0	1.0	0.8	0.6	
13	1.1	0.6	0.6	1.2	12.8	26.9	2.9	1.5	1.0	1.0	0.4	0.4	
14	1.1	0.5	0.5	1.2	16.2	25.4	3.0	1.5	1.0	1.0	0.4	0.4	
15	1.1	0.5	0.5	1.2	12.7	23.4	3.6	1.4	1.0	1.0	0.5	0.4	
16	1.1	0.5	0.5	1.1	9.1	22.6	9.5	1.4	1.0	1.0	0.5	0.6	
17	1.2	0.5	0.9	1.2	7.0	20.9	8.9	1.3	1.0	0.9	0.5	0.7	
18	1.5	0.5	0.9	1.2	7.6	19.3	7.9	1.2	1.0	0.9	0.7	0.4	
19	1.6	0.5	0.9	1.2	12.8	18.2	6.9	1.2	1.0	0.9	0.7	0.4	
20	1.6	0.5	0.9	2.5	8.5	15.6	5.7	1.2	1.0	0.9	0.7	0.4	
21	1.2	0.5	0.9	2.0	6.3	13.3	5.2	1.2	1.0	0.9	0.4	0.4	
22	1.1	0.5	0.9	1.6	16.0	12.0	4.2	1.2	1.0	0.9	0.4	0.4	
23	1.1	0.5	0.9	1.5	10.4	12.0	3.6	1.1	1.0	0.9	0.5	0.6	
24	1.3	0.5	0.9	1.5	7.2	10.0	3.5	1.1	1.0	0.9	0.8	0.7	
25	1.5	0.5	0.9	1.5	7.2	8.5	3.3	1.1	1.0	0.9	0.8	0.4	
26	1.6	0.5	0.9	1.3	8.5	8.4	3.0	1.1	1.0	0.9	0.8	0.4	
27	1.6	0.5	0.9	1.2	7.6	8.2	2.6	1.1	1.0	0.9	0.8	0.4	
28	1.6	0.5	0.9	1.2	7.0	7.8	2.9	1.0	1.0	0.9	0.8	0.6	
29	1.5	0.5	0.9	1.4	9.7	7.2	2.6	1.0	1.0	0.9	0.8	0.6	
30	1.5	0.5	0.9	1.3	6.9	6.1	2.6	1.0	1.0	0.9		0.7	
31		0.5		1.3	5.6		2.6		1.0	0.9		0.8	
Total	40.8	18.6	22.6	41.6	253.9	482.6	150.3	45.4	31.0	29.5	20.1	16.4	1152.8 CMSDAY
Mean	1.4	0.6	0.8	1.3	8.2	16.1	4.8	1.5	1.0	1.0	0.7	0.5	3.1 CMS
Max	1.9	1.8	1.1	2.5	19.7	26.9	9.5	2.5	1.0	1.0	0.9	0.8	26.9 CMS
Min	0.1	0.3	0.5	1.1	1.2	6.1	2.6	1.0	1.0	0.9	0.4	0.4	0.1 CMS
Runoff	3.53	1.61	1.95	3.59	21.94	41.70	12.99	3.92	2.68	2.55	1.74	1.42	99.60 MCM

Momentary Peak 27.14 CMS, at 4.06 M (A.D), at 6.00 Hours, on Sep 13, 1995

Runoff Yield 10.50 Liters/Second/Square KM, Momentary Peak Yield 90.467 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

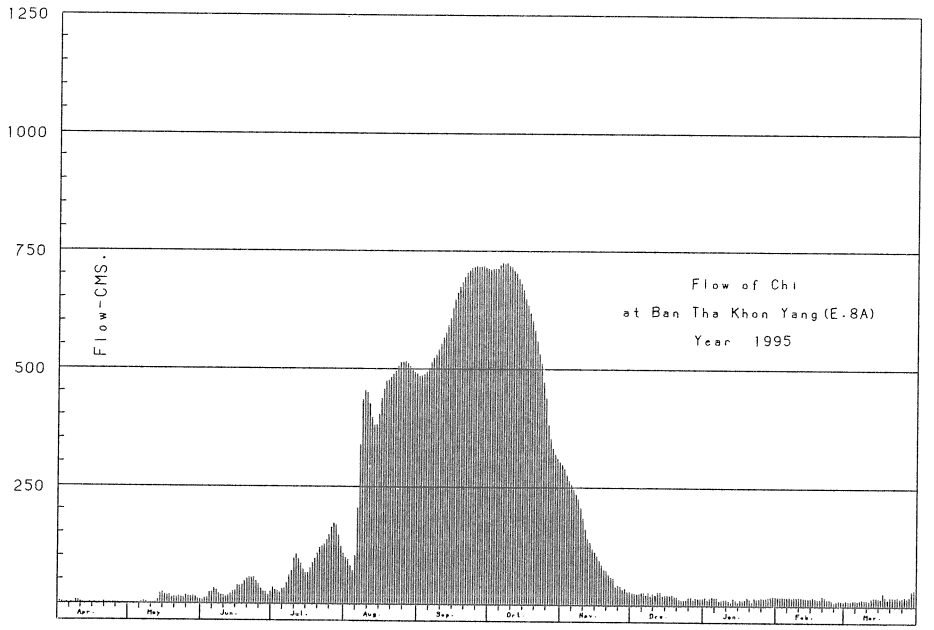
Chi River at Ban Din Dam, Maha Sarakham (E.8A)

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	Staff gage.
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	3-time daily redings at 07.00, 12.00, and 17.00 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	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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Kui Chuak barrage above gage site. Stage-discharge relation defined by 21 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	133.86	133.69	134.00	134.65	135.90	141.33	143.24	138.94	134.46	134.21	134.28	134.07	
2	133.77	133.68	134.07	134.55	135.83	141.32	143.26	138.81	134.41	134.11	134.24	134.07	
3	133.72	133.70	134.11	134.48	135.61	141.37	143.25	138.65	134.41	134.17	134.28	134.03	
4	133.73	133.69	134.36	134.41	135.37	141.42	143.26	138.48	134.41	134.27	134.24	134.11	
5	133.73	133.70	134.42	134.61	135.99	141.52	143.30	138.38	134.48	134.22	134.24	134.10	
6	133.74	133.81	134.60	134.59	137.65	141.67	143.31	138.21	134.44	134.20	134.25	134.04	
7	133.71	133.91	134.50	134.87	139.50	141.77	143.31	138.08	134.34	134.05	134.22	134.11	
8	133.96	133.80	134.35	135.17	140.68	141.86	143.31	137.92	134.45	134.07	134.24	134.12	
9	133.91	133.74	134.23	135.38	140.94	141.97	143.29	137.67	134.30	134.12	134.26	134.13	
10	133.81	133.72	134.23	135.89	140.87	142.11	143.27	137.32	134.40	134.10	134.23	134.09	
11	133.76	133.74	134.18	136.03	140.59	142.23	143.23	136.98	134.35	134.04	134.22	134.08	
12	133.72	133.76	134.20	135.86	140.21	142.33	143.21	136.62	134.49	133.99	134.23	134.20	
13	133.74	134.01	134.33	135.67	140.00	142.46	143.15	136.51	134.48	134.17	134.19	134.23	
14	133.74	134.34	134.42	135.46	140.03	142.60	143.08	136.26	134.31	134.11	134.19	134.25	
15	133.74	134.38	134.49	135.27	140.30	142.76	143.00	136.16	134.31	133.98	134.20	134.20	
16	133.74	134.28	134.76	135.28	140.71	142.87	142.89	136.00	134.32	134.08	134.22	134.20	
17	133.73	134.24	134.71	135.48	140.98	142.97	142.79	135.84	134.32	134.07	134.18	134.49	
18	133.72	134.24	134.79	135.72	141.18	143.04	142.68	135.66	134.32	134.08	134.11	134.26	
19	133.73	134.13	134.91	135.86	141.22	143.11	142.54	135.49	134.27	134.23	134.16	134.16	
20	133.80	134.13	135.05	136.09	141.27	143.16	142.37	135.43	134.23	134.12	134.29	134.25	
21	133.75	134.14	135.09	136.28	141.36	143.21	142.17	135.28	134.14	133.97	134.23	134.25	
22	133.72	134.19	135.09	136.36	141.45	143.24	141.89	135.16	134.08	134.21	134.14	134.26	
23	133.71	134.12	135.09	136.40	141.58	143.26	141.64	135.11	134.05	134.11	134.17	134.26	
24	133.76	134.11	134.95	136.57	141.66	143.28	141.17	134.75	134.10	134.17	134.06	134.20	
25	133.80	134.22	134.79	136.73	141.68	143.28	140.74	134.80	134.19	134.19	133.99	134.21	
26	133.78	134.17	134.61	137.00	141.68	143.28	140.04	134.76	134.21	134.20	134.02	134.26	
27	133.73	134.17	134.45	137.15	141.65	143.28	139.67	134.63	134.11	134.19	134.10	134.22	
28	133.71	134.19	134.40	137.07	141.56	143.28	139.39	134.65	134.17	134.21	134.04	134.27	
29	133.69	134.17	134.28	136.75	141.48	143.27	139.23	134.51	134.18	134.27	134.05	134.59	
30	133.70	134.03	134.42	136.34	141.41	143.25	139.10	134.49	134.14	134.27		134.62	
31		134.00		136.06	141.37		139.01		134.19	134.27		134.61	
Mean	133.76	134.01	134.53	135.74	140.06	142.55	142.12	136.39	134.29	134.14	134.18	134.22	
Max	133.96	134.38	135.09	137.15	141.68	143.28	143.31	138.94	134.49	134.27	134.29	134.62	143.31
Min	133.69	133.68	134.00	134.41	135.37	141.32	139.01	134.49	134.05	133.97	133.99	134.03	133.68

Annual Max Momentary Gage Height 143.31 M (MSL), at 12.00 Hours, on Oct 6, 1995
Zero Gage at Bottom Elevation 133.21 M (MSL), River Bed 133.35 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.2	1.9	9.0	35.2	98.5	486.4	711.0	298.5	27.4	17.4	20.2	11.8	
2	3.4	1.8	11.8	31.0	94.6	485.6	715.0	288.7	25.4	13.4	18.6	11.8	
3	2.4	2.0	13.4	28.2	82.5	489.6	713.0	276.7	25.4	15.8	20.2	10.2	
4	2.6	1.9	23.4	25.4	70.5	493.7	715.0	264.0	25.4	19.8	18.6	13.4	
5	2.6	2.0	25.8	33.4	103.5	502.2	723.0	256.6	28.2	17.8	18.6	13.0	
6	2.8	4.2	33.0	32.6	205.5	514.9	725.1	244.7	26.6	17.0	19.0	10.6	
7	2.2	6.3	29.0	45.5	340.5	523.5	725.1	235.6	22.6	11.0	17.8	13.4	
8	7.8	4.0	23.0	60.5	434.4	531.4	725.1	224.4	27.0	11.8	18.6	13.8	
9	6.3	2.8	18.2	71.0	455.2	541.3	721.0	206.9	21.0	13.8	19.4	14.2	
10	4.2	2.4	18.2	97.9	449.6	555.0	717.0	183.8	25.0	13.0	18.2	12.6	
11	3.2	2.8	16.2	105.6	427.2	567.3	709.0	161.8	23.0	10.6	17.8	12.2	
12	2.4	3.2	17.0	96.3	396.8	578.3	705.0	140.2	28.6	8.7	18.2	17.0	
13	2.8	9.4	22.2	85.8	380.0	593.2	693.5	133.6	28.2	15.8	16.6	18.2	
14	2.8	22.6	25.8	75.0	382.4	610.0	680.8	118.6	21.4	13.4	16.6	19.0	
15	2.8	24.2	28.6	65.5	404.0	631.4	668.0	112.8	21.4	8.4	17.0	17.0	
16	2.8	20.2	40.2	66.0	436.8	647.5	650.5	104.0	21.8	12.2	17.8	17.0	
17	2.6	18.6	38.0	76.0	458.4	663.2	635.6	95.2	21.8	11.8	16.2	28.6	
18	2.4	18.6	41.5	88.6	474.4	674.4	620.4	85.3	21.8	12.2	13.4	19.4	
19	2.6	14.2	47.5	96.3	477.6	685.9	602.8	76.5	19.8	18.2	15.4	15.4	
20	4.0	14.2	54.5	108.9	481.6	695.4	582.7	73.5	18.2	13.8	20.6	19.0	
21	3.0	14.6	56.5	119.8	488.8	705.0	561.0	66.0	14.6	8.1	18.2	19.0	
22	2.4	16.6	56.5	124.6	496.3	711.0	534.1	60.0	12.2	17.4	14.6	19.4	
23	2.2	13.8	56.5	127.0	507.3	715.0	512.4	57.5	11.0	13.4	15.8	19.4	
24	3.2	13.4	49.5	137.2	514.1	719.0	473.6	39.7	13.0	15.8	11.4	17.0	
25	4.0	17.8	41.5	146.8	515.8	719.0	439.2	42.0	16.6	16.6	8.7	17.4	
26	3.6	15.8	33.4	163.0	515.8	719.0	383.2	40.2	17.4	17.0	9.8	19.4	
27	2.6	15.8	27.0	172.7	513.2	719.0	353.6	34.3	13.4	16.6	13.0	17.8	
28	2.2	16.6	25.0	167.6	505.6	719.0	332.2	35.2	15.8	17.4	10.6	19.8	
29	1.9	15.8	20.2	148.0	498.8	717.0	320.2	29.4	16.2	19.8	11.0	32.6	
30	2.0	10.2	25.8	123.4	492.9	713.0	310.5	28.6	14.6	19.8		33.9	
31		9.0		107.3	489.6		303.7		16.6	19.8		33.4	
Total	95.0	336.7	928.2	2862.1	12192.2	18626.2	18262.3	4014.3	641.4	457.6	471.9	556.7	59444.6 CMSDAY
Mean	3.2	10.9	30.9	92.3	393.3	620.9	589.1	133.8	20.7	14.8	16.3	18.0	162.4 CMS
Max	7.8	24.2	56.5	172.7	515.8	719.0	725.1	298.5	28.6	19.8	20.6	33.9	725.1 CMS
Min	1.9	1.8	9.0	25.4	70.5	485.6	303.7	28.6	11.0	8.1	8.7	10.2	1.8 CMS
Runoff	8.21	29.09	80.20	247.29	1053.41	1609.30	1577.86	346.84	55.42	39.54	40.77	48.10	5136.01 MCM

Momentary Peak 725.10 CMS, at 143.31 M (MSL), at 12.00 Hours, on Oct 6, 1995
Runoff Yield 5.28 Liters/Second/Square KM, Momentary Peak Yield 23.570 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

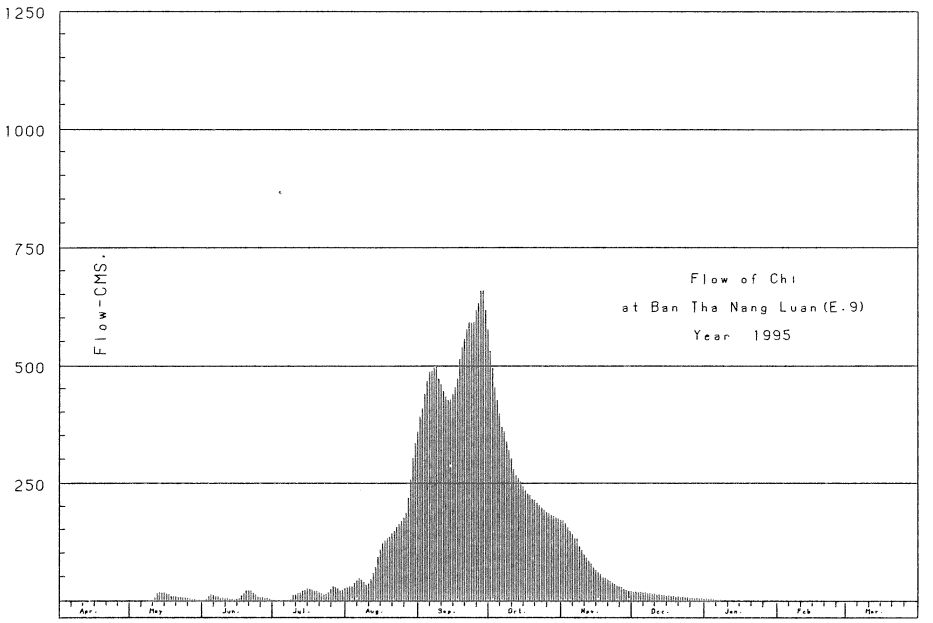
Chi River at Ban Chot, Khon Kaen (E.9)

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	3-time daily readings at 07.00, 12.00, and 17.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 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 22 discharge measurements made in 1995

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.90	151.92	152.45	152.56	154.85	161.76	161.96	160.29	154.21	153.00	152.52	152.20	
2	151.90	151.92	152.74	152.49	154.90	161.79	161.92	160.17	154.19	152.97	152.52	152.24	
3	151.92	151.93	153.45	152.45	154.98	161.84	161.86	159.87	154.18	152.95	152.51	152.26	
4	151.94	151.95	153.78	152.42	155.34	161.88	161.82	159.67	154.17	152.90	152.50	152.27	
5	151.98	152.03	153.71	152.38	155.67	161.91	161.77	159.42	154.13	152.86	152.49	152.29	
6	152.04	152.11	153.44	152.32	155.84	161.91	161.72	159.17	154.09	152.81	152.48	152.31	
7	152.10	152.08	153.34	152.41	155.73	161.92	161.70	159.10	154.04	152.74	152.48	152.33	
8	152.08	152.07	153.12	152.84	155.46	161.92	161.65	158.60	154.01	152.67	152.47	152.32	
9	152.05	152.10	153.12	153.60	155.21	161.89	161.60	158.29	153.97	152.58	152.46	152.32	
10	152.02	152.26	153.04	153.80	155.29	161.87	161.56	158.00	153.93	152.57	152.45	152.31	
11	151.98	153.22	152.99	153.95	155.78	161.85	161.50	157.69	153.84	152.65	152.44	152.32	
12	151.97	154.00	152.95	154.11	156.40	161.83	161.45	157.48	153.80	152.71	152.43	152.31	
13	151.99	154.07	152.86	154.31	156.96	161.82	161.42	157.23	153.76	152.63	152.42	152.32	
14	152.02	154.09	152.81	154.47	157.74	161.82	161.39	156.92	153.69	152.60	152.40	152.30	
15	152.00	154.03	152.85	154.59	158.34	161.84	161.32	156.67	153.63	152.57	152.39	152.25	
16	151.98	153.94	153.09	154.63	158.77	161.86	161.25	156.51	153.58	152.56	152.37	152.20	
17	151.97	153.81	153.51	154.45	159.00	161.89	161.20	156.30	153.52	152.57	152.35	152.16	
18	151.95	153.49	154.02	154.34	159.13	161.94	161.16	156.00	153.47	152.59	152.35	152.13	
19	151.94	153.38	154.34	154.26	159.26	161.97	161.09	155.92	153.43	152.61	152.33	152.16	
20	151.93	153.34	154.43	154.15	159.46	161.99	161.05	155.77	153.39	152.63	152.31	152.20	
21	151.93	153.28	154.34	153.96	159.67	162.01	160.99	155.59	153.36	152.61	152.28	152.15	
22	151.92	153.23	154.09	153.80	159.90	162.02	160.91	155.44	153.34	152.60	152.27	152.15	
23	151.91	153.21	153.76	153.86	160.13	162.02	160.84	155.25	153.30	152.59	152.23	152.14	
24	151.90	153.14	153.45	154.14	160.26	162.02	160.76	155.12	153.24	152.58	152.21	152.12	
25	151.90	153.02	153.31	154.59	160.44	162.04	160.69	154.98	153.20	152.58	152.18	152.11	
26	151.92	152.93	153.24	154.92	160.65	162.05	160.62	154.88	153.15	152.58	152.17	152.10	
27	151.92	152.83	153.11	154.87	161.10	162.07	160.56	154.61	153.13	152.57	152.16	152.11	
28	151.92	152.73	152.99	154.60	161.41	162.07	160.50	154.45	153.11	152.55	152.15	152.13	
29	151.93	152.62	152.85	154.39	161.56	162.04	160.45	154.37	153.09	152.54	152.17	152.12	
30	151.92	152.56	152.81	154.40	161.64	162.01	160.38	154.30	153.04	152.53		152.09	
31		152.47		154.63	161.70		160.33		153.02	152.51		152.08	
Mean	151.96	152.90	153.33	153.83	158.15	161.93	161.21	156.94	153.61	152.66	152.36	152.21	
Max	152.10	154.09	154.43	154.92	161.70	162.07	161.96	160.29	154.21	153.00	152.52	152.33	162.07
Min	151.90	151.92	152.45	152.32	154.85	161.76	160.33	154.30	153.02	152.51	152.15	152.08	151.90

Annual Max Momentary Gage Height 162.08 M (MSL), at 15.00 Hours, on Sep 27, 1995
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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.1	0.2	2.2	2.8	29.8	393.0	531.0	171.0	20.2	6.0	2.6	1.0	
2	0.1	0.2	3.8	2.5	30.5	409.5	497.0	166.0	19.9	5.7	2.6	1.2	
3	0.2	0.2	10.5	2.2	31.7	441.0	454.0	156.0	19.7	5.5	2.5	1.3	
4	0.2	0.3	14.1	2.1	37.8	467.0	428.0	149.8	19.6	5.0	2.5	1.4	
5	0.3	0.5	13.3	1.9	44.4	488.5	398.5	142.0	19.0	4.7	2.5	1.4	
6	0.5	0.7	10.4	1.6	47.8	488.5	371.0	134.3	18.4	4.3	2.4	1.6	
7	0.7	0.6	9.4	2.1	45.6	497.0	360.0	132.1	17.6	3.8	2.4	1.7	
8	0.6	0.6	7.2	4.6	40.2	497.0	340.0	117.4	17.2	3.4	2.4	1.6	
9	0.6	0.7	7.2	12.1	35.2	473.5	320.0	108.4	16.6	2.9	2.3	1.6	
10	0.5	1.3	6.4	14.3	36.8	460.5	304.0	100.0	15.9	2.9	2.2	1.6	
11	0.3	8.2	5.9	16.3	46.6	447.5	280.0	91.7	14.8	3.2	2.2	1.6	
12	0.3	17.0	5.5	18.7	59.6	434.5	268.0	86.3	14.3	3.6	2.1	1.6	
13	0.4	18.1	4.7	21.7	73.0	428.0	260.8	79.8	13.9	3.2	2.1	1.6	
14	0.5	18.4	4.3	24.1	93.0	428.0	254.4	72.1	13.1	3.0	2.0	1.5	
15	0.4	17.5	4.6	25.9	109.9	441.0	243.2	66.1	12.4	2.9	2.0	1.3	
16	0.3	16.1	6.9	26.5	122.3	454.0	234.5	62.2	11.9	2.8	1.8	1.0	
17	0.3	14.4	11.1	23.8	129.0	473.5	229.0	57.4	11.2	2.9	1.8	0.9	
18	0.3	10.9	17.3	22.1	133.0	514.0	225.0	51.0	10.7	2.9	1.8	0.8	
19	0.2	9.8	22.1	20.9	137.1	539.5	218.1	49.4	10.3	3.1	1.7	0.9	
20	0.2	9.4	23.4	19.2	143.3	556.5	214.5	46.4	9.9	3.2	1.6	1.0	
21	0.2	8.8	22.1	16.4	149.8	578.5	209.3	42.8	9.6	3.1	1.4	0.8	
22	0.2	8.3	18.4	14.3	156.9	592.0	203.7	39.8	9.4	3.0	1.4	0.8	
23	0.1	8.1	13.9	15.0	164.6	592.0	198.8	36.0	9.0	2.9	1.1	0.8	
24	0.1	7.4	10.5	19.1	169.7	592.0	193.8	33.8	8.4	2.9	1.1	0.8	
25	0.1	6.2	9.1	25.9	177.8	619.0	189.9	31.7	8.0	2.9	0.9	0.7	
26	0.2	5.3	8.4	30.8	187.7	632.5	186.1	30.2	7.5	2.9	0.9	0.7	
27	0.2	4.5	7.1	30.0	219.0	659.5	183.2	26.2	7.3	2.9	0.9	0.7	
28	0.2	3.7	5.9	26.0	258.4	659.5	180.5	23.8	7.1	2.8	0.8	0.8	
29	0.2	3.1	4.6	22.9	304.0	619.0	178.2	22.6	6.9	2.7	0.9	0.8	
30	0.2	2.8	4.3	23.0	336.0	578.5	175.1	21.5	6.4	2.7		0.7	
31		2.4		26.5	360.0		172.9		6.2	2.5		0.6	
Total	8.7	205.7	294.6	515.3	3910.5	15454.5	8502.5	2347.8	392.4	106.3	52.9	34.8	31826.0 CMSDAY
Mean	0.3	6.6	9.8	16.6	126.1	515.2	274.3	78.3	12.7	3.4	1.8	1.1	87.0 CMS
Max	0.7	18.4	23.4	30.8	360.0	659.5	531.0	171.0	20.2	6.0	2.6	1.7	659.5 CMS
Min	0.1	0.2	2.2	1.6	29.8	393.0	172.9	21.5	6.2	2.5	0.8	0.6	0.1 CMS
Runoff	0.75	17.77	25.45	44.52	337.87	1335.27	734.62	202.85	33.90	9.18	4.57	3.01	2749.77 MCM

Momentary Peak 673.00 CMS, at 162.08 M (MSL), at 15.00 Hours, on Sep 27, 1995
Runoff Yield 7.89 Liters/Second/Square KM, Momentary Peak Yield 61.071 Liters/Second/Square KM

WATER YEAR 1995

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 — 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 — 1957 to date.

Rating Operation

Period of Rating — 1963, 1965 to date.

Rated by Float — -

Rated by Current Meter — 1963, 1965 to date.

Stability of Channel Regimes — Stable because of backwater effect.

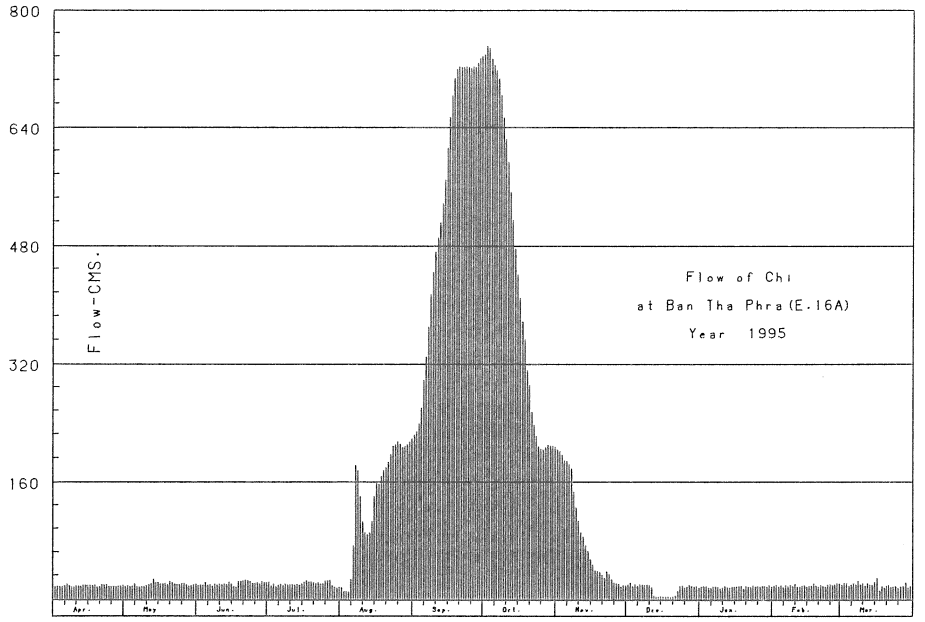
Overbank Flow Conditions — Overbank flow starts at elevation +151.68 m.(M.S.L.), records are channel flow only.

General Description — Records fair. Flow regulated by Kui Chuak barrage above gage site. Stage-discharge relation defined by 19 discharge measurements made in 1995

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	146.86	146.86	146.87	146.93	146.83	148.52	152.07	148.22	146.90	146.85	146.88	146.90	
2	146.86	146.87	146.89	146.87	146.76	148.58	152.11	148.18	146.92	146.87	146.89	146.92	
3	146.86	146.86	146.88	146.90	146.75	148.73	152.10	148.12	146.87	146.86	146.86	146.92	
4	146.85	146.86	146.93	146.86	146.75	149.01	152.05	147.99	146.90	146.84	146.88	146.88	
5	146.88	146.91	146.89	146.89	146.98	149.43	152.02	147.99	146.87	146.83	146.85	146.90	
6	146.90	146.85	146.89	146.90	147.34	149.74	151.99	147.91	146.89	146.85	146.88	146.91	
7	146.87	146.85	146.87	146.88	147.90	150.09	151.95	147.83	146.90	146.86	146.86	146.90	
8	146.85	146.85	146.90	146.90	147.78	150.43	151.86	147.74	146.88	146.84	146.88	146.95	
9	146.85	146.86	146.89	146.89	147.20	150.64	151.74	147.64	146.90	146.82	146.87	146.90	
10	146.87	146.87	146.90	146.89	146.57	150.81	151.61	147.54	146.88	146.83	146.90	146.91	
11	146.87	146.89	146.90	146.89	146.23	150.93	151.47	147.45	146.85	146.86	146.85	146.88	
12	146.87	146.91	146.90	146.89	146.17	151.04	151.27	147.42	146.63	146.85	146.86	146.92	
13	146.88	146.98	146.90	146.90	146.24	151.19	151.06	147.34	146.56	146.83	146.87	146.89	
14	146.88	146.92	146.93	146.89	146.57	151.35	150.84	147.29	146.57	146.86	146.89	146.89	
15	146.88	146.93	146.91	146.91	147.19	151.56	150.61	147.21	146.58	146.86	146.86	146.93	
16	146.88	146.90	146.85	146.93	147.51	151.74	150.39	147.15	146.57	146.85	146.86	146.99	
17	146.88	146.91	146.85	146.96	147.48	151.86	150.15	147.09	146.57	146.87	146.88	146.78	
18	146.88	146.91	146.94	146.93	147.66	151.95	149.94	147.08	146.56	146.86	146.91	146.86	
19	146.85	146.90	146.95	146.94	147.78	152.00	149.56	147.07	146.56	146.82	146.88	146.84	
20	146.86	146.94	146.95	146.92	147.85	152.01	149.35	147.03	146.57	146.86	146.85	146.87	
21	146.89	146.93	146.96	146.91	147.96	152.01	148.95	147.00	146.64	146.85	146.88	146.89	
22	146.89	146.91	146.96	146.93	148.13	152.01	148.71	147.08	146.77	146.85	146.87	146.85	
23	146.89	146.89	146.94	146.90	148.29	152.01	148.49	147.04	146.86	146.87	146.86	146.85	
24	146.86	146.90	146.92	146.91	148.33	152.01	148.29	146.98	146.88	146.86	146.89	146.87	
25	146.85	146.91	146.91	146.95	148.38	152.00	148.22	146.92	146.83	146.86	146.90	146.82	
26	146.86	146.91	146.93	146.95	148.34	152.01	148.22	146.91	146.85	146.86	146.89	146.85	
27	146.86	146.89	146.91	146.97	148.27	152.01	148.27	146.91	146.89	146.87	146.90	146.87	
28	146.86	146.86	146.94	146.88	148.28	152.03	148.31	146.86	146.86	146.86	146.91	146.93	
29	146.87	146.88	146.93	146.84	148.33	152.05	148.30	146.88	146.86	146.86	146.91	146.83	
30	146.88	146.89	146.92	146.83	148.37	152.06	148.29	146.87	146.86	146.88		146.86	
31		146.91		146.84	148.44		148.27		146.84	146.85		146.80	
Mean	146.87	146.89	146.91	146.90	147.51	151.06	150.21	147.36	146.78	146.85	146.88	146.88	
Max	146.90	146.98	146.96	146.97	148.44	152.06	152.11	148.22	146.92	146.88	146.91	146.99	152.11
Min	146.85	146.85	146.85	146.83	146.17	148.52	148.22	146.86	146.56	146.82	146.85	146.78	146.17

Annual Max Momentary Gage Height 152.12 M (MSL), at 17.00 Hours, on Oct 2, 1995
Zero Gage at Bottom Elevation 142.71 M (MSL), River Bed 141.76 M (MSL)
Left Bank Elevation 152.00 M (MSL)
Right Bank Elevation 151.67 M (MSL), Drainage Area 13171 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.2	18.2	18.9	23.7	16.1	224.4	739.6	204.3	21.0	17.5	19.6	21.0	
2	18.2	18.9	20.3	18.9	11.6	228.6	750.8	201.7	22.8	18.9	20.3	22.8	
3	18.2	18.2	19.6	21.0	11.0	239.7	748.0	197.8	18.9	18.2	18.2	22.8	
4	17.5	18.2	23.7	18.2	11.0	260.9	734.0	189.4	21.0	16.8	19.6	19.6	
5	19.6	21.9	20.3	20.3	28.2	299.0	725.6	189.4	18.9	16.1	17.5	21.0	
6	21.0	17.5	20.3	21.0	74.0	330.0	717.4	184.2	20.3	17.5	19.6	21.9	
7	18.9	17.5	18.9	19.6	183.5	370.8	707.0	178.9	21.0	18.2	18.2	21.0	
8	17.5	17.5	21.0	21.0	175.8	414.2	684.0	146.8	19.6	16.8	19.6	25.5	
9	17.5	18.2	20.3	20.3	141.0	445.0	654.0	126.0	21.0	15.4	18.9	21.0	
10	18.9	18.9	21.0	20.3	107.0	471.6	624.2	107.2	19.6	16.1	21.0	21.9	
11	18.9	20.3	21.0	20.3	91.3	491.4	593.7	91.5	17.5	18.2	17.5	19.6	
12	18.9	21.9	21.0	20.3	88.8	511.2	553.3	86.4	5.9	17.5	18.2	22.8	
13	19.6	28.2	21.0	21.0	91.8	538.2	514.8	74.0	3.8	16.1	18.9	20.3	
14	19.6	22.8	23.7	20.3	107.0	569.0	476.4	66.6	4.1	18.2	20.3	20.3	
15	19.6	23.7	21.9	21.9	140.5	613.2	440.5	55.4	4.4	18.2	18.2	23.7	
16	19.6	21.0	17.5	23.7	159.6	654.0	408.6	47.5	4.1	17.5	18.2	29.1	
17	19.6	21.9	17.5	26.4	157.8	684.0	378.0	39.9	4.1	18.9	19.6	12.8	
18	19.6	21.9	24.6	23.7	168.6	707.0	352.8	38.8	3.8	18.2	21.9	18.2	
19	17.5	21.0	25.5	24.6	175.8	720.0	312.0	37.7	3.8	15.4	19.6	16.8	
20	18.2	24.6	25.5	22.8	180.3	722.8	291.5	33.3	4.1	18.2	17.5	18.9	
21	20.3	23.7	26.4	21.9	187.4	722.8	256.2	30.0	6.2	17.5	19.6	20.3	
22	20.3	21.9	26.4	23.7	198.5	722.8	238.3	38.8	12.2	17.5	18.9	17.5	
23	20.3	20.3	24.6	21.0	208.8	722.8	222.3	34.4	18.2	18.9	18.2	17.5	
24	18.2	21.0	22.8	21.9	211.5	722.8	208.8	28.2	19.6	18.2	20.3	18.9	
25	17.5	21.9	21.9	25.5	214.7	720.0	204.3	22.8	16.1	18.2	21.0	15.4	
26	18.2	21.9	23.7	25.5	212.1	722.8	204.3	21.9	17.5	18.2	20.3	17.5	
27	18.2	20.3	21.9	27.3	207.6	722.8	207.6	21.9	20.3	18.9	21.0	18.9	
28	18.2	18.2	24.6	19.6	208.2	728.4	210.2	18.2	18.2	18.2	21.9	23.7	
29	18.9	19.6	23.7	16.8	211.5	734.0	209.5	19.6	18.2	18.2	21.9	16.1	
30	19.6	20.3	22.8	16.1	214.1	736.8	208.8	18.9	18.2	19.6		18.2	
31		21.9		16.8	218.8		207.6		16.8	17.5		14.0	
Total	566.3	643.3	662.3	665.4	4413.9	16751.0	13784.1	2551.5	441.2	548.8	565.5	619.0	42212.3 CMSDAY
Mean	18.9	20.8	22.1	21.5	142.4	558.4	444.6	85.0	14.2	17.7	19.5	20.0	115.3 CMS
Max	21.0	28.2	26.4	27.3	218.8	736.8	750.8	204.3	22.8	19.6	21.9	29.1	750.8 CMS
Min	17.5	17.5	17.5	16.1	11.0	224.4	204.3	18.2	3.8	15.4	17.5	12.8	3.8 CMS
Runoff	48.93	55.58	57.22	57.49	381.36	1447.29	1190.95	220.45	38.12	47.42	48.86	53.48	3647.14 MCM

Momentary Peak 753.60 CMS, at 152.12 M (MSL), at 17.00 Hours, on Oct 2, 1995
Runoff Yield 8.76 Liters/Second/Square KM, Momentary Peak Yield 57.217 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

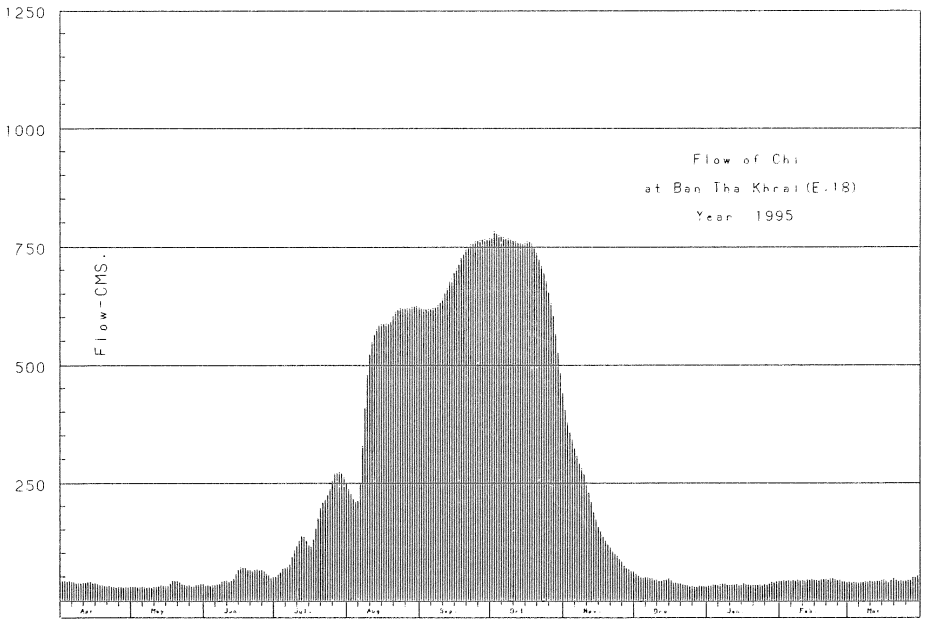
Chi River at Ban Tha Khrai, Roi Et (E.18)

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. Flow effected by Lam Nam Yang about 25 kilometers downstream. Stage-discharge relation defined by 150 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.57	123.27	123.34	123.80	126.53	130.15	130.94	128.30	123.93	123.31	123.59	123.51	
2	123.55	123.25	123.33	123.87	126.41	130.13	131.01	128.02	123.83	123.34	123.60	123.50	
3	123.55	123.24	123.32	123.99	126.29	130.14	130.99	127.82	123.78	123.37	123.60	123.51	
4	123.54	123.23	123.34	124.12	126.19	130.14	130.97	127.66	123.73	123.39	123.59	123.52	
5	123.54	123.25	123.36	124.17	126.23	130.14	130.96	127.48	123.78	123.37	123.59	123.49	
6	123.49	123.23	123.37	124.18	126.70	130.15	130.95	127.30	123.74	123.40	123.60	123.47	
7	123.45	123.22	123.42	124.30	127.53	130.16	130.94	127.14	123.73	123.44	123.60	123.52	
8	123.43	123.21	123.52	124.57	128.34	130.19	130.94	127.02	123.69	123.41	123.62	123.53	
9	123.45	123.21	123.59	124.80	129.00	130.23	130.93	126.89	123.64	123.37	123.60	123.53	
10	123.46	123.24	123.57	124.96	129.40	130.28	130.92	126.69	123.63	123.33	123.60	123.55	
11	123.49	123.27	123.53	125.12	129.63	130.35	130.91	126.45	123.59	123.36	123.61	123.57	
12	123.53	123.30	123.56	125.26	129.76	130.41	130.90	126.19	123.58	123.41	123.63	123.58	
13	123.50	123.32	123.70	125.23	129.84	130.49	130.89	125.94	123.60	123.40	123.65	123.56	
14	123.46	123.33	123.90	125.13	129.90	130.52	130.89	125.73	123.65	123.36	123.67	123.57	
15	123.43	123.29	124.08	124.98	129.91	130.59	130.89	125.53	123.69	123.38	123.64	123.60	
16	123.39	123.29	124.19	124.92	129.92	130.64	130.91	125.39	123.60	123.42	123.60	123.64	
17	123.36	123.44	124.19	125.17	129.92	130.69	130.91	125.25	123.49	123.40	123.60	123.59	
18	123.34	123.56	124.16	125.48	129.92	130.75	130.89	125.11	123.47	123.36	123.64	123.48	
19	123.32	123.59	124.09	125.77	129.94	130.79	130.85	125.01	123.45	123.35	123.67	123.63	
20	123.30	123.55	124.06	126.03	130.04	130.83	130.80	124.88	123.42	123.33	123.65	123.71	
21	123.29	123.49	124.04	126.19	130.10	130.85	130.74	124.77	123.40	123.34	123.64	123.61	
22	123.27	123.41	124.08	126.26	130.13	130.88	130.67	124.68	123.37	123.37	123.69	123.58	
23	123.24	123.35	124.09	126.39	130.15	130.89	130.59	124.59	123.33	123.36	123.73	123.58	
24	123.23	123.34	124.07	126.54	130.15	130.91	130.49	124.50	123.30	123.34	123.65	123.58	
25	123.23	123.32	124.07	126.74	130.15	130.92	130.36	124.39	123.28	123.37	123.62	123.60	
26	123.23	123.30	124.01	126.90	130.15	130.92	130.22	124.25	123.26	123.39	123.61	123.61	
27	123.23	123.28	123.94	126.92	130.15	130.93	130.04	124.17	123.26	123.45	123.57	123.63	
28	123.23	123.33	123.84	126.94	130.17	130.93	129.76	124.10	123.31	123.50	123.52	123.76	
29	123.24	123.38	123.73	126.91	130.18	130.93	129.42	124.03	123.31	123.50	123.51	123.80	
30	123.25	123.40	123.76	126.82	130.18	130.94	129.04	124.01	123.27	123.52		123.84	
31		123.39		126.69	130.16		128.63		123.29	123.57		123.88	
Mean	123.39	123.33	123.78	125.46	129.13	130.56	130.59	125.78	123.53	123.39	123.62	123.60	
Max	123.57	123.59	124.19	126.94	130.18	130.94	131.01	128.30	123.93	123.57	123.73	123.88	131.01
Min	123.23	123.21	123.32	123.80	126.19	130.13	128.63	124.01	123.26	123.31	123.51	123.47	123.21

Annual Max Momentary Gage Height 131.01 M (MSL), at 6.00 Hours, on Oct 2, 1995
Zero Gage at Bottom Elevation 122.24 M (MSL), River Bed 120.30 M (MSL)
Left Bank Elevation 133.15 M (MSL)
Right Bank Elevation 132.60 M (MSL), Drainage Area 41594 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.8	30.8	33.6	52.0	238.0	621.5	768.8	407.0	58.5	32.4	43.6	40.4	
2	42.0	30.0	33.2	55.5	227.9	618.5	784.2	379.0	53.5	33.6	44.0	40.0	
3	42.0	29.6	32.8	61.5	218.2	620.0	779.8	359.0	51.2	34.8	44.0	40.4	
4	41.6	29.2	33.6	68.0	210.2	620.0	775.4	343.0	49.2	35.6	43.6	40.8	
5	41.6	30.0	34.4	70.5	213.4	620.0	773.2	325.1	51.2	34.8	43.6	39.6	
6	39.6	29.2	34.8	71.0	253.0	621.5	771.0	308.0	49.6	36.0	44.0	38.8	
7	38.0	28.8	36.8	78.0	330.0	623.0	768.8	292.8	49.2	37.6	44.0	40.8	
8	37.2	28.4	40.8	94.2	411.0	627.5	768.8	281.8	47.6	36.4	44.8	41.2	
9	38.0	28.4	43.6	108.0	480.0	633.8	766.6	270.1	45.6	34.8	44.0	41.2	
10	38.4	29.6	42.8	117.6	524.0	641.8	764.4	252.1	45.2	33.2	44.0	42.0	
11	39.6	30.8	41.2	128.4	549.6	653.5	762.2	231.2	43.6	34.4	44.4	42.8	
12	41.2	32.0	42.4	138.2	566.4	663.8	760.0	210.2	43.2	36.4	45.2	43.2	
13	40.0	32.8	48.0	136.1	577.6	678.2	757.8	190.2	44.0	36.0	46.0	42.4	
14	38.4	33.2	57.0	129.1	586.0	683.6	757.8	173.4	46.0	34.4	46.8	42.8	
15	37.2	31.6	66.0	118.8	587.4	696.2	757.8	158.2	47.6	35.2	45.6	44.0	
16	35.6	31.6	71.5	115.2	588.8	705.2	762.2	147.7	44.0	36.8	44.0	45.6	
17	34.4	37.6	71.5	131.9	588.8	714.2	762.2	137.5	39.6	36.0	44.0	43.6	
18	33.6	42.4	70.0	154.5	588.8	727.0	757.8	127.7	38.8	34.4	45.6	39.2	
19	32.8	43.6	66.5	176.6	591.6	735.8	749.0	120.7	38.0	34.0	46.8	45.2	
20	32.0	42.0	65.0	197.4	605.6	744.6	738.0	112.8	36.8	33.2	46.0	48.4	
21	31.6	39.6	64.0	210.2	614.0	749.0	724.8	106.2	36.0	33.6	45.6	44.4	
22	30.8	36.4	66.0	215.8	618.5	755.6	710.6	100.8	34.8	34.8	47.6	43.2	
23	29.6	34.0	66.5	226.2	621.5	757.8	696.2	95.4	33.2	34.4	49.2	43.2	
24	29.2	33.6	65.5	238.9	621.5	762.2	678.2	90.0	32.0	33.6	46.0	43.2	
25	29.2	32.8	65.5	256.6	621.5	764.4	655.2	83.4	31.2	34.8	44.8	44.0	
26	29.2	32.0	62.5	271.0	621.5	764.4	632.2	75.0	30.4	35.6	44.4	44.4	
27	29.2	31.2	59.0	272.8	621.5	766.6	605.6	70.5	30.4	38.0	42.8	45.2	
28	29.2	33.2	54.0	274.6	624.5	766.6	566.4	67.0	32.4	40.0	40.8	50.4	
29	29.6	35.2	49.2	271.9	626.0	766.6	526.2	63.5	32.4	40.0	40.4	52.0	
30	30.0	36.0	50.4	263.8	626.0	768.8	484.4	62.5	30.8	40.8		54.0	
31		35.6		252.1	623.0		440.7		31.6	42.8		56.0	
Total	1063.6	1031.2	1568.1	4956.4	15775.8	20871.7	22006.3	5641.8	1277.6	1108.4	1295.6	1362.4	77958.9 CMSDAY
Mean	35.5	33.3	52.3	159.9	508.9	695.7	709.9	188.1	41.2	35.8	44.7	43.9	213.0 CMS
Max	42.8	43.6	71.5	274.6	626.0	768.8	784.2	407.0	58.5	42.8	49.2	56.0	784.2 CMS
Min	29.2	28.4	32.8	52.0	210.2	618.5	440.7	62.5	30.4	32.4	40.4	38.8	28.4 CMS
Runoff	91.90	89.10	135.48	428.23	1363.03	1803.31	1901.34	487.45	110.38	95.77	111.94	117.71	6735.65 MCM

Momentary Peak 784.20 CMS, at 131.01 M (MSL), at 6.00 Hours, on Oct 2, 1995
Runoff Yield 5.12 Liters/Second/Square KM, Momentary Peak Yield 18.854 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

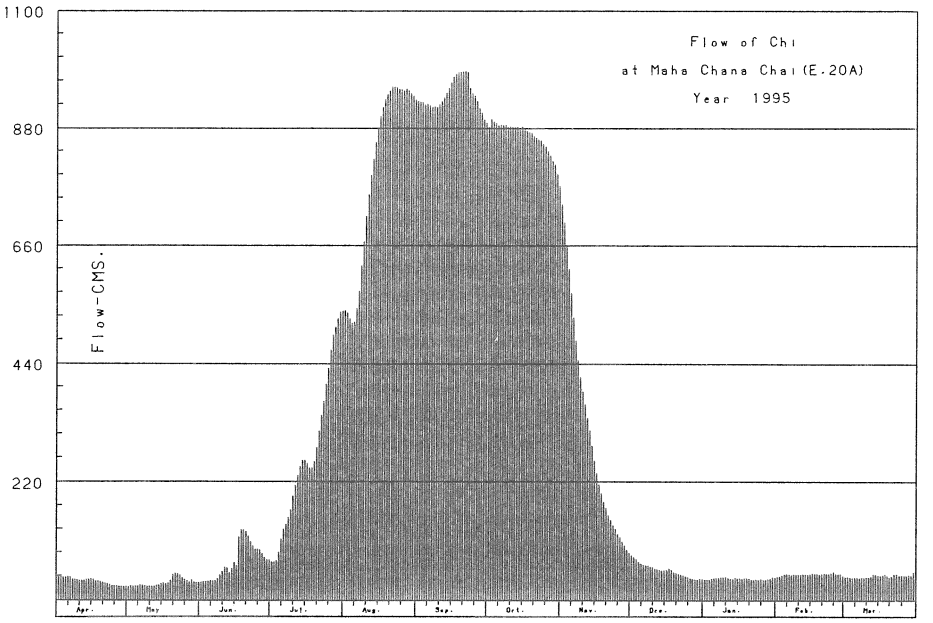
Chi River at Maha Chana Chai, Yasothon (E.20A)

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	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by structure such as road, bridge and draining pipe. Stage-discharge relation defined by 139 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.90	114.58	114.72	115.28	119.00	121.15	121.25	120.67	115.49	114.81	114.89	114.89	
2	114.89	114.60	114.74	115.27	118.97	121.15	121.29	120.49	115.45	114.80	114.91	114.88	
3	114.88	114.60	114.74	115.31	118.91	121.14	121.28	120.25	115.39	114.81	114.93	114.88	
4	114.87	114.60	114.76	115.50	118.85	121.12	121.27	119.98	115.32	114.83	114.98	114.85	
5	114.90	114.61	114.77	115.78	118.87	121.13	121.26	119.68	115.27	114.85	114.99	114.87	
6	114.88	114.63	114.76	115.96	119.02	121.11	121.26	119.38	115.23	114.85	114.96	114.86	
7	114.82	114.63	114.78	116.06	119.22	121.10	121.26	119.09	115.23	114.86	114.95	114.86	
8	114.80	114.61	114.83	116.18	119.50	121.10	121.26	118.84	115.21	114.87	114.96	114.87	
9	114.80	114.60	114.95	116.32	119.77	121.10	121.25	118.61	115.19	114.88	114.97	114.87	
10	114.77	114.59	115.04	116.54	120.03	121.12	121.25	118.42	115.17	114.88	114.96	114.87	
11	114.78	114.60	115.15	116.71	120.26	121.15	121.25	118.23	115.13	114.86	114.96	114.88	
12	114.79	114.60	115.14	116.86	120.45	121.19	121.25	118.04	115.12	114.83	114.98	114.91	
13	114.80	114.62	115.02	117.00	120.61	121.23	121.25	117.85	115.09	114.83	114.97	114.97	
14	114.82	114.64	115.12	117.08	120.77	121.28	121.24	117.62	115.08	114.86	114.97	114.96	
15	114.82	114.67	115.27	117.09	120.90	121.33	121.25	117.38	115.08	114.85	114.98	114.93	
16	114.80	114.69	115.18	117.04	121.01	121.38	121.24	117.16	115.10	114.84	115.00	114.92	
17	114.77	114.68	115.82	116.98	121.10	121.41	121.23	116.96	115.14	114.83	114.99	114.95	
18	114.75	114.69	115.96	116.97	121.17	121.42	121.22	116.79	115.09	114.84	114.98	114.97	
19	114.75	114.79	115.95	117.07	121.22	121.43	121.22	116.64	115.03	114.85	114.97	114.93	
20	114.72	114.96	115.92	117.27	121.25	121.43	121.20	116.52	115.00	114.83	114.98	114.87	
21	114.69	115.01	115.84	117.51	121.29	121.43	121.19	116.38	114.97	114.81	114.99	114.91	
22	114.67	114.99	115.73	117.72	121.29	121.43	121.18	116.29	114.96	114.80	114.99	114.98	
23	114.65	114.94	115.63	117.90	121.28	121.42	121.17	116.18	114.93	114.80	114.99	114.97	
24	114.62	114.87	115.57	118.12	121.27	121.40	121.15	116.09	114.91	114.80	115.00	114.93	
25	114.60	114.80	115.56	118.31	121.26	121.39	121.13	115.99	114.87	114.81	115.04	114.93	
26	114.60	114.76	115.55	118.54	121.25	121.37	121.10	115.91	114.85	114.79	115.00	114.92	
27	114.59	114.73	115.48	118.72	121.27	121.34	121.07	115.82	114.83	114.80	114.98	114.93	
28	114.58	114.79	115.39	118.81	121.25	121.32	121.03	115.72	114.80	114.81	114.97	114.94	
29	114.58	114.74	115.32	118.91	121.23	121.29	121.00	115.63	114.81	114.84	114.91	114.94	
30	114.58	114.70	115.32	118.98	121.20	121.27	120.93	115.55	114.82	114.87		115.03	
31		114.72		118.99	121.17		120.83		114.82	114.88		115.06	
Mean	114.75	114.71	115.27	117.12	120.47	121.27	121.19	117.61	115.08	114.83	114.97	114.92	
Max	114.90	115.01	115.96	118.99	121.29	121.43	121.29	120.67	115.49	114.88	115.04	115.06	121.43
Min	114.58	114.58	114.72	115.27	118.85	121.10	120.83	115.55	114.80	114.79	114.89	114.85	114.58

Annual Max Momentary Gage Height 121.43 M (MSL), at 6.00 Hours, on Sep 19, 1995
Zero Gage at Bottom Elevation 112.00 M (MSL), River Bed 112.40 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	44.0	25.0	33.2	71.4	540.0	930.0	882.5	738.3	83.3	38.6	43.4	43.4	
2	43.4	26.0	34.4	70.6	535.0	930.0	896.5	704.1	80.5	38.0	44.6	42.8	
3	42.8	26.0	34.4	73.8	525.2	928.0	893.0	661.5	76.3	38.6	45.8	42.8	
4	42.2	26.0	35.6	89.0	515.2	924.0	889.5	617.0	71.4	39.8	48.8	41.0	
5	44.0	26.6	36.2	114.2	518.5	926.0	886.0	572.0	67.9	41.0	49.4	42.2	
6	42.8	27.8	35.6	132.0	543.3	922.0	886.0	527.0	65.1	41.0	47.6	41.6	
7	39.2	27.8	36.8	142.0	576.3	920.0	886.0	483.5	65.1	41.6	47.0	41.6	
8	38.0	26.6	39.8	154.0	623.0	920.0	886.0	447.6	63.7	42.2	47.6	42.2	
9	38.0	26.0	47.0	169.2	668.9	920.0	882.5	415.4	62.4	42.8	48.2	42.2	
10	36.2	25.5	52.8	193.8	715.4	924.0	882.5	389.6	61.1	42.8	47.6	42.2	
11	36.8	26.0	61.0	214.2	756.8	930.0	882.5	364.9	58.4	41.6	47.6	42.8	
12	37.4	26.0	60.2	232.5	792.5	938.0	882.5	340.2	57.8	39.8	48.8	44.6	
13	38.0	27.2	51.4	250.0	822.9	946.0	882.5	316.2	55.8	39.8	48.2	48.2	
14	39.2	28.4	58.6	260.0	854.0	956.0	879.0	288.4	55.2	41.6	48.2	47.6	
15	39.2	30.2	70.6	261.2	880.0	966.0	882.5	260.8	55.2	41.0	48.8	45.8	
16	38.0	31.4	63.4	255.0	902.0	976.0	879.0	236.8	56.5	40.4	50.0	45.2	
17	36.2	30.8	118.0	247.5	920.0	982.0	875.5	216.0	59.1	39.8	49.4	47.0	
18	35.0	31.4	132.0	246.3	934.0	984.0	872.0	199.0	55.8	40.4	48.8	48.2	
19	35.0	37.4	131.0	258.8	944.0	986.0	872.0	184.0	51.9	41.0	48.2	45.8	
20	33.2	47.6	128.0	284.1	950.0	986.0	865.0	172.0	50.0	39.8	48.8	42.2	
21	31.4	50.7	120.0	315.4	958.0	986.0	862.2	158.2	48.2	38.6	49.4	44.6	
22	30.2	49.4	109.7	344.8	958.0	986.0	859.4	150.1	47.6	38.0	49.4	48.8	
23	29.0	46.4	100.7	370.0	956.0	956.0	856.6	140.3	45.8	38.0	49.4	48.2	
24	27.2	42.2	95.3	403.0	954.0	945.0	851.0	132.6	44.6	38.0	50.0	45.8	
25	26.0	38.0	94.4	431.5	952.0	940.5	845.4	124.1	42.2	38.6	52.6	45.8	
26	26.0	35.6	93.5	466.0	950.0	931.5	837.0	117.4	41.0	37.4	50.0	45.2	
27	25.5	33.8	87.4	494.2	954.0	918.0	829.5	109.7	39.8	38.0	48.8	45.8	
28	25.0	37.4	80.2	508.6	950.0	909.0	819.5	101.6	38.0	38.6	48.2	46.4	
29	25.0	34.4	74.6	525.2	946.0	896.5	812.0	94.4	38.6	40.4	44.6	46.4	
30	25.0	32.0	74.6	536.7	940.0	889.5	794.5	88.0	39.2	42.2		51.9	
31		33.2		538.3	934.0		771.6		39.2	42.8		53.9	
Total	1048.9	1012.8	2190.4	8653.3	24969.0	28252.0	26781.7	9350.7	1716.7	1242.2	1399.2	1402.2	108019.1 CMSDAY
Mean	35.0	32.7	73.0	279.1	805.5	941.7	863.9	311.7	55.4	40.1	48.2	45.2	295.1 CMS
Max	44.0	50.7	132.0	538.3	958.0	986.0	896.5	738.3	83.3	42.8	52.6	53.9	986.0 CMS
Min	25.0	25.0	33.2	70.6	515.2	889.5	771.6	88.0	38.0	37.4	43.4	41.0	25.0 CMS
Runoff	90.62	87.51	189.25	747.65	2157.32	2440.97	2313.94	807.90	148.32	107.33	120.89	121.15	9332.85 MCM

Momentary Peak 986.00 CMS, at 121.43 M (MSL), at 6.00 Hours, on Sep 19, 1995
Runoff Yield 6.17 Liters/Second/Square KM, Momentary Peak Yield 20.620 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

Chi River at Ban Kaeng Ko, Chaiyaphum (E.21)

Location — Lat. 15°-45'-07" N., Long. 102°-15'-24" E., on left bank about 75 meters upstream from the bridge on highway, Amphoe Muang, Chaiyaphum.

Drainage Area — 8,912 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +0.00 m. (A.D.)

Bench Mark — B.M.-H.D.

Location — Infront of the automatic gage building.

Elevation — +9.433 m. (A.D.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1955-1957, 1967 to date.

Rating Operation

Period of Rating — 1968-1971, 1973-1974, 1982 to date.

Rated by Float — -

Rated by Current Meter — 1968-1971, 1973-1974, 1982 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — Overbank flow starts at elevation +9.11 m (A.D.), records are channel flow only.

General Description — Records good. The weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

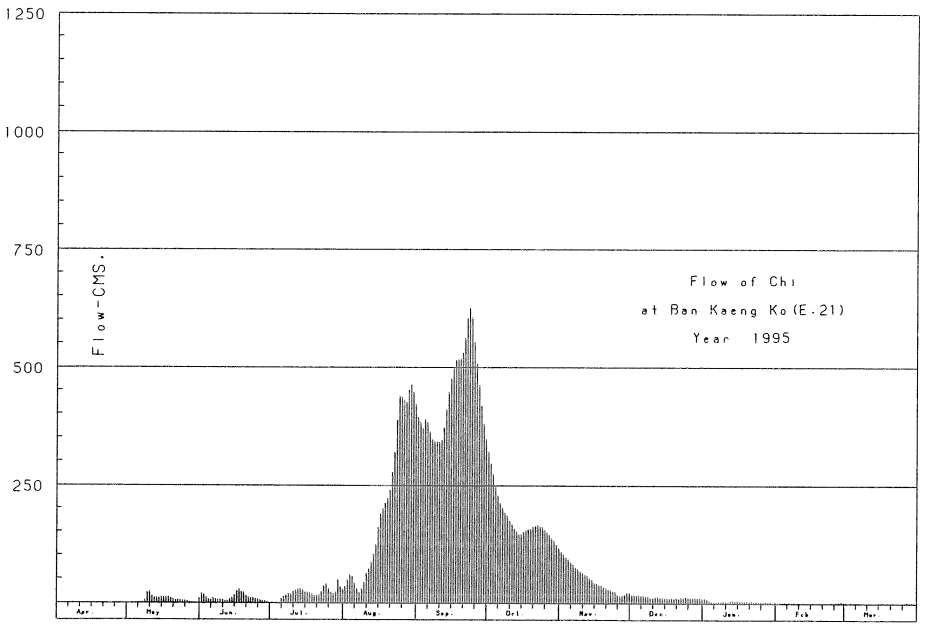
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.94	1.03	2.07	1.37	2.33	8.58	8.19	4.84	2.02	1.80	1.48	1.45	
2	0.93	1.02	2.04	1.35	2.56	8.53	8.03	4.60	1.99	1.78	1.46	1.42	
3	0.92	1.11	1.86	1.31	2.70	8.47	7.85	4.42	2.00	1.65	1.42	1.42	
4	0.91	1.26	1.75	1.42	2.67	8.55	7.64	4.20	2.00	1.55	1.44	1.45	
5	0.87	1.34	1.71	1.80	2.46	8.53	7.43	3.97	1.99	1.51	1.45	1.45	
6	0.84	1.39	1.80	1.90	2.25	8.43	7.25	3.75	1.98	1.52	1.45	1.46	
7	0.79	1.47	1.75	2.01	2.13	8.35	7.11	3.55	1.96	1.55	1.44	1.39	
8	0.74	1.67	1.70	2.05	2.25	8.32	6.98	3.34	1.93	1.56	1.43	1.31	
9	0.78	2.13	1.74	2.06	2.49	8.32	6.85	3.12	1.85	1.56	1.35	1.26	
10	0.75	2.15	1.67	2.15	2.84	8.31	6.68	2.92	1.82	1.57	1.31	1.23	
11	0.72	1.96	1.59	2.20	3.32	8.34	6.49	2.77	1.91	1.60	1.27	1.21	
12	0.71	1.85	1.58	2.26	3.99	8.47	6.31	2.68	1.89	1.63	1.27	1.22	
13	0.71	1.83	1.78	2.26	4.62	8.65	6.14	2.62	1.87	1.62	1.27	1.23	
14	0.73	1.84	1.83	2.24	5.36	8.79	5.99	2.55	1.84	1.60	1.30	1.26	
15	0.74	1.87	2.01	2.14	6.38	8.89	5.98	2.47	1.83	1.61	1.31	1.31	
16	0.71	1.84	2.19	2.11	6.91	8.97	6.11	2.44	1.82	1.59	1.33	1.34	
17	0.69	1.86	2.24	2.12	7.10	9.02	6.22	2.41	1.82	1.58	1.34	1.36	
18	0.75	1.87	2.15	2.03	7.23	9.02	6.24	2.38	1.81	1.58	1.35	1.38	
19	0.77	1.82	2.11	1.97	7.37	9.03	6.30	2.34	1.81	1.57	1.35	1.41	
20	0.79	1.73	1.97	1.96	7.55	9.06	6.38	2.29	1.81	1.56	1.31	1.41	
21	0.81	1.68	1.86	2.00	7.88	9.15	6.44	2.25	1.81	1.56	1.28	1.39	
22	0.84	1.68	1.83	2.16	8.19	9.26	6.45	2.22	1.85	1.56	1.27	1.39	
23	0.83	1.68	1.82	2.37	8.55	9.31	6.42	2.18	1.87	1.55	1.27	1.39	
24	0.88	1.64	1.79	2.42	8.76	9.26	6.36	2.15	1.88	1.54	1.31	1.37	
25	0.93	1.60	1.73	2.27	8.75	9.13	6.26	2.04	1.87	1.52	1.39	1.38	
26	0.98	1.55	1.69	2.12	8.73	9.00	6.11	1.94	1.87	1.51	1.46	1.45	
27	0.99	1.49	1.63	2.08	8.71	8.84	5.92	2.00	1.86	1.50	1.51	1.48	
28	1.08	1.44	1.57	2.12	8.81	8.68	5.76	2.01	1.84	1.52	1.56	1.47	
29	1.07	1.39	1.49	2.56	8.85	8.51	5.58	2.12	1.83	1.52	1.52	1.38	
30	1.06	1.52	1.41	2.33	8.79	8.35	5.35	2.10	1.82	1.49		1.33	
31		1.82		2.25	8.69		5.09		1.81	1.48		1.31	
Mean	0.84	1.63	1.81	2.04	5.78	8.74	6.51	2.82	1.88	1.57	1.38	1.36	
Max	1.08	2.15	2.24	2.56	8.85	9.31	8.19	4.84	2.02	1.80	1.56	1.48	9.31
Min	0.69	1.02	1.41	1.31	2.13	8.31	5.09	1.94	1.81	1.48	1.27	1.21	0.69

Annual Max Momentary Gage Height — 9.31 M (A.D), at 24.00 Hours, on Sep 23, 1995

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -1.26 M (A.D)

Left Bank Elevation — 9.10 M (A.D)

Right Bank Elevation — 9.98 M (A.D), Drainage Area 8912 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.1	20.6	1.9	34.8	395.6	321.5	109.7	18.4	10.5	3.2	2.8	
2	0.0	0.1	19.3	1.8	50.2	384.6	297.5	103.0	17.2	9.9	2.9	2.3	
3	0.0	0.6	12.6	1.5	60.0	371.9	273.5	98.3	17.5	6.2	2.3	2.3	
4	0.0	1.3	9.0	2.3	57.9	389.0	249.4	92.8	17.5	4.2	2.6	2.8	
5	0.0	1.7	7.8	10.5	43.2	384.6	228.7	87.1	17.2	3.6	2.8	2.8	
6	0.0	2.0	10.5	14.0	30.0	363.7	214.0	81.9	16.8	3.8	2.8	2.9	
7	0.0	3.1	9.0	18.0	23.5	348.8	202.8	77.3	16.1	4.2	2.6	2.0	
8	0.0	6.7	7.5	19.7	30.0	343.5	193.7	72.8	15.0	4.4	2.4	1.5	
9	0.0	23.5	8.7	20.2	45.3	343.5	185.7	68.4	12.3	4.4	1.8	1.3	
10	0.0	24.5	6.7	24.5	62.8	341.8	177.0	64.4	11.2	4.6	1.5	1.2	
11	0.0	16.1	4.9	27.0	72.4	347.0	167.5	61.4	14.3	5.0	1.3	1.1	
12	0.0	12.3	4.7	30.6	87.6	371.9	159.4	58.6	13.7	5.7	1.3	1.1	
13	0.0	11.6	9.9	30.6	103.5	412.0	152.7	54.4	13.0	5.5	1.3	1.2	
14	0.0	11.9	11.6	29.4	125.3	447.4	147.0	49.5	11.9	5.0	1.5	1.3	
15	0.0	13.0	18.0	24.0	162.2	477.0	146.7	43.9	11.6	5.2	1.5	1.5	
16	0.0	11.9	26.5	22.5	189.1	501.0	151.5	41.8	11.2	4.9	1.7	1.7	
17	0.0	12.6	29.4	23.0	202.0	517.0	155.8	39.7	11.2	4.7	1.7	1.8	
18	0.0	13.0	24.5	18.8	212.4	517.0	156.6	37.8	10.8	4.7	1.8	1.9	
19	0.0	11.2	22.5	16.5	223.6	520.5	159.0	35.4	10.8	4.6	1.8	2.1	
20	0.0	8.4	16.5	16.1	240.0	531.0	162.2	32.4	10.8	4.4	1.5	2.1	
21	0.0	7.0	12.6	17.5	277.4	563.0	165.0	30.0	10.8	4.4	1.4	2.0	
22	0.0	7.0	11.6	25.0	321.5	606.2	165.5	28.2	12.3	4.4	1.3	2.0	
23	0.0	7.0	11.2	37.2	389.0	627.5	164.0	26.0	13.0	4.2	1.3	2.0	
24	0.0	6.0	10.2	40.4	439.6	606.2	161.4	24.5	13.3	4.1	1.5	1.9	
25	0.0	5.0	8.4	31.2	437.0	555.8	157.4	19.3	13.0	3.8	2.0	1.9	
26	0.0	4.2	7.3	23.0	431.8	510.0	151.5	15.4	13.0	3.6	2.9	2.8	
27	0.0	3.4	5.7	21.1	426.6	462.0	144.4	17.5	12.6	3.5	3.6	3.2	
28	0.4	2.6	4.6	23.0	453.0	419.2	138.5	18.0	11.9	3.8	4.4	3.1	
29	0.4	2.0	3.4	50.2	465.0	380.2	132.3	23.0	11.6	3.8	3.8	1.9	
30	0.3	3.8	2.1	34.8	447.4	348.8	125.0	22.0	11.2	3.4		1.7	
31		11.2		30.0	421.6		117.2		10.8	3.2		1.5	
Total	1.1	244.8	357.3	686.3	6565.7	13387.7	5524.4	1534.5	412.0	147.7	62.5	61.7	28985.7 CMSDAY
Mean	0.0	7.9	11.9	22.1	211.8	446.3	178.2	51.2	13.3	4.8	2.2	2.0	79.2 CMS
Max	0.4	24.5	29.4	50.2	465.0	627.5	321.5	109.7	18.4	10.5	4.4	3.2	627.5 CMS
Min	0.0	0.1	2.1	1.5	23.5	341.8	117.2	15.4	10.8	3.2	1.3	1.1	0.0 CMS
Runoff	0.10	21.15	30.87	59.30	567.28	1156.70	477.31	132.58	35.60	12.76	5.40	5.33	2504.36 MCM

Momentary Peak 627.50 CMS, at 9.31 M (A.D), at 24.00 Hours, on Sep 23, 1995

Runoff Yield 8.89 Liters/Second/Square KM, Momentary Peak Yield 70.411 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

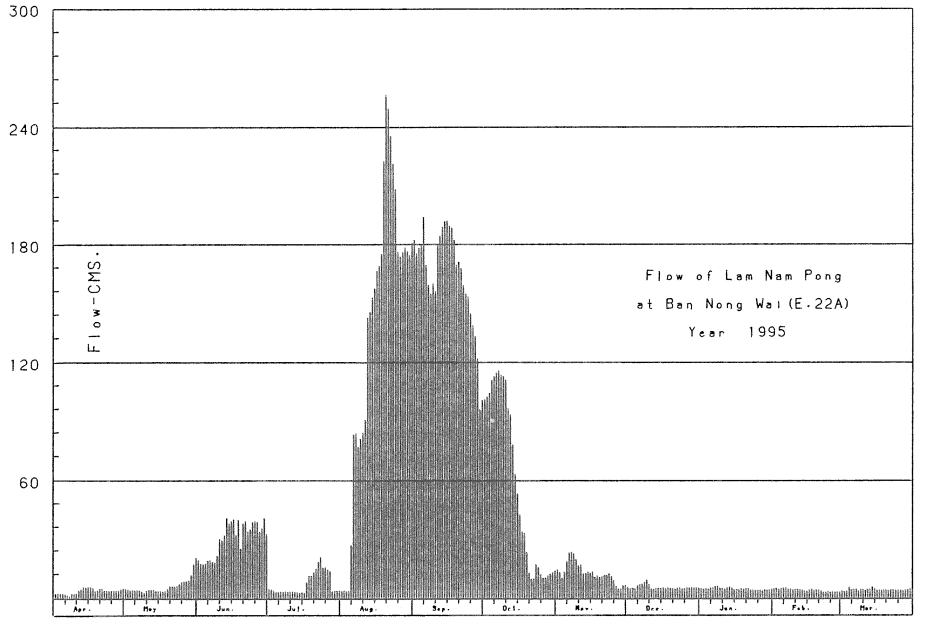
Lam Nam Phong at Ban Hin Kong Noi, Khon Kaen (E.22A)

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	Staff gage.
Zero Gage at Bottom	+150.92 m.(M.S.L.).
Bench Mark	B.M.-H.D.
Location	Behind the shrine of Pu Duang.
Elevation	+164.573 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	Arithemetic mean of 3 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	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Nam Phong weir above gage site. Stage-discharge relation defined by 16 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.40	153.50	153.79	153.49	153.45	157.97	156.03	153.71	153.52	153.50	153.50	153.45	
2	153.40	153.48	153.76	153.49	153.46	157.81	156.07	153.69	153.50	153.50	153.50	153.45	
3	153.40	153.47	153.76	153.46	153.45	157.88	156.11	153.63	153.51	153.50	153.49	153.45	
4	153.39	153.47	153.76	153.44	153.45	157.90	156.28	153.69	153.50	153.50	153.50	153.52	
5	153.39	153.47	153.79	153.44	153.88	158.23	156.33	153.78	153.54	153.51	153.51	153.48	
6	153.34	153.47	153.79	153.44	155.56	157.68	156.37	153.84	153.55	153.51	153.51	153.48	
7	153.32	153.47	153.78	153.44	155.57	157.46	156.40	153.84	153.56	153.53	153.49	153.49	
8	153.39	153.44	153.77	153.44	155.38	157.36	156.34	153.83	153.58	153.53	153.49	153.45	
9	153.40	153.42	153.82	153.44	155.49	157.47	156.33	153.80	153.61	153.51	153.48	153.49	
10	153.40	153.46	153.94	153.44	155.58	157.38	156.28	153.75	153.55	153.50	153.48	153.48	
11	153.47	153.48	153.92	153.44	155.76	157.92	155.91	153.75	153.50	153.50	153.49	153.47	
12	153.49	153.48	154.00	153.44	157.07	158.01	155.83	153.67	153.49	153.51	153.48	153.49	
13	153.52	153.48	154.30	153.43	157.15	158.11	155.41	153.68	153.50	153.52	153.47	153.48	
14	153.52	153.46	154.20	153.42	157.31	158.18	154.98	153.69	153.51	153.51	153.45	153.52	
15	153.52	153.45	154.25	153.43	157.42	158.18	154.70	153.68	153.50	153.48	153.45	153.49	
16	153.52	153.45	154.27	153.41	157.62	158.12	154.35	153.69	153.51	153.48	153.47	153.47	
17	153.51	153.45	154.01	153.58	157.67	158.11	154.07	153.64	153.50	153.48	153.49	153.47	
18	153.45	153.45	154.26	153.65	157.81	157.97	154.04	153.65	153.51	153.50	153.46	153.47	
19	153.47	153.50	153.86	153.65	158.85	157.68	153.84	153.64	153.51	153.50	153.48	153.47	
20	153.50	153.53	154.21	153.69	159.53	157.72	153.68	153.64	153.50	153.50	153.47	153.48	
21	153.50	153.53	154.24	153.72	159.39	157.65	153.62	153.66	153.50	153.50	153.45	153.46	
22	153.47	153.53	154.06	153.78	159.11	157.45	153.62	153.66	153.51	153.47	153.43	153.48	
23	153.46	153.53	154.11	153.81	158.82	157.36	153.75	153.67	153.51	153.47	153.43	153.47	
24	153.46	153.56	154.23	153.73	158.55	157.32	153.73	153.65	153.50	153.47	153.44	153.47	
25	153.46	153.58	154.24	153.73	157.83	157.13	153.66	153.60	153.50	153.46	153.43	153.47	
26	153.46	153.59	154.23	153.71	157.78	156.97	153.63	153.53	153.51	153.47	153.43	153.47	
27	153.46	153.60	154.07	153.70	157.83	156.84	153.63	153.50	153.51	153.46	153.43	153.46	
28	153.46	153.60	154.12	153.45	157.88	156.55	153.65	153.49	153.51	153.47	153.43	153.47	
29	153.49	153.66	154.30	153.45	157.84	155.90	153.67	153.54	153.51	153.47	153.43	153.48	
30	153.50	153.76	154.02	153.46	157.79	156.02	153.68	153.54	153.51	153.47		153.49	
31		153.81		153.46	157.93		153.70		153.51	153.49		153.49	
Mean	153.45	153.52	154.03	153.54	156.85	157.54	154.83	153.67	153.52	153.49	153.47	153.48	
Max	153.52	153.81	154.30	153.81	159.53	158.23	156.40	153.84	153.61	153.53	153.51	153.52	159.53
Min	153.32	153.42	153.76	153.41	153.45	155.90	153.62	153.49	153.49	153.46	153.43	153.45	153.32

Annual Max Momentary Gage Height 159.62 M (MSL), at 18.00 Hours, on Aug 20, 1995
Zero Gage at Bottom Elevation 150.92 M (MSL), River Bed 150.96 M (MSL)
Left Bank Elevation 165.60 M (MSL)
Right Bank Elevation 165.00 M (MSL), Drainage Area 13183 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	5.00	19.40	4.75	3.75	182.65	101.20	14.60	5.80	5.00	5.00	3.75	
2	2.50	4.50	17.60	4.75	4.00	175.45	102.80	13.50	5.00	5.00	5.00	3.75	
3	2.50	4.25	17.60	4.00	3.75	178.60	104.40	10.50	5.40	5.00	4.75	3.75	
4	2.35	4.25	17.60	3.50	3.75	179.50	111.20	13.50	5.00	5.00	5.00	5.80	
5	2.35	4.25	19.40	3.50	27.20	194.35	113.20	18.80	6.60	5.40	5.40	4.50	
6	1.60	4.25	19.40	3.50	83.60	169.60	114.80	23.60	7.00	5.40	5.40	4.50	
7	1.30	4.25	18.80	3.50	83.95	159.70	116.00	23.60	7.40	6.20	4.75	4.75	
8	2.35	3.50	18.20	3.50	77.30	155.20	113.60	22.70	8.20	6.20	4.75	3.75	
9	2.50	3.00	21.80	3.50	81.15	160.15	113.20	20.00	9.50	5.40	4.50	4.75	
10	2.50	4.00	30.20	3.50	84.30	156.10	111.20	17.00	7.00	5.00	4.50	4.50	
11	4.25	4.50	29.60	3.50	91.00	180.40	96.63	17.00	5.00	5.00	4.75	4.25	
12	4.75	4.50	32.00	3.50	142.80	184.45	93.62	12.50	4.75	5.40	4.50	4.75	
13	5.80	4.50	41.00	3.25	146.00	188.95	78.35	13.00	5.00	5.80	4.25	4.50	
14	5.80	4.00	38.00	3.00	152.95	192.10	63.30	13.50	5.40	5.40	3.75	5.80	
15	5.80	3.75	39.50	3.25	157.90	192.10	53.50	13.00	5.00	4.50	3.75	4.75	
16	5.80	3.75	40.10	2.75	166.90	189.40	42.50	13.50	5.40	4.50	4.25	4.25	
17	5.40	3.75	32.30	8.20	169.15	188.95	34.10	11.00	5.00	4.50	4.75	4.25	
18	3.75	3.75	39.80	11.50	175.45	182.65	33.20	11.50	5.40	5.00	4.00	4.25	
19	4.25	5.00	25.40	11.50	222.50	169.60	23.60	11.00	5.40	5.00	4.50	4.25	
20	5.00	6.20	38.30	13.50	256.50	171.40	13.00	11.00	5.00	5.00	4.25	4.50	
21	5.00	6.20	39.20	15.20	249.50	168.25	10.00	12.00	5.00	5.00	3.75	4.00	
22	4.25	6.20	33.80	18.80	235.50	159.25	10.00	12.00	5.40	4.25	3.25	4.50	
23	4.00	6.20	35.30	20.90	221.00	155.20	17.00	12.50	5.40	4.25	3.25	4.25	
24	4.00	7.40	38.90	15.80	208.75	153.40	15.80	11.50	5.00	4.25	3.50	4.25	
25	4.00	8.20	39.20	15.80	176.35	145.20	12.00	9.00	5.00	4.00	3.25	4.25	
26	4.00	8.60	38.90	14.60	174.10	138.80	10.50	6.20	5.40	4.25	3.25	4.25	
27	4.00	9.00	34.10	14.00	176.35	133.60	10.50	5.00	5.40	4.00	3.25	4.00	
28	4.00	9.00	35.60	3.75	178.60	122.00	11.50	4.75	5.40	4.25	3.25	4.25	
29	4.75	12.00	41.00	3.75	176.80	96.25	12.50	6.60	5.40	4.25	3.25	4.50	
30	5.00	17.60	32.60	4.00	174.55	100.80	13.00	6.60	5.40	4.25		4.75	
31		20.90		4.00	180.85		14.00		5.40	4.75		4.75	
Total	116.05	196.25	924.60	232.55	4286.25	4924.05	1770.20	390.95	176.45	151.20	121.80	137.10	13427.45 CMSDAY
Mean	3.87	6.33	30.82	7.50	138.27	164.13	57.10	13.03	5.69	4.88	4.20	4.42	36.69 CMS
Max	5.80	20.90	41.00	20.90	256.50	194.35	116.00	23.60	9.50	6.20	5.40	5.80	256.50 CMS
Min	1.30	3.00	17.60	2.75	3.75	96.25	10.00	4.75	4.75	4.00	3.25	3.75	1.30 CMS
Runoff	10.027	16.956	79.885	20.092	370.332	425.438	152.945	33.778	15.245	13.064	10.524	11.845	1160.132 MCM

Momentary Peak 261.00 CMS, at 159.62 M (MSL), at 18.00 Hours, on Aug 20, 1995

Runoff Yield 2.78 Liters/Second/Square KM, Momentary Peak Yield 19.798 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

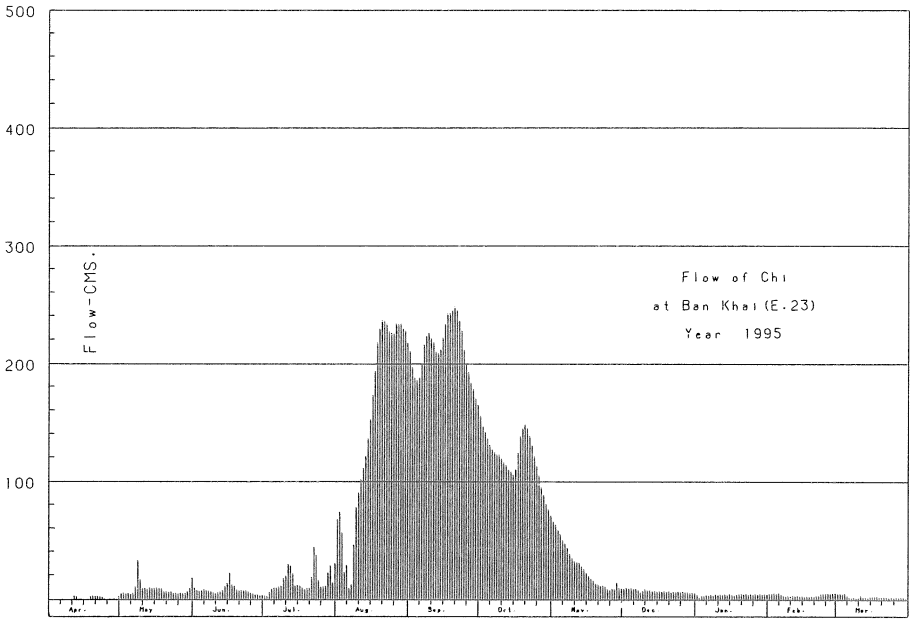
Chi River at Ban Khai, Chaiyaphum (E.23)

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 about 20 meters from the automatic gage building.
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.
Overbank Flow Conditions	Overbank flow starts at elevation +181.26 m.(M.S.L.), records are channel flow only.
General Description	Records good. The weir situated about 50 meters downstream from the gage site. Stage-discharge relation defined by 18 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.83	177.45	177.75	177.23	180.05	182.48	182.04	179.99	177.74	177.32	177.42	177.44	
2	176.83	177.47	177.65	177.23	180.24	182.40	181.93	179.89	177.75	177.13	177.45	177.42	
3	176.85	177.45	177.58	177.51	179.67	182.34	181.85	179.75	177.75	177.21	177.45	177.43	
4	176.84	177.42	177.63	177.72	178.42	182.32	181.77	179.62	177.75	177.28	177.45	177.43	
5	176.84	177.41	177.67	177.75	178.68	182.34	181.67	179.47	177.74	177.29	177.46	177.28	
6	176.89	177.44	177.65	177.78	177.74	182.42	181.61	179.36	177.71	177.31	177.41	177.10	
7	176.89	177.85	177.59	177.82	177.96	182.51	181.56	179.24	177.68	177.32	177.24	177.08	
8	176.89	178.82	177.58	177.90	179.31	182.55	181.53	179.06	177.51	177.31	177.23	177.08	
9	176.89	178.17	177.48	178.20	180.38	182.56	181.52	178.93	177.64	177.36	177.23	177.09	
10	176.90	177.75	177.44	178.32	180.72	182.54	181.45	178.81	177.70	177.36	177.23	177.09	
11	177.27	177.73	177.49	178.69	181.01	182.52	181.37	178.79	177.66	177.35	177.25	177.27	
12	177.16	177.71	177.56	178.67	181.24	182.48	181.30	178.76	177.63	177.35	177.24	177.14	
13	176.97	177.75	177.61	178.38	181.50	182.47	181.22	178.65	177.61	177.35	177.24	177.09	
14	176.91	177.76	177.87	177.90	181.77	182.49	181.16	178.54	177.60	177.33	177.23	177.10	
15	176.89	177.73	177.98	177.91	182.01	182.54	181.10	178.42	177.59	177.37	177.22	177.14	
16	176.88	177.76	178.41	177.90	182.22	182.60	181.22	178.31	177.59	177.32	177.21	177.15	
17	176.94	177.76	177.93	177.76	182.38	182.63	181.56	178.21	177.59	177.31	177.21	177.19	
18	177.21	177.71	177.89	177.70	182.52	182.63	181.79	178.11	177.59	177.33	177.20	177.19	
19	177.23	177.57	177.65	177.74	182.58	182.64	181.91	178.00	177.59	177.42	177.20	177.13	
20	177.23	177.55	177.64	177.77	182.61	182.65	181.95	177.95	177.58	177.41	177.20	177.11	
21	177.21	177.55	177.62	178.25	182.61	182.64	181.91	177.91	177.54	177.40	177.23	177.15	
22	177.20	177.54	177.62	179.25	182.60	182.61	181.80	177.90	177.56	177.39	177.28	177.11	
23	177.11	177.49	177.61	179.03	182.57	182.57	181.67	177.88	177.56	177.38	177.38	177.10	
24	176.93	177.45	177.58	178.13	182.56	182.49	181.49	177.69	177.56	177.37	177.44	177.09	
25	176.91	177.45	177.51	177.84	182.56	182.42	181.29	177.68	177.56	177.38	177.45	177.09	
26	176.94	177.44	177.39	177.83	182.60	182.37	181.08	177.72	177.55	177.39	177.45	177.09	
27	176.95	177.44	177.35	177.86	182.60	182.31	180.84	177.73	177.55	177.39	177.45	177.09	
28	176.96	177.44	177.30	178.42	182.60	182.26	180.66	178.04	177.53	177.39	177.45	177.11	
29	176.95	177.58	177.28	178.65	182.58	182.20	180.46	177.77	177.51	177.39	177.45	177.11	
30	177.18	177.73	177.25	178.03	182.57	182.14	180.30	177.73	177.51	177.39		177.11	
31		178.24		178.73	182.52		180.14		177.51	177.40		177.11	
Mean	176.99	177.66	177.62	178.06	181.33	182.47	181.39	178.53	177.61	177.35	177.32	177.16	
Max	177.27	178.82	178.41	179.25	182.61	182.65	182.04	179.99	177.75	177.42	177.46	177.44	182.65
Min	176.83	177.41	177.25	177.23	177.74	182.14	180.14	177.68	177.51	177.13	177.20	177.08	176.83

Annual Max Momentary Gage Height 182.66 M (MSL), at 11.00 Hours, on Sep 20, 1995
Zero Gage at Bottom Elevation 174.00 M (MSL), River Bed 174.65 M (MSL)
Left Bank Elevation 182.13 M (MSL)
Right Bank Elevation 181.25 M (MSL), Drainage Area 8635 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.2	5.5	9.8	3.3	68.5	210.6	155.9	66.7	9.6	4.2	5.2	5.4	
2	0.2	5.7	8.2	3.3	74.2	197.0	147.2	63.7	9.8	2.3	5.5	5.2	
3	0.3	5.5	7.2	6.1	57.1	188.6	142.0	59.5	9.8	3.1	5.5	5.3	
4	0.3	5.2	8.0	9.3	23.0	185.8	137.2	55.6	9.8	3.8	5.5	5.3	
5	0.3	5.1	8.6	9.8	29.5	188.6	131.2	51.1	9.6	3.9	5.6	3.8	
6	0.6	5.4	8.2	10.2	9.6	200.4	127.6	47.8	9.2	4.1	5.1	2.0	
7	0.6	11.3	7.3	10.8	13.2	216.0	125.0	44.2	8.7	4.2	3.4	1.9	
8	0.6	33.0	7.2	12.0	46.3	224.0	123.5	39.0	6.1	4.1	3.3	1.9	
9	0.6	17.4	5.8	18.0	78.8	226.0	123.0	35.7	8.1	4.6	3.3	1.9	
10	0.7	9.8	5.4	20.5	90.8	222.0	120.0	32.7	9.0	4.6	3.3	1.9	
11	3.7	9.4	5.9	29.7	102.4	218.0	116.8	32.2	8.4	4.5	3.5	3.7	
12	2.6	9.2	6.9	29.2	111.6	210.6	114.0	31.5	8.0	4.5	3.4	2.4	
13	1.1	9.8	7.7	22.0	122.0	208.9	110.8	28.7	7.7	4.5	3.4	1.9	
14	0.7	9.9	11.6	12.0	137.2	212.3	108.4	26.0	7.5	4.3	3.3	2.0	
15	0.6	9.4	13.6	12.2	153.3	222.0	106.0	23.0	7.3	4.7	3.2	2.4	
16	0.5	9.9	22.8	12.0	173.4	234.0	110.8	20.2	7.3	4.2	3.1	2.5	
17	0.9	9.9	12.6	9.9	194.2	242.7	125.0	18.2	7.3	4.1	3.1	2.9	
18	3.1	9.2	11.9	9.0	218.0	242.7	138.4	16.2	7.3	4.3	3.0	2.9	
19	3.3	7.1	8.2	9.6	230.0	245.6	145.8	14.0	7.3	5.2	3.0	2.3	
20	3.3	6.8	8.1	10.1	236.9	248.5	148.8	13.0	7.2	5.1	3.0	2.1	
21	3.1	6.8	7.8	19.0	236.9	245.6	145.8	12.2	6.6	5.0	3.3	2.5	
22	3.0	6.6	7.8	44.5	234.0	236.9	139.0	12.0	6.9	4.9	3.8	2.1	
23	2.1	5.9	7.7	38.2	228.0	228.0	131.2	11.7	6.9	4.8	4.8	2.0	
24	0.9	5.5	7.2	16.6	226.0	212.3	121.6	8.9	6.9	4.7	5.4	1.9	
25	0.7	5.5	6.1	11.1	226.0	200.4	113.6	8.7	6.9	4.8	5.5	1.9	
26	0.9	5.4	4.9	11.0	234.0	192.8	105.2	9.3	6.8	4.9	5.5	1.9	
27	1.0	5.4	4.5	11.4	234.0	184.4	95.6	9.4	6.8	4.9	5.5	1.9	
28	1.1	5.4	4.0	23.0	234.0	178.2	88.6	14.8	6.4	4.9	5.5	2.1	
29	1.0	7.2	3.8	28.7	230.0	171.0	81.6	10.1	6.1	4.9	5.5	2.1	
30	2.8	9.4	3.5	14.6	228.0	165.0	76.0	9.4	6.1	4.9		2.1	
31		18.8		30.7	218.0		71.2		6.1	5.0		2.1	
Total	40.8	276.4	242.3	507.8	4698.9	6358.9	3726.8	825.5	237.5	138.0	122.5	82.3	17257.7 CMSDAY
Mean	1.4	8.9	8.1	16.4	151.6	212.0	120.2	27.5	7.7	4.5	4.2	2.7	47.2 CMS
Max	3.7	33.0	22.8	44.5	236.9	248.5	155.9	66.7	9.8	5.2	5.6	5.4	248.5 CMS
Min	0.2	5.1	3.5	3.3	9.6	165.0	71.2	8.7	6.1	2.3	3.0	1.9	0.2 CMS
Runoff	3.53	23.88	20.93	43.87	405.98	549.41	322.00	71.32	20.52	11.92	10.58	7.11	1491.07 MCM

Momentary Peak 0.32 CMS, at 1995.00 M (MSL), at 11.00 Hours, on Sep 20, 1995

Runoff Yield 5.46 Liters/Second/Square KM, Momentary Peak Yield 0.037 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

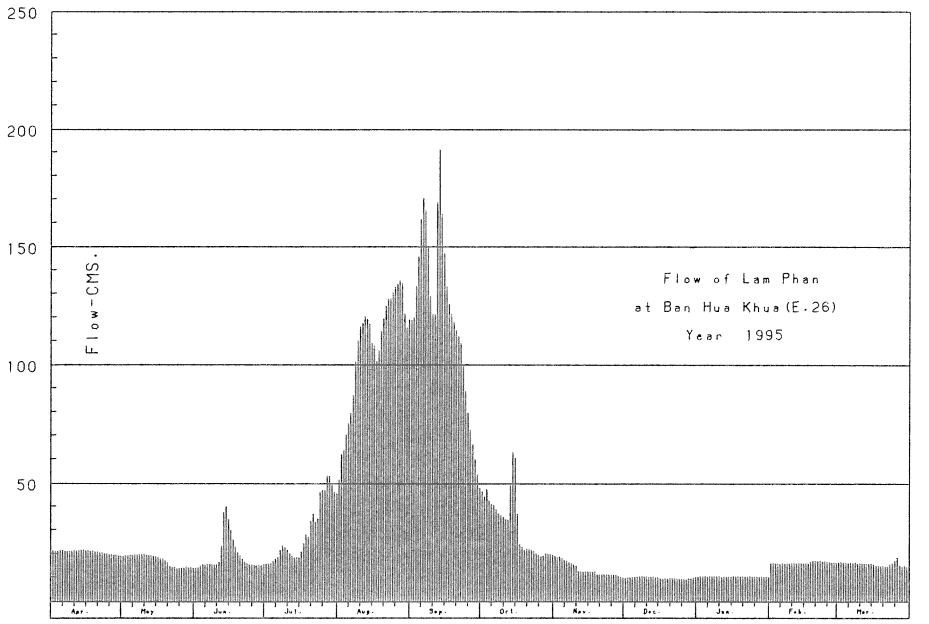
Lam Phan at Ban Hua Khua, Kalasin (E.26)

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	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	1954 to date.
Rating Operation	
Period of Rating	1971-1976, 1982 to date.
Rated by Float	-
Rated by Current Meter	1971-1976, 1982 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Lam Pao Dam. Stage-discharge relation defined by 19 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	135.48	135.36	135.10	135.19	136.55	138.35	136.38	135.36	134.90	134.92	135.21	135.23	
2	135.46	135.37	135.12	135.20	136.86	138.37	136.31	135.33	134.90	134.93	135.21	135.23	
3	135.47	135.37	135.15	135.20	136.92	138.67	136.42	135.35	134.91	134.93	135.21	135.23	
4	135.48	135.38	135.19	135.26	137.10	138.92	136.26	135.31	134.91	134.93	135.20	135.22	
5	135.48	135.38	135.18	135.31	137.24	139.24	136.21	135.28	134.92	134.93	135.20	135.22	
6	135.47	135.39	135.19	135.33	137.36	139.42	136.20	135.26	134.92	134.93	135.21	135.22	
7	135.47	135.39	135.19	135.49	137.56	139.31	136.13	135.23	134.93	134.93	135.20	135.22	
8	135.47	135.40	135.18	135.58	137.91	139.00	136.08	135.20	134.93	134.93	135.20	135.22	
9	135.47	135.40	135.18	135.55	138.14	138.57	136.05	135.18	134.93	134.93	135.21	135.21	
10	135.48	135.40	135.18	135.48	138.28	138.40	136.03	135.15	134.93	134.93	135.21	135.21	
11	135.48	135.39	135.23	135.42	138.32	138.40	135.99	135.04	134.92	134.92	135.21	135.21	
12	135.48	135.38	135.58	135.36	138.38	139.38	135.99	135.03	134.92	134.92	135.21	135.21	
13	135.49	135.37	136.09	135.33	138.36	139.83	136.51	135.03	134.92	134.92	135.21	135.20	
14	135.49	135.36	136.18	135.33	138.31	139.28	136.89	135.03	134.91	134.92	135.21	135.20	
15	135.48	135.35	136.00	135.33	138.11	138.95	136.83	135.03	134.90	134.93	135.21	135.20	
16	135.48	135.33	135.84	135.45	138.08	138.66	136.07	135.03	134.89	134.93	135.21	135.18	
17	135.47	135.31	135.69	135.63	137.92	138.50	135.61	135.03	134.88	134.93	135.21	135.16	
18	135.47	135.30	135.55	135.77	138.03	138.40	135.55	135.03	134.88	134.93	135.24	135.15	
19	135.46	135.27	135.44	135.73	138.24	138.33	135.49	134.97	134.88	134.93	135.26	135.15	
20	135.45	135.22	135.37	135.97	138.36	138.24	135.51	134.96	134.89	134.93	135.26	135.15	
21	135.44	135.15	135.29	136.07	138.48	138.18	135.50	134.97	134.89	134.93	135.26	135.14	
22	135.43	135.13	135.24	135.96	138.55	138.11	135.49	134.97	134.89	134.93	135.26	135.14	
23	135.42	135.12	135.20	136.00	138.55	137.88	135.46	134.97	134.88	134.93	135.25	135.18	
24	135.41	135.10	135.18	136.38	138.61	137.60	135.42	134.97	134.88	134.93	135.25	135.21	
25	135.40	135.10	135.17	136.40	138.66	137.37	135.38	134.96	134.87	134.92	135.24	135.26	
26	135.39	135.10	135.17	136.40	138.69	137.16	135.35	134.96	134.87	134.92	135.24	135.33	
27	135.39	135.12	135.16	136.61	138.72	136.99	135.37	134.96	134.87	134.92	135.23	135.16	
28	135.38	135.13	135.16	136.60	138.69	136.81	135.41	134.94	134.88	134.92	135.22	135.13	
29	135.37	135.12	135.16	136.48	138.41	136.62	135.41	134.91	134.89	134.92	135.22	135.16	
30	135.36	135.12	135.18	136.37	138.27	136.44	135.40	134.90	134.90	134.92		135.12	
31		135.11		136.36	138.35		135.38		134.91	134.92		135.10	
Mean	135.45	135.27	135.35	135.76	138.06	138.31	135.87	135.08	134.90	134.93	135.22	135.19	
Max	135.49	135.40	136.18	136.61	138.72	139.83	136.89	135.36	134.93	134.93	135.26	135.33	139.83
Min	135.36	135.10	135.10	135.19	136.55	136.44	135.35	134.90	134.87	134.92	135.20	135.10	134.87

Annual Max Momentary Gage Height 139.86 M (MSL), at 18.00 Hours, on Sep 13, 1995
Zero Gage at Bottom Elevation 134.63 M (MSL), River Bed 133.81 M (MSL)
Left Bank Elevation 140.50 M (MSL)
Right Bank Elevation 140.70 M (MSL), Drainage Area 6565 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.60	19.20	14.00	15.80	51.50	119.25	46.40	19.20	10.00	10.40	16.20	16.60	
2	21.20	19.40	14.40	16.00	62.10	120.15	44.30	18.60	10.00	10.60	16.20	16.60	
3	21.40	19.40	15.00	16.00	64.20	133.65	47.60	19.00	10.20	10.60	15.20	16.60	
4	21.60	19.60	15.80	17.20	70.50	146.00	42.80	18.20	10.20	10.60	16.00	16.40	
5	21.60	19.60	15.60	18.20	75.40	162.00	41.30	17.60	10.40	10.60	16.00	16.40	
6	21.40	19.80	15.80	18.60	79.60	171.00	41.00	17.20	10.40	10.60	16.20	16.40	
7	21.40	19.80	15.80	21.80	87.40	165.50	38.90	16.60	10.60	10.60	16.00	16.40	
8	21.40	20.00	15.60	23.60	101.40	150.00	37.40	16.00	10.60	10.60	16.00	16.40	
9	21.40	20.00	15.60	23.00	110.60	129.15	36.50	15.60	10.60	10.60	16.20	16.20	
10	21.60	20.00	15.60	21.60	116.20	121.50	35.90	15.00	10.60	10.60	16.20	16.20	
11	21.60	19.80	16.60	20.40	117.90	121.50	34.70	12.80	10.40	10.40	16.20	16.20	
12	21.60	19.60	23.60	19.20	120.60	169.00	34.70	12.60	10.40	10.40	16.20	16.20	
13	21.80	19.40	37.70	18.60	119.70	191.50	50.30	12.60	10.40	10.40	16.20	16.00	
14	21.80	19.20	40.40	18.60	117.45	164.00	63.15	12.60	10.20	10.40	16.20	16.00	
15	21.60	19.00	35.00	18.60	109.40	147.50	61.05	12.60	10.00	10.60	16.20	16.00	
16	21.60	18.60	30.20	21.00	108.20	133.20	37.10	12.60	9.80	10.60	16.20	15.60	
17	21.40	18.20	26.25	24.75	101.80	126.00	24.25	12.60	9.60	10.60	16.20	15.20	
18	21.40	18.00	23.00	28.25	106.20	121.50	23.00	12.60	9.60	10.60	16.80	15.00	
19	21.20	17.40	20.80	27.25	114.60	118.35	21.80	11.40	9.60	10.60	17.20	15.00	
20	21.00	16.40	19.40	34.10	119.70	114.60	22.20	11.20	9.80	10.60	17.20	15.00	
21	20.80	15.00	17.80	37.10	125.10	112.20	22.00	11.40	9.80	10.60	17.20	14.80	
22	20.60	14.60	16.80	33.80	128.25	109.40	21.80	11.40	9.80	10.60	17.20	14.80	
23	20.40	14.40	16.00	35.00	128.25	100.20	21.20	11.40	9.60	10.60	17.00	15.60	
24	20.20	14.00	15.60	46.40	130.95	89.00	20.40	11.40	9.60	10.60	17.00	16.20	
25	20.00	14.00	15.40	47.00	133.20	79.95	19.60	11.20	9.40	10.40	16.80	17.20	
26	19.80	14.00	15.40	47.00	134.55	72.60	19.00	11.20	9.40	10.40	16.80	18.60	
27	19.80	14.40	15.20	53.35	136.00	66.65	19.40	11.20	9.40	10.40	16.60	15.20	
28	19.60	14.60	15.20	53.00	134.55	60.35	20.20	10.80	9.60	10.40	16.40	14.60	
29	19.40	14.40	15.20	49.40	121.95	53.70	20.20	10.20	9.80	10.40	16.40	15.20	
30	19.20	14.40	15.60	46.10	115.80	48.20	20.00	10.00	10.00	10.40		14.40	
31		14.20		45.80	119.25		19.60		10.20	10.40		14.00	
Total	629.40	540.40	584.35	916.50	3362.30	3617.60	1007.75	406.80	310.00	326.20	477.20	491.00	12669.50 CMSDAY
Mean	20.98	17.43	19.48	29.56	108.46	120.59	32.51	13.56	10.00	10.52	16.46	15.84	34.62 CMS
Max	21.80	20.00	40.40	53.35	136.00	191.50	63.15	19.20	10.60	10.60	17.20	18.60	191.50 CMS
Min	19.20	14.00	14.00	15.80	51.50	48.20	19.00	10.00	9.40	10.40	16.00	14.00	9.40 CMS
Runoff	54.380	46.691	50.488	79.186	290.503	312.561	87.070	35.148	26.784	28.184	41.230	42.422	1094.645 MCM

Momentary Peak 193.00 CMS, at 139.86 M (MSL), at 18.00 Hours, on Sep 13, 1995

Runoff Yield 5.27 Liters/Second/Square KM, Momentary Peak Yield 29.398 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

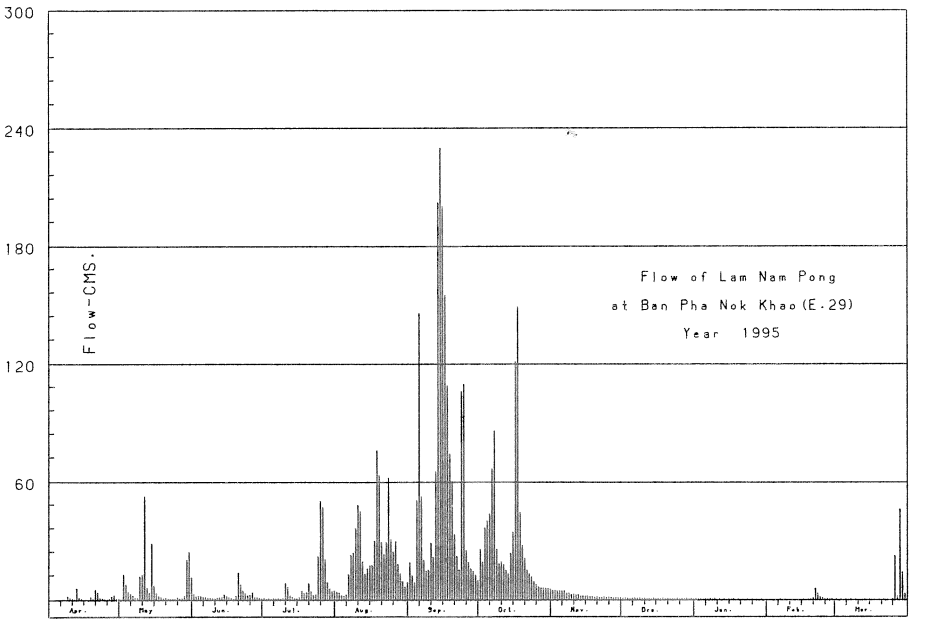
Lam Nam Phong at Ban Pha Nok Khao, Loei (E.29)

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	Staff-gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00, and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 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 89 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	225.72	225.86	226.28	225.94	226.42	227.79	228.39	226.50	226.01	225.93	225.82	225.88	
2	225.70	227.12	226.15	225.90	226.36	227.07	227.82	226.49	226.01	225.93	225.82	225.87	
3	225.67	226.76	226.15	225.90	226.24	226.82	229.12	226.48	226.01	225.92	225.82	225.86	
4	225.68	226.40	226.17	225.93	226.16	229.84	229.31	226.48	226.00	225.92	225.82	225.85	
5	225.68	226.33	226.10	225.98	226.29	233.17	229.49	226.47	226.00	225.92	225.82	225.85	
6	225.68	226.18	226.08	225.97	227.15	229.92	230.56	226.46	226.00	225.92	225.82	225.84	
7	225.61	226.04	226.04	225.95	228.14	227.93	231.32	226.36	225.99	225.92	225.82	225.84	
8	226.15	225.96	225.98	225.95	228.22	227.33	228.38	226.35	225.98	225.92	225.81	225.83	
9	226.02	227.02	225.96	225.95	229.10	227.41	227.75	226.29	225.98	225.92	225.81	225.83	
10	225.88	227.09	225.97	226.81	229.72	228.60	227.83	226.29	225.98	225.91	225.81	225.82	
11	225.87	229.93	226.01	226.65	229.55	228.05	227.69	226.28	225.97	225.89	225.81	225.82	
12	226.61	226.63	226.06	226.20	227.84	230.49	227.40	226.26	225.97	225.89	225.80	225.83	
13	225.99	226.35	226.06	226.07	227.17	234.60	227.14	226.19	225.97	225.89	225.80	225.85	
14	225.88	228.59	226.30	226.00	227.49	235.23	228.22	226.17	225.96	225.88	225.80	225.87	
15	225.80	226.72	226.18	225.96	227.65	234.55	228.96	226.16	225.96	225.88	225.80	225.88	
16	225.81	226.34	226.04	226.07	227.67	233.42	232.47	226.14	225.96	225.88	225.80	225.85	
17	225.15	226.18	225.97	226.47	228.68	232.11	233.26	226.14	225.96	225.87	225.80	225.84	
18	226.10	226.07	225.94	226.34	230.93	230.86	229.53	226.12	225.96	225.87	225.81	225.84	
19	225.90	226.00	226.17	226.40	230.42	230.29	228.51	226.10	225.95	225.87	225.93	225.83	
20	226.54	225.97	227.25	226.80	228.62	228.88	228.02	226.10	225.95	225.86	225.99	225.83	
21	226.37	225.94	226.75	226.43	228.16	228.11	227.43	226.09	225.95	225.86	226.60	225.83	
22	226.03	225.90	226.48	226.24	228.63	227.44	227.19	226.08	225.95	225.86	226.33	225.82	
23	225.91	225.88	226.33	226.26	230.36	232.00	226.98	226.08	225.94	225.86	226.10	225.80	
24	225.84	225.86	226.24	228.10	228.71	232.13	226.86	226.07	225.94	225.86	226.01	225.80	
25	225.83	226.07	226.23	229.81	228.27	228.31	226.75	226.06	225.94	225.86	225.96	225.94	
26	225.93	225.88	226.39	229.67	228.64	227.81	226.68	226.05	225.93	225.85	225.93	228.13	
27	226.16	226.01	226.08	227.96	227.73	227.50	226.62	226.04	225.93	225.84	225.91	226.16	
28	226.21	226.17	226.02	226.84	227.16	227.30	226.60	226.03	225.93	225.84	225.89	229.62	
29	225.94	227.96	226.00	226.56	226.87	227.10	226.60	226.03	225.93	225.84	225.88	227.26	
30	225.92	228.25	225.97	226.45	226.67	226.88	226.58	226.01	225.93	225.83		226.34	
31		226.98		226.47	226.82		226.55		225.93	225.83		226.09	
Mean	225.92	226.59	226.18	226.58	227.99	229.63	228.26	226.21	225.96	225.88	225.90	226.12	
Max	226.61	229.93	227.25	229.81	230.93	235.23	233.26	226.50	226.01	225.93	226.60	229.62	235.23
Min	225.15	225.86	225.94	225.90	226.16	226.82	226.55	226.01	225.93	225.83	225.80	225.80	225.15

Annual Max Momentary Gage Height 235.48 M (MSL), at 5.00 Hours, on Sep 14, 1995
Zero Gage at Bottom Elevation 225.00 M (MSL), River Bed 225.59 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.68	2.86	0.92	4.20	18.90	26.07	5.00	1.15	0.89	0.56	0.74	
2	0.20	12.96	1.95	0.80	3.60	12.56	19.20	4.90	1.15	0.89	0.56	0.71	
3	0.14	7.90	1.95	0.80	2.58	8.80	36.80	4.80	1.15	0.86	0.56	0.68	
4	0.16	4.00	2.09	0.89	2.02	50.80	40.20	4.80	1.10	0.86	0.56	0.65	
5	0.16	3.30	1.60	1.04	2.93	145.95	43.80	4.70	1.10	0.86	0.56	0.65	
6	0.16	2.16	1.50	1.01	13.20	52.40	67.00	4.60	1.10	0.86	0.56	0.62	
7	0.02	1.30	1.30	0.95	22.82	20.30	86.00	3.60	1.07	0.86	0.56	0.62	
8	1.95	0.98	1.04	0.95	23.86	14.64	25.94	3.50	1.04	0.86	0.53	0.59	
9	1.20	12.16	0.98	0.95	36.50	15.28	18.50	2.93	1.04	0.86	0.53	0.59	
10	0.74	12.72	1.01	8.65	48.40	29.00	19.30	2.93	1.04	0.83	0.53	0.56	
11	0.71	52.60	1.15	6.50	45.00	21.65	17.90	2.86	1.01	0.77	0.53	0.56	
12	6.10	6.30	1.40	2.30	19.40	65.25	15.20	2.72	1.01	0.77	0.50	0.59	
13	1.07	3.50	1.40	1.45	13.36	202.50	13.12	2.23	1.01	0.77	0.50	0.65	
14	0.74	28.85	3.00	1.10	15.92	230.35	23.86	2.09	0.98	0.74	0.50	0.71	
15	0.50	7.30	2.16	0.98	17.50	200.38	34.40	2.02	0.98	0.74	0.50	0.74	
16	0.53	3.40	1.30	1.45	17.70	155.00	121.45	1.88	0.98	0.74	0.50	0.65	
17	0.00	2.16	1.01	4.70	30.20	109.30	149.10	1.88	0.98	0.71	0.50	0.62	
18	1.60	1.45	0.92	3.40	76.25	74.50	44.60	1.74	0.98	0.71	0.53	0.62	
19	0.80	1.10	2.09	4.00	63.50	60.25	27.65	1.60	0.95	0.71	0.89	0.59	
20	5.40	1.01	14.00	8.50	29.30	33.20	21.26	1.60	0.95	0.68	1.07	0.59	
21	3.70	0.92	7.75	4.30	23.08	22.43	15.44	1.55	0.95	0.68	6.00	0.59	
22	1.25	0.80	4.80	2.58	29.45	15.52	13.52	1.50	0.95	0.68	3.30	0.56	
23	0.83	0.74	3.30	2.72	62.00	106.00	11.60	1.50	0.92	0.68	1.60	0.50	
24	0.62	0.68	2.58	22.30	30.65	109.90	9.40	1.45	0.92	0.68	1.15	0.50	
25	0.59	1.45	2.51	50.20	24.51	25.03	7.75	1.40	0.92	0.68	0.98	0.92	
26	0.89	0.74	3.90	47.40	29.60	19.10	6.80	1.35	0.89	0.65	0.89	22.69	
27	2.02	1.15	1.50	20.60	18.30	16.00	6.20	1.30	0.89	0.62	0.83	2.02	
28	2.37	2.09	1.20	9.10	13.28	14.40	6.00	1.25	0.89	0.62	0.77	46.40	
29	0.92	20.60	1.10	5.60	9.55	12.80	6.00	1.25	0.89	0.62	0.74	14.08	
30	0.86	24.25	1.01	4.50	6.70	9.70	5.80	1.15	0.89	0.59		3.40	
31		11.60		4.70	8.80		5.50		0.89	0.59		1.55	
Total	36.49	230.85	74.36	225.34	744.16	1871.89	945.36	76.08	30.77	23.06	27.79	105.94	4392.09 CMSDAY
Mean	1.22	7.45	2.48	7.27	24.01	62.40	30.50	2.54	0.99	0.74	0.96	3.42	12.00 CMS
Max	6.10	52.60	14.00	50.20	76.25	230.35	149.10	5.00	1.15	0.89	6.00	46.40	230.35 CMS
Min	0.00	0.68	0.92	0.80	2.02	8.80	5.50	1.15	0.89	0.59	0.50	0.50	0.00 CMS
Runoff	3.153	19.945	6.425	19.469	64.295	161.731	81.679	6.573	2.659	1.992	2.401	9.153	379.477 MCM

Momentary Peak 241.60 CMS, at 235.48 M (MSL), at 5.00 Hours, on Sep 14, 1995
Runoff Yield 12.70 Liters/Second/Square KM, Momentary Peak Yield 255.661 Liters/Second/Square KM

WATER YEAR 1995

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 — On right bank at the automatic gage building.

Elevation — +210.804 m. (M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1966 to date.

Rating Operation

Period of Rating — 1968 to date.

Rated by Float — -

Rated by Current Meter — 1968 to date.

Stability of Channel Regimes — Fairly stable.

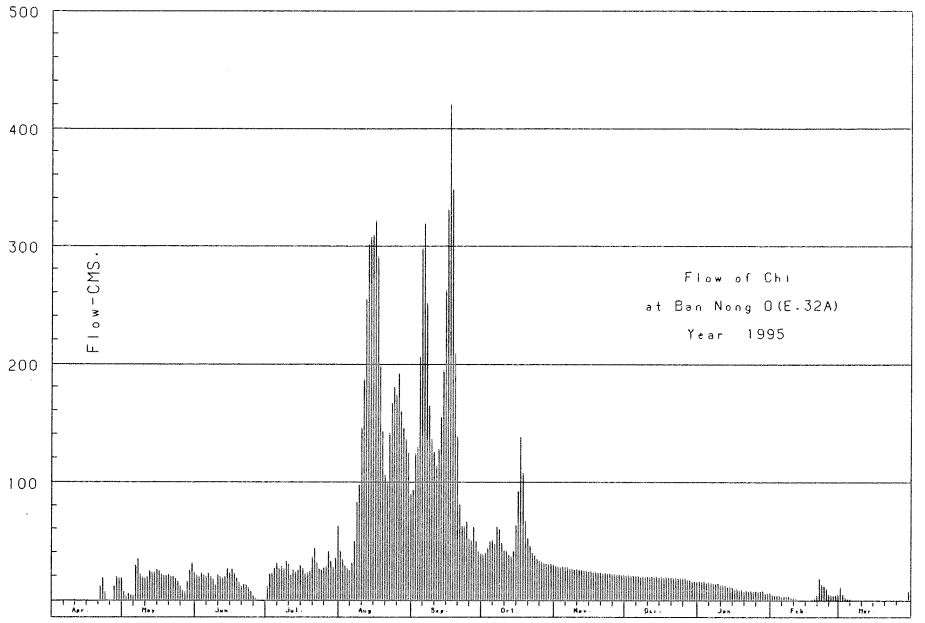
Overbank Flow Conditions — Overbank flow starts at elevation + 203.59 m (M.S.L.), records are channel flow only.

General Description — Records good. Stage-discharge relation defined by 50 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	198.48	198.68	199.01	198.72	200.94	202.99	200.62	199.79	199.04	198.77	198.65	198.72	
2	198.48	198.63	198.94	199.15	200.25	204.00	200.80	199.73	199.02	198.77	198.64	198.65	
3	198.48	198.66	199.18	199.18	199.81	204.18	201.06	199.69	199.01	198.77	198.64	198.62	
4	198.50	198.64	199.09	199.61	199.58	206.81	201.33	199.71	199.00	198.76	198.64	198.61	
5	198.55	198.64	198.90	199.96	199.46	208.15	201.35	199.72	198.99	198.76	198.63	198.61	
6	198.54	199.78	199.20	199.60	199.98	208.38	201.24	199.67	198.96	198.76	198.63	198.60	
7	198.56	200.34	198.93	199.73	201.34	207.55	201.81	199.59	198.95	198.75	198.63	198.60	
8	198.60	199.12	198.79	199.55	202.62	205.73	201.74	199.54	198.94	198.75	198.63	198.60	
9	198.57	198.92	198.74	200.11	203.14	204.43	201.25	199.50	198.93	198.75	198.62	198.58	
10	198.60	198.87	199.08	199.94	204.70	204.04	201.00	199.49	198.92	198.74	198.62	198.57	
11	198.58	198.92	198.92	199.03	206.39	203.67	200.89	199.46	198.92	198.74	198.61	198.56	
12	198.58	199.39	198.84	199.47	207.61	204.13	200.64	199.43	198.92	198.73	198.60	198.56	
13	198.54	199.23	198.91	199.26	208.19	205.28	200.46	199.41	198.92	198.72	198.60	198.59	
14	198.52	199.30	199.59	199.47	208.25	206.55	200.94	199.38	198.92	198.72	198.59	198.58	
15	198.52	199.47	199.20	199.76	208.28	207.72	201.85	199.35	198.89	198.71	198.59	198.58	
16	198.52	199.37	199.54	199.54	208.40	208.50	202.96	199.33	198.88	198.70	198.59	198.58	
17	198.51	199.15	199.17	199.17	208.07	209.21	204.48	199.29	198.87	198.70	198.58	198.57	
18	198.50	199.00	198.84	199.22	206.64	208.66	203.46	199.26	198.87	198.69	198.60	198.56	
19	198.48	199.03	198.76	199.33	204.63	206.86	202.03	199.24	198.87	198.69	198.61	198.55	
20	198.51	199.08	198.73	200.43	203.39	204.49	201.44	199.23	198.85	198.68	198.64	198.54	
21	198.73	198.98	198.74	201.06	203.18	202.59	201.16	199.21	198.84	198.68	198.80	198.54	
22	198.86	198.91	198.74	200.04	204.57	201.83	200.82	199.19	198.83	198.68	198.74	198.54	
23	198.67	198.82	198.71	199.55	205.81	201.84	200.54	199.17	198.81	198.68	198.73	198.52	
24	198.59	198.77	198.68	199.43	206.23	201.98	200.34	199.15	198.81	198.68	198.70	198.54	
25	198.55	198.73	198.64	199.59	206.03	201.43	200.19	199.14	198.80	198.68	198.65	198.57	
26	198.54	198.69	198.61	199.74	206.49	201.33	200.08	199.12	198.80	198.68	198.64	198.57	
27	198.73	198.67	198.57	200.90	205.53	201.82	199.99	199.11	198.79	198.68	198.64	198.58	
28	198.89	198.77	198.56	200.12	204.71	201.31	199.91	199.09	198.78	198.68	198.64	198.55	
29	198.85	199.39	198.57	199.65	204.40	200.91	199.91	199.07	198.77	198.66	198.65	198.60	
30	198.80	200.01	198.56	200.36	204.03	200.68	199.90	199.05	198.77	198.66		198.68	
31		199.26		201.87	202.86		199.85		198.77	198.66		198.64	
Mean	198.59	199.07	198.89	199.76	204.37	204.57	201.10	199.37	198.89	198.71	198.64	198.59	
Max	198.89	200.34	199.59	201.87	208.40	209.21	204.48	199.79	199.04	198.77	198.80	198.72	209.21
Min	198.48	198.63	198.56	198.72	199.46	200.68	199.85	199.05	198.77	198.66	198.58	198.52	198.48

Annual Max Momentary Gage Height 209.29 M (MSL), at 16.00 Hours, on Sep 17, 1995
Zero Gage at Bottom Elevation 198.00 M (MSL), River Bed 197.56 M (MSL)
Left Bank Elevation 209.63 M (MSL)
Right Bank Elevation 203.58 M (MSL), Drainage Area 2905 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	8.2	21.3	11.8	42.3	94.2	38.9	29.8	21.6	16.3	5.5	11.8	
2	0.0	3.7	20.5	22.8	34.8	124.5	40.8	29.1	21.4	16.3	4.6	5.5	
3	0.0	6.4	23.1	23.1	30.0	129.9	44.3	28.7	21.3	16.3	4.6	2.8	
4	0.0	4.6	22.2	27.8	27.5	207.0	50.8	28.9	21.2	15.4	4.6	1.9	
5	0.5	4.6	20.1	31.7	26.2	298.5	51.3	29.0	21.1	15.4	3.7	1.9	
6	0.4	29.7	23.4	27.7	31.9	320.0	48.5	28.5	20.7	15.4	3.7	1.0	
7	0.6	35.8	20.4	29.1	51.0	251.7	62.7	27.6	20.6	14.5	3.7	1.0	
8	1.0	22.5	18.1	27.2	83.1	165.2	61.0	27.1	20.5	14.5	3.7	1.0	
9	0.7	20.3	13.6	33.3	98.7	137.4	48.8	26.6	20.4	14.5	2.8	0.8	
10	1.0	19.8	22.1	31.4	146.0	125.7	43.0	26.5	20.3	13.6	2.8	0.7	
11	0.8	20.3	20.3	21.5	187.6	114.6	41.8	26.2	20.3	13.6	1.9	0.6	
12	0.8	25.4	19.4	26.3	255.7	128.4	39.1	25.9	20.3	12.7	1.0	0.6	
13	0.4	23.7	20.2	24.0	302.1	155.6	37.1	25.7	20.3	11.8	1.0	0.9	
14	0.2	24.5	27.6	26.3	307.5	194.8	42.3	25.3	20.3	11.8	0.9	0.8	
15	0.2	26.3	23.4	29.5	310.2	263.6	63.8	25.0	20.0	10.9	0.9	0.8	
16	0.2	25.2	27.1	27.1	322.0	332.0	93.3	24.8	19.9	10.0	0.9	0.8	
17	0.1	22.8	23.0	23.0	291.6	421.5	138.9	24.3	19.8	10.0	0.8	0.7	
18	0.0	21.2	19.4	23.6	198.8	349.2	108.3	24.0	19.8	9.1	1.0	0.6	
19	0.0	21.5	15.4	24.8	143.6	209.8	68.2	23.8	19.8	9.1	1.9	0.5	
20	0.1	22.1	12.7	36.8	106.2	139.2	53.5	23.7	19.5	8.2	4.6	0.4	
21	12.7	21.0	13.6	44.3	99.9	82.2	46.6	23.5	19.4	8.2	19.0	0.4	
22	19.7	20.2	13.6	32.5	141.6	63.3	41.0	23.3	19.3	8.2	13.6	0.4	
23	7.3	19.2	10.9	27.2	167.3	63.5	38.0	23.0	19.1	8.2	12.7	0.2	
24	0.9	16.3	8.2	25.9	181.2	67.0	35.8	22.8	19.1	8.2	10.0	0.4	
25	0.5	12.7	4.6	27.6	174.0	53.2	34.2	22.7	19.0	8.2	5.5	0.7	
26	0.4	9.1	1.9	29.3	192.1	50.8	33.0	22.5	19.0	8.2	4.6	0.7	
27	12.7	7.3	0.7	41.9	160.6	63.0	32.0	22.4	18.1	8.2	4.6	0.8	
28	20.0	16.3	0.6	33.4	146.4	50.2	31.1	22.2	17.2	8.2	4.6	0.5	
29	19.5	25.4	0.7	28.3	136.5	42.0	31.1	21.9	16.3	6.4	5.5	1.0	
30	19.0	32.2	0.6	36.0	125.4	39.5	31.0	21.7	16.3	6.4		8.2	
31		24.0		64.2	90.3		30.5		16.3	6.4		4.6	
Total	119.7	592.3	468.7	919.4	4612.1	4737.5	1560.7	756.5	608.2	344.2	134.7	53.0	14907.0 CMSDAY
Mean	4.0	19.1	15.6	29.7	148.8	157.9	50.3	25.2	19.6	11.1	4.6	1.7	40.7 CMS
Max	20.0	35.8	27.6	64.2	322.0	421.5	138.9	29.8	21.6	16.3	19.0	11.8	421.5 CMS
Min	0.0	3.7	0.6	11.8	26.2	39.5	30.5	21.7	16.3	6.4	0.8	0.2	0.0 CMS
Runoff	10.34	51.17	40.50	79.44	398.49	409.32	134.84	65.36	52.55	29.74	11.64	4.58	1287.96 MCM

Momentary Peak 433.50 CMS, at 209.29 M (MSL), at 16.00 Hours, on Sep 17, 1995

Runoff Yield 14.02 Liters/Second/Square KM, Momentary Peak Yield 149.225 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

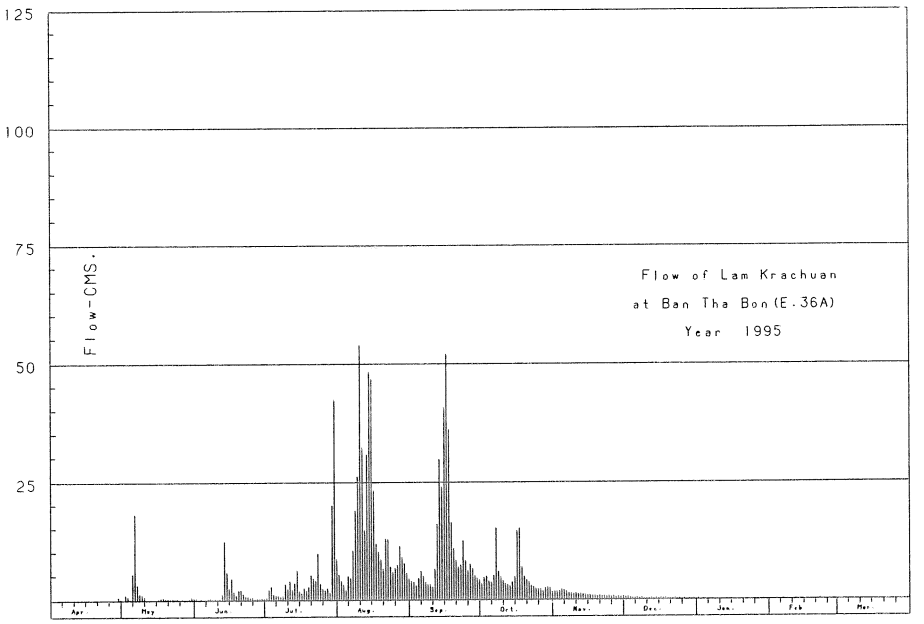
Lam Krachuan at Ban Tha Bon, Chaiyaphum (E.36A)

Location	Lat. 15°-43'-24" N., Long. 101°-40'-04" E., on right bank about 2 kilometers upstream from E.36 station at Ban Tha Bon, Amphoe Nong Bua Raheo, Chaiyaphum.
Drainage Area	290 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+211.25 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 10 meters from the automatic gage building.
Elevation	+218.820 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1970 to date.
Rating Operation	
Period of Rating	1972 - 1981, 1988 to date.
Rated by Float	-
Rated by Current Meter	1972 - 1981, 1988 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 61 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	212.53	213.17	213.26	213.30	213.98	213.84	213.79	213.60	213.34	213.23	213.21	213.15	
2	212.53	213.48	213.24	213.65	213.86	213.82	213.91	213.59	213.33	213.22	213.21	213.14	
3	212.53	213.36	213.22	213.74	213.77	213.76	213.95	213.62	213.33	213.22	213.21	213.13	
4	212.53	213.19	213.21	213.50	213.65	213.91	213.84	213.65	213.27	213.21	213.21	213.11	
5	212.53	214.01	213.17	213.46	213.96	214.05	213.82	213.65	213.31	213.21	213.20	213.07	
6	212.53	214.95	213.28	213.40	213.90	213.96	213.96	213.59	213.30	213.21	213.20	213.03	
7	212.53	213.76	213.28	213.38	214.41	213.82	214.74	213.55	213.29	213.21	213.19	213.05	
8	212.53	213.51	213.24	213.38	214.99	213.78	214.06	213.52	213.29	213.21	213.19	213.05	
9	212.53	213.45	213.22	213.79	215.45	213.77	213.93	213.52	213.27	213.21	213.18	213.04	
10	212.53	213.35	213.22	213.69	216.98	213.73	213.86	213.51	213.27	213.21	213.17	213.03	
11	212.53	213.19	213.22	213.84	215.81	214.10	213.78	213.49	213.26	213.21	213.17	213.02	
12	212.53	213.15	213.47	213.64	214.70	214.79	213.77	213.49	213.27	213.21	213.16	213.01	
13	212.53	213.13	214.54	213.81	215.73	215.67	213.73	213.49	213.27	213.20	213.14	213.01	
14	212.53	213.15	214.03	214.07	216.68	215.32	213.83	213.46	213.27	213.20	213.13	213.01	
15	212.53	213.18	213.70	213.61	216.60	216.28	213.93	213.44	213.27	213.20	213.12	212.99	
16	212.53	213.22	213.91	213.52	215.28	216.88	214.69	213.43	213.26	213.20	213.12	212.99	
17	212.53	213.29	213.57	213.70	214.51	216.04	214.74	213.42	213.26	213.21	213.15	212.98	
18	212.53	213.29	213.45	213.62	214.38	214.83	214.14	213.41	213.26	213.21	213.16	212.96	
19	212.53	213.25	213.65	213.73	214.26	214.42	213.94	213.41	213.26	213.20	213.20	213.00	
20	212.53	213.22	213.63	213.98	214.10	214.24	213.88	213.40	213.25	213.19	213.17	213.02	
21	212.53	213.25	213.49	213.90	214.57	214.14	213.82	213.40	213.25	213.21	213.23	213.01	
22	212.53	213.25	213.39	213.85	214.57	214.16	213.76	213.38	213.25	213.21	213.23	213.00	
23	212.53	213.22	213.35	214.36	214.15	214.55	213.72	213.37	213.24	213.21	213.21	212.98	
24	212.53	213.21	213.32	213.80	214.03	214.25	213.68	213.37	213.24	213.20	213.19	212.97	
25	212.53	213.21	213.29	213.67	214.12	214.07	213.67	213.37	213.24	213.21	213.18	212.96	
26	212.53	213.19	213.26	213.65	214.16	214.18	213.66	213.37	213.24	213.20	213.18	212.96	
27	212.53	213.18	213.26	213.69	214.47	214.11	213.61	213.35	213.23	213.19	213.17	212.95	
28	212.61	213.20	213.26	213.57	214.29	213.97	213.69	213.35	213.23	213.20	213.17	212.94	
29	213.35	213.22	213.25	215.08	214.20	213.90	213.72	213.35	213.23	213.21	213.16	212.98	
30	213.20	213.33	213.25	216.37	214.01	213.89	213.69	213.35	213.23	213.21		213.23	
31		213.30		214.26	213.90		213.57		213.23	213.21		213.16	
Mean	212.58	213.35	213.42	213.84	214.63	214.41	213.90	213.46	213.27	213.21	213.18	213.03	
Max	213.35	214.95	214.54	216.37	216.98	216.88	214.74	213.65	213.34	213.23	213.23	213.23	216.98
Min	212.53	213.13	213.17	213.30	213.65	213.73	213.57	213.35	213.23	213.19	213.12	212.94	212.53

Annual Max Momentary Gage Height 217.55 M (MSL), at 6.00 Hours, on Aug 20, 1995 on Aug 10, 1995
Zero Gage at Bottom Elevation 211.25 M (MSL), River Bed 212.50 M (MSL)
Left Bank Elevation 219.89 M (MSL)
Right Bank Elevation 220.07 M (MSL), Drainage Area 290 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.2	0.4	0.5	5.4	4.0	3.5	1.9	0.7	0.3	0.2	0.1	
2	0.0	1.2	0.3	2.2	4.2	3.8	4.7	1.8	0.6	0.3	0.2	0.1	
3	0.0	0.7	0.3	3.0	3.3	3.2	5.1	2.0	0.6	0.3	0.2	0.1	
4	0.0	0.2	0.2	1.3	2.2	4.7	4.0	2.2	0.4	0.2	0.2	0.1	
5	0.0	5.7	0.2	1.1	5.2	6.1	3.8	2.2	0.5	0.2	0.2	0.1	
6	0.0	18.4	0.4	0.9	4.6	5.2	5.2	1.8	0.5	0.2	0.2	0.0	
7	0.0	3.2	0.4	0.8	10.7	3.8	15.4	1.6	0.5	0.2	0.2	0.1	
8	0.0	1.4	0.3	0.8	19.0	3.4	6.2	1.4	0.5	0.2	0.2	0.1	
9	0.0	1.1	0.3	3.5	26.2	3.3	4.9	1.4	0.4	0.2	0.2	0.0	
10	0.0	0.7	0.3	2.5	54.1	2.9	4.2	1.4	0.4	0.2	0.2	0.0	
11	0.0	0.2	0.3	4.0	32.4	6.6	3.4	1.3	0.4	0.2	0.2	0.0	
12	0.0	0.1	1.2	2.2	14.8	16.1	3.3	1.3	0.4	0.2	0.2	0.0	
13	0.0	0.1	12.6	3.7	31.0	30.0	2.9	1.3	0.4	0.2	0.1	0.0	
14	0.0	0.1	5.9	6.3	48.4	24.0	3.9	1.1	0.4	0.2	0.1	0.0	
15	0.0	0.2	2.6	2.0	46.9	40.8	4.9	1.1	0.4	0.2	0.1	0.0	
16	0.0	0.3	4.7	1.4	23.4	52.2	14.7	1.0	0.4	0.2	0.1	0.0	
17	0.0	0.5	1.7	2.6	12.1	36.3	15.4	1.0	0.4	0.2	0.1	0.0	
18	0.0	0.5	1.1	2.0	10.3	16.6	7.1	0.9	0.4	0.2	0.2	0.0	
19	0.0	0.4	2.2	2.9	8.7	10.9	5.0	0.9	0.4	0.2	0.2	0.0	
20	0.0	0.3	2.1	5.4	6.6	8.4	4.4	0.9	0.4	0.2	0.2	0.0	
21	0.0	0.4	1.3	4.6	13.0	7.1	3.8	0.9	0.4	0.2	0.3	0.0	
22	0.0	0.4	0.9	4.1	13.0	7.4	3.2	0.8	0.4	0.2	0.3	0.0	
23	0.0	0.3	0.7	10.0	7.2	12.7	2.8	0.8	0.3	0.2	0.2	0.0	
24	0.0	0.2	0.6	3.6	5.9	8.5	2.5	0.8	0.3	0.2	0.2	0.0	
25	0.0	0.2	0.5	2.4	6.9	6.3	2.4	0.8	0.3	0.2	0.2	0.0	
26	0.0	0.2	0.4	2.2	7.4	7.6	2.3	0.8	0.3	0.2	0.2	0.0	
27	0.0	0.2	0.4	2.5	11.6	6.7	2.0	0.7	0.3	0.2	0.2	0.0	
28	0.0	0.2	0.4	1.7	9.1	5.3	2.5	0.7	0.3	0.2	0.2	0.0	
29	0.7	0.3	0.4	20.3	7.9	4.6	2.8	0.7	0.3	0.2	0.2	0.0	
30	0.2	0.6	0.4	42.5	5.7	4.5	2.5	0.7	0.3	0.2		0.3	
31		0.5		8.7	4.6		1.7		0.3	0.2		0.2	
Total	0.9	39.0	43.5	151.7	461.8	353.0	150.5	36.2	12.6	6.5	5.5	1.2	1262.4 CMSDAY
Mean	0.0	1.3	1.5	4.9	14.9	11.8	4.9	1.2	0.4	0.2	0.2	0.0	3.4 CMS
Max	0.7	18.4	12.6	42.5	54.1	52.2	15.4	2.2	0.7	0.3	0.3	0.3	54.1 CMS
Min	0.0	0.1	0.2	0.5	2.2	2.9	1.7	0.7	0.3	0.2	0.1	0.0	0.0 CMS
Runoff	0.08	3.37	3.76	13.11	39.90	30.50	13.00	3.13	1.09	0.56	0.48	0.10	109.07 MCM

Momentary Peak 65.50 CMS, at 217.55 M (MSL), at 6.00 Hours, on Aug 20, 1995 on Aug 10, 1995

Runoff Yield 11.89 Liters/Second/Square KM, Momentary Peak Yield 225.862 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

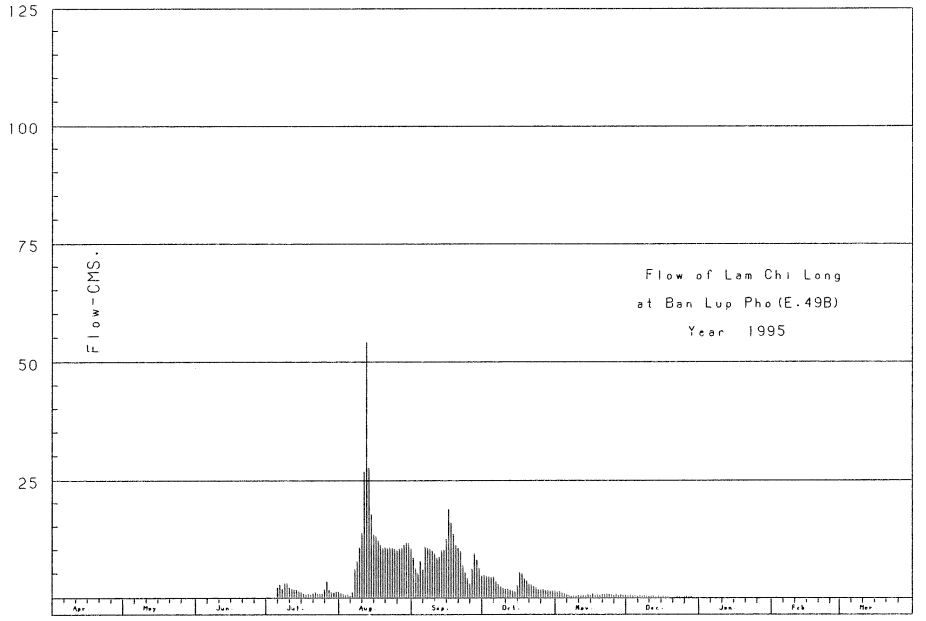
Lam Chi Long at Ban Lup Pho, Chaiyaphum (E.49B)

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.
Overbank Flow Conditions	Overbank flow starts at elevation +199.08 m (M.S.L.) and is included.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 1995

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	196.76	196.93	196.88	196.76	197.17	197.65	197.50	197.21	197.10	197.02	196.68	196.61	
2	196.76	196.93	196.87	196.75	197.13	197.57	197.49	197.21	197.10	197.01	196.67	196.61	
3	196.76	196.93	196.86	196.76	197.12	197.52	197.48	197.19	197.10	196.98	196.67	196.61	
4	196.76	196.93	196.84	196.80	197.11	197.63	197.48	197.15	197.09	196.96	196.66	196.61	
5	196.76	196.93	196.82	197.32	197.09	197.56	197.48	197.13	197.09	196.96	196.66	196.61	
6	196.76	196.93	196.80	197.36	197.20	197.86	197.42	197.10	197.09	196.97	196.65	196.61	
7	196.76	196.93	196.78	197.29	197.56	197.83	197.37	197.08	197.09	196.96	196.65	196.61	
8	196.76	196.93	196.77	197.38	197.63	197.77	197.33	197.08	197.09	196.96	196.64	196.61	
9	196.76	196.93	196.76	197.38	197.84	197.72	197.30	197.09	197.08	196.94	196.64	196.61	
10	196.76	196.93	196.75	197.32	198.20	197.68	197.29	197.10	197.07	196.93	196.63	196.61	
11	196.76	196.93	196.74	197.28	198.71	197.65	197.28	197.10	197.07	196.91	196.63	196.61	
12	196.76	196.99	196.76	197.27	199.02	197.66	197.26	197.09	197.07	196.90	196.63	196.61	
13	196.76	197.02	196.78	197.25	198.72	197.72	197.22	197.10	197.06	196.92	196.62	196.61	
14	196.76	197.03	196.83	197.22	198.45	197.76	197.23	197.11	197.06	196.97	196.62	196.61	
15	196.76	196.99	196.86	197.20	198.18	198.08	197.34	197.12	197.06	197.02	196.61	196.61	
16	196.76	196.93	196.89	197.14	198.14	198.50	197.53	197.14	197.05	197.03	196.61	196.61	
17	196.76	196.92	196.90	197.13	198.05	198.36	197.52	197.12	197.05	197.00	196.61	196.61	
18	196.76	196.90	196.88	197.13	197.93	198.18	197.46	197.11	197.04	196.97	196.61	196.61	
19	196.76	196.89	196.94	197.13	197.83	197.94	197.42	197.12	197.04	196.95	196.61	196.61	
20	196.76	196.88	196.96	197.14	197.83	197.82	197.38	197.13	197.03	196.94	196.61	196.61	
21	196.76	196.88	197.03	197.19	197.81	197.70	197.36	197.15	197.03	196.90	196.61	196.61	
22	196.76	196.88	196.96	197.16	197.83	197.59	197.34	197.14	197.04	196.87	196.61	196.61	
23	196.76	196.90	196.91	197.14	197.84	197.53	197.31	197.14	197.05	196.83	196.61	196.61	
24	196.76	196.90	196.88	197.16	197.79	197.46	197.28	197.12	197.05	196.83	196.61	196.61	
25	196.76	196.89	196.86	197.26	197.74	197.38	197.27	197.11	197.05	196.80	196.61	196.61	
26	196.76	196.89	196.83	197.42	197.77	197.56	197.26	197.13	197.05	196.77	196.61	196.61	
27	196.76	196.92	196.82	197.26	197.84	197.68	197.25	197.11	197.05	196.73	196.61	196.61	
28	196.76	196.92	196.80	197.18	197.93	197.64	197.24	197.11	197.04	196.70	196.61	196.61	
29	196.76	196.90	196.78	197.18	198.00	197.57	197.24	197.11	197.03	196.69	196.61	196.61	
30	196.76	196.89	196.76	197.20	197.97	197.50	197.23	197.10	197.03	196.68		196.61	
31		196.88		197.20	197.82		197.22		197.03	196.68		196.61	
Mean	196.76	196.92	196.84	197.17	197.85	197.74	197.35	197.12	197.06	196.90	196.63	196.61	
Max	196.76	197.03	197.03	197.42	199.02	198.50	197.53	197.21	197.10	197.03	196.68	196.61	199.02
Min	196.76	196.88	196.74	196.75	197.09	197.38	197.22	197.08	197.03	196.68	196.61	196.61	196.61

Annual Max Momentary Gage Height 199.18 M (MSL), at 6.00 Hours, on Aug 12, 1995
Zero Gage at Bottom Elevation 196.18 M (MSL), River Bed 196.60 M (MSL)
Left Bank Elevation 199.12 M (MSL)
Right Bank Elevation 199.07 M (MSL), Drainage Area 331 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	1.09	8.50	4.80	1.38	0.60	0.20	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.81	6.34	4.65	1.38	0.60	0.15	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.74	5.24	4.50	1.23	0.60	0.06	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.67	7.90	4.50	0.95	0.55	0.02	0.00	0.00	
5	0.00	0.00	0.00	2.34	0.55	6.12	4.50	0.81	0.55	0.02	0.00	0.00	
6	0.00	0.00	0.00	2.82	1.30	10.86	3.60	0.60	0.55	0.04	0.00	0.00	
7	0.00	0.00	0.00	2.02	6.12	10.68	2.94	0.50	0.55	0.02	0.00	0.00	
8	0.00	0.00	0.00	3.06	7.90	10.35	2.46	0.50	0.55	0.02	0.00	0.00	
9	0.00	0.00	0.00	3.06	10.74	10.10	2.10	0.55	0.50	0.00	0.00	0.00	
10	0.00	0.00	0.00	2.34	13.80	9.40	2.02	0.60	0.45	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.94	27.04	8.50	1.94	0.60	0.45	0.00	0.00	0.00	
12	0.00	0.08	0.00	1.86	54.48	8.80	1.78	0.55	0.45	0.00	0.00	0.00	
13	0.00	0.20	0.00	1.70	27.68	10.10	1.46	0.60	0.40	0.00	0.00	0.00	
14	0.00	0.25	0.00	1.46	17.90	10.30	1.54	0.67	0.40	0.04	0.00	0.00	
15	0.00	0.08	0.00	1.30	13.58	12.52	2.58	0.74	0.40	0.20	0.00	0.00	
16	0.00	0.00	0.00	0.88	13.14	19.00	5.46	0.88	0.35	0.25	0.00	0.00	
17	0.00	0.00	0.00	0.81	12.25	16.12	5.24	0.74	0.35	0.10	0.00	0.00	
18	0.00	0.00	0.00	0.81	11.31	13.58	4.20	0.67	0.30	0.04	0.00	0.00	
19	0.00	0.00	0.00	0.81	10.68	11.38	3.60	0.74	0.30	0.00	0.00	0.00	
20	0.00	0.00	0.02	0.88	10.68	10.62	3.06	0.81	0.25	0.00	0.00	0.00	
21	0.00	0.00	0.25	1.23	10.56	10.00	2.82	0.95	0.25	0.00	0.00	0.00	
22	0.00	0.00	0.02	1.02	10.68	6.78	2.58	0.88	0.30	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.88	10.74	5.46	2.22	0.88	0.35	0.00	0.00	0.00	
24	0.00	0.00	0.00	1.02	10.45	4.20	1.94	0.74	0.35	0.00	0.00	0.00	
25	0.00	0.00	0.00	1.78	10.20	3.06	1.86	0.67	0.35	0.00	0.00	0.00	
26	0.00	0.00	0.00	3.60	10.35	6.12	1.78	0.81	0.35	0.00	0.00	0.00	
27	0.00	0.00	0.00	1.78	10.74	9.40	1.70	0.67	0.35	0.00	0.00	0.00	
28	0.00	0.00	0.00	1.16	11.31	8.20	1.62	0.67	0.30	0.00	0.00	0.00	
29	0.00	0.00	0.00	1.16	11.80	6.34	1.62	0.67	0.25	0.00	0.00	0.00	
30	0.00	0.00	0.00	1.30	11.59	4.80	1.54	0.60	0.25	0.00		0.00	
31		0.00		1.30	10.62		1.46		0.25	0.00		0.00	
Total	0.00	0.61	0.29	44.32	361.50	270.77	88.07	23.04	12.50	1.16	0.00	0.00	802.26 CMSDAY
Mean	0.00	0.02	0.01	1.43	11.66	9.03	2.84	0.77	0.40	0.04	0.00	0.00	2.19 CMS
Max	0.00	0.25	0.25	3.60	54.48	19.00	5.46	1.38	0.60	0.25	0.00	0.00	54.48 CMS
Min	0.00	0.00	0.00	0.00	0.55	3.06	1.46	0.50	0.25	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.053	0.025	3.829	31.234	23.395	7.609	1.991	1.080	0.100	0.000	0.000	69.315 MCM

Momentary Peak 71.12 CMS, at 199.18 M (MSL), at 6.00 Hours, on Aug 12, 1995

Runoff Yield 6.62 Liters/Second/Square KM, Momentary Peak Yield 214.86 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

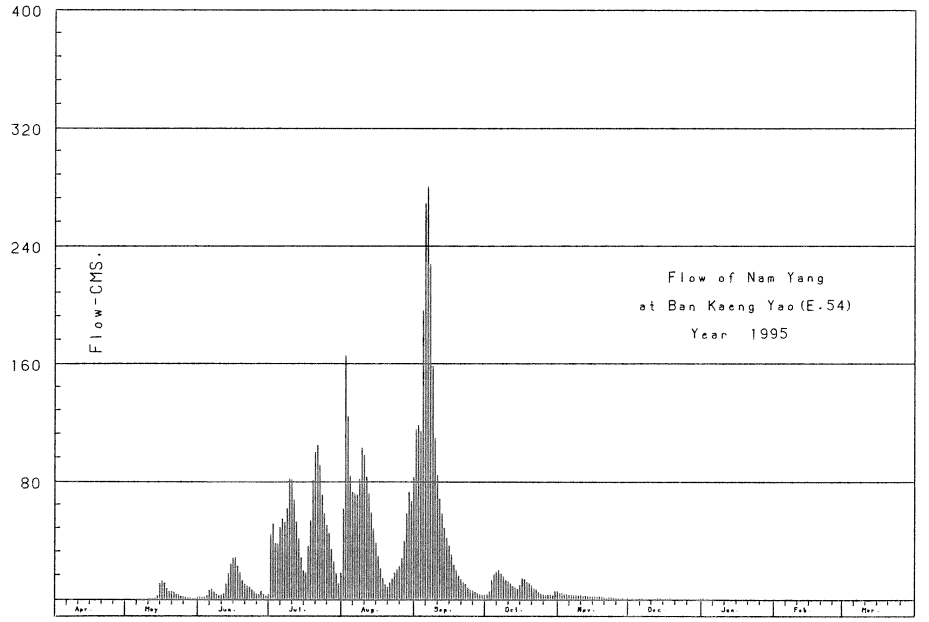
Nam Yang at Ban Kaeng Yao, Kalasin (E.54)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 106 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.08	139.19	139.39	140.85	141.30	142.43	139.57	139.63	139.27	139.29	139.10	139.05	
2	139.06	139.07	139.37	141.04	143.36	142.49	139.67	139.61	139.27	139.27	139.07	139.04	
3	139.05	139.08	139.37	140.71	142.61	142.41	139.97	139.57	139.27	139.25	139.06	139.04	
4	139.05	139.07	139.50	140.69	141.79	143.87	140.11	139.55	139.28	139.20	139.07	139.02	
5	139.07	139.06	139.72	140.98	141.55	144.96	140.16	139.54	139.27	139.20	139.08	139.02	
6	139.07	139.05	139.75	141.12	141.52	145.12	140.19	139.52	139.27	139.18	139.05	139.03	
7	139.07	139.03	139.67	141.06	141.51	144.37	140.12	139.51	139.23	139.18	139.11	139.09	
8	139.09	139.02	139.55	141.30	141.74	143.23	140.05	139.51	139.24	139.23	139.08	139.08	
9	139.07	139.02	139.49	141.75	142.18	142.31	139.98	139.50	139.25	139.17	139.08	139.09	
10	139.07	139.24	139.50	141.73	142.09	141.80	139.94	139.48	139.26	139.19	139.09	139.10	
11	139.07	139.24	139.59	141.43	141.78	141.45	139.90	139.45	139.29	139.16	139.09	139.10	
12	139.04	139.30	139.89	141.08	141.52	141.21	139.84	139.45	139.28	139.13	139.07	139.09	
13	139.07	139.31	140.12	140.78	141.23	140.97	139.80	139.43	139.35	139.11	139.08	139.09	
14	139.06	139.48	140.33	140.46	140.95	140.80	139.77	139.42	139.29	139.12	139.07	139.07	
15	139.21	139.90	140.44	140.19	140.72	140.67	139.86	139.42	139.31	139.14	139.05	139.05	
16	139.14	139.95	140.46	140.13	140.48	140.51	140.01	139.41	139.33	139.15	139.09	139.04	
17	139.13	139.92	140.30	140.66	140.24	140.32	140.00	139.41	139.30	139.11	139.09	139.02	
18	139.23	139.77	140.14	141.09	140.01	140.19	139.93	139.41	139.33	139.13	139.12	139.02	
19	139.18	139.68	139.97	141.73	139.88	140.08	139.91	139.41	139.26	139.18	139.11	139.02	
20	139.14	139.67	139.88	142.12	139.81	139.99	139.85	139.35	139.19	139.19	139.09	139.02	
21	139.12	139.66	139.84	142.22	139.91	139.92	139.78	139.35	139.27	139.18	139.06	139.12	
22	139.12	139.59	139.82	141.94	140.01	139.89	139.75	139.37	139.23	139.17	139.06	139.07	
23	139.10	139.54	139.74	141.51	140.15	139.80	139.66	139.36	139.25	139.15	139.09	139.07	
24	139.08	139.45	139.66	141.21	140.21	139.74	139.59	139.34	139.23	139.12	139.10	139.07	
25	139.08	139.39	139.58	141.01	140.29	139.70	139.54	139.34	139.24	139.14	139.10	139.05	
26	139.07	139.35	139.55	140.88	140.44	139.67	139.50	139.31	139.23	139.18	139.11	139.05	
27	139.06	139.33	139.70	140.61	140.75	139.62	139.53	139.31	139.20	139.18	139.08	139.14	
28	139.06	139.31	139.55	140.37	141.21	139.56	139.53	139.31	139.18	139.12	139.06	139.16	
29	139.06	139.28	139.45	140.13	141.56	139.54	139.52	139.29	139.15	139.10	139.05	139.14	
30	139.06	139.27	139.56	139.90	141.40	139.52	139.68	139.28	139.30	139.10		139.13	
31		139.37		140.13	141.77		139.68		139.32	139.13		139.12	
Mean	139.09	139.37	139.76	140.99	141.10	141.20	139.82	139.43	139.26	139.17	139.08	139.07	
Max	139.23	139.95	140.46	142.22	143.36	145.12	140.19	139.63	139.35	139.29	139.12	139.16	145.12
Min	139.04	139.02	139.37	139.90	139.81	139.52	139.50	139.28	139.15	139.10	139.05	139.02	139.02

Annual Max Momentary Gage Height 145.26 M (MSL), at 2.00 Hours, on Sep 6, 1995
Zero Gage at Bottom Elevation 138.34 M (MSL), River Bed 138.40 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.48	1.90	44.00	62.00	115.50	3.70	4.60	0.85	0.95	0.25	0.13	
2	0.15	0.18	1.70	51.60	165.80	118.50	5.40	4.20	0.85	0.85	0.18	0.10	
3	0.13	0.20	1.70	38.40	124.55	114.50	13.10	3.70	0.85	0.75	0.15	0.10	
4	0.13	0.18	3.00	37.60	84.05	196.20	17.30	3.50	0.90	0.50	0.18	0.05	
5	0.18	0.15	6.40	49.20	73.25	269.20	18.80	3.40	0.85	0.50	0.20	0.05	
6	0.18	0.13	7.00	54.80	71.90	280.40	19.70	3.20	0.85	0.45	0.13	0.07	
7	0.18	0.07	5.40	52.40	71.45	228.05	17.60	3.10	0.65	0.45	0.28	0.22	
8	0.22	0.05	3.50	62.00	81.80	158.65	15.50	3.10	0.70	0.65	0.20	0.20	
9	0.18	0.05	2.90	82.25	103.00	109.50	13.40	3.00	0.75	0.43	0.20	0.22	
10	0.18	0.70	3.00	81.35	98.50	84.50	12.20	2.80	0.80	0.48	0.22	0.25	
11	0.18	0.70	3.90	67.85	83.60	68.75	11.00	2.50	0.95	0.40	0.22	0.25	
12	0.10	1.00	10.70	53.20	71.90	58.40	9.20	2.50	0.90	0.33	0.18	0.22	
13	0.18	1.10	17.60	41.20	59.20	48.80	8.00	2.30	1.50	0.28	0.20	0.22	
14	0.15	2.80	24.05	28.60	48.00	42.00	7.40	2.20	0.95	0.30	0.18	0.18	
15	0.55	11.00	27.90	19.70	38.80	36.80	9.80	2.20	1.10	0.35	0.13	0.13	
16	0.35	12.50	28.60	17.90	29.30	30.40	14.30	2.10	1.30	0.37	0.22	0.10	
17	0.33	11.60	23.00	36.40	21.20	23.70	14.00	2.10	1.00	0.28	0.22	0.05	
18	0.65	7.40	18.20	53.60	14.30	19.70	11.90	2.10	1.30	0.33	0.30	0.05	
19	0.45	5.60	13.10	81.35	10.40	16.40	11.30	2.10	0.80	0.45	0.28	0.05	
20	0.35	5.40	10.40	100.00	8.30	13.70	9.50	1.50	0.48	0.48	0.22	0.05	
21	0.30	5.20	9.20	105.00	11.30	11.60	7.60	1.50	0.85	0.45	0.15	0.30	
22	0.30	3.90	8.60	91.15	14.30	10.70	7.00	1.70	0.65	0.43	0.15	0.18	
23	0.25	3.40	6.80	71.45	18.50	8.00	5.20	1.60	0.75	0.37	0.22	0.18	
24	0.20	2.50	5.20	58.40	20.30	6.80	3.90	1.40	0.65	0.30	0.25	0.18	
25	0.20	1.90	3.80	50.40	22.70	6.00	3.40	1.40	0.70	0.35	0.25	0.13	
26	0.18	1.50	3.50	45.20	27.90	5.40	3.00	1.10	0.65	0.45	0.28	0.13	
27	0.15	1.30	6.00	34.40	40.00	4.40	3.30	1.10	0.50	0.45	0.20	0.35	
28	0.15	1.10	3.50	25.45	58.40	3.60	3.30	1.10	0.45	0.30	0.15	0.40	
29	0.15	0.90	2.50	17.90	73.70	3.40	3.20	0.95	0.37	0.25	0.13	0.35	
30	0.15	0.85	3.60	11.00	66.50	3.20	5.60	0.90	1.00	0.25		0.33	
31		1.70		17.90	83.15		5.60		1.20	0.33		0.30	
Total	7.05	85.54	266.65	1581.65	1758.05	2096.75	294.20	68.95	26.10	13.51	5.92	5.52	6209.89 CMSDAY
Mean	0.23	2.76	8.89	51.02	56.71	69.89	9.49	2.30	0.84	0.44	0.20	0.18	16.97 CMS
Max	0.65	12.50	28.60	105.00	165.80	280.40	19.70	4.60	1.50	0.95	0.30	0.40	280.40 CMS
Min	0.10	0.05	1.70	11.00	8.30	3.20	3.00	0.90	0.37	0.25	0.13	0.05	0.05 CMS
Runoff	0.609	7.391	23.039	136.655	151.896	181.159	25.419	5.957	2.255	1.167	0.511	0.477	536.535 MCM

Momentary Peak 290.50 CMS, at 145.26 M (MSL), at 2.00 Hours, on Sep 6, 1995
Runoff Yield 11.23 Liters/Second/Square KM, Momentary Peak Yield 192.257 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

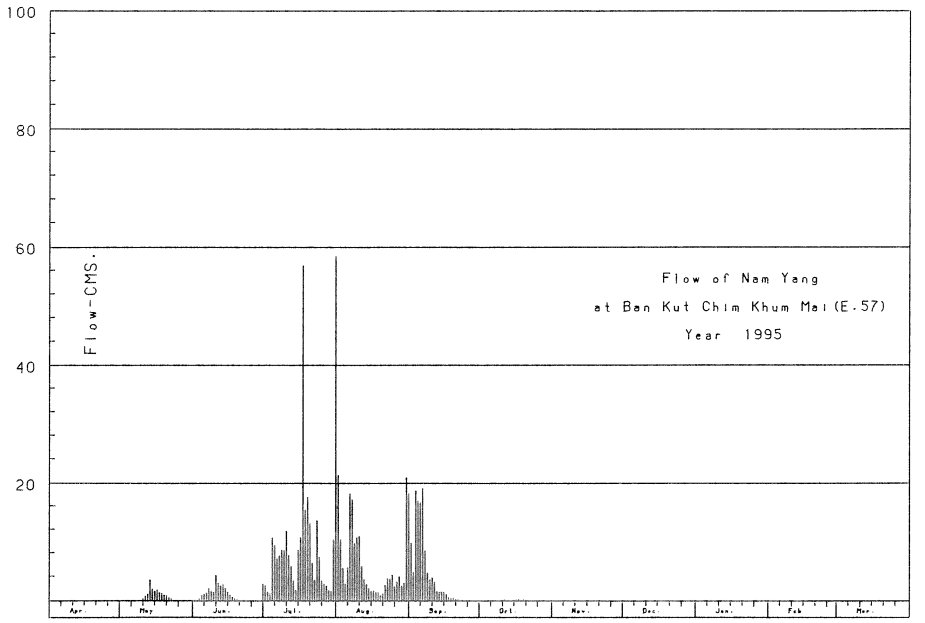
Nam Yang at Ban Kut Chim Khum Mai, Kalasin (E.57)

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 11 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	170.00	170.10	170.11	170.37	171.04	170.66	170.05	170.05	170.02	169.80	169.80	169.80	
2	170.00	170.10	170.12	170.29	170.68	170.49	170.04	170.05	170.01	169.80	169.80	169.80	
3	170.00	170.10	170.14	170.26	170.52	170.96	170.03	170.05	170.00	169.80	169.80	169.80	
4	170.00	170.10	170.23	170.69	170.39	170.90	170.08	170.04	169.99	169.80	169.80	169.80	
5	170.00	170.10	170.24	170.65	170.52	170.89	170.11	170.04	169.98	169.80	169.80	169.80	
6	170.00	170.10	170.27	170.57	170.94	170.97	170.11	170.04	169.97	169.80	169.80	169.80	
7	170.00	170.10	170.33	170.59	170.91	170.62	170.12	170.04	169.96	169.80	169.80	169.80	
8	170.00	170.10	170.30	170.62	170.66	170.49	170.12	170.04	169.95	169.80	169.80	169.80	
9	170.00	170.11	170.28	170.62	170.69	170.43	170.11	170.04	169.94	169.80	169.80	169.80	
10	170.00	170.15	170.47	170.73	170.70	170.45	170.12	170.04	169.93	169.80	169.80	169.80	
11	170.00	170.21	170.40	170.59	170.53	170.41	170.12	170.03	169.92	169.80	169.80	169.80	
12	170.00	170.25	170.37	170.53	170.43	170.30	170.11	170.03	169.91	169.80	169.80	169.80	
13	170.00	170.43	170.38	170.42	170.39	170.28	170.11	170.03	169.90	169.80	169.80	169.80	
14	170.00	170.32	170.34	170.31	170.33	170.29	170.12	170.03	169.89	169.80	169.80	169.80	
15	170.00	170.30	170.28	170.62	170.30	170.28	170.12	170.03	169.88	169.80	169.80	169.80	
16	170.00	170.31	170.24	170.69	170.30	170.25	170.14	170.03	169.87	169.80	169.80	169.80	
17	170.00	170.28	170.19	171.86	170.28	170.19	170.14	170.03	169.86	169.80	169.80	169.80	
18	170.00	170.26	170.16	170.85	170.27	170.17	170.13	170.03	169.86	169.80	169.80	169.80	
19	170.00	170.24	170.14	170.92	170.23	170.17	170.13	170.03	169.86	169.80	169.80	169.80	
20	170.00	170.22	170.12	170.77	170.25	170.15	170.13	170.03	169.85	169.80	169.80	169.80	
21	170.00	170.19	170.11	170.55	170.38	170.13	170.12	170.02	169.85	169.80	169.80	169.80	
22	170.00	170.15	170.10	170.43	170.44	170.12	170.12	170.02	169.84	169.80	169.80	169.80	
23	170.00	170.13	170.10	170.79	170.44	170.11	170.12	170.02	169.84	169.80	169.80	169.80	
24	170.00	170.12	170.10	170.58	170.47	170.11	170.11	170.02	169.83	169.80	169.80	169.80	
25	170.00	170.11	170.10	170.42	170.36	170.11	170.11	170.02	169.83	169.80	169.80	169.80	
26	170.00	170.10	170.10	170.39	170.41	170.11	170.08	170.02	169.82	169.80	169.80	169.80	
27	170.00	170.10	170.10	170.37	170.46	170.11	170.06	170.02	169.82	169.80	169.80	169.80	
28	170.00	170.12	170.10	170.31	170.37	170.09	170.05	170.02	169.81	169.80	169.80	169.80	
29	170.00	170.11	170.10	170.29	170.40	170.07	170.05	170.02	169.81	169.80	169.80	169.80	
30	170.00	170.10	170.39	170.68	171.03	170.06	170.05	170.02	169.80	169.80		169.80	
31		170.10		171.89	170.94		170.05		169.80	169.80		169.80	
Mean	170.00	170.17	170.21	170.63	170.52	170.35	170.10	170.03	169.89	169.80	169.80	169.80	
Max	170.00	170.43	170.47	171.89	171.04	170.97	170.14	170.05	170.02	169.80	169.80	169.80	171.89
Min	170.00	170.10	170.10	170.26	170.23	170.06	170.03	170.02	169.80	169.80	169.80	169.80	169.80

Annual Max Momentary Gage Height 172.02 M (MSL), at 6.00 Hours, on Jul 17, 1995
Zero Gage at Bottom Elevation 170.10 M (MSL), River Bed 169.75 M (MSL)
Left Bank Elevation 177.63 M (MSL)
Right Bank Elevation 177.62 M (MSL), Drainage Area 98 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.10	0.16	2.61	21.40	9.80	0.05	0.05	0.02	0.00	0.00	0.00	
2	0.00	0.10	0.22	1.60	10.40	4.80	0.04	0.05	0.01	0.00	0.00	0.00	
3	0.00	0.10	0.34	1.30	5.60	18.80	0.03	0.05	0.00	0.00	0.00	0.00	
4	0.00	0.10	1.00	10.70	2.87	17.00	0.08	0.04	0.00	0.00	0.00	0.00	
5	0.00	0.10	1.10	9.50	5.60	16.70	0.16	0.04	0.00	0.00	0.00	0.00	
6	0.00	0.10	1.40	7.10	18.20	19.10	0.16	0.04	0.00	0.00	0.00	0.00	
7	0.00	0.10	2.09	7.70	17.30	8.60	0.22	0.04	0.00	0.00	0.00	0.00	
8	0.00	0.10	1.70	8.60	9.80	4.80	0.22	0.04	0.00	0.00	0.00	0.00	
9	0.00	0.16	1.50	8.60	10.70	3.60	0.16	0.04	0.00	0.00	0.00	0.00	
10	0.00	0.40	4.40	11.90	11.00	4.00	0.22	0.04	0.00	0.00	0.00	0.00	
11	0.00	0.80	3.00	7.70	5.90	3.20	0.22	0.03	0.00	0.00	0.00	0.00	
12	0.00	1.20	2.61	5.90	3.60	1.70	0.16	0.03	0.00	0.00	0.00	0.00	
13	0.00	3.60	2.74	3.40	2.87	1.50	0.16	0.03	0.00	0.00	0.00	0.00	
14	0.00	1.96	2.22	1.83	2.09	1.60	0.22	0.03	0.00	0.00	0.00	0.00	
15	0.00	1.70	1.50	8.60	1.70	1.50	0.22	0.03	0.00	0.00	0.00	0.00	
16	0.00	1.83	1.10	10.70	1.70	1.20	0.34	0.03	0.00	0.00	0.00	0.00	
17	0.00	1.50	0.64	57.00	1.50	0.64	0.34	0.03	0.00	0.00	0.00	0.00	
18	0.00	1.30	0.46	15.50	1.40	0.52	0.28	0.03	0.00	0.00	0.00	0.00	
19	0.00	1.10	0.34	17.60	1.00	0.52	0.28	0.03	0.00	0.00	0.00	0.00	
20	0.00	0.90	0.22	13.10	1.20	0.40	0.28	0.03	0.00	0.00	0.00	0.00	
21	0.00	0.64	0.16	6.50	2.74	0.28	0.22	0.02	0.00	0.00	0.00	0.00	
22	0.00	0.40	0.10	3.60	3.80	0.22	0.22	0.02	0.00	0.00	0.00	0.00	
23	0.00	0.28	0.10	13.70	3.80	0.16	0.22	0.02	0.00	0.00	0.00	0.00	
24	0.00	0.22	0.10	7.40	4.40	0.16	0.16	0.02	0.00	0.00	0.00	0.00	
25	0.00	0.16	0.10	3.40	2.48	0.16	0.16	0.02	0.00	0.00	0.00	0.00	
26	0.00	0.10	0.10	2.87	3.20	0.16	0.08	0.02	0.00	0.00	0.00	0.00	
27	0.00	0.10	0.10	2.61	4.20	0.16	0.06	0.02	0.00	0.00	0.00	0.00	
28	0.00	0.22	0.10	1.83	2.61	0.09	0.05	0.02	0.00	0.00	0.00	0.00	
29	0.00	0.16	0.10	1.60	3.00	0.07	0.05	0.02	0.00	0.00	0.00	0.00	
30	0.00	0.10	2.87	10.40	21.05	0.06	0.05	0.02	0.00	0.00		0.00	
31		0.10		58.50	18.20		0.05		0.00	0.00		0.00	
Total	0.00	19.73	32.57	323.35	205.31	121.50	5.16	0.93	0.03	0.00	0.00	0.00	708.58 CMSDAY
Mean	0.00	0.64	1.09	10.43	6.62	4.05	0.17	0.03	0.00	0.00	0.00	0.00	1.94 CMS
Max	0.00	3.60	4.40	58.50	21.40	19.10	0.34	0.05	0.02	0.00	0.00	0.00	58.50 CMS
Min	0.00	0.10	0.10	1.30	1.00	0.06	0.03	0.02	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	1.705	2.814	27.937	17.739	10.498	0.446	0.080	0.003	0.000	0.000	0.000	61.221 MCM

Momentary Peak 65.10 CMS, at 172.02 M (MSL), at 6.00 Hours, on Jul 17, 1995
Runoff Yield 19.76 Liters/Second/Square KM, Momentary Peak Yield 664.286 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

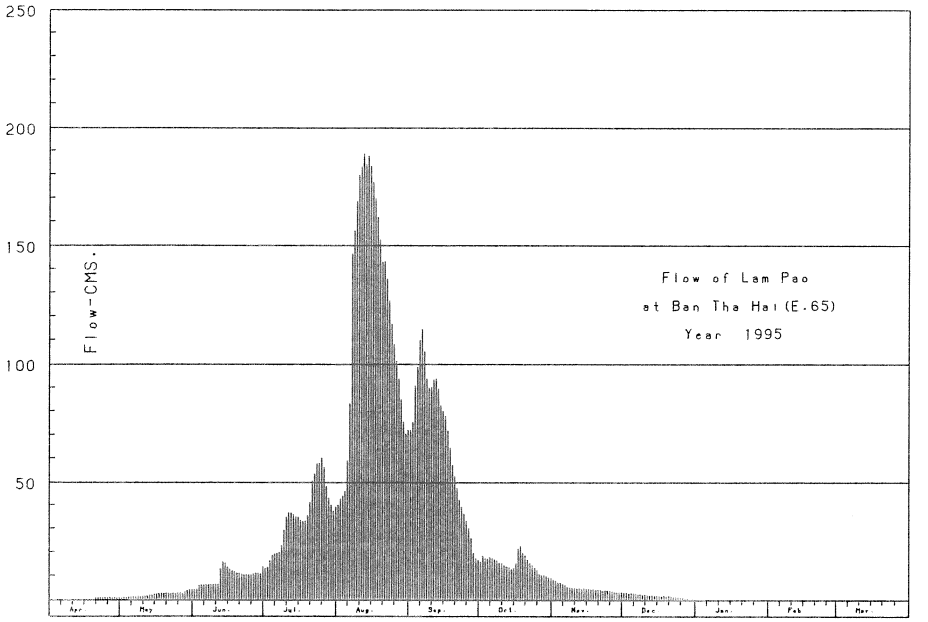
Lam Pao at Ban Tha Hai, Udon Thani (E.65)

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	Staff gage.
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	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	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 49 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.00	161.00	161.48	162.19	163.27	164.45	163.27	162.98	162.61	162.23	161.64	161.56	
2	160.99	161.01	161.51	162.22	163.34	164.51	163.36	162.95	162.60	162.21	161.62	161.56	
3	160.99	161.02	161.67	162.38	163.38	164.76	163.32	162.92	162.59	162.21	161.60	161.56	
4	161.02	161.03	161.70	162.49	163.43	164.88	163.32	162.91	162.59	162.17	161.58	161.56	
5	161.06	161.06	161.70	162.52	163.76	165.05	163.34	162.89	162.59	162.14	161.56	161.56	
6	161.03	161.07	161.70	162.52	164.27	165.11	163.32	162.86	162.57	162.12	161.54	161.56	
7	161.01	161.08	161.70	162.55	165.33	164.98	163.31	162.83	162.55	162.09	161.52	161.56	
8	161.02	161.09	161.70	162.66	165.47	164.81	163.29	162.81	162.54	162.08	161.51	161.56	
9	161.01	161.10	161.71	162.92	165.65	164.75	163.26	162.81	162.53	162.05	161.50	161.56	
10	160.99	161.12	161.71	163.11	165.80	164.75	163.25	162.79	162.52	162.03	161.49	161.56	
11	160.99	161.15	161.70	163.17	165.85	164.80	163.23	162.79	162.51	162.02	161.49	161.56	
12	160.98	161.17	162.19	163.17	165.92	164.81	163.21	162.79	162.50	162.00	161.49	161.56	
13	160.97	161.20	162.36	163.14	165.86	164.74	163.19	162.77	162.49	161.98	161.49	161.56	
14	160.96	161.24	162.32	163.11	165.91	164.63	163.17	162.79	162.49	161.95	161.49	161.55	
15	160.95	161.28	162.23	163.11	165.87	164.59	163.18	162.78	162.48	161.94	161.49	161.55	
16	160.95	161.30	162.17	163.06	165.81	164.55	163.25	162.77	162.48	161.93	161.49	161.55	
17	160.95	161.32	162.14	163.05	165.74	164.45	163.44	162.75	162.47	161.92	161.49	161.54	
18	160.95	161.33	162.11	163.05	165.66	164.32	163.46	162.75	162.47	161.90	161.50	161.54	
19	160.94	161.34	162.09	163.13	165.55	164.19	163.40	162.74	162.47	161.88	161.51	161.54	
20	160.98	161.34	162.07	163.30	165.45	164.09	163.36	162.73	162.46	161.86	161.52	161.53	
21	161.00	161.34	162.05	163.55	165.45	163.99	163.30	162.73	162.44	161.85	161.52	161.52	
22	161.01	161.34	162.04	163.63	165.37	163.89	163.26	162.70	162.43	161.84	161.52	161.52	
23	161.00	161.34	162.04	163.73	165.26	163.83	163.22	162.70	162.42	161.81	161.52	161.52	
24	160.99	161.34	162.04	163.73	165.14	163.77	163.19	162.71	162.41	161.80	161.52	161.51	
25	161.01	161.34	162.03	163.79	165.02	163.70	163.15	162.69	162.39	161.77	161.52	161.51	
26	161.00	161.34	162.06	163.69	164.92	163.63	163.10	162.66	162.37	161.75	161.54	161.52	
27	160.99	161.33	162.09	163.49	164.81	163.54	163.08	162.64	162.35	161.74	161.56	161.52	
28	160.98	161.39	162.07	163.35	164.67	163.40	163.07	162.63	162.32	161.72	161.57	161.61	
29	160.99	161.46	162.07	163.27	164.51	163.32	163.05	162.62	162.29	161.68	161.56	161.64	
30	160.99	161.48	162.23	163.19	164.43	163.30	163.02	162.62	162.29	161.67		161.65	
31		161.49		163.24	164.45		163.01		162.25	161.65		161.68	
Mean	160.99	161.24	161.96	163.08	165.01	164.32	163.24	162.77	162.47	161.94	161.53	161.56	
Max	161.06	161.49	162.36	163.79	165.92	165.11	163.46	162.98	162.61	162.23	161.64	161.68	165.92
Min	160.94	161.00	161.48	162.19	163.27	163.30	163.01	162.62	162.25	161.65	161.49	161.51	160.94

Annual Max Momentary Gage Height 165.92 M (MSL), at 12.00 Hours, on Aug 12, 1995
Zero Gage at Bottom Elevation 158.99 M (MSL), River Bed 159.72 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.00	4.30	13.33	40.45	72.00	16.10	8.60	3.10	0.29	0.00	0.00	
2	0.00	1.05	4.60	13.85	42.90	75.60	18.80	8.00	3.00	0.23	0.00	0.00	
3	0.00	1.10	6.20	16.65	44.30	90.90	17.60	7.40	2.90	0.23	0.00	0.00	
4	0.00	1.15	6.50	19.03	46.12	98.70	17.60	7.20	2.90	0.17	0.00	0.00	
5	0.00	1.30	6.50	19.70	59.30	110.50	18.20	6.80	2.90	0.14	0.00	0.00	
6	0.00	1.35	6.50	19.70	83.50	114.80	17.60	6.20	2.70	0.12	0.00	0.00	
7	0.00	1.40	6.50	20.37	146.78	105.60	17.30	5.60	2.50	0.09	0.00	0.00	
8	0.00	1.45	6.50	23.00	156.40	94.15	16.70	5.20	2.40	0.09	0.00	0.00	
9	0.00	1.50	6.60	29.80	169.12	90.25	15.80	5.20	2.30	0.08	0.00	0.00	
10	0.00	1.60	6.60	35.30	180.00	90.25	15.50	4.90	2.20	0.06	0.00	0.00	
11	0.00	1.75	6.50	37.10	183.75	93.50	14.90	4.90	2.10	0.06	0.00	0.00	
12	0.00	1.85	13.33	37.10	189.00	94.15	14.30	4.90	2.00	0.05	0.00	0.00	
13	0.00	2.00	16.30	36.20	184.50	89.60	13.70	4.70	1.90	0.05	0.00	0.00	
14	0.00	2.20	15.60	35.30	188.25	82.80	13.10	4.90	1.90	0.04	0.00	0.00	
15	0.00	2.40	14.02	35.30	184.05	80.40	13.40	4.80	1.80	0.04	0.00	0.00	
16	0.00	2.50	12.98	33.80	177.15	78.00	15.50	4.70	1.80	0.04	0.00	0.00	
17	0.00	2.70	12.45	33.50	170.00	72.00	21.80	4.50	1.70	0.03	0.00	0.00	
18	0.00	2.80	11.93	33.50	162.40	64.60	22.70	4.50	1.70	0.03	0.00	0.00	
19	0.00	2.90	11.57	35.90	152.50	57.50	20.00	4.40	1.70	0.03	0.00	0.00	
20	0.94	2.90	11.23	41.50	143.50	52.50	18.80	4.30	1.60	0.02	0.00	0.00	
21	1.00	2.90	10.88	50.63	143.50	47.50	17.00	4.30	1.40	0.02	0.00	0.00	
22	1.05	2.90	10.70	53.77	136.30	42.50	15.80	4.00	1.30	0.02	0.00	0.00	
23	1.00	2.90	10.70	58.02	126.80	39.50	14.60	4.00	1.20	0.01	0.00	0.00	
24	0.97	2.90	10.70	58.02	117.20	36.65	13.70	4.10	1.10	0.01	0.00	0.00	
25	1.05	2.90	10.52	60.57	108.40	33.50	12.50	3.90	0.95	0.01	0.00	0.00	
26	1.00	2.90	11.05	56.32	101.40	30.35	11.00	3.60	0.85	0.01	0.00	0.00	
27	0.97	2.80	11.57	48.38	94.15	26.30	10.60	3.40	0.75	0.00	0.00	0.00	
28	0.94	3.40	11.23	43.25	85.20	20.00	10.40	3.30	0.60	0.00	0.00	0.00	
29	0.97	4.10	11.23	40.45	75.60	17.60	10.00	3.20	0.47	0.00	0.00	0.00	
30	0.97	4.30	14.02	37.70	70.80	17.00	9.40	3.20	0.47	0.00		0.00	
31		4.40		39.40	72.00		9.20		0.35	0.00		0.00	
Total	10.86	73.30	299.31	1116.44	3835.32	2018.70	473.60	148.70	54.54	1.97	0.00	0.00	8032.74 CMSDAY
Mean	0.36	2.36	9.98	36.01	123.72	67.29	15.28	4.96	1.76	0.06	0.00	0.00	21.95 CMS
Max	1.05	4.40	16.30	60.57	189.00	114.80	22.70	8.60	3.10	0.29	0.00	0.00	189.00 CMS
Min	0.00	1.00	4.30	13.33	40.45	17.00	9.20	3.20	0.35	0.00	0.00	0.00	0.00 CMS
Runoff	0.938	6.333	25.860	96.460	331.372	174.416	40.919	12.848	4.712	0.170	0.000	0.000	694.029 MCM

Momentary Peak 189.00 CMS, at 165.92 M (MSL), at 12.00 Hours, on Aug 12, 1995
Runoff Yield 11.26 Liters/Second/Square KM, Momentary Peak Yield 96.973 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

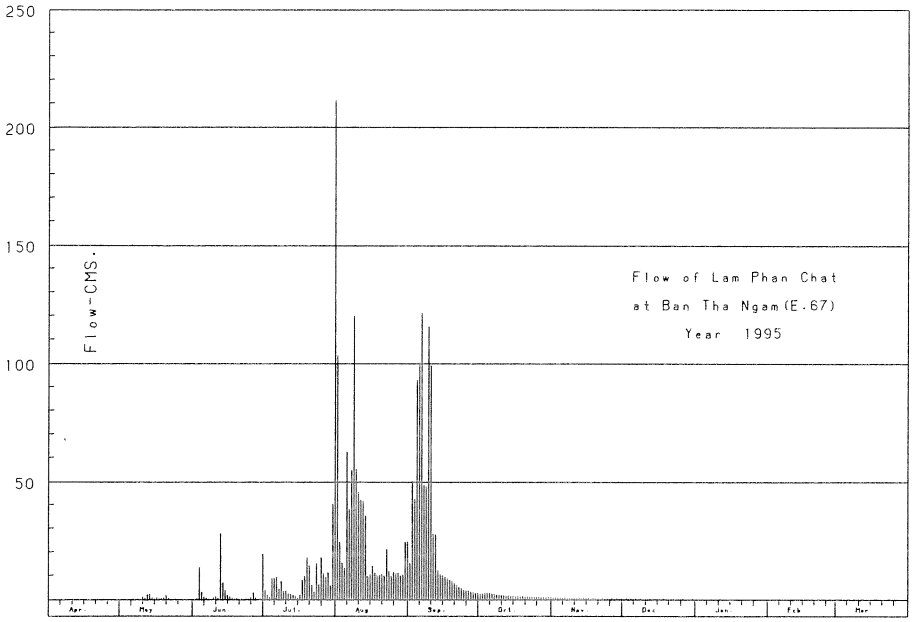
Lam Phan Chat at Ban Tha Ngam, Kalasin (E.67)

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	Rather unstable 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 58 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.01	159.83	159.84	160.32	163.39	162.12	162.46	162.06	161.77	161.38	160.62	159.79	
2	159.99	159.81	159.89	160.11	161.30	162.77	162.48	162.04	161.76	161.35	160.59	159.79	
3	159.98	159.80	160.84	160.03	160.94	162.67	162.49	162.03	161.75	161.33	160.57	159.79	
4	159.96	159.81	160.23	160.60	160.82	163.18	162.51	162.02	161.74	161.30	160.54	159.79	
5	159.99	159.80	160.04	160.62	162.50	163.33	162.50	162.01	161.73	161.27	160.50	159.77	
6	159.95	159.80	159.95	160.63	161.79	163.75	162.49	161.99	161.72	161.25	160.47	159.75	
7	159.93	159.81	159.89	160.35	162.29	162.75	162.46	161.98	161.71	161.21	160.43	159.72	
8	159.92	159.84	159.86	160.55	163.73	162.74	162.44	161.98	161.69	161.19	160.42	159.72	
9	159.91	159.84	160.02	160.26	162.30	163.64	162.42	161.97	161.68	161.19	160.38	159.71	
10	159.90	160.03	160.03	160.28	162.02	163.31	162.41	161.96	161.67	161.18	160.34	159.72	
11	159.89	159.98	159.96	160.17	161.92	162.92	162.38	161.95	161.67	161.17	160.31	159.71	
12	159.88	160.14	161.45	160.14	161.89	162.92	162.37	161.94	161.66	161.14	160.29	159.71	
13	159.87	160.12	160.52	160.11	161.70	162.87	162.34	161.93	161.65	161.11	160.25	159.71	
14	159.86	159.97	160.30	160.06	161.91	162.84	162.32	161.91	161.65	161.09	160.21	159.71	
15	159.85	159.94	160.11	159.99	161.86	162.83	162.30	161.89	161.65	161.07	160.20	159.72	
16	159.84	159.99	160.03	160.12	161.79	162.82	162.28	161.89	161.64	161.06	160.17	159.73	
17	159.84	159.94	159.97	160.58	161.82	162.80	162.28	161.87	161.63	161.04	160.15	159.74	
18	159.83	159.90	159.93	160.65	161.88	162.79	162.27	161.87	161.62	161.02	160.10	159.72	
19	159.84	159.97	159.93	161.04	161.86	162.77	162.26	161.86	161.61	161.00	160.06	159.69	
20	159.89	160.11	159.90	160.89	161.86	162.74	162.25	161.85	161.60	160.96	160.03	159.68	
21	159.89	159.98	159.88	160.45	161.88	162.71	162.24	161.84	161.58	160.95	160.01	159.68	
22	159.85	159.91	159.87	160.25	162.28	162.68	162.22	161.84	161.57	160.92	159.99	159.67	
23	159.84	159.88	159.87	160.92	162.01	162.65	162.20	161.82	161.56	160.90	159.96	159.67	
24	159.86	159.87	159.89	160.48	161.91	162.62	162.19	161.81	161.56	160.88	159.95	159.68	
25	159.86	159.85	160.00	161.05	162.00	162.61	162.18	161.81	161.55	160.84	159.94	159.68	
26	159.85	159.83	160.23	160.71	161.96	162.59	162.14	161.80	161.53	160.82	159.92	159.67	
27	159.84	159.82	160.00	160.63	161.97	162.56	162.13	161.79	161.55	160.79	159.87	159.69	
28	159.85	159.86	159.91	160.74	161.92	162.52	162.12	161.78	161.51	160.76	159.85	159.81	
29	159.85	159.85	159.90	160.45	161.93	162.50	162.11	161.77	161.46	160.73	159.83	159.86	
30	159.84	159.83	161.11	161.86	162.35	162.49	162.10	161.76	161.41	160.70		159.89	
31		159.84		165.21	162.35		162.08		161.39	160.66		159.80	
Mean	159.89	159.90	160.11	160.65	162.00	162.82	162.30	161.90	161.62	161.04	160.21	159.73	
Max	160.01	160.14	161.45	165.21	163.73	163.75	162.51	162.06	161.77	161.38	160.62	159.89	165.21
Min	159.83	159.80	159.84	159.99	160.82	162.12	162.08	161.76	161.39	160.66	159.83	159.67	159.67

Annual Max Momentary Gage Height 166.31 M (MSL), at 16.00 Hours, on Jul 31, 1995
Zero Gage at Bottom Elevation 158.87 M (MSL), River Bed 159.37 M (MSL)
Left Bank Elevation 170.10 M (MSL)
Right Bank Elevation 172.53 M (MSL), Drainage Area 420 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.03	0.36	4.30	103.50	15.70	2.60	1.12	0.77	0.54	0.16	0.03	
2	0.05	0.03	0.56	2.10	24.50	50.60	2.80	1.08	0.76	0.52	0.14	0.03	
3	0.05	0.03	13.80	1.30	15.80	42.90	2.90	1.06	0.75	0.52	0.13	0.03	
4	0.05	0.24	3.40	9.00	13.40	93.00	3.10	1.04	0.74	0.50	0.12	0.03	
5	0.05	0.20	1.40	9.40	63.00	100.50	3.00	1.02	0.73	0.48	0.10	0.03	
6	0.04	0.20	0.80	9.60	38.70	121.50	2.90	0.99	0.72	0.48	0.10	0.03	
7	0.04	0.24	0.56	4.75	55.15	49.00	2.60	0.98	0.71	0.45	0.09	0.02	
8	0.04	0.36	0.44	8.00	120.50	48.20	2.40	0.98	0.70	0.45	0.09	0.02	
9	0.04	0.36	1.20	3.60	55.50	116.00	2.20	0.97	0.69	0.45	0.09	0.02	
10	0.04	1.30	1.30	3.80	45.70	99.50	2.10	0.96	0.69	0.44	0.08	0.02	
11	0.04	0.92	0.84	2.70	42.60	28.00	1.94	0.95	0.69	0.43	0.08	0.02	
12	0.04	2.40	28.50	2.40	41.70	28.00	1.91	0.94	0.68	0.42	0.08	0.02	
13	0.04	2.40	7.40	2.10	36.00	12.50	1.82	0.93	0.67	0.41	0.08	0.02	
14	0.04	0.88	4.00	1.60	10.20	11.00	1.76	0.91	0.67	0.39	0.07	0.02	
15	0.03	0.76	2.10	0.96	10.80	10.50	1.70	0.89	0.67	0.38	0.07	0.02	
16	0.03	0.96	1.30	2.20	14.40	10.00	1.64	0.89	0.67	0.38	0.07	0.02	
17	0.03	0.76	0.88	8.60	11.60	9.00	1.64	0.87	0.66	0.37	0.06	0.02	
18	0.03	0.60	0.72	10.00	10.40	8.70	1.61	0.87	0.66	0.36	0.06	0.02	
19	0.03	0.88	0.72	18.00	10.80	8.10	1.58	0.86	0.66	0.35	0.06	0.02	
20	0.04	2.10	0.60	14.80	10.80	7.20	1.55	0.85	0.65	0.33	0.05	0.02	
21	0.04	0.92	0.52	6.25	10.40	6.30	1.52	0.84	0.64	0.32	0.05	0.02	
22	0.03	0.64	0.48	3.50	21.70	5.60	1.46	0.84	0.63	0.31	0.05	0.02	
23	0.03	0.52	0.48	15.40	12.30	5.00	1.40	0.82	0.63	0.30	0.05	0.02	
24	0.04	0.48	0.56	6.70	10.20	4.40	1.38	0.81	0.63	0.29	0.04	0.02	
25	0.04	0.40	1.00	18.25	12.00	4.20	1.36	0.81	0.62	0.27	0.04	0.02	
26	0.03	0.32	3.30	11.20	11.20	3.90	1.28	0.80	0.62	0.26	0.04	0.02	
27	0.03	0.28	1.00	9.60	11.40	3.60	1.26	0.79	0.62	0.24	0.04	0.02	
28	0.03	0.44	0.64	11.80	10.40	3.20	1.24	0.78	0.60	0.23	0.03	0.03	
29	0.03	0.40	0.60	6.25	10.60	3.00	1.22	0.77	0.58	0.21	0.03	0.04	
30	0.03	0.32	19.75	40.80	24.75	2.90	1.20	0.76	0.55	0.20		0.04	
31		0.36		211.70	24.75		1.16		0.55	0.18		0.03	
Total	1.13	20.73	99.21	460.66	894.75	912.00	58.23	27.18	20.61	11.46	2.15	0.74	2508.85 CMSDAY
Mean	0.04	0.67	3.31	14.86	28.86	30.40	1.88	0.91	0.66	0.37	0.07	0.02	6.85 CMS
Max	0.05	2.40	28.50	211.70	120.50	121.50	3.10	1.12	0.77	0.54	0.16	0.04	211.70 CMS
Min	0.03	0.03	0.36	0.96	10.20	2.90	1.16	0.76	0.55	0.18	0.03	0.02	0.02 CMS
Runoff	0.098	1.791	8.572	39.801	77.306	78.797	5.031	2.348	1.781	0.990	0.186	0.064	216.765 MCM

Momentary Peak 300.10 CMS, at 166.31 M (MSL), at 16.00 Hours, on Jul 31, 1995

Runoff Yield 16.32 Liters/Second/Square KM, Momentary Peak Yield 714.524 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

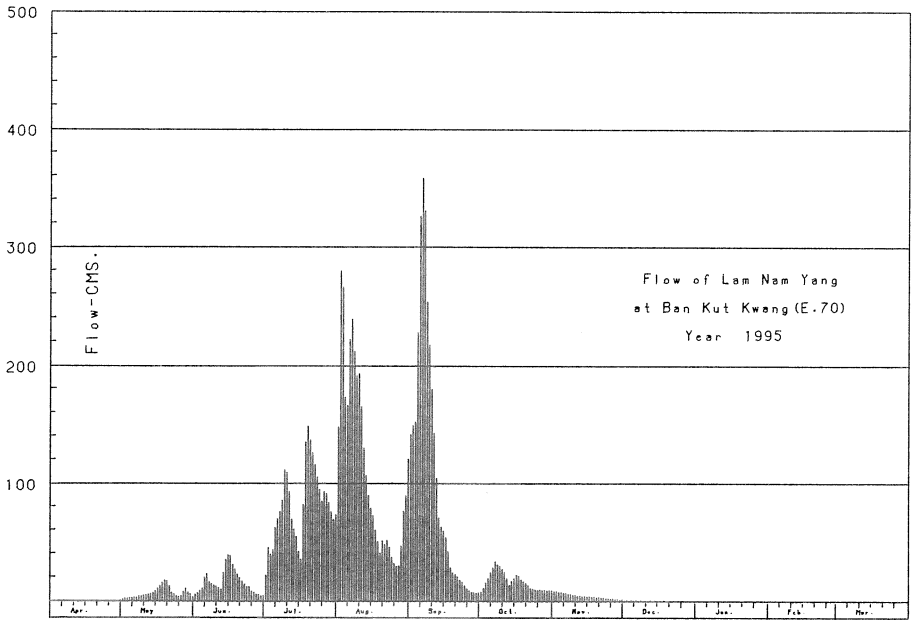
Lam Nam Yang at Ban Kut Kwang, Roi Et (E.70)

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 26 discharge measurements made in 1995

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	132.25	132.42	132.59	133.28	135.78	135.69	132.70	132.74	132.33	132.27	132.17	132.16	
2	132.28	132.43	132.68	133.90	137.47	135.79	132.86	132.73	132.33	132.27	132.17	132.16	
3	132.28	132.44	132.75	133.79	137.32	135.84	133.03	132.70	132.33	132.27	132.17	132.16	
4	132.28	132.45	132.86	133.86	136.13	136.85	133.20	132.69	132.33	132.27	132.17	132.16	
5	132.27	132.46	133.22	134.29	136.04	137.97	133.35	132.67	132.33	132.27	132.17	132.16	
6	132.27	132.47	133.31	134.44	136.78	138.29	133.50	132.65	132.33	132.27	132.17	132.16	
7	132.27	132.48	133.07	134.57	136.99	138.01	133.64	132.63	132.33	132.26	132.17	132.16	
8	132.26	132.52	132.99	134.76	136.66	137.18	133.59	132.61	132.33	132.26	132.17	132.16	
9	132.26	132.54	132.95	135.20	136.38	136.72	133.53	132.59	132.33	132.26	132.17	132.16	
10	132.26	132.55	132.91	135.16	136.41	136.23	133.46	132.57	132.32	132.25	132.17	132.16	
11	132.28	132.58	132.87	134.89	136.02	135.70	133.36	132.55	132.32	132.25	132.17	132.16	
12	132.28	132.60	132.82	134.44	135.51	135.09	133.18	132.54	132.32	132.25	132.17	132.16	
13	132.27	132.62	133.35	134.25	135.12	134.46	132.96	132.53	132.31	132.24	132.17	132.16	
14	132.27	132.68	133.69	134.12	134.84	134.30	133.08	132.53	132.31	132.24	132.17	132.16	
15	132.26	132.74	133.77	133.84	134.63	134.22	133.18	132.52	132.31	132.24	132.17	132.16	
16	132.26	132.84	133.75	133.68	134.50	134.10	133.30	132.51	132.31	132.23	132.17	132.16	
17	132.26	132.94	133.58	134.69	134.24	133.83	133.25	132.51	132.31	132.23	132.17	132.16	
18	132.25	133.04	133.44	135.58	134.02	133.50	133.15	132.50	132.31	132.23	132.17	132.16	
19	132.25	133.13	133.31	135.79	133.80	133.35	133.08	132.49	132.31	132.22	132.17	132.16	
20	132.25	133.09	133.20	135.62	134.03	133.31	133.03	132.48	132.30	132.22	132.17	132.16	
21	132.25	132.93	133.10	135.44	133.96	133.23	132.95	132.47	132.30	132.22	132.17	132.16	
22	132.26	132.69	132.99	135.28	134.05	133.14	132.87	132.46	132.29	132.21	132.17	132.16	
23	132.26	132.60	132.89	135.10	133.92	133.05	132.83	132.45	132.29	132.21	132.17	132.16	
24	132.26	132.55	132.90	134.92	133.72	132.95	132.81	132.44	132.29	132.21	132.17	132.16	
25	132.25	132.50	132.72	134.75	133.61	132.85	132.80	132.43	132.29	132.20	132.17	132.16	
26	132.25	132.53	132.68	134.89	133.52	132.76	132.80	132.42	132.28	132.20	132.17	132.16	
27	132.25	132.73	132.61	134.87	133.55	132.70	132.79	132.41	132.28	132.20	132.17	132.16	
28	132.25	132.84	132.58	134.72	133.93	132.68	132.79	132.40	132.28	132.19	132.17	132.16	
29	132.25	132.70	132.54	134.57	134.58	132.67	132.77	132.39	132.28	132.19	132.17	132.16	
30	132.25	132.60	132.53	134.44	134.83	132.67	132.77	132.38	132.27	132.18		132.16	
31		132.51		134.51	135.35		132.76		132.27	132.18		132.16	
Mean	132.26	132.65	133.02	134.63	135.09	134.64	133.08	132.53	132.31	132.23	132.17	132.16	
Max	132.28	133.13	133.77	135.79	137.47	138.29	133.64	132.74	132.33	132.27	132.17	132.16	138.29
Min	132.25	132.42	132.53	133.28	133.52	132.67	132.70	132.38	132.27	132.18	132.17	132.16	132.16

Annual Max Momentary Gage Height 138.31 M (MSL), at 18.00 Hours, on Sep 6, 1995
Zero Gage at Bottom Elevation 132.12 M (MSL), River Bed 130.13 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	2.40	5.80	22.40	148.60	142.35	8.00	8.80	1.30	0.85	0.41	0.38	
2	0.90	2.60	7.60	45.50	280.30	149.30	11.50	8.60	1.30	0.85	0.41	0.38	
3	0.90	2.80	9.00	40.55	266.80	152.80	15.75	8.00	1.30	0.85	0.41	0.38	
4	0.90	3.00	11.50	43.70	173.43	228.00	20.00	7.80	1.30	0.85	0.41	0.38	
5	0.85	3.20	20.60	63.05	166.90	327.00	24.50	7.40	1.30	0.85	0.41	0.38	
6	0.85	3.40	23.30	70.00	222.40	359.00	29.00	7.00	1.30	0.85	0.41	0.38	
7	0.85	3.60	16.75	76.50	239.20	331.00	33.80	6.60	1.30	0.80	0.41	0.38	
8	0.80	4.40	14.75	86.00	212.80	254.40	31.70	6.20	1.30	0.80	0.41	0.38	
9	0.80	4.80	13.75	112.00	191.55	217.60	29.90	5.80	1.30	0.80	0.41	0.38	
10	0.80	5.00	12.75	109.60	193.75	180.67	27.80	5.40	1.20	0.75	0.41	0.38	
11	0.90	5.60	11.75	93.40	165.45	143.00	24.80	5.00	1.20	0.75	0.41	0.38	
12	0.90	6.00	10.50	70.00	130.65	105.40	19.50	4.80	1.20	0.75	0.41	0.38	
13	0.85	6.40	24.50	61.25	107.20	71.00	14.00	4.60	1.10	0.70	0.41	0.38	
14	0.85	7.60	36.05	55.40	90.40	63.50	17.00	4.60	1.10	0.70	0.41	0.38	
15	0.80	8.80	39.65	42.80	79.50	59.90	19.50	4.40	1.10	0.70	0.41	0.38	
16	0.80	11.00	38.75	35.60	73.00	54.50	23.00	4.20	1.10	0.65	0.41	0.38	
17	0.80	13.50	31.40	82.50	60.80	42.35	21.50	4.20	1.10	0.65	0.41	0.38	
18	0.75	16.00	27.20	135.20	50.90	29.00	18.75	4.00	1.10	0.65	0.41	0.38	
19	0.75	18.25	23.30	149.30	41.00	24.50	17.00	3.80	1.10	0.60	0.41	0.38	
20	0.75	17.25	20.00	137.80	51.35	23.30	15.75	3.60	1.00	0.60	0.41	0.38	
21	0.75	13.25	17.50	126.40	48.20	20.90	13.75	3.40	1.00	0.60	0.41	0.38	
22	0.80	7.80	14.75	116.80	52.25	18.50	11.75	3.20	0.95	0.55	0.41	0.38	
23	0.80	6.00	12.25	106.00	46.40	16.25	10.75	3.00	0.95	0.55	0.41	0.38	
24	0.80	5.00	12.50	95.20	37.40	13.75	10.25	2.80	0.95	0.55	0.41	0.38	
25	0.75	4.00	8.40	85.50	32.45	11.25	10.00	2.60	0.95	0.50	0.41	0.38	
26	0.75	4.60	7.60	93.40	29.60	9.20	10.00	2.40	0.90	0.50	0.41	0.38	
27	0.75	8.60	6.20	92.20	30.50	8.00	9.80	2.20	0.90	0.50	0.41	0.38	
28	0.75	11.00	5.60	84.00	46.85	7.60	9.80	2.00	0.90	0.47	0.41	0.38	
29	0.75	8.00	4.80	76.50	77.00	7.40	9.40	1.90	0.90	0.47	0.41	0.38	
30	0.75	6.00	4.60	70.00	89.80	7.40	9.40	1.80	0.85	0.44		0.38	
31		4.20		73.50	121.00		9.20		0.85	0.44		0.38	
Total	24.20	224.05	493.10	2552.05	3557.43	3078.82	536.85	140.10	34.10	20.57	11.89	11.78	10684.94 CMSDAY
Mean	0.81	7.23	16.44	82.32	114.76	102.63	17.32	4.67	1.10	0.66	0.41	0.38	29.19 CMS
Max	0.90	18.25	39.65	149.30	280.30	359.00	33.80	8.80	1.30	0.85	0.41	0.38	359.00 CMS
Min	0.75	2.40	4.60	22.40	29.60	7.40	8.00	1.80	0.85	0.44	0.41	0.38	0.38 CMS
Runoff	2.091	19.358	42.604	220.497	307.362	266.010	46.384	12.105	2.946	1.777	1.027	1.018	923.179 MCM

Momentary Peak 361.00 CMS, at 138.31 M (MSL), at 18.00 Hours, on Sep 6, 1995

Runoff Yield 9.22 Liters/Second/Square KM, Momentary Peak Yield 113.952 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

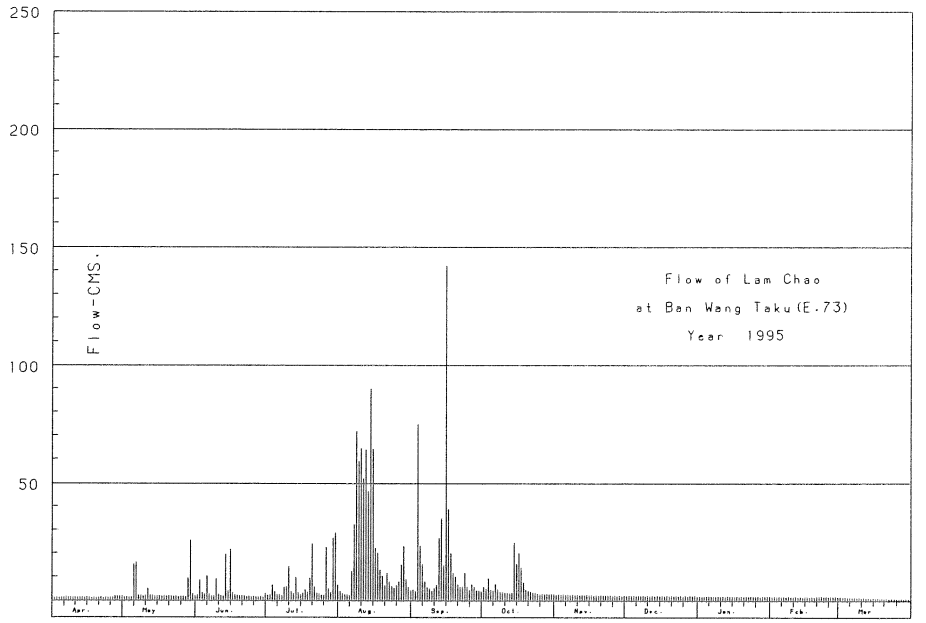
Lam Chao at Ban Wang Taku, Chaiyaphum (E.73)

Location	Lat. 15°57'02" N., Long. 101°26'46" E., on left bank at Ban Wang Taku, King Amphoe Phak Di Chumphon, Chaiyaphum.
Drainage Area	243 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 in the vicinity of the station office.
Elevation	+12.487 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 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	Overbank flow starts at elevation +5.50 m.(A.D.), records are channel flow only.
General Description	Records good. Flow effected by the weir downstream from the gage site. Stage-discharge relation defined by 62 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.35	2.38	2.46	2.43	2.60	2.64	2.74	2.48	2.43	2.40	2.39	1.39	
2	2.35	2.38	2.96	2.46	2.52	2.58	2.68	2.48	2.43	2.40	2.39	1.37	
3	2.35	2.38	2.55	2.82	2.48	6.13	3.03	2.48	2.43	2.40	2.39	1.36	
4	2.35	2.38	2.49	2.60	2.46	3.87	2.64	2.49	2.43	2.41	2.39	1.35	
5	2.37	3.43	3.11	2.49	2.45	3.42	2.63	2.48	2.43	2.41	2.39	1.33	
6	2.38	3.47	2.49	2.46	3.23	2.93	2.85	2.48	2.43	2.41	2.39	1.32	
7	2.37	2.45	2.43	2.44	4.37	2.75	2.66	2.47	2.43	2.40	2.39	1.32	
8	2.36	2.43	2.41	2.73	6.01	2.68	2.58	2.47	2.43	2.40	2.39	1.32	
9	2.36	2.41	3.00	2.76	5.52	2.62	2.56	2.46	2.42	2.40	2.39	1.32	
10	2.36	2.42	2.50	3.36	5.73	2.70	2.54	2.46	2.42	2.40	2.39	1.31	
11	2.37	2.70	2.43	2.60	5.22	2.81	2.53	2.46	2.42	2.40	2.39	1.31	
12	2.37	2.46	2.42	2.51	5.71	4.07	2.53	2.46	2.42	2.40	2.38	1.31	
13	2.36	2.43	3.67	3.07	5.00	4.48	2.53	2.46	2.42	2.40	2.38	1.31	
14	2.36	2.42	2.62	2.57	6.65	3.39	3.95	2.46	2.42	2.40	2.38	1.36	
15	2.36	2.41	3.80	2.48	5.73	8.39	3.44	2.46	2.42	2.40	2.38	1.34	
16	2.36	2.41	2.54	2.53	3.82	4.67	3.71	2.46	2.42	2.40	2.38	1.32	
17	2.35	2.41	2.47	2.66	3.72	3.71	3.33	2.45	2.42	2.40	2.38	1.30	
18	2.35	2.42	2.43	2.56	3.27	3.18	2.90	2.45	2.42	2.40	2.38	1.29	
19	2.35	2.41	2.43	3.04	3.11	3.07	2.64	2.45	2.42	2.40	2.38	1.28	
20	2.36	2.41	2.42	3.92	2.80	2.83	2.62	2.45	2.42	2.40	2.39	1.28	
21	2.36	2.41	2.41	2.74	3.18	2.74	2.58	2.45	2.42	2.40	2.40	1.28	
22	2.35	2.41	2.40	2.54	2.91	2.76	2.57	2.44	2.42	2.40	2.40	1.28	
23	2.35	2.40	2.40	2.50	2.78	3.20	2.54	2.45	2.42	2.40	2.40	1.28	
24	2.35	2.39	2.39	2.46	2.70	2.75	2.52	2.44	2.42	2.40	2.39	1.30	
25	2.35	2.39	2.39	2.44	2.81	2.64	2.50	2.43	2.42	2.40	2.39	1.31	
26	2.35	2.39	2.39	3.85	2.91	2.83	2.50	2.43	2.42	2.39	2.39	1.31	
27	2.43	2.39	2.39	2.70	3.42	2.73	2.50	2.43	2.42	2.39	2.39	1.31	
28	2.40	3.04	2.39	2.54	3.88	2.63	2.50	2.43	2.42	2.40	2.26	1.31	
29	2.42	4.02	2.38	4.07	3.01	2.61	2.50	2.43	2.42	2.40	1.54	1.32	
30	2.41	2.51	2.52	4.18	2.73	2.59	2.49	2.43	2.42	2.40		1.33	
31		2.44		2.81	2.63		2.49		2.41	2.40		1.33	
Mean	2.37	2.56	2.59	2.82	3.72	3.35	2.73	2.46	2.42	2.40	2.35	1.32	
Max	2.43	4.02	3.80	4.18	6.65	8.39	3.95	2.49	2.43	2.41	2.40	1.39	8.39
Min	2.35	2.38	2.38	2.43	2.45	2.58	2.49	2.43	2.41	2.39	1.54	1.28	1.28

Annual Max Momentary Gage Height 9.00 M (A.D), at 13.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.75 M (A.D)
Left Bank Elevation 5.87 M (A.D)
Right Bank Elevation 5.49 M (A.D), Drainage Area 243 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	1.80	2.60	2.30	4.20	4.70	5.90	2.80	2.30	2.00	1.90	1.77	
2	1.50	1.80	8.80	2.60	3.20	4.00	5.20	2.80	2.30	2.00	1.90	1.72	
3	1.50	1.80	3.60	7.00	2.80	75.30	9.70	2.80	2.30	2.00	1.90	1.68	
4	1.50	1.80	2.90	4.20	2.60	23.30	4.70	2.90	2.30	2.10	1.90	1.64	
5	1.70	15.70	10.80	2.90	2.50	15.50	4.60	2.80	2.30	2.10	1.90	1.60	
6	1.80	16.30	2.90	2.60	12.60	8.40	7.30	2.80	2.30	2.10	1.90	1.56	
7	1.70	2.50	2.30	2.40	32.70	6.00	4.90	2.70	2.30	2.00	1.90	1.53	
8	1.60	2.30	2.10	5.80	72.10	5.20	4.00	2.70	2.30	2.00	1.90	1.49	
9	1.60	2.10	9.30	6.20	59.50	4.40	3.70	2.60	2.20	2.00	1.90	1.45	
10	1.60	2.20	3.00	14.60	64.80	5.40	3.50	2.60	2.20	2.00	1.90	1.42	
11	1.70	5.40	2.30	4.20	52.00	6.80	3.40	2.60	2.20	2.00	1.90	1.39	
12	1.70	2.60	2.20	3.10	64.30	26.90	3.40	2.60	2.20	2.00	1.80	1.35	
13	1.60	2.30	19.70	10.20	46.80	35.10	3.40	2.60	2.20	2.00	1.80	1.32	
14	1.60	2.20	4.40	3.80	90.10	15.00	24.70	2.60	2.20	2.00	1.80	1.29	
15	1.60	2.10	22.00	2.80	64.80	142.50	15.80	2.60	2.20	2.00	1.80	1.26	
16	1.60	2.10	3.50	3.40	22.40	39.20	20.40	2.60	2.20	2.00	1.80	1.23	
17	1.50	2.10	2.70	4.90	20.60	20.40	14.10	2.50	2.20	2.00	1.80	1.20	
18	1.50	2.20	2.30	3.70	13.20	11.80	8.00	2.50	2.20	2.00	1.80	1.17	
19	1.50	2.10	2.30	9.80	10.80	10.20	4.70	2.50	2.20	2.00	1.80	1.14	
20	1.60	2.10	2.20	24.20	6.70	7.10	4.40	2.50	2.20	2.00	1.90	1.11	
21	1.60	2.10	2.10	5.90	11.80	5.90	4.00	2.50	2.20	2.00	2.00	1.09	
22	1.50	2.10	2.00	3.50	8.10	6.20	3.80	2.40	2.20	2.00	2.00	1.06	
23	1.50	2.00	2.00	3.00	6.40	12.10	3.50	2.50	2.20	2.00	2.00	1.04	
24	1.50	1.90	1.90	2.60	5.40	6.00	3.20	2.40	2.20	2.00	1.90	1.01	
25	1.50	1.90	1.90	2.40	6.80	4.70	3.00	2.30	2.20	2.00	1.90	0.99	
26	1.50	1.90	1.90	22.90	8.10	7.10	3.00	2.30	2.20	1.90	1.90	0.96	
27	2.30	1.90	1.90	5.40	15.50	5.80	3.00	2.30	2.20	1.90	1.90	0.94	
28	2.00	9.80	1.90	3.50	23.40	4.60	3.00	2.30	2.20	2.00	1.85	0.92	
29	2.20	26.00	1.80	26.90	9.40	4.30	3.00	2.30	2.20	2.00	1.81	0.89	
30	2.10	3.10	3.20	28.90	5.80	4.10	2.90	2.30	2.20	2.00		0.87	
31		2.40		6.80	4.60		2.90		2.10	2.00		0.85	
Total	49.60	128.60	132.50	232.50	754.00	528.00	191.10	76.70	68.90	62.10	54.46	38.94	2317.40 CMSDAY
Mean	1.65	4.15	4.42	7.50	24.32	17.60	6.16	2.56	2.22	2.00	1.88	1.26	6.33 CMS
Max	2.30	26.00	22.00	28.90	90.10	142.50	24.70	2.90	2.30	2.10	2.00	1.77	142.50 CMS
Min	1.50	1.80	1.80	2.30	2.50	4.00	2.90	2.30	2.10	1.90	1.80	0.85	0.85 CMS
Runoff	4.285	11.111	11.448	20.088	65.146	45.619	16.511	6.627	5.953	5.365	4.705	3.364	200.223 MCM

Momentary Peak 162.00 CMS, at 9.00 M (A.D), at 13.00 Hours, on Sep 15, 1995
Runoff Yield 26.06 Liters/Second/Square KM, Momentary Peak Yield 666.667 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

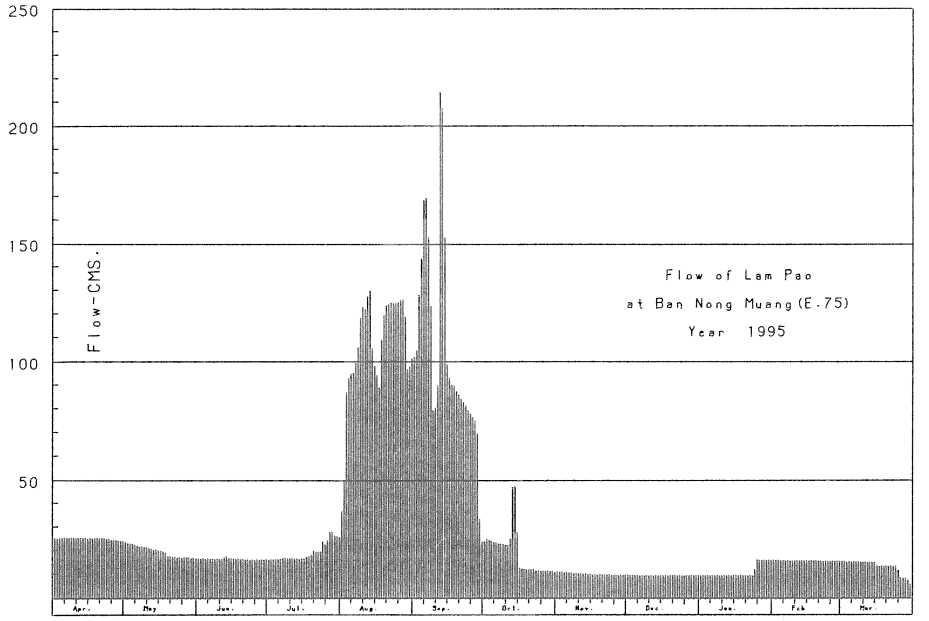
Lam Pao at Ban Nong Muang, Kalasin (E.75)

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	+149.762 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 Lam Pao Dam. Stage-discharge relation defined by 124 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.34	140.27	139.79	139.74	140.62	141.12	139.46	138.97	138.90	138.89	139.17	139.15	
2	140.34	140.26	139.79	139.75	140.85	141.17	139.49	138.97	138.90	138.89	139.17	139.15	
3	140.34	140.25	139.79	139.75	140.86	141.53	139.48	138.97	138.90	138.89	139.17	139.14	
4	140.35	140.25	139.79	139.75	140.97	141.77	139.46	138.96	138.90	138.89	139.16	139.14	
5	140.35	140.23	139.79	139.76	141.00	142.11	139.45	138.96	138.89	138.89	139.16	139.14	
6	140.35	140.22	139.79	139.76	141.01	142.12	139.44	138.95	138.89	138.89	139.16	139.14	
7	140.35	140.20	139.77	139.81	141.09	141.90	139.43	138.95	138.89	138.89	139.16	139.14	
8	140.35	140.20	139.77	139.81	141.19	141.46	139.42	138.94	138.89	138.89	139.16	139.14	
9	140.35	140.19	139.77	139.82	141.38	140.72	139.42	138.94	138.89	138.89	139.15	139.14	
10	140.35	140.18	139.76	139.81	141.45	140.74	139.41	138.94	138.89	138.89	139.16	139.14	
11	140.35	140.17	139.76	139.80	141.44	140.91	139.40	138.93	138.89	138.89	139.16	139.13	
12	140.35	140.15	139.83	139.79	141.52	142.67	139.50	138.93	138.89	138.89	139.16	139.13	
13	140.35	140.13	139.87	139.78	141.56	142.59	140.07	138.93	138.89	138.89	139.16	139.13	
14	140.35	140.13	139.81	139.78	141.18	141.90	140.08	138.92	138.89	138.89	139.16	139.13	
15	140.34	140.12	139.79	139.78	141.06	141.07	139.57	138.92	138.89	138.89	139.16	139.13	
16	140.34	140.11	139.78	139.78	140.99	140.97	139.04	138.91	138.89	138.89	139.16	139.07	
17	140.34	140.10	139.77	139.87	140.90	140.92	139.03	138.91	138.89	138.89	139.16	139.07	
18	140.34	140.04	139.77	139.87	141.24	140.91	139.02	138.91	138.89	138.89	139.16	139.07	
19	140.35	139.89	139.77	139.94	141.40	140.87	139.02	138.91	138.89	138.89	139.16	139.07	
20	140.34	139.88	139.76	140.10	141.46	140.84	139.01	138.91	138.90	138.89	139.16	139.07	
21	140.35	139.87	139.75	140.08	141.47	140.81	139.02	138.91	138.90	138.89	139.15	139.07	
22	140.34	139.85	139.74	140.06	141.48	140.78	139.02	138.91	138.89	138.89	139.15	139.07	
23	140.33	139.84	139.74	140.10	141.48	140.76	139.00	138.91	138.89	138.89	139.15	139.07	
24	140.33	139.84	139.74	140.28	141.48	140.72	138.99	138.90	138.89	139.01	139.15	139.07	
25	140.31	139.83	139.74	140.24	141.48	140.70	138.99	138.90	138.89	139.18	139.15	139.00	
26	140.31	139.84	139.74	140.30	141.50	140.67	138.99	138.90	138.89	139.17	139.15	138.84	
27	140.31	139.85	139.74	140.43	141.50	140.64	138.99	138.90	138.89	139.17	139.15	138.83	
28	140.30	139.83	139.74	140.43	141.39	140.54	138.99	138.90	138.89	139.17	139.15	138.83	
29	140.30	139.81	139.75	140.39	141.03	139.73	138.99	138.90	138.89	139.17	139.15	138.79	
30	140.29	139.81	139.75	140.37	141.05	139.45	138.98	138.90	138.89	139.17		138.67	
31		139.80		140.36	141.11		138.97		138.89	139.17		138.67	
Mean	140.34	140.04	139.77	139.98	141.23	141.10	139.26	138.93	138.89	138.96	139.16	139.04	
Max	140.35	140.27	139.87	140.43	141.56	142.67	140.08	138.97	138.90	139.18	139.17	139.15	142.67
Min	140.29	139.80	139.74	139.74	140.62	139.45	138.97	138.90	138.89	138.89	139.15	138.67	138.67

Annual Max Momentary Gage Height 142.82 M (MSL), at 1.00 Hours, on Sep 13, 1995
Zero Gage at Bottom Elevation 138.02 M (MSL), River Bed 137.89 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.50	23.75	16.90	16.40	37.00	102.20	24.30	11.40	10.00	9.80	16.25	15.75	
2	25.50	23.50	16.90	16.50	50.50	105.20	25.20	11.40	10.00	9.80	16.25	15.75	
3	25.50	23.25	16.90	16.50	87.30	128.45	24.90	11.40	10.00	9.80	16.25	15.50	
4	25.75	23.25	16.90	16.50	93.35	144.05	24.30	11.20	10.00	9.80	16.00	15.50	
5	25.75	22.75	16.90	16.60	95.00	168.80	24.00	11.20	9.80	9.80	16.00	15.50	
6	25.75	22.50	16.90	16.60	95.60	169.60	23.70	11.00	9.80	9.80	16.00	15.50	
7	25.75	22.00	16.70	17.10	100.40	153.00	23.40	11.00	9.80	9.80	16.00	15.50	
8	25.75	22.00	16.70	17.10	106.40	123.90	23.10	10.80	9.80	9.80	16.00	15.50	
9	25.75	21.80	16.70	17.20	118.70	79.60	23.10	10.80	9.80	9.80	15.75	15.50	
10	25.75	21.60	16.60	17.10	123.25	80.70	22.80	10.80	9.80	9.80	16.00	15.50	
11	25.75	21.40	16.60	17.00	122.60	90.05	22.50	10.60	9.80	9.80	16.00	15.25	
12	25.75	21.00	17.30	16.90	127.80	214.45	25.50	10.60	9.80	9.80	16.00	15.25	
13	25.75	20.60	17.70	16.80	130.40	207.65	47.15	10.60	9.80	9.80	16.00	15.25	
14	25.75	20.60	17.10	16.80	105.80	153.00	47.60	10.40	9.80	9.80	16.00	15.25	
15	25.50	20.40	16.90	16.80	98.60	99.20	27.95	10.40	9.80	9.80	16.00	15.25	
16	25.50	20.20	16.80	16.80	94.45	93.35	13.00	10.20	9.80	9.80	16.00	13.75	
17	25.50	20.00	16.70	17.70	89.50	90.60	12.75	10.20	9.80	9.80	16.00	13.75	
18	25.50	19.40	16.70	17.70	109.60	90.05	12.50	10.20	9.80	9.80	16.00	13.75	
19	25.75	17.90	16.70	18.40	120.00	87.85	12.50	10.20	9.80	9.80	16.00	13.75	
20	25.50	17.80	16.60	20.00	123.90	86.20	12.25	10.20	10.00	9.80	16.00	13.75	
21	25.75	17.70	16.50	19.80	124.55	84.55	12.50	10.20	10.00	9.80	15.75	13.75	
22	25.50	17.50	16.40	19.60	125.20	82.90	12.50	10.20	9.80	9.80	15.75	13.75	
23	25.25	17.40	16.40	20.00	125.20	81.80	12.00	10.20	9.80	9.80	15.75	13.75	
24	25.25	17.40	16.40	24.00	125.20	79.60	11.80	10.00	9.80	12.25	15.75	13.75	
25	24.75	17.30	16.40	23.00	125.20	78.50	11.80	10.00	9.80	16.50	15.75	12.00	
26	24.75	17.40	16.40	24.50	126.50	76.85	11.80	10.00	9.80	16.25	15.75	8.80	
27	24.75	17.50	16.40	28.20	126.50	75.20	11.80	10.00	9.80	16.25	15.75	8.60	
28	24.50	17.30	16.40	28.20	119.35	70.00	11.80	10.00	9.80	16.25	15.75	8.60	
29	24.50	17.10	16.50	26.75	96.80	33.55	11.80	10.00	9.80	16.25	15.75	7.85	
30	24.25	17.10	16.50	26.25	98.00	24.00	11.60	10.00	9.80	16.25		6.05	
31		17.00		26.00	101.60		11.40		9.80	16.25		6.05	
Total	762.25	616.40	501.50	608.80	3324.25	3154.85	603.30	315.20	305.00	351.65	462.25	413.45	11418.90 CMSDAY
Mean	25.41	19.88	16.72	19.64	107.23	105.16	19.46	10.51	9.84	11.34	15.94	13.34	31.20 CMS
Max	25.75	23.75	17.70	28.20	130.40	214.45	47.60	11.40	10.00	16.50	16.25	15.75	214.45 CMS
Min	24.25	17.00	16.40	16.40	37.00	24.00	11.40	10.00	9.80	9.80	15.75	6.05	6.05 CMS
Runoff	65.858	53.257	43.330	52.600	287.215	272.579	52.125	27.233	26.352	30.383	39.938	35.722	986.593 MCM

Momentary Peak 227.80 CMS, at 142.82 M (MSL), at 1.00 Hours, on Sep 13, 1995

Runoff Yield 5.15 Liters/Second/Square KM, Momentary Peak Yield 37.628 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

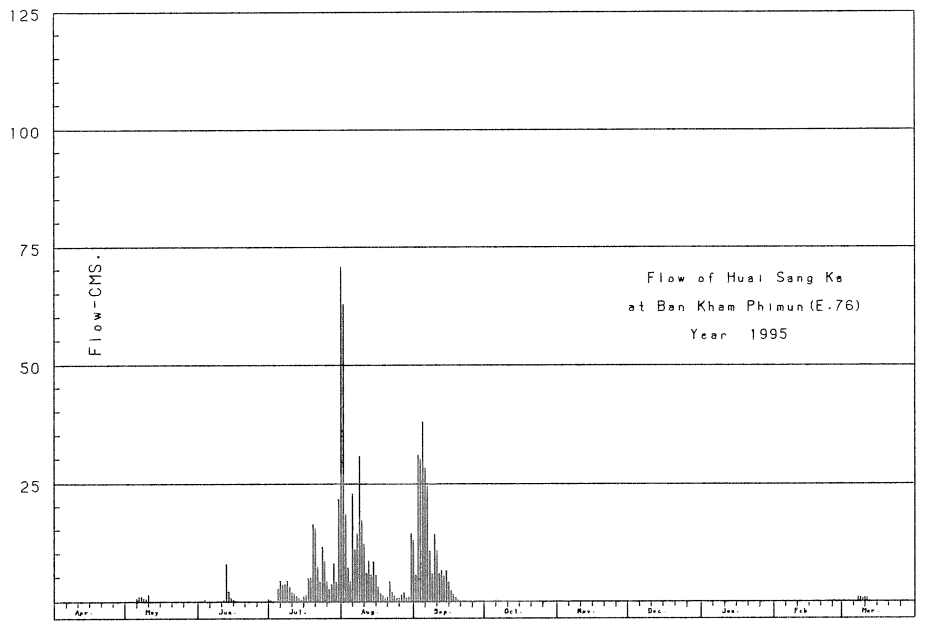
Huai Sang Ka at Ban Kham Phimun, Kalasin (E.76)

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	Water-staff recorder.
Zero Gage at Bottom	+175.27 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	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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 82 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.27	175.27	175.31	175.56	180.47	176.49	175.38	175.35	175.30	175.28	175.25	175.53	
2	175.27	175.27	175.35	175.50	177.80	178.74	175.41	175.35	175.30	175.28	175.25	175.53	
3	175.27	175.28	175.60	175.46	176.69	178.68	175.41	175.36	175.30	175.29	175.24	175.50	
4	175.27	175.45	175.45	176.04	176.28	179.21	175.50	175.38	175.30	175.31	175.25	175.51	
5	175.30	175.65	175.37	176.32	178.15	178.56	175.58	175.35	175.29	175.31	175.25	175.51	
6	175.29	175.72	175.34	176.16	177.11	178.27	175.56	175.34	175.29	175.29	175.25	175.51	
7	175.28	175.74	175.33	176.20	177.45	177.08	175.51	175.34	175.29	175.29	175.24	175.71	
8	175.28	175.65	175.34	176.31	178.73	176.52	175.48	175.33	175.29	175.29	175.24	175.70	
9	175.27	175.64	175.32	176.10	177.70	177.43	175.46	175.36	175.29	175.28	175.24	175.70	
10	175.27	175.82	175.35	175.89	177.22	177.08	175.45	175.33	175.29	175.28	175.24	175.69	
11	175.27	175.49	175.55	175.85	176.55	176.53	175.43	175.35	175.29	175.28	175.23	175.67	
12	175.27	175.49	176.79	175.75	176.86	176.60	175.43	175.34	175.29	175.28	175.23	175.65	
13	175.27	175.49	175.95	175.67	176.49	176.46	175.42	175.34	175.29	175.28	175.23	175.67	
14	175.27	175.49	175.69	175.60	176.85	176.60	175.42	175.34	175.29	175.27	175.23	175.67	
15	175.27	175.51	175.60	175.73	176.49	176.27	175.43	175.33	175.29	175.27	175.23	175.67	
16	175.27	175.45	175.53	175.78	176.09	175.97	175.45	175.31	175.29	175.27	175.29	175.67	
17	175.27	175.38	175.49	176.40	175.86	175.82	175.46	175.31	175.29	175.27	175.32	175.67	
18	175.27	175.34	175.45	176.41	175.76	175.71	175.45	175.30	175.29	175.26	175.35	175.67	
19	175.28	175.35	175.42	177.64	175.65	175.59	175.42	175.31	175.29	175.26	175.38	175.67	
20	175.39	175.32	175.45	177.55	175.70	175.53	175.41	175.31	175.29	175.26	175.42	175.67	
21	175.38	175.30	175.40	176.69	176.28	175.50	175.39	175.31	175.28	175.26	175.46	175.67	
22	175.34	175.30	175.37	176.28	175.91	175.50	175.39	175.31	175.28	175.26	175.49	175.66	
23	175.31	175.29	175.37	177.17	175.75	175.46	175.39	175.31	175.28	175.26	175.50	175.63	
24	175.29	175.28	175.36	176.85	175.66	175.43	175.38	175.30	175.28	175.26	175.51	175.68	
25	175.28	175.27	175.34	176.28	175.66	175.43	175.37	175.30	175.28	175.26	175.52	175.69	
26	175.28	175.27	175.41	176.02	175.78	175.41	175.37	175.30	175.28	175.25	175.52	175.69	
27	175.28	175.27	175.40	176.19	175.90	175.42	175.36	175.30	175.28	175.25	175.52	175.68	
28	175.27	175.35	175.39	176.79	175.67	175.41	175.35	175.30	175.28	175.25	175.52	175.71	
29	175.27	175.37	175.38	176.26	175.72	175.39	175.34	175.30	175.28	175.25	175.53	175.72	
30	175.27	175.36	175.61	178.06	177.45	175.37	175.34	175.30	175.28	175.25		175.69	
31		175.33		180.70	177.30		175.33		175.28	175.25		175.69	
Mean	175.29	175.43	175.49	176.43	176.68	176.45	175.42	175.33	175.29	175.27	175.34	175.65	
Max	175.39	175.82	176.79	180.70	180.47	179.21	175.58	175.38	175.30	175.31	175.53	175.72	180.70
Min	175.27	175.27	175.31	175.46	175.65	175.37	175.33	175.30	175.28	175.25	175.23	175.50	175.23

Annual Max Momentary Gage Height 181.62 M (MSL), at 19.00 Hours, on Jul 31, 1995
Zero Gage at Bottom Elevation 175.27 M (MSL), River Bed 175.23 M (MSL)
Left Bank Elevation 183.68 M (MSL)
Right Bank Elevation 183.68 M (MSL), Drainage Area 163 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.02	0.41	63.10	5.72	0.07	0.05	0.01	0.01	0.01	0.35	
2	0.01	0.01	0.05	0.28	18.50	31.10	0.10	0.05	0.01	0.01	0.01	0.35	
3	0.01	0.01	0.50	0.20	7.32	30.20	0.10	0.05	0.01	0.01	0.00	0.28	
4	0.01	0.18	0.18	2.84	4.28	38.18	0.28	0.07	0.01	0.02	0.01	0.30	
5	0.01	0.75	0.06	4.52	22.87	28.40	0.46	0.05	0.01	0.02	0.01	0.30	
6	0.01	1.10	0.04	3.56	11.10	24.38	0.41	0.04	0.01	0.01	0.01	0.30	
7	0.01	1.20	0.03	3.80	14.50	10.80	0.30	0.04	0.01	0.01	0.00	1.05	
8	0.01	0.75	0.04	4.46	30.95	5.96	0.24	0.03	0.01	0.01	0.00	1.00	
9	0.01	0.70	0.02	3.20	17.25	14.30	0.20	0.05	0.01	0.01	0.00	1.00	
10	0.01	1.60	0.05	1.95	12.20	10.80	0.18	0.03	0.01	0.01	0.00	0.95	
11	0.01	0.26	0.39	1.75	6.20	6.04	0.14	0.05	0.01	0.01	0.00	0.85	
12	0.01	0.26	8.12	1.25	8.68	6.60	0.14	0.04	0.01	0.01	0.00	0.00	
13	0.01	0.26	2.30	0.85	5.72	5.48	0.12	0.04	0.01	0.01	0.00	0.00	
14	0.01	0.26	0.95	0.50	8.60	6.60	0.12	0.04	0.01	0.01	0.00	0.00	
15	0.01	0.30	0.50	1.15	5.72	4.22	0.14	0.03	0.01	0.01	0.00	0.00	
16	0.01	0.18	0.35	1.40	3.14	2.42	0.18	0.02	0.01	0.01	0.01	0.00	
17	0.01	0.07	0.26	5.00	1.80	1.60	0.20	0.02	0.01	0.01	0.02	0.00	
18	0.01	0.04	0.18	5.08	1.30	1.05	0.18	0.01	0.01	0.01	0.05	0.00	
19	0.01	0.05	0.12	16.50	0.75	0.48	0.12	0.02	0.01	0.01	0.07	0.00	
20	0.07	0.02	0.18	15.50	1.00	0.35	0.10	0.02	0.01	0.01	0.12	0.00	
21	0.07	0.01	0.08	7.32	4.28	0.28	0.07	0.02	0.01	0.01	0.20	0.00	
22	0.04	0.01	0.06	4.28	2.06	0.28	0.07	0.02	0.01	0.01	0.26	0.00	
23	0.02	0.01	0.06	11.70	1.25	0.20	0.07	0.02	0.01	0.01	0.28	0.00	
24	0.01	0.01	0.05	8.60	0.80	0.14	0.07	0.01	0.01	0.01	0.30	0.00	
25	0.01	0.01	0.04	4.28	0.80	0.14	0.06	0.01	0.01	0.01	0.32	0.00	
26	0.01	0.01	0.10	2.72	1.40	0.10	0.06	0.01	0.01	0.01	0.32	0.00	
27	0.01	0.01	0.08	3.74	2.00	0.12	0.05	0.01	0.01	0.01	0.32	0.00	
28	0.01	0.05	0.07	8.12	0.85	0.10	0.05	0.01	0.01	0.01	0.32	0.00	
29	0.01	0.06	0.07	4.16	1.10	0.07	0.04	0.01	0.01	0.01	0.35	0.00	
30	0.01	0.05	0.55	21.75	14.50	0.06	0.04	0.01	0.01	0.01		0.00	
31		0.03		71.00	13.00		0.03		0.01	0.01		0.00	
Total	0.46	8.27	15.50	221.87	287.02	236.17	4.39	0.88	0.31	0.33	2.99	6.73	784.92 CMSDAY
Mean	0.02	0.27	0.52	7.16	9.26	7.87	0.14	0.03	0.01	0.01	0.10	0.22	2.14 CMS
Max	0.07	1.60	8.12	71.00	63.10	38.18	0.46	0.07	0.01	0.02	0.35	1.05	71.00 CMS
Min	0.01	0.01	0.02	0.20	0.75	0.06	0.03	0.01	0.01	0.01	0.00	0.00	0.00 CMS
Runoff	0.040	0.715	1.339	19.170	24.799	20.405	0.379	0.076	0.027	0.029	0.258	0.581	67.817 MCM

Momentary Peak 171.60 CMS, at 181.62 M (MSL), at 19.00 Hours, on Jul 31, 1995

Runoff Yield 13.16 Liters/Second/Square KM, Momentary Peak Yield 1052.761 Liters/Second/Square KM

WATER YEAR 1995

CHI RIVER BASIN

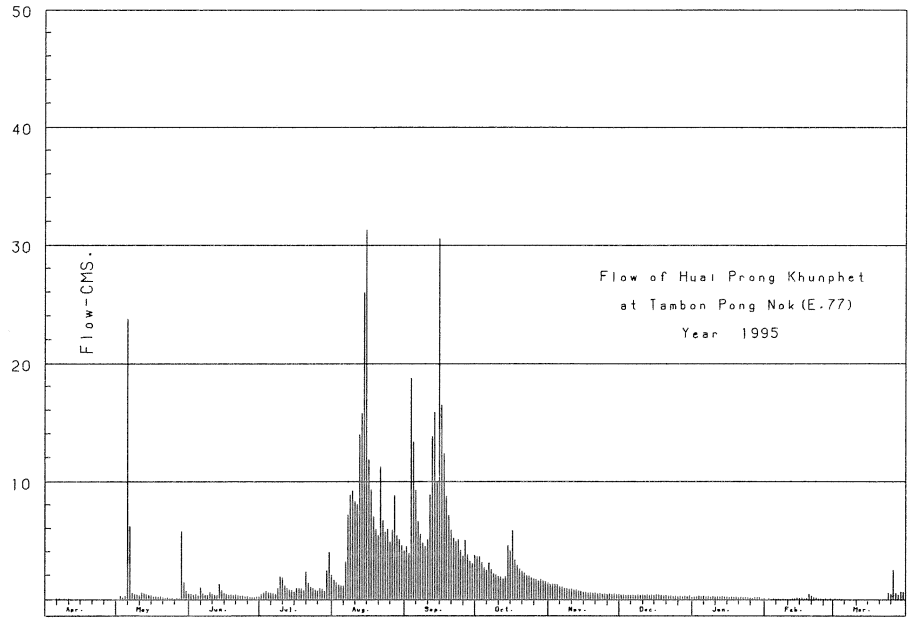
Huai Pong Khon Phet at Ban Thep Sila, Chai Yaphum. (E.77)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stream gaging began on April 6, 1995. Stage-discharge relation defined by 67 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	0.33	0.85	0.84	1.43	2.03	1.88	1.32	0.84	0.64	0.51	0.51	
2	*******	0.72	0.81	0.99	1.35	1.93	1.89	1.30	0.82	0.70	0.52	0.50	
3	*******	0.56	0.85	1.05	1.30	3.34	1.79	1.32	0.81	0.72	0.50	0.48	
4	*******	0.73	0.78	1.01	1.26	2.96	1.70	1.29	0.80	0.71	0.50	0.47	
5	0.51	3.62	1.21	0.97	1.27	2.59	1.67	1.25	0.82	0.70	0.51	0.43	
6	0.46	2.28	0.88	0.91	1.81	2.33	1.79	1.22	0.80	0.70	0.49	0.41	
7	0.45	1.00	0.78	0.86	2.38	2.18	1.67	1.20	0.80	0.67	0.48	0.40	
8	0.45	0.85	0.74	1.17	2.55	2.08	1.61	1.17	0.81	0.67	0.47	0.41	
9	0.50	0.85	1.02	1.52	2.59	2.03	1.57	1.16	0.81	0.67	0.48	0.41	
10	0.45	0.78	0.86	1.48	2.50	2.12	1.54	1.15	0.81	0.68	0.48	0.41	
11	0.46	0.98	0.77	1.27	2.47	2.55	1.51	1.13	0.81	0.67	0.48	0.41	
12	0.42	0.95	0.75	1.18	3.00	2.99	1.47	1.12	0.82	0.67	0.50	0.40	
13	0.42	0.82	1.31	1.12	3.13	3.14	1.52	1.09	0.81	0.68	0.54	0.38	
14	0.39	0.79	1.11	1.09	3.72	2.66	2.04	1.06	0.80	0.67	0.56	0.39	
15	0.37	0.74	0.98	1.04	3.94	3.91	1.98	1.04	0.80	0.64	0.56	0.39	
16	0.38	0.67	0.83	1.17	2.84	3.18	2.23	1.03	0.82	0.63	0.55	0.37	
17	0.35	0.64	0.80	1.20	2.60	2.89	1.83	1.00	0.84	0.63	0.55	0.35	
18	0.34	0.65	0.79	1.16	2.37	2.54	1.75	0.98	0.78	0.65	0.52	0.35	
19	0.33	0.65	0.78	1.11	2.24	2.38	1.68	0.99	0.78	0.64	0.90	0.34	
20	0.34	0.61	0.79	1.63	2.17	2.23	1.65	0.98	0.77	0.60	0.73	0.36	
21	0.35	0.56	0.74	1.34	2.78	2.14	1.61	0.96	0.75	0.62	0.61	0.36	
22	0.34	0.55	0.72	1.23	2.33	2.09	1.56	0.94	0.73	0.64	0.55	0.35	
23	0.32	0.53	0.70	1.17	2.21	2.12	1.54	0.92	0.71	0.61	0.53	0.33	
24	0.32	0.53	0.67	1.13	2.24	1.98	1.50	0.90	0.71	0.59	0.51	0.97	
25	0.32	0.49	0.65	1.07	2.09	1.90	1.47	0.89	0.70	0.58	0.49	0.90	
26	0.33	0.50	0.62	1.20	2.23	2.11	1.44	0.89	0.69	0.56	0.51	1.66	
27	0.37	0.52	0.60	1.15	2.55	1.91	1.41	0.89	0.70	0.60	0.51	0.97	
28	0.35	2.21	0.59	1.08	2.16	1.82	1.44	0.88	0.70	0.64	0.49	0.80	
29	0.36	1.36	0.60	1.65	2.12	1.77	1.41	0.87	0.69	0.59	0.48	1.04	
30	0.34	1.06	0.67	1.96	2.04	1.91	1.38	0.86	0.68	0.53		1.01	
31		0.93		1.56	1.98		1.34		0.62	0.51		0.90	
Mean	*******	0.92	0.81	1.20	2.31	2.39	1.64	1.06	0.77	0.64	0.53	0.56	
Max	0.51	3.62	1.31	1.96	3.94	3.91	2.23	1.32	0.84	0.72	0.90	1.66	3.94
Min	*******	0.33	0.59	0.84	1.26	1.77	1.34	0.86	0.62	0.51	0.47	0.33	*******

Annual Max Momentary Gage Height 5.16 M (A.D), at 6.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed M (A.D)
Left Bank Elevation 5.87 M (A.D)
Right Bank Elevation 5.49 M (A.D), Drainage Area 83 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	0.03	0.45	0.44	1.69	4.51	3.64	1.36	0.44	0.24	0.11	0.11	
2	*******	0.32	0.41	0.59	1.45	3.92	3.70	1.30	0.42	0.30	0.12	0.10	
3	*******	0.16	0.45	0.70	1.30	18.84	3.15	1.36	0.41	0.32	0.10	0.09	
4	*******	0.33	0.38	0.62	1.18	13.44	2.70	1.27	0.40	0.31	0.10	0.09	
5	0.11	23.84	1.03	0.57	1.21	9.30	2.55	1.15	0.42	0.30	0.11	0.07	
6	0.08	6.26	0.48	0.51	3.26	6.70	3.15	1.06	0.40	0.30	0.10	0.05	
7	0.08	0.60	0.38	0.46	7.20	5.56	2.55	1.00	0.40	0.27	0.09	0.05	
8	0.08	0.45	0.34	0.94	8.90	4.86	2.25	0.94	0.41	0.27	0.09	0.05	
9	0.10	0.45	0.64	1.96	9.30	4.51	2.11	0.92	0.41	0.27	0.09	0.05	
10	0.08	0.38	0.46	1.84	8.40	5.14	2.02	0.90	0.41	0.28	0.09	0.05	
11	0.08	0.58	0.37	1.21	8.10	8.90	1.93	0.86	0.41	0.27	0.09	0.05	
12	0.06	0.55	0.35	0.96	14.00	13.86	1.81	0.84	0.42	0.27	0.10	0.05	
13	0.06	0.42	1.33	0.84	15.82	15.96	1.96	0.78	0.41	0.28	0.14	0.04	
14	0.05	0.39	0.82	0.78	26.08	10.00	4.58	0.72	0.40	0.27	0.16	0.05	
15	0.04	0.34	0.58	0.68	31.36	30.64	4.19	0.68	0.40	0.24	0.16	0.05	
16	0.04	0.27	0.43	0.94	11.94	16.52	5.91	0.66	0.42	0.23	0.15	0.04	
17	0.03	0.24	0.40	1.00	9.40	12.49	3.37	0.60	0.44	0.23	0.15	0.03	
18	0.03	0.25	0.39	0.92	7.10	8.80	2.95	0.58	0.38	0.25	0.12	0.03	
19	0.03	0.25	0.38	0.82	5.98	7.20	2.60	0.59	0.38	0.24	0.50	0.03	
20	0.03	0.21	0.39	2.35	5.49	5.91	2.45	0.58	0.37	0.20	0.33	0.04	
21	0.03	0.16	0.34	1.42	11.28	5.28	2.25	0.56	0.35	0.22	0.21	0.04	
22	0.03	0.15	0.32	1.09	6.70	4.93	2.08	0.54	0.33	0.24	0.15	0.03	
23	0.03	0.13	0.30	0.94	5.77	5.14	2.02	0.52	0.31	0.21	0.13	0.03	
24	0.03	0.13	0.27	0.86	5.98	4.19	1.90	0.50	0.31	0.19	0.11	0.57	
25	0.03	0.10	0.25	0.74	4.93	3.75	1.81	0.49	0.30	0.18	0.10	0.50	
26	0.03	0.10	0.22	1.00	5.91	5.07	1.72	0.49	0.29	0.16	0.11	2.50	
27	0.04	0.12	0.20	0.90	8.90	3.81	1.63	0.49	0.30	0.20	0.11	0.57	
28	0.03	5.77	0.19	0.76	5.42	3.31	1.72	0.48	0.30	0.24	0.10	0.40	
29	0.04	1.48	0.20	2.45	5.14	3.05	1.63	0.47	0.29	0.19	0.09	0.68	
30	0.03	0.72	0.27	4.08	4.58	3.81	1.54	0.46	0.28	0.13		0.62	
31		0.53		2.08	4.19		1.42		0.22	0.11		0.50	
Total	*******	45.71	13.02	35.45	247.96	249.40	79.29	23.15	11.43	7.41	4.01	7.56	******** CMSDAY
Mean	*******	1.47	0.43	1.14	8.00	8.31	2.56	0.77	0.37	0.24	0.14	0.24	******** CMS
Max	0.11	23.84	1.33	4.08	31.36	30.64	5.91	1.36	0.44	0.32	0.50	2.50	31.36 CMS
Min	*******	0.03	0.19	0.44	1.18	3.05	1.42	0.46	0.22	0.11	0.09	0.03	******** CMS
Runoff	*******	3.949	1.125	3.063	21.424	21.548	6.851	2.000	0.988	0.640	0.346	0.653	******** MCM

Momentary Peak 75.32 CMS, at 5.16 M (A.D), at 6.00 Hours, on Sep 15, 1995

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield 907.470 Liters/Second/Square KM

WATER YEAR 1995

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 — 4,8oo 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 — Rather unstable because of backwater effect.

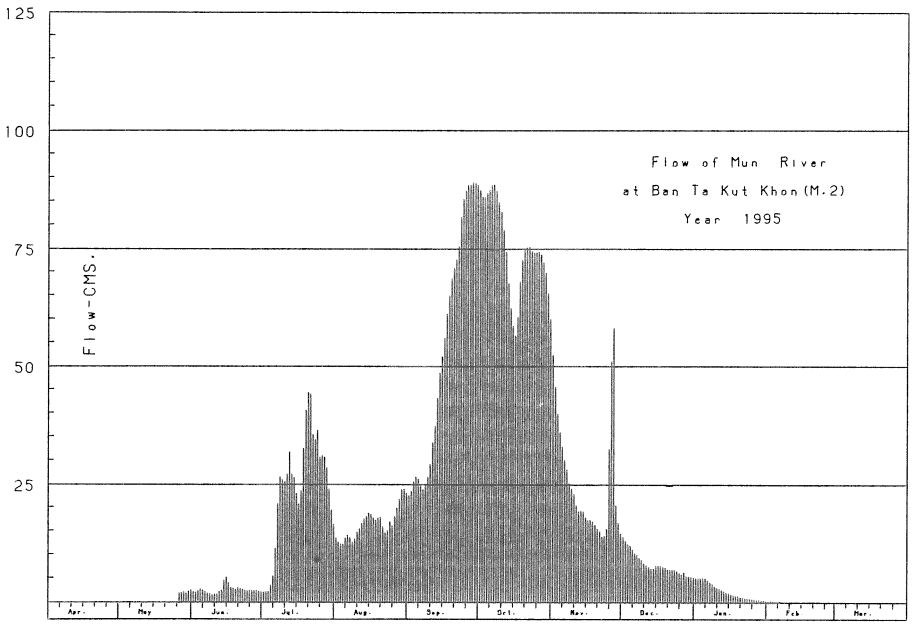
Overbank Flow Conditions — Overbank flow starts at elevation +163.66 m.(M.S.L.),records are channel flow only.

General Description — Records fair. Flow effected by the weir during Jan.1-Mar.31,96, discharge estimated by recession equation. Stage-discharge relation defined by 23 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.91	159.81	159.44	159.41	160.67	161.38	164.67	163.12	160.69	159.81	161.87	162.08	
2	159.91	159.81	159.40	159.42	160.59	161.44	164.62	162.79	160.61	159.81	161.86	162.07	
3	159.90	159.82	159.46	159.45	160.54	161.58	164.61	162.49	160.53	159.81	161.86	162.04	
4	159.91	159.83	159.55	159.63	160.54	161.64	164.65	162.27	160.51	159.81	161.86	162.04	
5	159.91	159.85	159.48	159.86	160.67	161.62	164.67	162.07	160.42	159.81	161.87	162.04	
6	159.91	159.87	159.41	160.45	160.72	161.53	164.71	161.89	160.35	159.82	161.87	162.03	
7	159.92	159.85	159.39	161.26	160.68	161.47	164.72	161.75	160.31	159.89	161.90	162.03	
8	159.92	159.81	159.35	161.65	160.58	161.53	164.67	161.56	160.25	160.03	161.95	162.03	
9	159.92	159.85	159.32	161.60	160.64	161.65	164.57	161.48	160.20	160.32	162.00	162.03	
10	159.92	160.03	159.33	161.58	160.80	161.82	164.50	161.40	160.14	160.86	162.02	162.03	
11	159.91	160.15	159.35	161.68	160.85	162.13	164.34	161.24	160.09	161.31	162.02	162.03	
12	159.90	160.71	159.42	162.00	160.97	162.34	164.15	161.14	160.06	161.50	162.03	162.03	
13	159.89	161.30	159.49	161.68	161.03	162.67	163.87	161.16	160.01	161.61	162.03	162.03	
14	159.90	161.55	159.74	161.64	161.07	162.93	163.62	161.14	160.03	161.69	162.04	162.04	
15	159.90	161.80	159.87	161.41	161.12	163.11	163.43	161.06	160.08	161.77	162.05	162.04	
16	159.91	161.62	159.69	161.25	161.09	163.31	163.33	161.01	160.09	161.83	162.06	162.07	
17	159.90	161.17	159.57	161.45	161.05	163.56	163.53	161.02	160.08	161.88	162.06	162.07	
18	159.90	160.71	159.53	162.05	161.01	163.75	163.88	160.98	160.06	161.90	162.06	162.05	
19	159.89	160.34	159.52	162.53	161.05	163.91	164.08	160.93	160.04	161.90	162.06	162.03	
20	159.86	159.98	159.55	162.73	161.05	164.01	164.17	160.85	160.01	161.90	162.06	162.01	
21	159.85	159.77	159.54	162.71	160.89	164.08	164.19	160.80	160.00	161.90	162.06	161.99	
22	159.84	159.61	159.51	162.24	160.78	164.20	164.19	160.70	160.00	161.91	162.07	161.97	
23	159.83	159.46	159.47	162.17	160.82	164.45	164.16	160.71	159.99	161.91	162.07	161.95	
24	159.81	159.42	159.47	162.29	160.99	164.60	164.14	160.85	159.97	161.91	162.07	161.95	
25	159.81	159.40	159.47	161.92	160.91	164.67	164.15	162.05	159.93	161.90	162.07	161.94	
26	159.81	159.39	159.47	161.94	161.07	164.71	164.15	163.06	159.89	161.90	162.07	161.94	
27	159.81	159.40	159.46	161.93	161.20	164.72	164.13	163.41	159.95	161.90	162.07	161.94	
28	159.81	159.41	159.46	161.78	161.33	164.73	164.06	161.24	159.85	161.90	162.07	161.94	
29	159.81	159.38	159.45	161.47	161.47	164.73	163.96	160.97	159.85	161.89	162.07	161.94	
30	159.81	159.43	159.42	161.17	161.47	164.71	163.77	160.77	159.83	161.88		161.97	
31		159.48		160.93	161.41		163.50		159.82	161.87		162.01	
Mean	159.88	160.06	159.49	161.40	160.94	163.10	164.17	161.53	160.12	161.23	162.01	162.01	
Max	159.92	161.80	159.87	162.73	161.47	164.73	164.72	163.41	160.69	161.91	162.07	162.08	164.73
Min	159.81	159.38	159.32	159.41	160.54	161.38	163.33	160.70	159.82	159.81	161.86	161.94	159.32

Annual Max Momentary Gage Height 164.73 M (MSL), at 1.00 Hours, on Sep 29, 1995
Zero Gage at Bottom Elevation 157.85 M (MSL), River Bed 158.74 M (MSL)
Left Bank Elevation 165.94 M (MSL)
Right Bank Elevation 163.65 M (MSL), Drainage Area 4800 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	2.3	2.2	13.7	22.7	87.4	52.4	13.9	5.2	0.4	0.0	
2	0.0	0.0	2.1	2.2	12.9	23.6	86.1	45.8	13.1	5.2	0.4	0.0	
3	0.0	0.0	2.5	2.4	12.4	25.7	85.9	40.0	12.3	5.2	0.4	0.0	
4	0.0	0.0	3.1	3.6	12.4	26.6	86.9	36.2	12.1	5.2	0.3	0.0	
5	0.0	0.0	2.6	5.6	13.7	26.3	87.4	33.1	11.2	5.2	0.3	0.0	
6	0.0	0.0	2.2	11.5	14.2	24.9	88.5	30.3	10.5	4.7	0.3	0.0	
7	0.0	0.0	2.0	20.9	13.8	24.0	88.7	28.2	10.1	4.3	0.3	0.0	
8	0.0	0.0	1.8	26.7	12.8	24.9	87.4	25.4	9.5	3.9	0.2	0.0	
9	0.0	0.0	1.6	26.0	13.4	26.7	84.8	24.2	9.0	3.5	0.2	0.0	
10	0.0	0.0	1.7	25.7	15.0	29.3	83.0	23.0	8.4	3.2	0.2	0.0	
11	0.0	0.0	1.8	27.2	15.6	34.0	79.0	20.7	7.9	2.9	0.2	0.0	
12	0.0	0.0	2.2	32.0	16.9	37.4	74.4	19.3	7.6	2.7	0.2	0.0	
13	0.0	0.0	2.6	27.2	17.7	43.4	67.8	19.5	7.1	2.4	0.1	0.0	
14	0.0	0.0	4.6	26.6	18.3	48.6	62.4	19.3	7.3	2.2	0.1	0.0	
15	0.0	0.0	5.7	23.2	19.0	52.2	58.6	18.1	7.8	2.0	0.1	0.0	
16	0.0	0.0	4.1	20.8	18.6	56.2	56.6	17.4	7.9	1.8	0.1	0.0	
17	0.0	0.0	3.2	23.7	18.0	61.2	60.6	17.6	7.8	1.6	0.1	0.0	
18	0.0	0.0	2.9	32.7	17.4	65.1	68.0	17.1	7.6	1.5	0.1	0.0	
19	0.0	0.0	2.8	40.8	18.0	68.7	72.7	16.5	7.4	1.4	0.1	0.0	
20	0.0	0.0	3.1	44.6	18.0	71.0	74.9	15.6	7.1	1.2	0.1	0.0	
21	0.0	0.0	3.0	44.2	16.0	72.7	75.4	15.0	7.0	1.1	0.1	0.0	
22	0.0	0.0	2.8	35.7	14.8	75.6	75.4	14.0	7.0	1.0	0.1	0.0	
23	0.0	0.0	2.5	34.6	15.2	81.7	74.6	14.1	6.9	0.9	0.1	0.0	
24	0.0	0.0	2.5	36.5	17.2	85.6	74.2	15.6	6.7	0.9	0.1	0.0	
25	0.0	0.0	2.5	30.8	16.2	87.4	74.4	32.7	6.3	0.8	0.0	0.0	
26	0.0	2.0	2.5	31.1	18.3	88.5	74.4	51.2	5.9	0.7	0.0	0.0	
27	0.0	2.1	2.5	30.9	20.1	88.7	73.9	58.2	6.5	0.6	0.0	0.0	
28	0.0	2.2	2.5	28.7	21.9	89.0	72.2	20.7	5.6	0.6	0.0	0.0	
29	0.0	2.0	2.4	24.0	24.0	89.0	69.9	16.9	5.6	0.5	0.0	0.0	
30	0.0	2.3	2.2	19.7	24.0	88.5	65.6	14.7	5.4	0.5		0.0	
31		2.6		16.5	23.2		60.0		5.3	0.4		0.0	
Total	0.0	13.2	80.3	758.3	522.7	1639.2	2331.1	772.8	253.8	73.3	4.6	0.0	6449.3 CMSDAY
Mean	0.0	0.4	2.7	24.5	16.9	54.6	75.2	25.8	8.2	2.4	0.2	0.0	17.6 CMS
Max	0.0	2.6	5.7	44.6	24.0	89.0	88.7	58.2	13.9	5.2	0.4	0.0	89.0 CMS
Min	0.0	0.0	1.6	2.2	12.4	22.7	56.6	14.0	5.3	0.4	0.0	0.0	0.0 CMS
Runoff	0.00	1.14	6.94	65.52	45.16	141.63	201.41	66.77	21.93	6.33	0.40	0.00	557.22 MCM

Momentary Peak 88.98 CMS, at 164.73 M (MSL), at 1.00 Hours, on Sep 29, 1995

Runoff Yield 3.67 Liters/Second/Square KM, Momentary Peak Yield 18.538 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

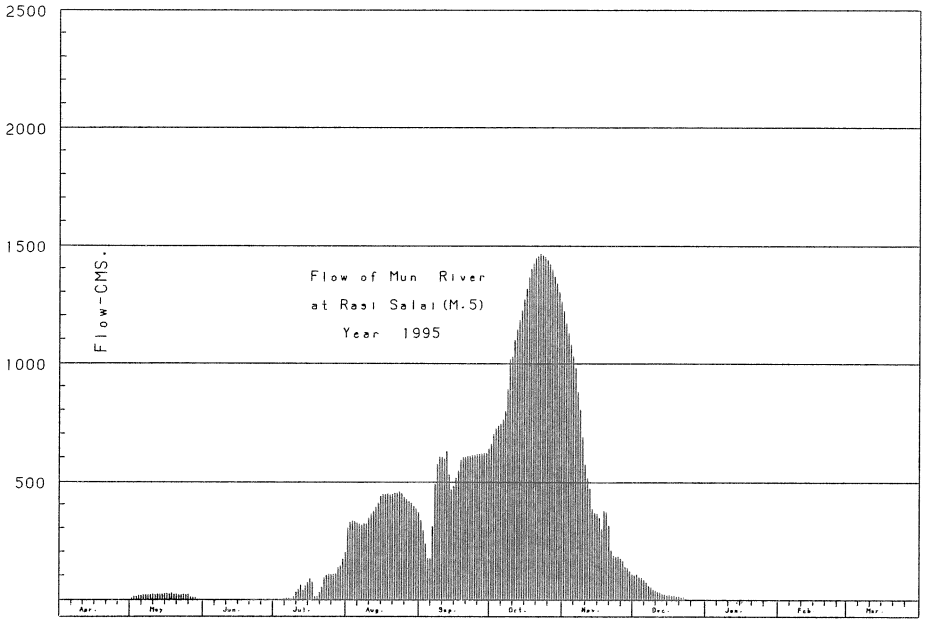
Mun River at Rasi Salai, Si Sa Ket (M.5)

Location	Lat. 15-20-16 N., Long. 103-09-29 E., on left bank infront of Amphoe Rasi Salai Office, Si Sa Ket.
Drainage Area	44,275 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+110.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream at the footpath of the bridge.
Elevation	+124.814 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1955 to date.
Rating Operation	
Period of Rating	1972 to date.
Rated by Float	-
Rated by Current Meter	1972 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.01	110.32	109.97	109.95	113.99	114.23	115.92	118.14	112.30	110.05	110.07	110.07	
2	109.99	110.41	109.97	109.95	114.18	113.91	116.09	117.96	112.30	110.06	110.05	110.07	
3	109.99	110.51	109.96	109.95	114.19	113.53	116.20	117.79	112.18	110.05	110.05	110.05	
4	109.98	110.58	109.97	110.15	114.20	112.98	116.24	117.62	112.03	110.07	110.05	110.07	
5	109.98	110.62	109.96	110.25	114.16	113.00	116.29	117.43	111.94	110.08	110.04	110.07	
6	109.98	110.64	109.96	110.29	114.11	114.06	116.37	117.25	111.74	110.06	110.04	110.08	
7	109.97	110.68	109.97	110.26	114.10	115.09	116.51	116.84	111.57	110.06	110.06	110.08	
8	109.97	110.64	109.98	110.24	114.12	115.52	116.90	116.55	111.43	110.08	110.07	110.06	
9	109.97	110.71	109.98	110.47	114.13	115.66	117.38	116.04	111.30	110.08	110.05	110.08	
10	109.96	110.72	109.99	110.94	114.28	115.65	117.43	115.52	111.15	110.10	110.05	110.08	
11	109.96	110.72	109.99	111.31	114.38	115.63	117.68	115.22	111.05	110.14	110.09	110.05	
12	109.96	110.73	109.99	111.60	114.47	115.78	117.86	115.00	110.94	110.12	110.08	110.07	
13	109.97	110.75	109.99	111.23	114.55	115.29	118.00	114.51	110.83	110.12	110.06	110.07	
14	109.97	110.77	109.99	111.54	114.67	114.96	118.16	114.42	110.72	110.11	110.05	110.08	
15	109.97	110.79	109.99	111.78	114.83	115.05	118.32	114.39	110.67	110.11	110.07	110.09	
16	109.96	110.81	109.99	111.95	114.86	115.22	118.49	114.30	110.65	110.10	110.07	110.07	
17	109.97	110.82	109.99	111.79	114.87	115.38	118.67	113.96	110.60	110.10	110.06	110.08	
18	109.97	110.84	109.98	110.48	114.87	115.59	118.79	114.47	110.57	110.09	110.07	110.08	
19	109.97	110.78	109.98	110.44	114.86	115.66	118.88	114.43	110.52	110.08	110.08	110.09	
20	109.97	110.72	109.97	110.97	114.86	115.66	118.95	114.08	110.46	110.08	110.07	110.10	
21	109.98	110.70	109.96	111.50	114.88	115.67	118.99	113.30	110.41	110.07	110.08	110.09	
22	109.99	110.70	109.96	112.02	114.90	115.68	119.01	113.09	110.36	110.07	110.08	110.09	
23	110.01	110.71	109.97	112.29	114.93	115.69	119.00	113.07	110.28	110.06	110.08	110.10	
24	110.01	110.72	109.97	112.31	114.87	115.70	118.97	113.06	110.17	110.06	110.10	110.11	
25	110.02	110.72	109.96	112.32	114.81	115.71	118.93	113.01	110.15	110.05	110.08	110.10	
26	110.01	110.57	109.95	112.31	114.74	115.71	118.87	112.88	110.10	110.05	110.07	110.11	
27	110.02	110.43	109.95	112.36	114.71	115.73	118.78	112.65	110.07	110.05	110.07	110.11	
28	110.02	110.31	109.95	112.61	114.65	115.73	118.68	112.58	110.06	110.05	110.10	110.12	
29	110.03	110.20	109.95	112.70	114.59	115.74	118.57	112.48	110.03	110.04	110.10	110.12	
30	110.03	110.07	109.95	112.96	114.51	115.82	118.45	112.31	110.02	110.08		110.12	
31		109.99		113.23	114.42		118.29		109.99	110.08		110.08	
Mean	109.99	110.60	109.97	111.36	114.54	115.17	117.92	114.81	110.86	110.08	110.07	110.09	
Max	110.03	110.84	109.99	113.23	114.93	115.82	119.01	118.14	112.30	110.14	110.10	110.12	119.01
Min	109.96	109.99	109.95	109.95	113.99	112.98	115.92	112.31	109.99	110.04	110.04	110.05	109.95

Annual Max Momentary Gage Height 119.01 M (MSL), at 6.00 Hours, on Oct 22, 1995
Zero Gage at Bottom Elevation 110.00 M (MSL), River Bed 109.06 M (MSL)
Left Bank Elevation 121.69 M (MSL)
Right Bank Elevation 119.55 M (MSL), Drainage Area 44275 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.3	9.7	0.0	0.0	304.6	339.5	662.6	1222.8	107.0	1.5	2.1	2.1	
2	0.0	12.9	0.0	0.0	332.0	293.4	701.7	1174.2	107.0	1.8	1.5	2.1	
3	0.0	16.3	0.0	0.0	333.5	240.2	727.0	1128.3	98.3	1.5	1.5	1.5	
4	0.0	18.8	0.0	4.5	335.0	174.8	736.2	1082.4	93.0	2.1	1.5	2.1	
5	0.0	20.2	0.0	7.5	329.0	177.0	747.7	1031.1	87.7	2.4	1.2	2.1	
6	0.0	20.9	0.0	8.7	321.5	314.4	766.1	984.0	73.3	1.8	1.2	2.4	
7	0.0	22.3	0.0	7.8	320.0	491.1	798.4	880.0	61.0	1.8	1.8	2.4	
8	0.0	20.9	0.0	7.2	323.0	577.2	895.0	808.0	52.5	2.4	2.1	1.8	
9	0.0	23.3	0.0	14.9	324.5	606.6	1017.8	690.2	46.0	2.4	1.5	2.4	
10	0.0	23.7	0.0	31.6	347.0	604.5	1031.1	577.2	40.0	3.0	1.5	2.4	
11	0.0	23.7	0.0	46.5	363.6	600.3	1098.6	516.0	36.0	4.2	2.7	1.5	
12	0.0	24.1	0.0	63.2	378.9	631.8	1147.2	474.0	31.6	3.6	2.4	2.1	
13	0.0	24.7	0.0	43.2	392.5	530.0	1185.0	385.7	27.6	3.6	1.8	2.1	
14	0.0	25.4	0.0	58.9	412.9	466.4	1228.2	370.4	23.7	3.3	1.5	2.4	
15	0.0	26.1	0.0	76.2	441.7	483.5	1271.4	365.3	21.9	3.3	2.1	2.7	
16	0.0	26.8	0.0	88.4	447.4	516.0	1317.3	350.0	21.2	3.0	2.1	2.1	
17	0.0	27.2	0.0	76.9	449.3	548.0	1367.6	300.4	19.5	3.0	1.8	2.4	
18	0.0	27.9	0.0	15.3	449.3	591.9	1401.2	378.9	18.4	2.7	2.1	2.4	
19	0.0	25.8	0.0	13.9	447.4	606.6	1426.4	372.1	16.7	2.4	2.4	2.7	
20	0.0	23.7	0.0	32.8	447.4	606.6	1446.5	317.2	14.6	2.4	2.1	3.0	
21	0.0	23.0	0.0	56.0	451.2	608.7	1458.1	212.0	12.9	2.1	2.4	2.7	
22	0.0	23.0	0.0	92.7	455.0	610.8	1463.9	186.9	11.1	2.1	2.4	2.7	
23	0.3	23.3	0.0	106.2	460.7	612.9	1461.0	184.7	8.4	1.8	2.4	3.0	
24	0.3	23.7	0.0	107.9	449.3	615.0	1452.3	183.6	5.1	1.8	3.0	3.3	
25	0.6	23.7	0.0	108.8	437.9	617.1	1440.7	178.1	4.5	1.5	2.4	3.0	
26	0.3	18.4	0.0	107.9	425.2	617.1	1423.6	164.0	3.0	1.5	2.1	3.3	
27	0.6	13.5	0.0	112.4	419.8	621.3	1398.4	141.0	2.1	1.5	2.1	3.3	
28	0.6	9.3	0.0	137.0	409.5	621.3	1370.4	134.0	1.8	1.5	3.0	3.6	
29	0.9	6.0	0.0	146.0	399.3	623.4	1339.6	124.0	0.9	1.2	3.0	3.6	
30	0.9	2.1	0.0	172.6	385.7	640.4	1306.5	107.9	0.6	2.4		3.6	
31		0.0		203.6	370.4		1263.3		0.0	2.4		2.4	
Total	4.8	610.4	0.0	1948.6	12164.5	15587.8	36350.8	15024.4	1047.4	72.0	59.7	79.2	82949.6 CMSDAY
Mean	0.2	19.7	0.0	62.9	392.4	519.6	1172.6	500.8	33.8	2.3	2.1	2.6	226.6 CMS
Max	0.9	27.9	0.0	203.6	460.7	640.4	1463.9	1222.8	107.0	4.2	3.0	3.6	1463.9 CMS
Min	0.0	0.0	0.0	0.0	304.6	174.8	662.6	107.9	0.0	1.2	1.2	1.5	0.0 CMS
Runoff	0.41	52.74	0.00	168.36	1051.01	1346.79	3140.71	1298.11	90.50	6.22	5.16	6.84	7166 85 MCM

Momentary Peak 1463.90 CMS, at 119.01 M (MSL), at 6.00 Hours, on Oct 22, 1995

Runoff Yield 5.12 Liters/Second/Square KM, Momentary Peak Yield 33.064 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

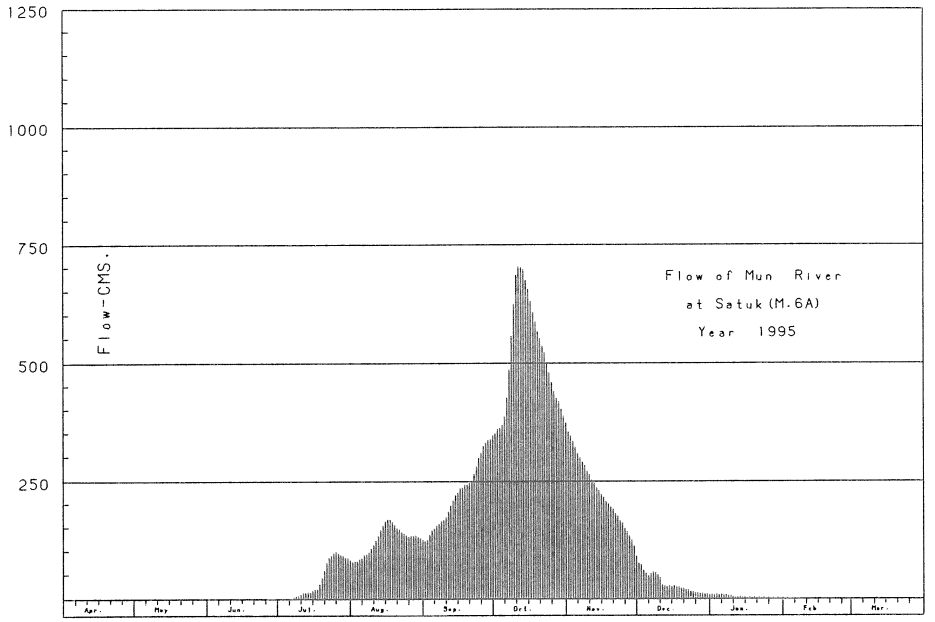
Mun River at Satuk, Buri Ram (M.6A)

Location	Lat. 15-17-44 N., Long. 103-17-51 E., on right bank at Satuk, Buri Ram.
Drainage Area	28,275 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+124.00 m. (M.S.L.)
Bench Mark	B.M.-B.M.P.1383
Location	Infront of the post office and about 80 meters from staff gage line.
Elevation	+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	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 47 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.92	123.78	124.03	124.01	126.48	127.14	129.14	129.16	126.44	124.95	124.65	124.51	
2	123.88	123.77	124.02	124.05	126.47	127.16	129.18	129.11	126.37	124.97	124.64	124.51	
3	123.87	123.76	124.01	124.12	126.50	127.32	129.20	129.06	126.18	124.99	124.63	124.52	
4	123.86	123.76	124.00	124.18	126.54	127.43	129.22	128.99	126.03	124.98	124.62	124.54	
5	123.85	123.80	123.99	124.27	126.60	127.50	129.30	128.92	125.96	124.97	124.62	124.57	
6	123.85	123.80	123.98	124.49	126.70	127.56	129.45	128.86	126.02	124.95	124.61	124.60	
7	123.85	123.79	123.98	124.73	126.71	127.62	129.65	128.80	126.11	124.93	124.60	124.61	
8	123.85	123.78	123.96	124.84	126.79	127.67	129.84	128.74	126.07	124.91	124.59	124.62	
9	123.85	123.77	123.95	124.88	126.90	127.71	130.01	128.66	126.00	124.87	124.58	124.61	
10	123.85	123.76	123.95	125.02	127.03	127.77	130.13	128.60	125.86	124.83	124.58	124.61	
11	123.85	123.85	123.99	125.11	127.15	127.91	130.16	128.53	125.57	124.81	124.58	124.61	
12	123.84	123.85	124.03	125.14	127.29	128.04	130.16	128.47	125.49	124.79	124.58	124.64	
13	123.84	123.85	124.06	125.16	127.44	128.16	130.15	128.40	125.49	124.75	124.58	124.63	
14	123.84	123.90	124.06	125.18	127.59	128.25	130.11	128.34	125.49	124.74	124.57	124.62	
15	123.84	123.90	124.06	125.29	127.67	128.31	130.07	128.28	125.49	124.73	124.56	124.61	
16	123.84	123.90	124.05	125.32	127.73	128.38	130.02	128.21	125.49	124.73	124.56	124.60	
17	123.84	123.90	124.04	125.36	127.71	128.40	129.97	128.14	125.47	124.72	124.55	124.58	
18	123.84	123.90	124.03	125.57	127.67	128.44	129.92	128.07	125.45	124.72	124.55	124.57	
19	123.84	123.95	124.02	125.87	127.58	128.45	129.87	128.02	125.42	124.72	124.55	124.55	
20	123.84	123.95	124.02	126.14	127.51	128.47	129.83	127.96	125.38	124.71	124.55	124.54	
21	123.83	123.95	124.01	126.44	127.46	128.51	129.79	127.87	125.34	124.71	124.54	124.53	
22	123.82	123.95	124.00	126.61	127.40	128.61	129.75	127.79	125.30	124.71	124.53	124.52	
23	123.80	123.95	123.98	126.66	127.35	128.73	129.69	127.70	125.24	124.70	124.52	124.51	
24	123.78	124.01	123.97	126.77	127.31	128.85	129.63	127.63	125.19	124.69	124.52	124.51	
25	123.76	124.02	123.96	126.80	127.27	128.93	129.57	127.51	125.15	124.69	124.52	124.50	
26	123.80	124.03	123.95	126.76	127.28	129.00	129.50	127.40	125.12	124.68	124.52	124.49	
27	123.80	124.02	123.94	126.71	127.29	129.04	129.45	127.30	125.10	124.68	124.52	124.49	
28	123.79	124.03	123.93	126.66	127.29	129.06	129.42	127.16	125.08	124.67	124.51	124.49	
29	123.79	124.03	123.92	126.62	127.26	129.08	129.36	127.01	125.05	124.67	124.51	124.48	
30	123.79	124.03	123.95	126.59	127.21	129.11	129.30	126.66	125.03	124.66		124.48	
31		124.03		126.52	127.17		129.24		124.99	124.65		124.47	
Mean	123.83	123.90	123.99	125.54	127.17	128.22	129.68	128.18	125.56	124.78	124.57	124.55	
Max	123.92	124.03	124.06	126.80	127.73	129.11	130.16	129.16	126.44	124.99	124.65	124.64	130.16
Min	123.76	123.76	123.92	124.01	126.47	127.14	129.14	126.66	124.99	124.65	124.51	124.47	123.76

Annual Max Momentary Gage Height 130.16 M (MSL), at 6.00 Hours, on Oct 11, 1995
Zero Gage at Bottom Elevation 124.00 M (MSL), River Bed 120.93 M (MSL)
Left Bank Elevation 132.09 M (MSL)
Right Bank Elevation 133.31 M (MSL), Drainage Area 28275 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.0	0.0	79.3	123.0	352.0	356.0	76.9	8.7	2.8	1.1	
2	0.0	0.0	0.0	0.0	78.7	124.5	360.0	346.0	72.7	9.3	2.6	1.1	
3	0.0	0.0	0.0	0.0	80.5	136.5	364.0	336.0	61.9	9.7	2.4	1.2	
4	0.0	0.0	0.0	0.0	83.1	144.8	368.8	322.2	53.6	9.5	2.3	1.4	
5	0.0	0.0	0.0	0.1	87.0	150.0	388.0	309.6	50.0	9.3	2.3	1.7	
6	0.0	0.0	0.0	0.9	93.5	154.8	427.0	300.4	53.1	8.7	2.2	2.0	
7	0.0	0.0	0.0	4.0	94.1	159.8	487.5	292.0	58.0	8.2	2.0	2.2	
8	0.0	0.0	0.0	6.0	99.4	164.3	557.2	283.6	55.8	7.8	1.9	2.3	
9	0.0	0.0	0.0	7.0	106.5	167.9	627.0	272.4	52.0	6.8	1.8	2.2	
10	0.0	0.0	0.0	10.5	115.1	173.3	688.2	264.0	45.0	5.7	1.8	2.2	
11	0.0	0.0	0.0	12.8	123.8	185.9	704.4	254.2	30.7	5.2	1.8	2.2	
12	0.0	0.0	0.0	13.7	134.3	198.0	704.4	246.1	27.0	4.8	1.8	2.6	
13	0.0	0.0	0.0	14.3	145.5	210.0	699.0	237.0	27.0	4.2	1.8	2.4	
14	0.0	0.0	0.0	14.9	157.2	219.5	677.4	229.8	27.0	4.1	1.7	2.3	
15	0.0	0.0	0.0	18.6	164.3	226.2	657.0	222.8	27.0	4.0	1.6	2.2	
16	0.0	0.0	0.0	19.8	169.7	234.6	632.0	215.1	27.0	4.0	1.6	2.0	
17	0.0	0.0	0.0	21.4	167.9	237.0	609.4	208.0	26.2	3.8	1.5	1.8	
18	0.0	0.0	0.0	30.7	164.3	242.2	588.4	201.0	25.2	3.8	1.5	1.7	
19	0.0	0.0	0.0	45.5	156.4	243.5	568.6	196.0	23.9	3.8	1.5	1.5	
20	0.0	0.0	0.0	59.7	150.8	246.1	553.4	190.4	22.2	3.6	1.5	1.4	
21	0.0	0.0	0.0	76.9	147.0	251.4	538.3	182.3	20.6	3.6	1.4	1.3	
22	0.0	0.0	0.0	87.7	142.5	265.4	523.5	175.1	19.0	3.6	1.3	1.2	
23	0.0	0.0	0.0	90.9	138.7	282.2	501.5	167.0	16.9	3.5	1.2	1.1	
24	0.0	0.0	0.0	98.0	135.7	299.0	480.5	160.7	15.2	3.4	1.2	1.1	
25	0.0	0.0	0.0	100.0	132.7	311.4	461.0	150.8	14.0	3.4	1.2	1.0	
26	0.0	0.0	0.0	97.4	133.5	324.0	440.0	142.5	13.1	3.2	1.2	0.9	
27	0.0	0.0	0.0	94.1	134.3	332.0	427.0	135.0	12.5	3.2	1.2	0.9	
28	0.0	0.0	0.0	90.9	134.3	336.0	419.2	124.5	12.0	3.0	1.1	0.9	
29	0.0	0.0	0.0	88.3	132.0	340.0	403.6	113.7	11.3	3.0	1.1	0.9	
30	0.0	0.0	0.0	86.3	128.3	346.0	388.0	90.9	10.7	2.9		0.9	
31		0.0		81.8	125.2		373.6		9.7	2.8		0.9	
Total	0.0	0.0	0.0	1272.2	3935.6	6829.3	15969.9	6725.1	997.2	160.6	49.3	48.6	35987.8 CMSDAY
Mean	0.0	0.0	0.0	41.0	127.0	227.6	515.2	224.2	32.2	5.2	1.7	1.6	98.3 CMS
Max	0.0	0.0	0.0	100.0	169.7	346.0	704.4	356.0	76.9	9.7	2.8	2.6	704.4 CMS
Min	0.0	0.0	0.0	0.0	78.7	123.0	352.0	90.9	9.7	2.8	1.1	0.9	0.0 CMS
Runoff	0.00	0.00	0.00	109.92	340.04	590.05	1379.80	581.05	86.16	13.88	4.26	4.20	3109.35 MCM

Momentary Peak 704.40 CMS, at 130.16 M (MSL), at 6.00 Hours, on Oct 11, 1995
Runoff Yield 3.48 Liters/Second/Square KM, Momentary Peak Yield 24.912 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

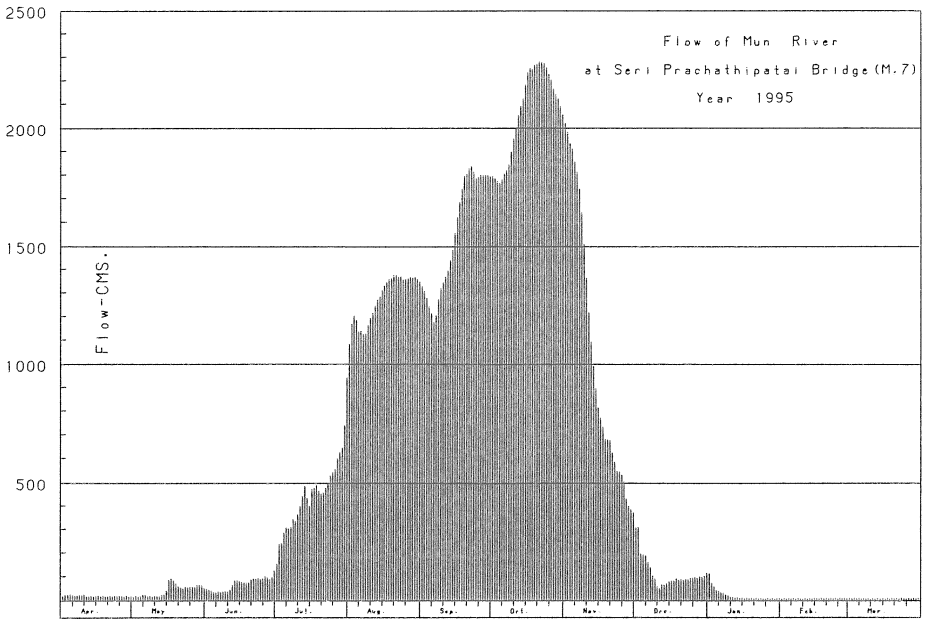
Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M.7)

Location	Lat. 15-13-17 N., Long. 104-51-39 E., on left bank at the Seri Prachathipatai 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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1944 to date.
Rating Operation	
Period of Rating	1956 - 1958, 1964 - 1981, 1983 to date.
Rated by Float	-
Rated by Current Meter	1956 - 1958, 1964 - 1981, 1983 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Pak Mun Dam. Stage-discharge relation defined by 24 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.59	106.56	106.75	107.26	109.61	110.06	110.84	111.19	107.98	107.82	106.61	106.65	
2	106.61	106.57	106.74	107.53	109.77	110.02	110.83	111.13	107.98	107.71	106.61	106.65	
3	106.63	106.58	106.71	107.55	109.83	109.97	110.81	111.06	107.94	107.64	106.62	106.65	
4	106.63	106.59	106.69	107.69	109.80	109.90	110.80	111.02	107.93	107.55	106.63	106.65	
5	106.63	106.63	106.68	107.77	109.71	109.85	110.82	110.94	107.93	107.44	106.63	106.65	
6	106.60	106.62	106.69	107.75	109.71	109.78	110.86	110.87	107.89	107.35	106.63	106.63	
7	106.62	106.60	106.69	107.78	109.69	109.83	110.88	110.76	107.86	107.25	106.63	106.62	
8	106.62	106.59	106.69	107.89	109.69	109.96	110.92	110.59	107.80	107.15	106.64	106.62	
9	106.63	106.59	106.71	107.86	109.76	110.04	111.00	110.37	107.77	107.01	106.64	106.61	
10	106.63	106.59	106.69	107.95	109.81	110.09	111.09	110.12	107.64	106.91	106.63	106.61	
11	106.60	106.60	106.74	108.08	109.85	110.13	111.15	109.86	107.62	106.78	106.63	106.61	
12	106.60	106.60	106.83	108.19	109.91	110.18	111.24	109.63	107.67	106.76	106.63	106.61	
13	106.60	106.62	106.94	108.31	109.95	110.25	111.29	109.43	107.68	106.73	106.63	106.61	
14	106.60	106.64	106.93	108.17	109.98	110.33	111.34	109.24	107.69	106.71	106.63	106.61	
15	106.60	106.71	106.92	108.08	110.03	110.44	111.42	109.08	107.73	106.68	106.63	106.61	
16	106.60	106.95	106.90	108.27	110.06	110.56	111.50	108.99	107.73	106.67	106.64	106.62	
17	106.60	106.97	106.89	108.29	110.09	110.66	111.52	108.91	107.74	106.67	106.65	106.62	
18	106.60	106.94	106.89	108.31	110.11	110.76	111.52	108.79	107.76	106.67	106.66	106.63	
19	106.60	106.86	106.90	108.26	110.12	110.84	111.54	108.79	107.75	106.65	106.66	106.63	
20	106.60	106.80	106.95	108.22	110.14	110.86	111.55	108.78	107.75	106.65	106.66	106.63	
21	106.60	106.79	106.98	108.24	110.14	110.89	111.56	108.66	107.75	106.65	106.66	106.63	
22	106.60	106.77	106.98	108.29	110.13	110.91	111.56	108.56	107.75	106.64	106.66	106.63	
23	106.60	106.79	106.98	108.33	110.13	110.87	111.55	108.47	107.76	106.63	106.65	106.64	
24	106.59	106.79	106.97	108.42	110.11	110.83	111.53	108.46	107.77	106.63	106.65	106.64	
25	106.59	106.79	106.97	108.45	110.11	110.84	111.49	108.43	107.78	106.62	106.65	106.63	
26	106.58	106.79	107.02	108.48	110.12	110.85	111.45	108.35	107.78	106.62	106.65	106.63	
27	106.58	106.80	107.00	108.60	110.13	110.85	111.40	108.17	107.78	106.62	106.65	106.63	
28	106.60	106.83	106.95	108.66	110.12	110.85	111.36	108.07	107.79	106.62	106.65	106.63	
29	106.58	106.85	107.01	108.71	110.13	110.85	111.34	108.03	107.79	106.61	106.64	106.63	
30	106.57	106.82	107.14	108.92	110.11	110.84	111.29	107.98	107.80	106.61		106.63	
31		106.78		109.33	110.09		111.24		107.82	106.61		106.63	
Mean	106.60	106.72	106.86	108.18	109.97	110.44	111.25	109.42	107.79	106.89	106.64	106.63	
Max	106.63	106.97	107.14	109.33	110.14	110.91	111.56	111.19	107.98	107.82	106.66	106.65	111.56
Min	106.57	106.56	106.68	107.26	109.61	109.78	110.80	107.98	107.62	106.61	106.61	106.61	106.56

Annual Max Momentary Gage Height 111.56 M (MSL), at 6.00 Hours, on Oct 21, 1995
Zero Gage at Bottom Elevation 105.00 M (MSL), River Bed 100.94 M (MSL)
Left Bank Elevation 120.78 M (MSL)
Right Bank Elevation 117.31 M (MSL), Drainage Area 106673 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.5	18.0	50.0	158.0	1085.5	1333.0	1796.0	2023.5	312.0	118.0	10.3	11.5	
2	22.0	18.5	48.0	239.0	1173.5	1311.0	1789.5	1984.5	312.0	78.0	10.3	11.5	
3	26.0	19.0	42.0	245.0	1206.5	1283.5	1776.5	1939.0	202.0	60.0	10.6	11.5	
4	26.0	19.5	38.0	287.0	1190.0	1245.0	1770.0	1913.0	194.0	47.5	10.9	11.5	
5	26.0	26.0	36.0	311.0	1140.5	1217.5	1783.0	1861.0	194.0	42.0	10.9	11.5	
6	20.0	24.0	38.0	305.0	1140.5	1179.0	1809.0	1815.5	163.5	37.5	10.9	10.9	
7	24.0	20.0	38.0	314.0	1129.5	1206.5	1822.0	1746.0	144.0	32.5	10.9	10.6	
8	24.0	19.5	38.0	347.0	1129.5	1278.0	1848.0	1644.0	105.0	27.5	11.2	10.6	
9	26.0	19.5	42.0	338.0	1168.0	1322.0	1900.0	1512.0	96.0	22.3	11.2	10.3	
10	26.0	19.5	38.0	365.0	1195.5	1349.5	1958.5	1366.0	60.0	19.3	10.9	10.3	
11	20.0	20.0	48.0	404.0	1217.5	1371.5	1997.5	1223.0	55.0	15.4	10.9	10.3	
12	20.0	20.0	66.0	441.5	1250.5	1399.0	2058.0	1096.5	67.5	14.8	10.9	10.3	
13	20.0	24.0	88.0	489.0	1272.5	1440.0	2093.0	995.0	70.0	13.9	10.9	10.3	
14	20.0	28.0	86.0	434.5	1289.0	1488.0	2128.0	900.0	72.5	13.3	10.9	10.3	
15	20.0	42.0	84.0	404.0	1316.5	1554.0	2184.0	820.0	84.0	12.4	10.9	10.3	
16	20.0	90.0	80.0	473.0	1333.0	1626.0	2240.0	775.5	84.0	12.1	11.2	10.6	
17	20.0	94.0	78.0	481.0	1349.5	1686.0	2254.0	739.5	87.0	12.1	11.5	10.6	
18	20.0	88.0	78.0	489.0	1360.5	1746.0	2254.0	685.5	93.0	12.1	11.8	10.9	
19	20.0	72.0	80.0	469.0	1366.0	1796.0	2268.0	685.5	90.0	11.5	11.8	10.9	
20	20.0	60.0	90.0	453.0	1377.0	1809.0	2275.0	681.0	90.0	11.5	11.8	10.9	
21	20.0	58.0	96.0	461.0	1377.0	1828.5	2282.0	629.0	90.0	11.5	11.8	10.9	
22	20.0	54.0	96.0	481.0	1371.5	1841.5	2282.0	589.0	90.0	11.2	11.8	10.9	
23	20.0	58.0	96.0	497.0	1371.5	1815.5	2275.0	553.0	93.0	10.9	11.5	11.2	
24	19.5	58.0	94.0	533.0	1360.5	1789.5	2261.0	549.0	96.0	10.9	11.5	11.2	
25	19.5	58.0	94.0	545.0	1360.5	1796.0	2233.0	537.0	99.0	10.6	11.5	10.9	
26	19.0	58.0	104.0	557.0	1366.0	1802.5	2205.0	505.0	99.0	10.6	11.5	10.9	
27	19.0	60.0	100.0	605.0	1371.5	1802.5	2170.0	434.5	99.0	10.6	11.5	10.9	
28	20.0	66.0	90.0	629.0	1366.0	1802.5	2142.0	401.0	102.0	10.6	11.5	10.9	
29	19.0	70.0	102.0	649.5	1371.5	1802.5	2128.0	389.0	102.0	10.3	11.2	10.9	
30	18.5	64.0	128.0	744.0	1360.5	1796.0	2093.0	374.0	105.0	10.3		10.9	
31		56.0		945.0	1349.5		2058.0		118.0	10.3		10.9	
Total	634.0	1401.5	2186.0	14093.5	39717.0	46717.5	64133.0	31366.5	3668.5	731.5	324.5	336.1	205309.6 CMSDAY
Mean	21.1	45.2	72.9	454.6	1281.2	1557.3	2068.8	1045.6	118.3	23.6	11.2	10.8	561.0 CMS
Max	26.0	94.0	128.0	945.0	1377.0	1841.5	2282.0	2023.5	312.0	118.0	11.8	11.5	2282.0 CMS
Min	18.5	18.0	36.0	158.0	1085.5	1179.0	1770.0	374.0	55.0	10.3	10.3	10.3	10.3 CMS
Runoff	54.78	121.09	188.87	1217.68	3431.55	4036.39	5541.09	2710.07	316.96	63.20	28.04	29.04	17738.75 MCM

Momentary Peak 2282.00 CMS, at 111.56 M (MSL), at 6.00 Hours, on Oct 21, 1995
Runoff Yield 5.26 Liters/Second/Square KM, Momentary Peak Yield 21.392 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

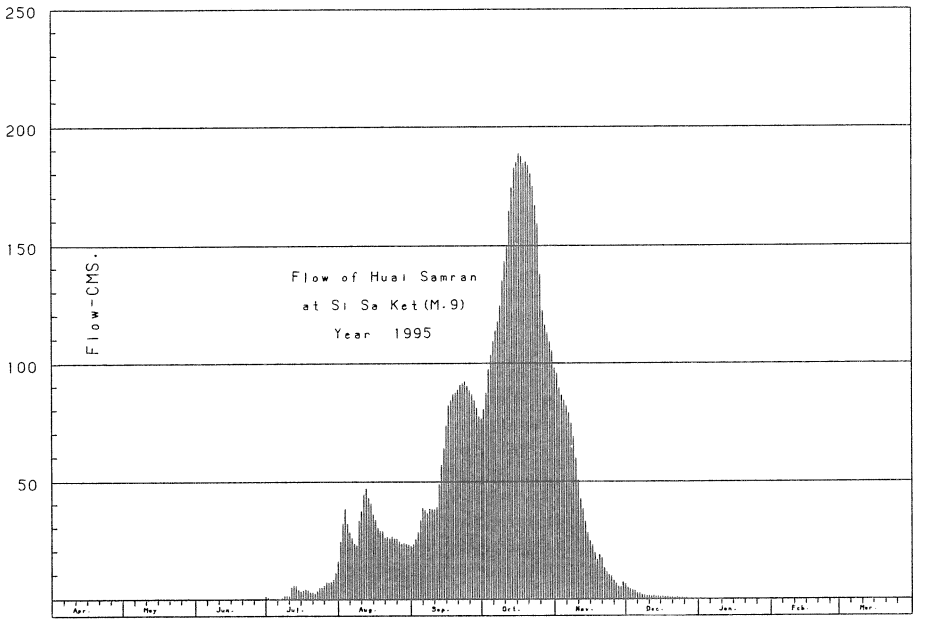
Huai Samran at Muang, Si Sa Ket (M.9)

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 with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.07	109.02	109.16	109.37	112.67	112.57	115.08	115.62	110.46	109.33	109.18	109.20	
2	109.16	109.02	109.13	109.30	113.12	112.74	115.33	115.40	110.34	109.29	109.16	109.20	
3	109.06	109.05	109.13	109.27	113.42	112.91	115.67	115.30	110.28	109.26	109.20	109.21	
4	109.05	109.03	109.12	109.30	113.13	113.20	115.89	115.22	110.20	109.24	109.19	109.20	
5	109.02	109.11	109.12	109.28	112.92	113.44	116.09	115.14	110.01	109.26	109.19	109.21	
6	109.02	109.05	109.12	109.26	112.76	113.39	116.23	115.03	109.92	109.25	109.17	109.21	
7	109.04	109.02	109.11	109.34	112.61	113.34	116.37	114.88	109.83	109.26	109.17	109.21	
8	109.04	109.08	109.10	109.71	112.54	113.41	116.58	114.66	109.75	109.25	109.19	109.22	
9	109.08	109.11	109.12	109.63	113.19	113.42	116.92	114.32	109.71	109.24	109.21	109.21	
10	109.01	109.19	109.12	109.62	113.37	113.40	117.17	113.95	109.68	109.23	109.23	109.21	
11	109.04	109.17	109.16	110.48	113.69	113.45	117.39	113.62	109.68	109.24	109.27	109.21	
12	108.98	109.05	109.11	110.59	113.82	113.89	117.83	113.41	109.67	109.24	109.26	109.21	
13	108.99	109.20	109.12	110.55	113.64	114.20	118.12	113.17	109.64	109.25	109.20	109.21	
14	108.99	109.28	109.12	110.32	113.52	114.48	118.38	112.90	109.58	109.23	109.21	109.21	
15	109.07	109.37	109.09	110.17	113.32	114.84	118.45	112.70	109.58	109.22	109.21	109.21	
16	109.02	109.11	109.08	110.19	113.19	115.14	118.56	112.56	109.57	109.24	109.20	109.21	
17	108.98	109.06	109.07	110.33	113.03	115.22	118.53	112.33	109.55	109.31	109.21	109.20	
18	108.97	109.03	109.06	110.21	112.94	115.30	118.43	112.04	109.53	109.25	109.22	109.20	
19	108.98	109.14	109.05	110.08	112.95	115.33	118.46	112.27	109.51	109.23	109.20	109.21	
20	109.07	109.08	109.06	110.01	112.79	115.37	118.41	112.12	109.49	109.21	109.20	109.22	
21	109.06	109.04	109.08	109.94	112.79	115.44	118.31	111.65	109.47	109.20	109.19	109.21	
22	109.02	109.02	109.07	110.21	112.76	115.47	118.14	111.40	109.45	109.22	109.19	109.20	
23	109.07	109.02	109.05	110.40	112.80	115.49	117.90	111.29	109.44	109.22	109.20	109.19	
24	109.06	109.01	109.09	110.45	112.76	115.43	117.66	111.18	109.43	109.21	109.20	109.20	
25	109.03	109.01	109.14	110.55	112.74	115.36	117.00	110.94	109.39	109.22	109.21	109.20	
26	109.01	109.06	109.28	110.77	112.66	115.30	116.52	110.71	109.38	109.21	109.21	109.20	
27	109.01	109.05	109.24	110.80	112.61	115.22	116.32	110.53	109.35	109.20	109.20	109.22	
28	109.01	109.36	109.20	110.85	112.61	115.11	116.20	110.47	109.31	109.19	109.20	109.21	
29	109.03	109.27	109.27	110.95	112.60	114.97	116.08	110.83	109.29	109.19	109.21	109.22	
30	109.04	109.23	109.65	111.38	112.56	114.95	115.94	110.68	109.29	109.20		109.21	
31		109.20		111.96	112.54		115.69		109.29	109.22		109.20	
Mean	109.03	109.11	109.14	110.17	112.97	114.39	117.09	112.88	109.65	109.24	109.20	109.21	
Max	109.16	109.37	109.65	111.96	113.82	115.49	118.56	115.62	110.46	109.33	109.27	109.22	118.56
Min	108.97	109.01	109.05	109.26	112.54	112.57	115.08	110.47	109.29	109.19	109.16	109.19	108.97

Annual Max Momentary Gage Height 118.57 M (MSL), at 15.00 Hours, on Oct 16, 1995
Zero Gage at Bottom Elevation 109.00 M (MSL), River Bed 108.95 M (MSL)
Left Bank Elevation 120.73 M (MSL)
Right Bank Elevation 123.34 M (MSL), Drainage Area 3026 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.2	0.1	0.3	0.7	24.6	23.2	80.4	96.1	5.2	0.6	0.3	0.3	
2	0.3	0.1	0.2	0.5	32.2	25.6	87.7	89.7	4.4	0.5	0.3	0.3	
3	0.2	0.2	0.2	0.4	38.4	28.4	97.5	86.8	4.1	0.4	0.3	0.3	
4	0.2	0.1	0.2	0.5	32.4	33.8	103.9	84.5	3.7	0.4	0.3	0.3	
5	0.1	0.2	0.2	0.5	28.6	38.9	109.7	82.2	2.8	0.4	0.3	0.3	
6	0.1	0.2	0.2	0.4	25.9	37.8	113.9	79.0	2.5	0.4	0.3	0.3	
7	0.1	0.1	0.2	0.6	23.7	36.7	118.1	74.9	2.1	0.4	0.3	0.3	
8	0.1	0.2	0.2	1.6	22.8	38.2	124.4	69.0	1.8	0.4	0.3	0.3	
9	0.2	0.2	0.2	1.4	33.6	38.4	135.2	60.1	1.6	0.4	0.3	0.3	
10	0.1	0.3	0.2	1.4	37.3	38.0	143.2	50.5	1.5	0.4	0.4	0.3	
11	0.1	0.3	0.3	5.3	44.4	39.1	150.3	42.8	1.5	0.4	0.4	0.3	
12	0.1	0.2	0.2	5.9	47.3	49.0	164.8	38.2	1.5	0.4	0.4	0.3	
13	0.1	0.3	0.2	5.7	43.3	57.0	174.4	33.2	1.4	0.4	0.3	0.3	
14	0.1	0.5	0.2	4.3	40.6	64.3	182.9	28.2	1.2	0.4	0.3	0.3	
15	0.2	0.7	0.2	3.5	36.2	73.8	185.2	25.0	1.2	0.3	0.3	0.3	
16	0.1	0.2	0.2	3.7	33.6	82.2	188.9	23.0	1.2	0.4	0.3	0.3	
17	0.1	0.2	0.2	4.4	30.5	84.5	187.9	19.9	1.2	0.5	0.3	0.3	
18	0.1	0.1	0.2	3.7	28.9	86.8	184.6	16.8	1.1	0.4	0.3	0.3	
19	0.1	0.2	0.2	3.1	29.1	87.7	185.6	19.1	1.0	0.4	0.3	0.3	
20	0.2	0.2	0.2	2.8	26.3	88.8	183.9	17.5	1.0	0.3	0.3	0.3	
21	0.2	0.1	0.2	2.6	26.3	90.9	180.6	13.5	0.9	0.3	0.3	0.3	
22	0.1	0.1	0.2	3.7	25.9	91.7	175.0	11.5	0.9	0.3	0.3	0.3	
23	0.2	0.1	0.2	4.8	26.5	92.3	167.1	10.6	0.9	0.3	0.3	0.3	
24	0.2	0.1	0.2	5.1	25.9	90.6	159.2	9.9	0.8	0.3	0.3	0.3	
25	0.1	0.1	0.2	5.7	25.6	88.5	137.8	8.2	0.7	0.3	0.3	0.3	
26	0.1	0.2	0.5	7.0	24.4	86.8	122.6	6.7	0.7	0.3	0.3	0.3	
27	0.1	0.2	0.4	7.2	23.7	84.5	116.6	5.6	0.6	0.3	0.3	0.3	
28	0.1	0.6	0.3	7.5	23.7	81.3	113.0	5.2	0.5	0.3	0.3	0.3	
29	0.1	0.4	0.4	8.2	23.6	77.4	109.4	7.4	0.5	0.3	0.3	0.3	
30	0.1	0.4	1.5	11.3	23.0	76.8	105.4	6.5	0.5	0.3		0.3	
31		0.3		16.0	22.8		98.1		0.5	0.3		0.3	
Total	4.1	7.2	8.3	129.5	931.1	1913.0	4387.3	1121.6	49.5	11.5	9.0	9.3	8581.4 CMSDAY
Mean	0.1	0.2	0.3	4.2	30.0	63.8	141.5	37.4	1.6	0.4	0.3	0.3	23.4 CMS
Max	0.3	0.7	1.5	16.0	47.3	92.3	188.9	96.1	5.2	0.6	0.4	0.3	188.9 CMS
Min	0.1	0.1	0.2	0.4	22.8	23.2	80.4	5.2	0.5	0.3	0.3	0.3	0.1 CMS
Runoff	0.35	0.62	0.72	11.19	80.45	165.28	379.06	96.91	4.28	0.99	0.78	0.80	741.43 MCM

Momentary Peak 189.21 CMS, at 118.57 M (MSL), at 15.00 Hours, on Oct 16, 1995

Runoff Yield 7.75 Liters/Second/Square KM, Momentary Peak Yield 62.528 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

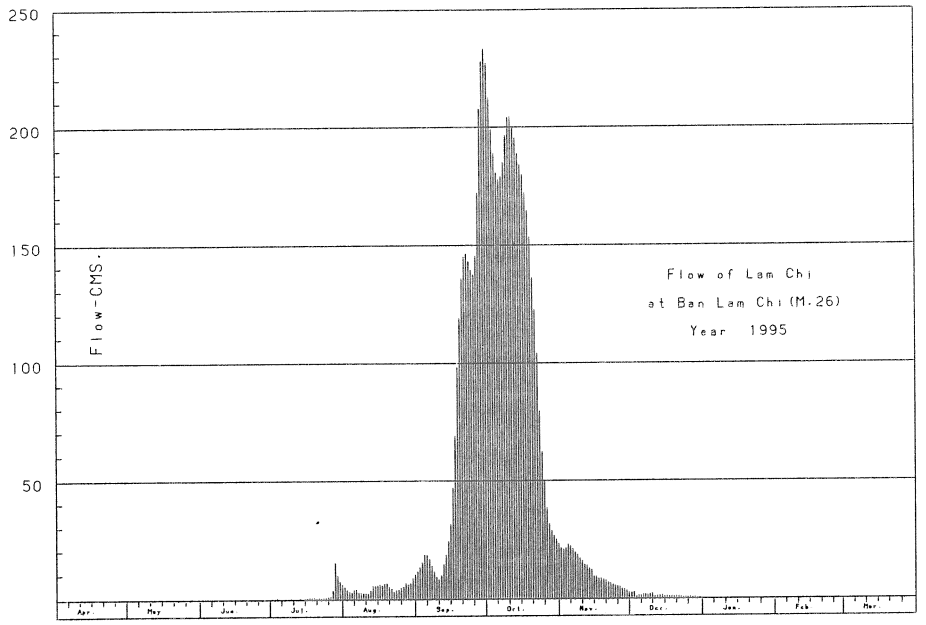
Lam Chi at Ban Lam Chi, Surin (M.26)

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 with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation +135.39 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	127.50	127.49	127.46	127.56	128.53	129.43	137.21	130.23	128.06	127.56	127.53	127.58	
2	127.50	127.49	127.46	127.59	128.39	129.56	136.89	130.17	128.16	127.50	127.53	127.58	
3	127.51	127.50	127.47	127.68	128.20	129.77	136.57	130.23	127.80	127.50	127.56	127.59	
4	127.51	127.49	127.47	127.58	128.18	130.00	136.31	130.34	127.86	127.50	127.57	127.60	
5	127.54	127.49	127.47	127.58	128.36	130.01	136.11	130.29	127.86	127.50	127.58	127.61	
6	127.54	127.52	127.47	127.58	128.36	129.88	136.03	130.20	127.94	127.50	127.59	127.62	
7	127.54	127.54	127.47	127.58	128.16	129.63	136.07	130.10	127.96	127.50	127.59	127.62	
8	127.54	127.54	127.46	127.55	128.11	129.40	136.22	130.00	127.88	127.50	127.55	127.56	
9	127.54	127.54	127.46	127.61	128.11	129.18	136.50	129.89	128.00	127.50	127.55	127.48	
10	127.55	127.56	127.46	127.56	128.06	129.01	136.70	129.80	128.02	127.52	127.54	127.49	
11	127.55	127.56	127.45	127.56	128.04	129.24	136.70	129.67	127.80	127.52	127.54	127.49	
12	127.55	127.55	127.43	127.59	128.33	129.69	136.60	129.64	127.79	127.53	127.56	127.50	
13	127.56	127.54	127.44	127.62	128.62	130.00	136.47	129.54	127.87	127.53	127.57	127.50	
14	127.56	127.58	127.44	127.60	128.65	130.46	136.31	129.47	127.89	127.53	127.56	127.50	
15	127.55	127.54	127.43	127.61	128.69	130.94	136.19	129.20	127.81	127.55	127.54	127.48	
16	127.49	127.52	127.44	127.68	128.71	131.77	136.09	129.18	127.79	127.56	127.54	127.48	
17	127.46	127.52	127.44	127.68	128.68	132.76	135.89	129.08	127.79	127.56	127.57	127.48	
18	127.46	127.53	127.44	127.70	128.75	133.82	135.71	129.06	127.77	127.56	127.61	127.48	
19	127.48	127.54	127.45	127.70	128.80	134.46	135.42	129.03	127.77	127.57	127.66	127.48	
20	127.48	127.54	127.47	127.67	128.54	134.97	134.98	128.95	127.78	127.57	127.63	127.48	
21	127.49	127.55	127.47	127.68	128.41	135.21	134.57	128.85	127.78	127.57	127.60	127.47	
22	127.47	127.52	127.47	127.67	128.23	135.25	134.01	128.78	127.73	127.57	127.58	127.46	
23	127.47	127.50	127.51	127.64	128.31	135.17	133.15	128.71	127.69	127.59	127.56	127.46	
24	127.48	127.53	127.51	127.73	128.39	135.07	132.50	128.63	127.70	127.60	127.56	127.48	
25	127.48	127.56	127.52	127.78	128.48	135.02	131.90	128.60	127.70	127.54	127.57	127.48	
26	127.49	127.55	127.52	127.79	128.58	135.22	131.33	128.51	127.70	127.54	127.57	127.49	
27	127.50	127.55	127.52	128.33	128.82	135.89	130.96	128.42	127.70	127.55	127.58	127.50	
28	127.51	127.55	127.52	129.76	128.70	136.78	130.75	128.37	127.70	127.57	127.58	127.50	
29	127.50	127.46	127.54	129.23	128.81	137.23	130.62	128.29	127.66	127.56	127.58	127.54	
30	127.50	127.46	127.56	128.93	129.08	137.34	130.49	128.11	127.62	127.54		127.50	
31		127.46		128.70	129.28		130.36		127.62	127.54		127.50	
Mean	127.51	127.52	127.47	127.86	128.50	132.41	134.70	129.31	127.81	127.54	127.57	127.52	
Max	127.56	127.58	127.56	129.76	129.28	137.34	137.21	130.34	128.16	127.60	127.66	127.62	137.34
Min	127.46	127.46	127.43	127.55	128.04	129.01	130.36	128.11	127.62	127.50	127.53	127.46	127.43

Annual Max Momentary Gage Height 137.36 M (MSL), at 24.00 Hours, on Sep 29, 1995
Zero Gage at Bottom Elevation 127.00 M (MSL), River Bed 127.06 M (MSL)
Left Bank Elevation 137.32 M (MSL)
Right Bank Elevation 135.38 M (MSL), Drainage Area 2927 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.2	0.2	0.1	0.4	5.2	12.0	227.2	21.8	2.6	0.4	0.3	0.4	
2	0.2	0.2	0.1	0.5	4.3	13.5	212.6	21.0	3.1	0.2	0.3	0.4	
3	0.2	0.2	0.1	0.8	3.3	15.8	199.4	21.8	1.3	0.2	0.4	0.5	
4	0.2	0.2	0.1	0.4	3.2	18.8	189.0	23.2	1.6	0.2	0.4	0.5	
5	0.3	0.2	0.1	0.4	4.2	18.9	181.0	22.6	1.6	0.2	0.4	0.5	
6	0.3	0.3	0.1	0.4	4.2	17.2	177.8	21.4	2.0	0.2	0.5	0.6	
7	0.3	0.3	0.1	0.4	3.1	14.2	179.4	20.1	2.1	0.2	0.5	0.6	
8	0.3	0.3	0.1	0.4	2.8	11.7	185.4	18.8	1.7	0.2	0.4	0.4	
9	0.3	0.3	0.1	0.5	2.8	9.6	196.6	17.4	2.3	0.2	0.4	0.2	
10	0.4	0.4	0.1	0.4	2.6	8.4	204.6	16.2	2.4	0.3	0.3	0.2	
11	0.4	0.4	0.1	0.4	2.5	10.2	204.6	14.7	1.3	0.3	0.3	0.2	
12	0.4	0.4	0.1	0.5	4.0	14.9	200.6	14.3	1.3	0.3	0.4	0.2	
13	0.4	0.3	0.1	0.6	5.7	18.8	195.4	13.2	1.6	0.3	0.4	0.2	
14	0.4	0.4	0.1	0.5	5.9	24.8	189.0	12.5	1.7	0.3	0.4	0.2	
15	0.4	0.3	0.1	0.5	6.1	31.8	184.2	9.8	1.3	0.4	0.3	0.2	
16	0.2	0.3	0.1	0.8	6.3	47.4	180.2	9.6	1.3	0.4	0.3	0.2	
17	0.1	0.3	0.1	0.8	6.1	69.2	172.2	8.9	1.3	0.4	0.4	0.2	
18	0.1	0.3	0.1	0.9	6.6	98.5	165.0	8.7	1.2	0.4	0.5	0.2	
19	0.2	0.3	0.1	0.9	6.9	119.0	153.4	8.5	1.2	0.4	0.7	0.2	
20	0.2	0.3	0.1	0.8	5.2	136.0	136.3	7.9	1.2	0.4	0.6	0.2	
21	0.2	0.4	0.1	0.8	4.5	145.0	122.6	7.3	1.2	0.4	0.5	0.1	
22	0.1	0.3	0.1	0.8	3.4	146.6	104.3	6.8	1.0	0.4	0.4	0.1	
23	0.1	0.2	0.2	0.7	3.9	143.4	79.6	6.3	0.9	0.5	0.4	0.1	
24	0.2	0.3	0.2	1.0	4.3	139.5	62.6	5.8	0.9	0.5	0.4	0.2	
25	0.2	0.4	0.3	1.2	4.9	137.7	50.0	5.6	0.9	0.3	0.4	0.2	
26	0.2	0.4	0.3	1.3	5.5	145.4	38.6	5.1	0.9	0.3	0.4	0.2	
27	0.2	0.4	0.3	4.0	7.0	172.2	32.1	4.5	0.9	0.4	0.4	0.2	
28	0.2	0.4	0.3	15.7	6.2	208.0	29.0	4.2	0.9	0.4	0.4	0.2	
29	0.2	0.1	0.3	10.1	7.0	228.1	27.1	3.7	0.7	0.4	0.4	0.3	
30	0.2	0.1	0.4	7.8	8.9	233.3	25.3	2.8	0.6	0.3		0.2	
31		0.1		6.2	10.5		23.5		0.6	0.3		0.2	
Total	7.3	9.0	4.5	60.9	157.1	2409.9	4328.6	364.5	43.6	10.1	11.9	8.3	7415.7 CMSDAY
Mean	0.2	0.3	0.2	2.0	5.1	80.3	139.6	12.1	1.4	0.3	0.4	0.3	20.3 CMS
Max	0.4	0.4	0.4	15.7	10.5	233.3	227.2	23.2	3.1	0.5	0.7	0.6	233.3 CMS
Min	0.1	0.1	0.1	0.4	2.5	8.4	23.5	2.8	0.6	0.2	0.3	0.1	0.1 CMS
Runoff	0.63	0.78	0.39	5.26	13.57	208.22	373.99	31.49	3.77	0.87	1.03	0.72	640.72 MCM

Momentary Peak 234.22 CMS, at 137.36 M (MSL), at 24.00 Hours, on Sep 29, 1995

Runoff Yield 6.92 Liters/Second/Square KM, Momentary Peak Yield 80.021 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

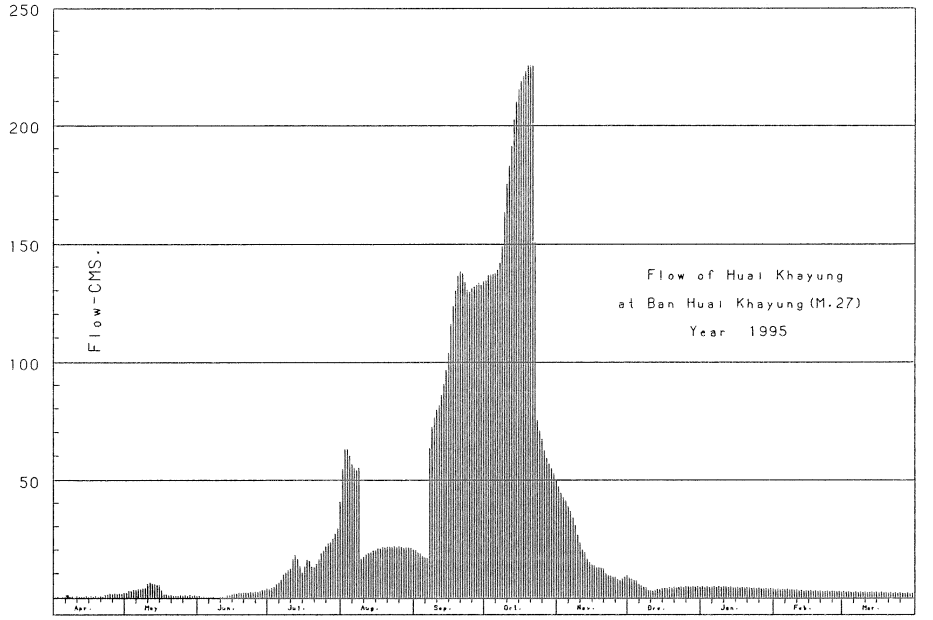
Huai Khayung at Ban Huai Khayung, Ubon Ratchathani (M.27)

Location	Lat. 15-06-26 N., Long. 104-41-02 E., on right bank at the bridge on highway, Amphoe Warin Chamrap, M. Ubon Ratchthani.
Drainage Area	3,344 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 downstream at the abutment of the bridge.
Elevation	+125.336 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	1995 to date.
Rated by Float	-
Rated by Current Meter	1995 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 Mun River. Stage-discharge relation defined by 21 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	112.88	113.74	113.05	114.04	116.94	117.36	118.62	119.17	115.72	114.86	114.56	114.13	
2	112.89	113.85	112.99	114.10	117.15	117.27	118.65	119.07	115.59	114.86	114.54	114.12	
3	112.89	113.89	112.96	114.25	117.16	117.20	118.66	118.98	115.54	114.87	114.54	114.10	
4	112.93	113.94	112.93	114.38	117.08	117.10	118.66	118.93	115.45	114.86	114.53	114.09	
5	112.95	113.97	112.90	114.51	117.00	117.02	118.67	118.80	115.17	114.86	114.52	114.08	
6	112.97	114.02	112.88	114.67	116.95	116.96	118.69	118.68	114.93	114.86	114.52	114.07	
7	112.98	114.05	112.87	114.87	116.93	117.17	118.74	118.53	114.85	114.86	114.48	114.06	
8	113.00	114.07	112.80	114.98	116.95	117.39	118.84	118.29	114.73	114.86	114.44	114.05	
9	113.00	114.11	112.85	115.04	116.96	117.49	119.05	117.99	114.44	114.85	114.45	114.05	
10	113.02	114.42	112.88	115.08	117.03	117.56	119.21	117.68	114.28	114.85	114.42	114.05	
11	113.05	114.53	112.94	115.37	117.15	117.61	119.31	117.41	114.32	114.83	114.39	114.06	
12	113.07	114.46	113.10	115.47	117.26	117.70	119.42	117.28	114.41	114.84	114.38	114.06	
13	113.09	114.38	113.30	115.37	117.29	117.81	119.56	116.96	114.49	114.83	114.37	114.06	
14	113.08	114.36	113.37	115.15	117.34	117.93	119.65	116.75	114.54	114.80	114.37	114.05	
15	113.08	114.35	113.49	114.98	117.38	118.08	119.72	116.63	114.60	114.78	114.35	114.04	
16	113.08	113.91	113.55	115.16	117.43	118.30	119.76	116.54	114.64	114.78	114.33	114.03	
17	113.09	113.55	113.62	115.33	117.45	118.44	119.79	116.45	114.70	114.78	114.30	114.02	
18	113.09	113.44	113.66	115.32	117.49	118.55	119.81	116.41	114.75	114.76	114.29	113.99	
19	113.10	113.37	113.68	115.13	117.49	118.65	119.84	116.42	114.76	114.76	114.28	113.96	
20	113.10	113.31	113.69	115.14	117.50	118.68	119.84	116.35	114.79	114.74	114.26	113.95	
21	113.10	113.29	113.71	115.22	117.53	118.67	119.84	116.10	114.80	114.73	114.25	113.94	
22	113.34	113.27	113.73	115.36	117.51	118.61	119.82	115.93	114.83	114.71	114.23	113.92	
23	113.49	113.26	113.76	115.51	117.52	118.55	119.79	115.83	114.83	114.68	114.22	113.88	
24	113.56	113.25	113.78	115.58	117.52	118.54	119.74	115.79	114.84	114.69	114.21	113.88	
25	113.57	113.26	113.78	115.66	117.52	118.56	119.69	115.73	114.86	114.68	114.20	113.87	
26	113.57	113.27	113.83	115.72	117.49	118.57	119.61	115.54	114.86	114.65	114.18	113.87	
27	113.58	113.27	113.87	115.76	117.47	118.59	119.54	115.50	114.86	114.64	114.17	113.85	
28	113.57	113.34	113.92	115.84	117.47	118.60	119.47	115.58	114.85	114.63	114.16	113.83	
29	113.61	113.27	113.99	115.93	117.48	118.59	119.42	115.81	114.86	114.63	114.14	113.81	
30	113.65	113.24	114.06	116.06	117.45	118.61	119.35	115.88	114.86	114.62		113.80	
31		113.22		116.49	117.41		119.28		114.87	114.58		113.79	
Mean	113.18	113.73	113.40	115.21	117.30	118.01	119.36	117.03	114.84	114.77	114.35	113.98	
Max	113.65	114.53	114.06	116.49	117.53	118.68	119.84	119.17	115.72	114.87	114.56	114.13	119.84
Min	112.88	113.22	112.80	114.04	116.93	116.96	118.62	115.50	114.28	114.58	114.14	113.79	112.80

Annual Max Momentary Gage Height 119.84 M (MSL), at 12.00 Hours, on Oct 19, 1995
Zero Gage at Bottom Elevation 112.00 M (MSL), River Bed 111.83 M (MSL)
Left Bank Elevation 125.36 M (MSL)
Right Bank Elevation 125.36 M (MSL), Drainage Area 3344 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	2.26	0.67	3.70	54.90	20.10	134.70	47.25	8.60	4.74	3.78	2.66	
2	0.47	2.75	0.59	4.00	63.00	19.23	136.50	44.75	7.95	4.74	3.72	2.64	
3	0.47	2.95	0.55	4.75	63.40	18.60	137.10	42.60	7.70	4.78	3.72	2.60	
4	0.52	3.20	0.52	5.56	60.20	17.80	137.10	41.60	7.25	4.74	3.69	2.58	
5	0.54	3.35	0.48	6.48	57.00	17.16	137.70	39.00	5.98	4.74	3.66	2.56	
6	0.56	3.60	0.46	7.76	55.25	16.68	138.90	36.76	5.02	4.74	3.66	2.54	
7	0.58	3.75	0.44	9.70	54.55	63.80	142.10	34.21	4.70	4.74	3.54	2.52	
8	0.60	3.85	0.36	10.80	55.25	72.60	148.80	30.76	4.29	4.74	3.42	2.50	
9	0.60	4.05	0.42	11.60	16.68	76.60	163.50	26.87	3.42	4.70	3.45	2.50	
10	0.63	5.84	0.46	12.20	17.24	79.70	175.25	23.30	2.96	4.70	3.36	2.50	
11	0.67	6.64	0.53	16.55	18.20	81.95	182.80	20.60	3.06	4.62	3.27	2.52	
12	0.70	6.12	0.74	18.05	19.14	86.00	191.60	19.32	3.33	4.66	3.24	2.52	
13	0.73	5.56	1.04	16.55	19.41	90.95	202.80	16.68	3.57	4.62	3.21	2.52	
14	0.71	5.42	1.15	13.25	19.90	96.50	210.00	15.05	3.72	4.50	3.21	2.50	
15	0.71	5.35	1.47	10.80	20.30	104.00	215.60	14.21	3.90	4.44	3.15	2.48	
16	0.71	3.05	1.65	13.40	20.80	116.00	218.80	13.58	4.02	4.44	3.09	2.46	
17	0.73	1.65	1.86	15.95	21.00	123.90	221.20	12.95	4.20	4.44	3.00	2.44	
18	0.73	1.32	1.98	15.80	21.40	130.50	222.90	12.67	4.35	4.38	2.98	2.38	
19	0.74	1.15	2.04	12.95	21.40	136.50	225.60	12.74	4.38	4.38	2.96	2.32	
20	0.74	1.06	2.07	13.10	21.50	138.30	225.60	12.25	4.47	4.32	2.92	2.30	
21	0.74	1.02	2.14	14.30	21.80	137.70	225.60	10.60	4.50	4.29	2.90	2.28	
22	1.10	0.99	2.22	16.40	21.60	134.10	150.80	9.65	4.62	4.23	2.86	2.24	
23	1.47	0.98	2.34	18.70	21.70	130.50	75.20	9.15	4.62	4.14	2.84	2.16	
24	1.68	0.96	2.42	20.10	21.70	129.90	71.20	8.95	4.66	4.17	2.82	2.16	
25	1.71	0.98	2.42	21.70	21.70	131.10	67.40	8.65	4.74	4.14	2.80	2.14	
26	1.71	0.99	2.65	22.90	21.40	131.70	62.60	7.70	4.74	4.05	2.76	2.14	
27	1.74	0.99	2.85	23.70	21.20	132.90	59.60	7.50	4.74	4.02	2.74	2.10	
28	1.71	1.10	3.10	25.30	21.20	133.50	56.95	7.90	4.70	3.99	2.72	2.06	
29	1.83	0.99	3.45	27.10	21.30	132.90	55.20	9.05	4.74	3.99	2.68	2.02	
30	1.95	0.94	3.80	29.70	21.00	134.10	52.75	9.40	4.74	3.96		2.00	
31		0.91		40.70	20.60		50.40		4.78	3.84		1.98	
Total	28.24	83.77	46.87	483.55	935.72	2835.27	4496.25	605.70	148.45	136.98	92.15	73.32	9966.27 CMSDAY
Mean	0.94	2.70	1.56	15.60	30.18	94.51	145.04	20.19	4.79	4.42	3.18	2.37	27.23 CMS
Max	1.95	6.64	3.80	40.70	63.40	138.30	225.60	47.25	8.60	4.78	3.78	2.66	225.60 CMS
Min	0.46	0.91	0.36	3.70	16.68	16.68	50.40	7.50	2.96	3.84	2.68	1.98	0.36 CMS
Runoff	2.440	7.238	4.050	41.779	80.846	244.967	388.476	52.332	12.826	11.835	7.962	6.335	861.086 MCM

Momentary Peak 225.60 CMS, at 119.84 M (MSL), at 12.00 Hours, on Oct 19, 1995

Runoff Yield 8.14 Liters/Second/Square KM, Momentary Peak Yield 67.464 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

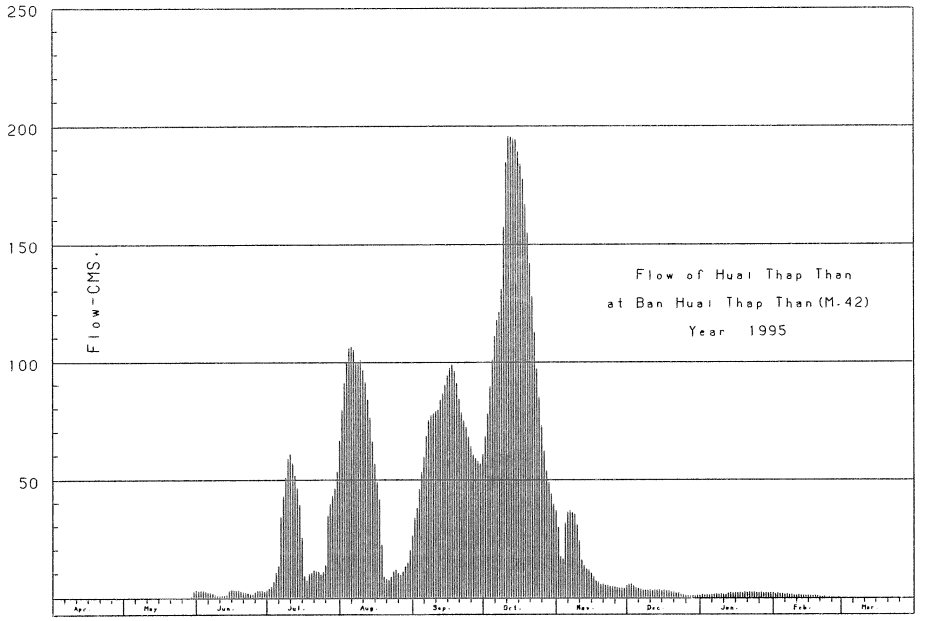
Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42)

Location	Lat. 15-02-42 N., Long. 104-01-29 E., on left bank at the bridge on highway, Amphoe Uthumphon Phisai, Si Sa Ket.
Drainage Area	1,794 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On 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 +7.70 m.(A.D.), records are channel flow only.
General Description	Records fair. Flow effected by the local weir about 1 kilometer above gage site. Stage-discharge relation defined by 21 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.37	1.09	3.35	3.39	6.95	4.18	6.42	4.11	3.48	3.20	3.25	3.05	
2	1.36	1.12	3.34	3.42	7.34	4.47	6.89	3.83	3.47	3.20	3.25	3.04	
3	1.33	1.13	3.33	3.52	7.59	5.06	7.29	3.81	3.45	3.20	3.25	3.02	
4	1.31	1.14	3.32	3.64	7.70	5.54	7.61	4.14	3.41	3.20	3.24	3.02	
5	1.30	1.15	3.29	3.73	7.72	5.96	7.81	4.35	3.40	3.20	3.23	3.01	
6	1.28	1.20	3.26	4.19	7.69	6.45	7.93	4.39	3.37	3.23	3.23	3.01	
7	1.26	1.20	3.24	4.82	7.58	6.74	7.99	4.33	3.36	3.23	3.23	3.01	
8	1.22	1.35	3.20	5.40	7.58	6.85	8.14	4.25	3.35	3.23	3.21	3.00	
9	1.20	1.60	3.16	5.90	7.60	6.88	8.49	4.13	3.36	3.23	3.20	2.99	
10	1.19	1.65	3.15	6.03	7.51	6.92	8.78	3.99	3.36	3.23	3.20	2.98	
11	1.16	2.10	3.16	5.80	7.35	6.95	8.88	3.80	3.35	3.25	3.20	2.98	
12	1.14	2.12	3.17	5.45	7.11	7.10	8.88	3.73	3.35	3.26	3.19	2.98	
13	1.10	2.11	3.18	5.09	6.80	7.20	8.87	3.70	3.36	3.27	3.19	2.97	
14	1.06	2.24	3.34	4.57	6.32	7.31	8.87	3.68	3.36	3.27	3.18	2.96	
15	1.04	2.31	3.36	4.02	5.78	7.44	8.82	3.64	3.35	3.28	3.17	2.95	
16	1.03	2.33	3.35	3.60	5.25	7.52	8.77	3.58	3.35	3.29	3.16	2.93	
17	1.00	2.32	3.35	3.53	4.75	7.56	8.71	3.53	3.34	3.29	3.15	2.92	
18	1.00	2.32	3.34	3.62	3.96	7.49	8.60	3.51	3.33	3.29	3.15	2.92	
19	1.00	2.35	3.32	3.64	3.59	7.34	8.46	3.48	3.31	3.30	3.15	2.91	
20	1.01	2.40	3.30	3.67	3.55	7.12	8.29	3.47	3.30	3.30	3.13	2.90	
21	1.01	2.39	3.28	3.66	3.54	6.90	8.10	3.46	3.28	3.30	3.12	2.87	
22	1.02	2.36	3.25	3.66	3.58	6.74	7.84	3.45	3.26	3.30	3.12	2.86	
23	1.02	2.34	3.23	3.62	3.66	6.61	7.52	3.44	3.23	3.30	3.10	2.83	
24	1.03	2.31	3.22	3.65	3.68	6.42	7.14	3.43	3.20	3.30	3.10	2.83	
25	1.03	2.38	3.29	3.74	3.64	6.20	6.64	3.43	3.18	3.30	3.09	2.83	
26	1.04	2.23	3.34	4.21	3.61	6.02	6.11	3.41	3.15	3.29	3.08	2.80	
27	1.05	2.19	3.34	4.59	3.66	5.93	5.60	3.41	3.15	3.28	3.08	2.80	
28	1.06	2.81	3.33	4.84	3.72	5.84	5.25	3.40	3.15	3.28	3.07	2.78	
29	1.07	3.11	3.31	5.08	3.77	5.78	4.92	3.40	3.16	3.28	3.06	2.77	
30	1.08	3.32	3.35	5.57	3.90	6.01	4.59	3.44	3.18	3.27		2.76	
31		3.35		6.33	4.04		4.38		3.18	3.27		2.74	
Mean	1.13	2.07	3.28	4.39	5.50	6.48	7.50	3.72	3.31	3.26	3.16	2.92	
Max	1.37	3.35	3.36	6.33	7.72	7.56	8.88	4.39	3.48	3.30	3.25	3.05	8.88
Min	1.00	1.09	3.15	3.39	3.54	4.18	4.38	3.40	3.15	3.20	3.06	2.74	1.00

Annual Max Momentary Gage Height 8.89 M (A.D), at 12.00 Hours, on Oct 11, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.42 M (A.D)
Left Bank Elevation 7.69 M (A.D)
Right Bank Elevation 9.18 M (A.D), Drainage Area 1794 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	3.3	4.0	79.9	33.9	68.5	30.1	6.0	1.4	2.0	0.3	
2	0.0	0.0	3.2	4.7	91.2	38.1	78.4	17.4	5.8	1.4	2.0	0.2	
3	0.0	0.0	3.0	7.1	100.4	46.3	89.7	16.6	5.4	1.4	2.0	0.1	
4	0.0	0.0	2.8	10.7	105.8	53.3	101.3	31.7	4.4	1.4	1.8	0.1	
5	0.0	0.0	2.4	13.6	106.8	60.0	111.3	36.6	4.2	1.4	1.7	0.1	
6	0.0	0.0	2.1	34.5	105.3	69.0	117.8	37.1	3.7	1.7	1.7	0.1	
7	0.0	0.0	1.8	43.0	99.9	75.3	121.4	36.4	3.5	1.7	1.7	0.1	
8	0.0	0.0	1.4	51.2	99.9	77.6	130.8	35.5	3.3	1.7	1.5	0.0	
9	0.0	0.0	1.0	59.0	100.8	78.2	157.6	31.2	3.5	1.7	1.4	0.0	
10	0.0	0.0	1.0	61.2	96.9	79.1	185.0	24.2	3.5	1.7	1.4	0.0	
11	0.0	0.0	1.0	57.4	91.5	79.9	195.8	16.2	3.3	2.0	1.4	0.0	
12	0.0	0.0	1.1	51.9	84.3	84.0	195.8	13.6	3.3	2.1	1.3	0.0	
13	0.0	0.0	1.2	46.8	76.5	86.9	194.7	12.5	3.5	2.2	1.3	0.0	
14	0.0	0.0	3.2	39.5	66.6	90.3	194.7	11.9	3.5	2.2	1.2	0.0	
15	0.0	0.0	3.5	25.6	57.1	94.5	189.2	10.7	3.3	2.3	1.1	0.0	
16	0.0	0.0	3.3	9.5	49.0	97.4	184.0	8.9	3.3	2.4	1.0	0.0	
17	0.0	0.0	3.3	7.4	42.0	99.1	178.0	7.4	3.2	2.4	1.0	0.0	
18	0.0	0.0	3.2	10.1	22.8	96.2	167.0	6.8	3.0	2.4	1.0	0.0	
19	0.0	0.0	2.8	10.7	9.2	91.2	155.1	6.0	2.7	2.5	1.0	0.0	
20	0.0	0.0	2.5	11.6	8.0	84.6	141.8	5.8	2.5	2.5	0.8	0.0	
21	0.0	0.0	2.3	11.3	7.7	78.6	128.0	5.6	2.3	2.5	0.7	0.0	
22	0.0	0.0	2.0	11.3	8.9	75.3	112.9	5.4	2.1	2.5	0.7	0.0	
23	0.0	0.0	1.7	10.1	11.3	72.4	97.4	5.1	1.7	2.5	0.5	0.0	
24	0.0	0.0	1.6	11.0	11.9	68.5	85.2	4.9	1.4	2.5	0.5	0.0	
25	0.0	0.0	2.4	14.0	10.7	64.3	73.1	4.9	1.2	2.5	0.5	0.0	
26	0.0	0.0	3.2	35.1	9.8	61.0	62.6	4.4	1.0	2.4	0.4	0.0	
27	0.0	0.0	3.2	39.8	11.3	59.5	54.2	4.4	1.0	2.3	0.4	0.0	
28	0.0	0.0	3.0	43.3	13.2	58.0	49.0	4.2	1.0	2.3	0.4	0.0	
29	0.0	0.6	2.7	46.6	15.1	57.1	44.4	4.2	1.0	2.3	0.3	0.0	
30	0.0	2.8	3.3	53.8	20.2	60.9	39.8	5.1	1.2	2.2		0.0	
31		3.3		66.8	26.6		37.0		1.2	2.2		0.0	
Total	0.0	6.7	72.5	902.6	1640.6	2170.5	3741.5	444.8	90.0	64.7	32.7	1.0	9167.6 CMSDAY
Mean	0.0	0.2	2.4	29.1	52.9	72.3	120.7	14.8	2.9	2.1	1.1	0.0	25.0 CMS
Max	0.0	3.3	3.5	66.8	106.8	99.1	195.8	37.1	6.0	2.5	2.0	0.3	195.8 CMS
Min	0.0	0.0	1.0	4.0	7.7	33.9	37.0	4.2	1.0	1.4	0.3	0.0	0.0 CMS
Runoff	0.00	0.58	6.26	77.98	141.75	187.53	323.27	38.43	7.78	5.59	2.83	0.09	792.08 MCM

Momentary Peak 196.90 CMS, at 8.89 M (A.D), at 12.00 Hours, on Oct 11, 1995

Runoff Yield 13.96 Liters/Second/Square KM, Momentary Peak Yield 109.755 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

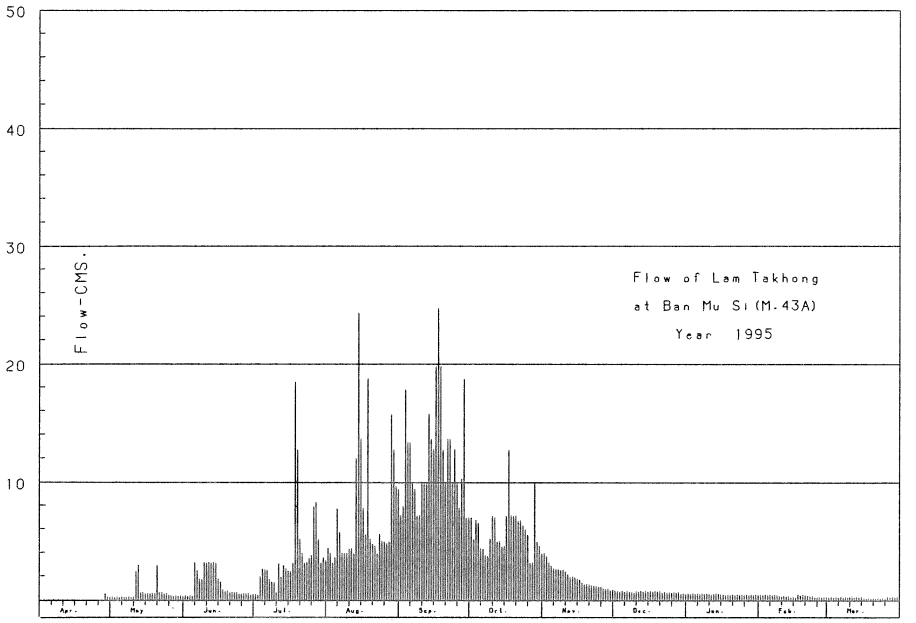
Lam Takhong at Ban Mu Si, Nakhon Ratchasima (M.43A)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.45	-0.37	-0.35	-0.32	0.06	0.20	0.19	0.04	-0.19	-0.26	-0.31	-0.38	
2	-0.45	-0.37	-0.35	-0.32	0.04	0.23	0.10	0.03	-0.20	-0.26	-0.31	-0.38	
3	-0.45	-0.37	-0.35	-0.10	0.00	0.57	0.18	0.00	-0.20	-0.27	-0.31	-0.38	
4	-0.45	-0.37	-0.35	-0.04	0.02	0.42	0.17	-0.02	-0.20	-0.27	-0.32	-0.39	
5	-0.45	-0.37	0.00	-0.05	0.22	0.42	0.06	-0.04	-0.20	-0.27	-0.32	-0.39	
6	-0.46	-0.37	-0.05	-0.05	0.13	0.30	0.06	-0.04	-0.21	-0.27	-0.32	-0.39	
7	-0.46	-0.37	-0.12	-0.12	0.04	0.28	0.03	-0.05	-0.21	-0.28	-0.32	-0.39	
8	-0.46	-0.37	-0.12	-0.13	0.04	0.20	0.03	-0.05	-0.22	-0.28	-0.33	-0.39	
9	-0.47	-0.37	0.00	-0.14	0.04	0.20	0.10	-0.05	-0.22	-0.29	-0.34	-0.39	
10	-0.47	-0.37	0.00	-0.24	0.06	0.30	0.20	-0.06	-0.21	-0.29	-0.35	-0.39	
11	-0.47	-0.06	0.00	-0.01	0.06	0.30	0.19	-0.08	-0.21	-0.29	-0.36	-0.34	
12	-0.47	-0.02	0.00	-0.10	0.04	0.30	0.09	-0.10	-0.21	-0.29	-0.36	-0.40	
13	-0.48	-0.24	0.00	-0.02	0.37	0.50	0.09	-0.10	-0.21	-0.29	-0.36	-0.40	
14	-0.48	-0.25	0.00	-0.04	0.76	0.43	0.07	-0.10	-0.21	-0.29	-0.37	-0.40	
15	-0.48	-0.26	-0.12	-0.06	0.43	0.40	0.07	-0.12	-0.21	-0.30	-0.37	-0.40	
16	-0.58	-0.26	-0.13	-0.06	0.22	0.63	0.20	-0.12	-0.21	-0.30	-0.38	-0.41	
17	-0.58	-0.26	-0.19	0.00	0.12	0.77	0.40	-0.14	-0.21	-0.30	-0.32	-0.41	
18	-0.58	-0.26	-0.20	0.59	0.60	0.63	0.20	-0.15	-0.21	-0.30	-0.32	-0.42	
19	-0.58	-0.27	-0.20	0.40	0.10	0.40	0.20	-0.15	-0.21	-0.31	-0.32	-0.42	
20	-0.58	-0.02	-0.22	0.10	0.08	0.30	0.20	-0.15	-0.21	-0.31	-0.33	-0.42	
21	-0.59	-0.23	-0.23	0.04	0.07	0.43	0.18	-0.16	-0.22	-0.31	-0.34	-0.42	
22	-0.59	-0.25	-0.24	0.00	0.04	0.43	0.18	-0.16	-0.22	-0.32	-0.36	-0.42	
23	-0.59	-0.26	-0.25	0.00	0.12	0.30	0.16	-0.17	-0.22	-0.32	-0.36	-0.42	
24	-0.59	-0.27	-0.26	0.02	0.09	0.40	0.14	-0.17	-0.22	-0.33	-0.37	-0.42	
25	-0.59	-0.32	-0.27	0.03	0.09	0.30	0.12	-0.17	-0.23	-0.33	-0.37	-0.42	
26	-0.59	-0.34	-0.27	0.23	0.08	0.22	0.00	-0.18	-0.24	-0.33	-0.37	-0.38	
27	-0.59	-0.35	-0.28	0.24	0.09	0.31	0.00	-0.18	-0.24	-0.33	-0.38	-0.38	
28	-0.26	-0.35	-0.28	0.10	0.50	0.60	0.30	-0.18	-0.25	-0.30	-0.38	-0.38	
29	-0.37	-0.35	-0.30	0.00	0.40	0.19	0.09	-0.19	-0.26	-0.30	-0.38	-0.39	
30	-0.37	-0.35	-0.31	0.02	0.29	0.19	0.07	-0.19	-0.26	-0.30		-0.39	
31		-0.35		0.01	0.28		0.04		-0.26	-0.31		-0.39	
Mean	-0.50	-0.29	-0.18	0.00	0.18	0.37	0.13	-0.11	-0.22	-0.30	-0.35	-0.40	
Max	-0.26	-0.02	0.00	0.59	0.76	0.77	0.40	0.04	-0.19	-0.26	-0.31	-0.34	0.77
Min	-0.59	-0.37	-0.35	-0.32	0.00	0.19	0.00	-0.19	-0.26	-0.33	-0.38	-0.42	-0.59

Annual Max Momentary Gage Height 0.90 M (A.D), at 12.00 Hours, on Sep 16, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.10 M (A.D)
Left Bank Elevation 4.56 M (A.D)
Right Bank Elevation 4.58 M (A.D), Drainage Area 237 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.1	0.3	0.4	0.5	4.4	7.2	7.0	4.0	0.9	0.6	0.5	0.3	
2	0.1	0.3	0.4	0.5	4.0	8.0	5.2	3.8	0.8	0.6	0.5	0.3	
3	0.1	0.3	0.4	2.0	3.2	17.9	6.8	3.2	0.8	0.6	0.5	0.3	
4	0.1	0.3	0.4	2.7	3.6	13.4	6.6	3.0	0.8	0.6	0.5	0.3	
5	0.1	0.3	3.2	2.6	7.8	13.4	4.4	2.7	0.8	0.6	0.5	0.3	
6	0.1	0.3	2.6	2.6	5.8	10.0	4.4	2.7	0.8	0.6	0.5	0.3	
7	0.1	0.3	1.8	1.8	4.0	9.4	3.8	2.6	0.8	0.6	0.5	0.3	
8	0.1	0.3	1.8	1.6	4.0	7.2	3.8	2.6	0.7	0.6	0.5	0.3	
9	0.1	0.3	3.2	1.5	4.0	7.2	5.2	2.6	0.7	0.6	0.4	0.3	
10	0.1	0.3	3.2	0.7	4.4	10.0	7.2	2.5	0.8	0.6	0.4	0.3	
11	0.1	2.5	3.2	3.1	4.4	10.0	7.0	2.2	0.8	0.6	0.4	0.4	
12	0.1	3.0	3.2	2.0	4.0	10.0	5.0	2.0	0.8	0.6	0.4	0.3	
13	0.1	0.7	3.2	3.0	12.0	15.8	5.0	2.0	0.8	0.6	0.4	0.3	
14	0.1	0.7	3.2	2.7	24.4	13.7	4.6	2.0	0.8	0.6	0.3	0.3	
15	0.1	0.6	1.8	2.5	13.7	12.8	4.6	1.8	0.8	0.5	0.3	0.3	
16	0.0	0.6	1.6	2.5	7.8	19.8	7.2	1.8	0.8	0.5	0.3	0.2	
17	0.0	0.6	0.9	3.2	5.6	24.8	12.8	1.5	0.8	0.5	0.5	0.2	
18	0.0	0.6	0.8	18.5	18.8	19.8	7.2	1.4	0.8	0.5	0.5	0.2	
19	0.0	0.6	0.8	12.8	5.2	12.8	7.2	1.4	0.8	0.5	0.5	0.2	
20	0.0	3.0	0.7	5.2	4.8	10.0	7.2	1.4	0.8	0.5	0.5	0.2	
21	0.0	0.7	0.7	4.0	4.6	13.7	6.8	1.3	0.7	0.5	0.4	0.2	
22	0.0	0.7	0.7	3.2	4.0	13.7	6.8	1.3	0.7	0.5	0.4	0.2	
23	0.0	0.6	0.7	3.2	5.6	10.0	6.4	1.2	0.7	0.5	0.4	0.2	
24	0.0	0.6	0.6	3.6	5.0	12.8	6.0	1.2	0.7	0.5	0.3	0.2	
25	0.0	0.5	0.6	3.8	5.0	10.0	5.6	1.2	0.7	0.5	0.3	0.2	
26	0.0	0.4	0.6	8.0	4.8	7.8	3.2	1.0	0.7	0.5	0.3	0.3	
27	0.0	0.4	0.6	8.3	5.0	10.3	3.2	1.0	0.7	0.5	0.3	0.3	
28	0.6	0.4	0.6	5.2	15.8	18.8	10.0	1.0	0.7	0.5	0.3	0.3	
29	0.3	0.4	0.5	3.2	12.8	7.0	5.0	0.9	0.6	0.5	0.3	0.3	
30	0.3	0.4	0.5	3.6	9.7	7.0	4.6	0.9	0.6	0.5		0.3	
31		0.4		3.4	9.4		4.0		0.6	0.5		0.3	
Total	2.7	21.4	42.9	121.5	227.6	364.3	183.8	58.2	23.3	16.9	11.9	8.4	1082.9 CMSDAY
Mean	0.1	0.7	1.4	3.9	7.3	12.1	5.9	1.9	0.8	0.5	0.4	0.3	3.0 CMS
Max	0.6	3.0	3.2	18.5	24.4	24.8	12.8	4.0	0.9	0.6	0.5	0.4	24.8 CMS
Min	0.0	0.3	0.4	0.5	3.2	7.0	3.2	0.9	0.6	0.5	0.3	0.2	0.0 CMS
Runoff	0.23	1.85	3.71	10.50	19.66	31.48	15.88	5.03	2.01	1.46	1.03	0.73	93.56 MCM

Momentary Peak 30.00 CMS, at 0.90 M (A.D), at 12.00 Hours, on Sep 16, 1995

Runoff Yield 12.48 Liters/Second/Square KM, Momentary Peak Yield 126.582 Liters/Second/Square KM

WATER YEAR 1995

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 — Stable.

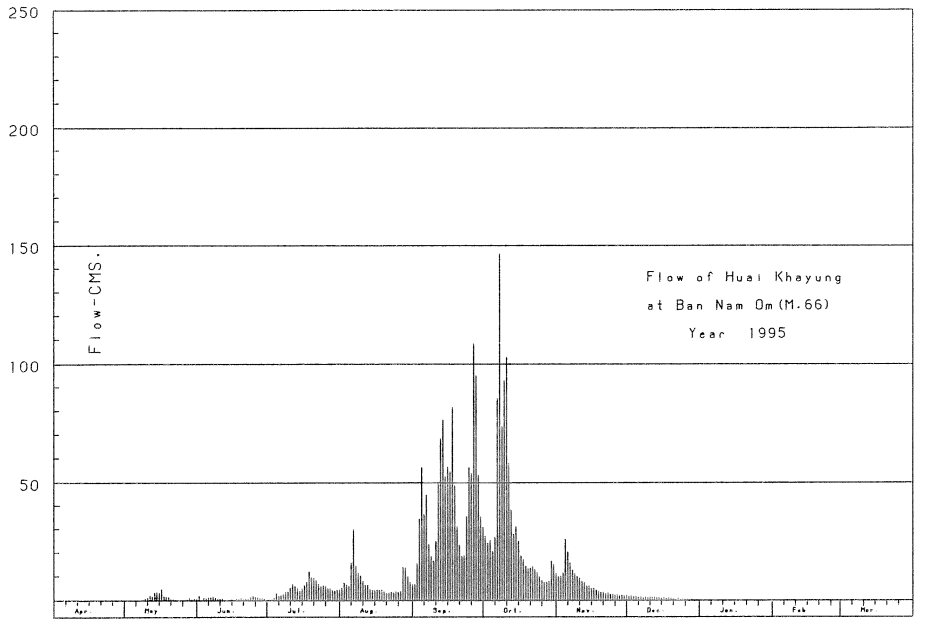
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 26 discharge discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.44	-0.54	-0.14	-0.42	0.13	0.24	1.17	0.42	-0.18	-0.44	-0.57	-0.56	
2	-0.44	-0.53	-0.43	-0.44	0.29	0.68	1.07	0.42	-0.20	-0.45	-0.57	-0.56	
3	-0.44	-0.53	-0.34	-0.27	0.21	1.42	1.11	0.50	-0.20	-0.46	-0.57	-0.56	
4	-0.44	-0.51	-0.33	-0.05	0.20	2.12	0.94	1.13	-0.22	-0.47	-0.57	-0.56	
5	-0.45	-0.50	-0.31	-0.16	0.70	1.49	1.16	0.94	-0.24	-0.48	-0.57	-0.56	
6	-0.45	-0.50	-0.25	-0.17	1.27	1.76	2.88	0.70	-0.26	-0.49	-0.56	-0.56	
7	-0.45	-0.49	-0.24	-0.07	0.65	1.06	4.18	0.56	-0.28	-0.49	-0.56	-0.56	
8	-0.45	-0.43	-0.27	0.00	0.48	0.84	2.60	0.47	-0.28	-0.49	-0.56	-0.56	
9	-0.45	-0.34	-0.33	0.03	0.44	0.75	3.05	0.42	-0.28	-0.50	-0.56	-0.56	
10	-0.45	-0.30	-0.34	0.15	0.31	1.10	3.28	0.37	-0.28	-0.50	-0.56	-0.56	
11	-0.46	-0.19	-0.38	0.23	0.23	1.92	2.16	0.32	-0.25	-0.50	-0.56	-0.56	
12	-0.46	-0.19	-0.42	0.19	0.22	2.46	1.55	0.27	-0.28	-0.50	-0.56	-0.56	
13	-0.46	0.00	-0.45	0.12	0.11	2.67	1.21	0.20	-0.28	-0.51	-0.56	-0.56	
14	-0.46	0.00	-0.42	0.05	0.07	2.00	1.31	0.18	-0.30	-0.51	-0.56	-0.56	
15	-0.46	-0.04	-0.41	0.12	0.07	2.12	1.10	0.14	-0.31	-0.51	-0.56	-0.56	
16	-0.47	0.11	-0.40	0.20	0.07	2.07	0.86	0.12	-0.31	-0.51	-0.56	-0.56	
17	-0.40	-0.18	-0.39	0.28	0.09	2.79	0.77	0.09	-0.32	-0.51	-0.56	-0.56	
18	-0.50	-0.27	-0.35	0.53	0.08	1.89	0.65	0.04	-0.33	-0.51	-0.56	-0.56	
19	-0.52	-0.25	-0.34	0.40	0.04	1.31	0.57	0.01	-0.33	-0.51	-0.56	-0.56	
20	-0.52	-0.35	-0.38	0.37	-0.05	1.05	0.60	0.00	-0.34	-0.51	-0.56	-0.56	
21	-0.53	-0.38	-0.41	0.34	0.00	0.85	0.62	-0.03	-0.37	-0.52	-0.56	-0.56	
22	-0.53	-0.42	-0.35	0.24	0.00	0.85	0.57	-0.04	-0.36	-0.52	-0.56	-0.56	
23	-0.53	-0.44	-0.30	0.19	0.01	1.46	0.49	-0.06	-0.37	-0.52	-0.56	-0.56	
24	-0.53	-0.49	-0.17	0.19	0.02	2.12	0.42	-0.08	-0.38	-0.52	-0.56	-0.56	
25	-0.54	-0.53	-0.23	0.20	0.02	2.04	0.34	-0.10	-0.39	-0.53	-0.56	-0.56	
26	-0.54	-0.49	-0.29	0.14	0.02	3.40	0.28	-0.12	-0.40	-0.53	-0.56	-0.56	
27	-0.54	-0.39	-0.32	0.12	0.62	3.11	0.30	-0.14	-0.41	-0.54	-0.56	-0.56	
28	-0.54	-0.33	-0.35	0.08	0.62	2.03	0.31	-0.14	-0.42	-0.54	-0.56	-0.56	
29	-0.54	-0.39	-0.38	0.04	0.42	1.45	0.75	-0.15	-0.42	-0.55	-0.56	-0.56	
30	-0.54	-0.38	-0.40	0.09	0.28	1.31	0.66	-0.17	-0.43	-0.55		-0.56	
31		-0.42		0.09	0.22		0.47		-0.43	-0.56		-0.56	
Mean	-0.48	-0.34	-0.34	0.09	0.25	1.68	1.21	0.21	-0.32	-0.51	-0.56	-0.56	
Max	-0.40	0.11	-0.14	0.53	1.27	3.40	4.18	1.13	-0.18	-0.44	-0.56	-0.56	4.18
Min	-0.54	-0.54	-0.45	-0.44	-0.05	0.24	0.28	-0.17	-0.43	-0.56	-0.57	-0.56	-0.57

Annual Max Momentary Gage Height 4.68 M (A.D), at 3.00 Hours, on Oct 7, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.71 M (A.D)
Left Bank Elevation 7.01 M (A.D)
Right Bank Elevation 6.33 M (A.D), Drainage Area 586 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.4	0.0	2.2	0.5	5.3	7.0	27.2	10.4	2.0	0.4	0.0	0.0	
2	0.4	0.0	0.4	0.4	7.8	15.6	24.4	10.4	1.9	0.3	0.0	0.0	
3	0.4	0.0	1.0	1.4	6.6	34.6	25.5	12.0	1.9	0.2	0.0	0.0	
4	0.4	0.0	1.1	3.0	6.4	56.7	21.0	26.0	1.7	0.2	0.0	0.0	
5	0.3	0.0	1.2	2.1	16.0	36.7	26.9	21.0	1.6	0.1	0.0	0.0	
6	0.3	0.0	1.6	2.1	30.1	44.8	85.6	16.0	1.5	0.1	0.0	0.0	
7	0.3	0.1	1.6	2.8	15.0	24.1	147.0	13.2	1.4	0.1	0.0	0.0	
8	0.3	0.4	1.4	3.5	11.6	18.8	74.0	11.4	1.4	0.1	0.0	0.0	
9	0.3	1.0	1.1	3.9	10.8	17.0	93.0	10.4	1.4	0.0	0.0	0.0	
10	0.3	1.2	1.0	5.6	8.2	25.2	103.1	9.4	1.4	0.0	0.0	0.0	
11	0.2	1.9	0.8	6.9	6.9	49.9	58.1	8.4	1.6	0.0	0.0	0.0	
12	0.2	1.9	0.5	6.2	6.7	68.6	38.5	7.5	1.4	0.0	0.0	0.0	
13	0.2	3.5	0.3	5.1	5.0	76.8	28.3	6.4	1.4	0.0	0.0	0.0	
14	0.2	3.5	0.5	4.2	4.4	52.5	31.3	6.1	1.2	0.0	0.0	0.0	
15	0.2	3.1	0.6	5.1	4.4	56.7	25.2	5.4	1.2	0.0	0.0	0.0	
16	0.2	5.0	0.6	6.4	4.4	54.9	19.2	5.1	1.2	0.0	0.0	0.0	
17	0.6	2.0	0.7	7.7	4.7	81.8	17.4	4.7	1.1	0.0	0.0	0.0	
18	0.0	1.4	0.9	12.6	4.5	48.9	15.0	4.0	1.1	0.0	0.0	0.0	
19	0.0	1.6	1.0	10.0	4.0	31.3	13.4	3.6	1.1	0.0	0.0	0.0	
20	0.0	0.9	0.8	9.4	3.0	23.8	14.0	3.5	1.0	0.0	0.0	0.0	
21	0.0	0.8	0.6	8.8	3.5	19.0	14.4	3.2	0.8	0.0	0.0	0.0	
22	0.0	0.5	0.9	7.0	3.5	19.0	13.4	3.1	0.9	0.0	0.0	0.0	
23	0.0	0.4	1.2	6.2	3.6	35.8	11.8	2.9	0.8	0.0	0.0	0.0	
24	0.0	0.1	2.1	6.2	3.8	56.7	10.4	2.7	0.8	0.0	0.0	0.0	
25	0.0	0.0	1.7	6.4	3.8	53.9	8.8	2.5	0.7	0.0	0.0	0.0	
26	0.0	0.1	1.3	5.4	3.8	108.6	7.7	2.4	0.6	0.0	0.0	0.0	
27	0.0	0.7	1.1	5.1	14.4	95.5	8.0	2.2	0.6	0.0	0.0	0.0	
28	0.0	1.1	0.9	4.5	14.4	53.5	8.2	2.2	0.5	0.0	0.0	0.0	
29	0.0	0.7	0.8	4.0	10.4	35.5	17.0	2.2	0.5	0.0	0.0	0.0	
30	0.0	0.8	0.6	4.7	7.7	31.3	15.2	2.1	0.4	0.0		0.0	
31		0.5		4.7	6.7		11.4		0.4	0.0		0.0	
Total	5.2	33.2	30.5	161.9	241.4	1334.5	1014.4	220.4	35.5	1.5	0.0	0.0	3078.5 CMSDAY
Mean	0.2	1.1	1.0	5.2	7.8	44.5	32.7	7.3	1.1	0.0	0.0	0.0	8.4 CMS
Max	0.6	5.0	2.2	12.6	30.1	108.6	147.0	26.0	2.0	0.4	0.0	0.0	147.0 CMS
Min	0.0	0.0	0.3	0.4	3.0	7.0	7.7	2.1	0.4	0.0	0.0	0.0	0.0 CMS
Runoff	0.45	2.87	2.64	13.99	20.86	115.30	87.64	19.04	3.07	0.13	0.00	0.00	265.98 MCM

Momentary Peak 172.44 CMS, at 4.68 M (A.D), at 3.00 Hours, on Oct 7, 1995

Runoff Yield 14.35 Liters/Second/Square KM, Momentary Peak Yield 294.266 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

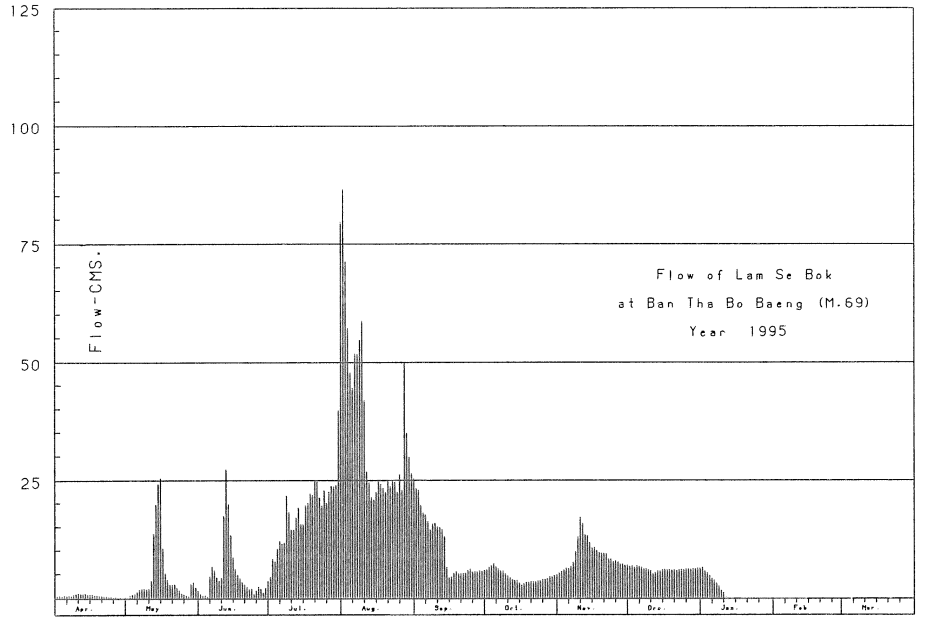
Lam Se Bok at Ban Tha Bo Baeng, Ubon Ratchathani (M.69)

Location	Lat. 15-30- 11 N., Long. 104-58-01 E., On left bank about 100 meters upstream from the bridge of Ubon-Trakan Phutphon Highway, Amphoe Trakan Phutphon, Ubon Ratchathani.
Drainage Area	2,132 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	Beside the automatic gage building.
Elevation	+9.985 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1969 to date
Rating Operation	
Period of Rating	1971, 1973 to date.
Rated by Float	-
Rated by Current Meter	1971, 1973 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Pak Mun Dam. Stage-discharge relation defined by 12 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.83	0.79	0.88	1.26	4.62	3.31	3.89	3.96	1.90	1.84	0.58	0.47	
2	0.83	0.84	0.85	1.59	4.18	3.30	3.86	3.94	1.89	1.73	0.56	0.47	
3	0.83	0.88	0.83	1.56	3.71	3.22	3.80	3.89	1.86	1.65	0.55	0.46	
4	0.84	0.88	0.82	1.73	3.40	3.23	3.79	3.87	1.90	1.58	0.55	0.45	
5	0.84	0.94	1.27	1.84	3.29	3.23	3.83	3.86	1.89	1.47	0.54	0.45	
6	0.84	0.98	1.47	1.80	3.53	3.29	3.88	3.83	1.84	1.38	0.53	0.44	
7	0.84	1.00	1.39	1.82	3.53	3.37	3.91	3.75	1.80	1.30	0.52	0.44	
8	0.87	1.00	1.25	2.32	3.63	3.31	3.93	3.60	1.79	1.17	0.52	0.44	
9	0.90	1.00	1.16	2.16	3.76	3.30	3.98	3.45	1.77	1.04	0.51	0.44	
10	0.90	1.02	1.24	1.98	3.62	3.34	4.04	3.26	1.71	0.94	0.51	0.44	
11	0.90	1.18	2.12	1.97	3.40	3.34	4.10	3.05	1.63	0.80	0.50	0.44	
12	0.90	1.93	2.59	2.10	3.34	3.37	4.15	2.89	1.67	0.77	0.50	0.43	
13	0.89	2.25	2.25	2.21	3.26	3.44	4.18	2.80	1.70	0.76	0.49	0.43	
14	0.88	2.45	1.91	2.04	3.25	3.85	4.21	2.64	1.73	0.73	0.49	0.43	
15	0.87	2.50	1.62	2.03	3.29	4.08	4.29	2.53	1.75	0.70	0.49	0.43	
16	0.87	1.74	1.42	2.24	3.35	4.09	4.40	2.53	1.77	0.68	0.48	0.42	
17	0.86	1.34	1.31	2.26	3.33	3.96	4.33	2.46	1.77	0.67	0.48	0.42	
18	0.85	1.19	1.22	2.36	3.31	3.95	4.28	2.35	1.76	0.66	0.52	0.42	
19	0.84	1.10	1.15	2.35	3.29	3.97	4.25	2.36	1.75	0.66	0.51	0.41	
20	0.83	1.09	1.09	2.49	3.35	3.98	4.25	2.36	1.75	0.65	0.51	0.41	
21	0.82	1.10	1.04	2.48	3.32	3.98	4.25	2.31	1.75	0.65	0.50	0.41	
22	0.82	1.03	1.00	2.32	3.35	3.96	4.24	2.15	1.77	0.64	0.49	0.40	
23	0.81	0.96	1.00	2.24	3.34	3.90	4.23	2.13	1.76	0.63	0.49	0.40	
24	0.80	0.91	0.90	2.39	3.29	3.89	4.20	2.06	1.77	0.63	0.49	0.40	
25	0.79	0.87	0.96	2.26	3.38	3.93	4.17	2.07	1.78	0.61	0.49	0.39	
26	0.78	0.84	1.04	2.37	3.30	3.93	4.13	2.03	1.78	0.61	0.49	0.39	
27	0.77	0.82	1.01	2.43	3.70	3.94	4.11	1.97	1.79	0.60	0.49	0.38	
28	0.77	1.11	0.93	2.42	3.54	3.93	4.06	1.95	1.79	0.59	0.49	0.38	
29	0.76	1.13	1.03	2.44	3.46	3.92	4.05	1.93	1.80	0.59	0.48	0.38	
30	0.79	1.04	1.16	3.11	3.39	3.91	4.04	1.91	1.81	0.58		0.37	
31		0.95		4.42	3.36		4.01		1.83	0.58		0.37	
Mean	0.84	1.19	1.26	2.23	3.48	3.67	4.09	2.80	1.78	0.90	0.51	0.42	
Max	0.90	2.50	2.59	4.42	4.62	4.09	4.40	3.96	1.90	1.84	0.58	0.47	4.62
Min	0.76	0.79	0.82	1.26	3.25	3.22	3.79	1.91	1.63	0.58	0.48	0.37	0.37

Annual Max Momentary Gage Height 4.65 M (A.D), at 6.00 Hours, on Aug 1, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.29 M (A.D)
Left Bank Elevation 11.19 M (A.D)
Right Bank Elevation 11.19 M (A.D), Drainage Area 2132 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.51	0.27	0.86	4.60	86.70	23.40	6.10	5.40	6.90	6.54	0.00	0.00	
2	0.51	0.58	0.65	8.35	71.40	23.00	6.50	5.60	6.84	5.88	0.00	0.00	
3	0.51	0.86	0.51	7.90	57.30	19.80	7.00	6.10	6.66	5.40	0.00	0.00	
4	0.58	0.86	0.44	10.45	48.00	18.10	7.30	6.30	6.90	4.98	0.00	0.00	
5	0.58	1.40	4.70	12.20	44.70	17.80	6.80	6.40	6.84	4.32	0.00	0.00	
6	0.58	1.80	6.70	11.50	51.90	16.30	6.20	6.70	6.54	3.78	0.00	0.00	
7	0.58	2.00	5.90	11.85	51.90	14.60	5.90	7.75	6.30	3.30	0.00	0.00	
8	0.79	2.00	4.50	21.90	54.90	15.80	5.70	10.00	6.24	2.52	0.00	0.00	
9	1.00	2.00	3.60	18.20	58.80	16.00	5.30	13.00	6.12	1.74	0.00	0.00	
10	1.00	2.00	4.40	14.65	42.00	15.20	4.70	17.20	5.76	1.14	0.00	0.00	
11	1.00	3.80	17.40	14.48	27.00	15.20	4.32	16.00	5.28	0.30	0.00	0.00	
12	1.00	13.77	27.52	17.20	24.60	14.60	4.05	13.56	5.52	0.21	0.00	0.00	
13	0.93	20.00	20.00	19.20	21.40	13.20	3.85	13.20	5.70	0.18	0.00	0.00	
14	0.86	24.38	13.43	15.80	21.00	6.60	3.75	11.76	5.88	0.09	0.00	0.00	
15	0.79	25.50	8.80	15.60	22.60	4.47	3.30	10.77	6.00	0.00	0.00	0.00	
16	0.79	10.60	6.20	19.80	25.00	4.47	2.75	10.77	6.12	0.00	0.00	0.00	
17	0.72	5.40	5.10	20.20	24.20	5.40	3.15	10.26	6.12	0.00	0.00	0.00	
18	0.65	3.90	4.20	22.35	23.40	5.60	3.35	9.66	6.06	0.00	0.00	0.00	
19	0.58	3.00	3.50	21.90	22.60	5.30	3.50	9.66	6.00	0.00	0.00	0.00	
20	0.51	2.90	2.90	25.27	25.00	5.20	3.50	9.66	6.00	0.00	0.00	0.00	
21	0.44	3.00	2.40	25.05	23.80	5.20	3.50	9.36	6.00	0.00	0.00	0.00	
22	0.44	2.30	2.00	21.45	25.00	5.40	3.55	8.40	6.12	0.00	0.00	0.00	
23	0.37	1.60	2.00	19.60	24.60	6.00	3.65	8.28	6.06	0.00	0.00	0.00	
24	0.30	1.10	1.00	23.03	22.60	6.20	3.80	7.86	6.12	0.00	0.00	0.00	
25	0.27	0.79	1.60	20.20	26.20	5.70	3.95	7.92	6.18	0.00	0.00	0.00	
26	0.24	0.58	2.40	22.57	23.00	5.70	4.15	7.68	6.18	0.00	0.00	0.00	
27	0.21	0.44	2.10	23.93	50.00	5.70	4.25	7.32	6.24	0.00	0.00	0.00	
28	0.21	3.10	1.30	23.70	35.20	5.80	4.55	7.20	6.24	0.00	0.00	0.00	
29	0.18	3.30	2.20	24.15	30.00	5.80	4.62	7.08	6.30	0.00	0.00	0.00	
30	0.27	2.40	3.60	40.02	26.60	5.90	4.77	6.96	6.36	0.00		0.00	
31		1.50		79.70	25.40		4.92		6.48	0.00		0.00	
Total	17.40	147.13	161.91	636.80	1116.80	317.44	142.73	277.81	192.06	40.38	0.00	0.00	3050.46 CMSDAY
Mean	0.58	4.75	5.40	20.54	36.03	10.58	4.60	9.26	6.20	1.30	0.00	0.00	8.33 CMS
Max	1.00	25.50	27.52	79.70	86.70	23.40	7.30	17.20	6.90	6.54	0.00	0.00	86.70 CMS
Min	0.18	0.27	0.44	4.60	21.00	4.47	2.75	5.40	5.28	0.00	0.00	0.00	0.00 CMS
Runoff	1.503	12.712	13.989	55.020	96.492	27.427	12.332	24.003	16.594	3.489	0.000	0.000	263.560 MCM

Momentary Peak 87.75 CMS, at 4.65 M (A.D), at 6.00 Hours, on Aug 1, 1995
Runoff Yield 3.91 Liters/Second/Square KM, Momentary Peak Yield 41.159 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

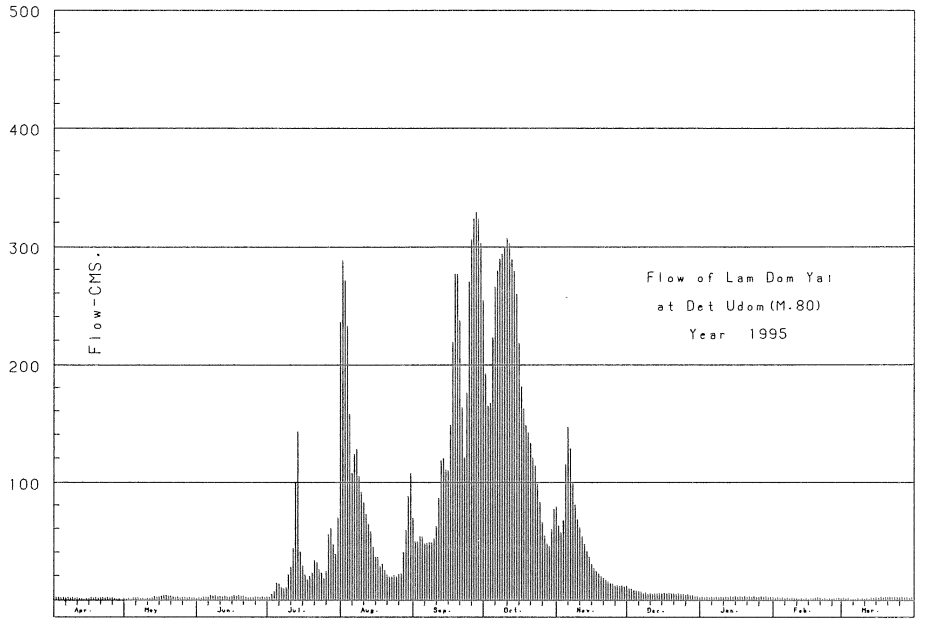
Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80)

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	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The rubber weir situated about 4 kilometers downstream from the gage site. Stage-discharge relation defined by 26 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.47	121.44	121.45	121.48	124.06	119.55	122.30	119.82	121.63	121.47	121.46	121.45	
2	121.46	121.44	121.46	121.52	123.76	119.55	121.79	119.71	121.62	121.47	121.46	121.45	
3	121.46	121.44	121.47	121.60	123.06	119.65	121.83	119.92	121.61	121.47	121.46	121.45	
4	121.46	121.45	121.48	121.68	121.65	119.63	122.88	120.83	121.60	121.47	121.46	121.44	
5	121.46	121.46	121.48	121.68	120.70	119.52	123.65	121.44	121.60	121.47	121.45	121.44	
6	121.46	121.45	121.50	121.64	121.00	119.52	123.91	121.10	121.58	121.47	121.45	121.44	
7	121.46	121.45	121.50	121.62	121.09	119.55	124.08	120.53	121.56	121.47	121.45	121.44	
8	121.46	121.44	121.50	121.64	120.64	119.53	124.16	120.17	121.56	121.47	121.45	121.44	
9	121.46	121.44	121.49	121.74	120.38	119.61	124.27	119.94	121.54	121.47	121.45	121.44	
10	121.45	121.44	121.48	121.79	120.22	119.81	124.41	119.79	121.54	121.47	121.45	121.44	
11	121.45	121.45	121.47	121.81	120.02	120.29	124.32	119.65	121.54	121.47	121.44	121.44	
12	121.45	121.46	121.50	121.85	119.86	120.89	124.08	119.51	121.54	121.47	121.44	121.44	
13	121.44	121.48	121.47	121.37	119.72	120.94	123.89	119.40	121.55	121.48	121.44	121.45	
14	121.44	121.48	121.48	119.39	119.47	120.74	123.55	119.29	121.55	121.48	121.44	121.46	
15	121.45	121.47	121.49	119.15	119.30	120.74	122.78	119.18	121.55	121.48	121.44	121.46	
16	121.46	121.49	121.50	118.99	119.29	121.47	122.11	119.10	121.55	121.48	121.44	121.46	
17	121.46	121.51	121.50	118.90	119.14	122.81	121.74	119.06	121.55	121.48	121.45	121.47	
18	121.46	121.50	121.50	118.96	119.17	123.85	121.48	119.01	121.55	121.48	121.45	121.47	
19	121.46	121.50	121.50	119.03	119.08	123.85	121.35	118.97	121.55	121.48	121.46	121.47	
20	121.46	121.49	121.49	119.23	118.99	123.13	121.19	118.93	121.54	121.48	121.46	121.47	
21	121.46	121.48	121.47	119.21	118.95	121.77	120.94	118.90	121.54	121.48	121.44	121.47	
22	121.46	121.47	121.46	119.08	118.96	120.95	120.82	118.86	121.54	121.48	121.44	121.47	
23	121.46	121.47	121.46	119.03	118.98	122.00	120.51	118.84	121.54	121.48	121.44	121.47	
24	121.46	121.46	121.47	118.93	118.96	123.74	120.22	118.82	121.53	121.48	121.44	121.47	
25	121.45	121.46	121.47	119.05	119.00	124.39	119.89	118.79	121.52	121.48	121.44	121.47	
26	121.44	121.46	121.47	119.67	119.02	124.71	119.65	118.79	121.52	121.48	121.44	121.47	
27	121.44	121.46	121.47	119.79	119.38	124.81	119.52	119.29	121.51	121.48	121.45	121.47	
28	121.43	121.46	121.47	119.51	119.76	124.70	119.47	121.18	121.50	121.48	121.45	121.46	
29	121.43	121.46	121.47	119.34	120.31	124.32	119.76	121.65	121.49	121.47	121.45	121.46	
30	121.44	121.45	121.47	119.97	120.70	123.45	120.11	121.65	121.48	121.47		121.46	
31		121.45		123.11	119.95		120.14		121.47	121.46		121.46	
Mean	121.45	121.46	121.48	120.38	120.15	121.65	121.96	119.74	121.55	121.47	121.45	121.46	
Max	121.47	121.51	121.50	123.11	124.06	124.81	124.41	121.65	121.63	121.48	121.46	121.47	124.81
Min	121.43	121.44	121.45	118.90	118.95	119.52	119.47	118.79	121.47	121.46	121.44	121.44	118.79

Annual Max Momentary Gage Height 124.82 M (MSL), at 12.00 Hours, on Sep 27, 1995
Zero Gage at Bottom Elevation 117.26 M (MSL), River Bed 117.21 M (MSL)
Left Bank Elevation 130.69 M (MSL)
Right Bank Elevation 129.90 M (MSL), Drainage Area 3363 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.80	1.60	2.00	3.20	288.30	49.50	192.20	63.00	10.40	2.80	2.40	2.00	
2	2.40	1.60	2.40	4.80	271.80	49.50	165.08	57.50	9.60	2.80	2.40	2.00	
3	2.40	1.60	2.80	8.00	233.30	54.50	167.16	68.00	8.80	2.80	2.40	2.00	
4	2.40	2.00	3.20	14.40	157.80	53.50	223.52	115.16	8.00	2.80	2.40	1.60	
5	2.40	2.40	3.20	14.40	108.40	48.00	265.75	146.88	8.00	2.80	2.00	1.60	
6	2.40	2.00	4.00	11.20	124.00	48.00	280.05	129.20	7.20	2.80	2.00	1.60	
7	2.40	2.00	4.00	9.60	128.68	49.50	289.40	99.56	6.40	2.80	2.00	1.60	
8	2.40	1.60	4.00	11.20	105.28	48.50	293.80	80.84	6.40	2.80	2.00	1.60	
9	2.40	1.60	3.60	21.60	91.76	52.50	299.85	69.00	5.60	2.80	2.00	1.60	
10	2.00	1.60	3.20	28.60	83.44	62.50	307.55	61.50	5.60	2.80	2.00	1.60	
11	2.00	2.00	2.80	44.07	73.04	87.08	302.60	54.50	5.60	2.80	1.60	1.60	
12	2.00	2.40	4.00	100.40	65.00	118.28	289.40	47.50	5.60	2.80	1.60	1.60	
13	1.60	3.20	2.80	143.24	58.00	120.88	278.95	42.00	6.00	3.20	1.60	2.00	
14	1.60	3.20	3.20	41.50	45.50	110.48	260.25	36.50	6.00	3.20	1.60	2.40	
15	2.00	2.80	3.60	29.50	37.00	110.48	218.12	31.00	6.00	3.20	1.60	2.40	
16	2.40	3.60	4.00	21.55	36.50	148.44	181.94	27.00	6.00	3.20	1.60	2.40	
17	2.40	4.40	4.00	17.50	29.00	219.74	162.48	25.00	6.00	3.20	2.00	2.80	
18	2.40	4.00	4.00	20.20	30.50	276.75	148.96	22.50	6.00	3.20	2.00	2.80	
19	2.40	4.00	4.00	23.50	26.00	276.75	142.20	20.65	6.00	3.20	2.40	2.80	
20	2.40	3.60	3.60	33.50	21.55	237.15	133.88	18.85	5.60	3.20	2.40	2.80	
21	2.40	3.20	2.80	32.50	19.75	164.04	120.88	17.50	5.60	3.20	1.60	2.80	
22	2.40	2.80	2.40	26.00	20.20	121.40	114.64	15.70	5.60	3.20	1.60	2.80	
23	2.40	2.80	2.40	23.50	21.10	176.00	98.52	14.80	5.60	3.20	1.60	2.80	
24	2.40	2.40	2.80	18.85	20.20	270.70	83.44	13.90	5.20	3.20	1.60	2.80	
25	2.00	2.40	2.80	24.50	22.00	306.45	66.50	12.55	4.80	3.20	1.60	2.80	
26	1.60	2.40	2.80	55.50	23.00	324.05	54.50	12.55	4.80	3.20	1.60	2.80	
27	1.60	2.40	2.80	61.50	41.00	329.55	48.00	12.36	4.40	3.20	2.00	2.80	
28	1.20	2.40	2.80	47.50	60.00	323.50	45.50	12.18	4.00	3.20	2.00	2.40	
29	1.20	2.40	2.80	39.00	88.12	302.60	60.00	12.00	3.60	2.80	2.00	2.40	
30	1.60	2.00	2.80	70.50	108.40	254.75	77.72	12.00	3.20	2.80		2.40	
31		2.00		236.05	69.50		79.28		2.80	2.40		2.40	
Total	64.00	78.40	95.60	1237.36	2508.12	4795.07	5452.12	1351.68	184.40	92.80	55.60	70.00	15985.15 CMSDAY
Mean	2.13	2.53	3.19	39.91	80.91	159.84	175.87	45.06	5.95	2.99	1.92	2.26	43.68 CMS
Max	2.80	4.40	4.00	236.05	288.30	329.55	307.55	146.88	10.40	3.20	2.40	2.80	329.55 CMS
Min	1.20	1.60	2.00	3.20	19.75	48.00	45.50	12.00	2.80	2.40	1.60	1.60	1.20 CMS
Runoff	5.530	6.774	8.260	106.908	216.702	414.294	471.063	116.785	15.932	8.018	4.804	6.048	1381.117 MCM

Momentary Peak 330.10 CMS, at 124.82 M (MSL), at 12.00 Hours, on Sep 27, 1995

Runoff Yield 12.99 Liters/Second/Square KM, Momentary Peak Yield 98.156 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

Lam Chi at Ban Charok Yai, Buri Ram (M.85)

Location — Lat. 14°-37'-54" N., Long. 103°-14'-03" E., on right bank at the bridge of Chok Chai-Det Udom Highway near guidepost 119 at Ban Charok Yai, Amphoe Prakhon Chai, Buri Ram.

Drainage Area — 1,046 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On right bank at the abutment of the bridge.

Elevation — +6.546 m.(A.D.)

Gage Reading Frequency — 3-5 time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height — Arithmetic mean of 3-5 readings.

Period of Available Gage Records — 1969 - 1971, 1979 to date.

Rating Operation

Period of Rating — 1969 - 1971, 1979, 1981 to date.

Rated by Float — -

Rated by Current Meter — 1969 - 1971, 1979, 1981 to date.

Stability of Channel Regimes — Rather unstable because of backwater effect.

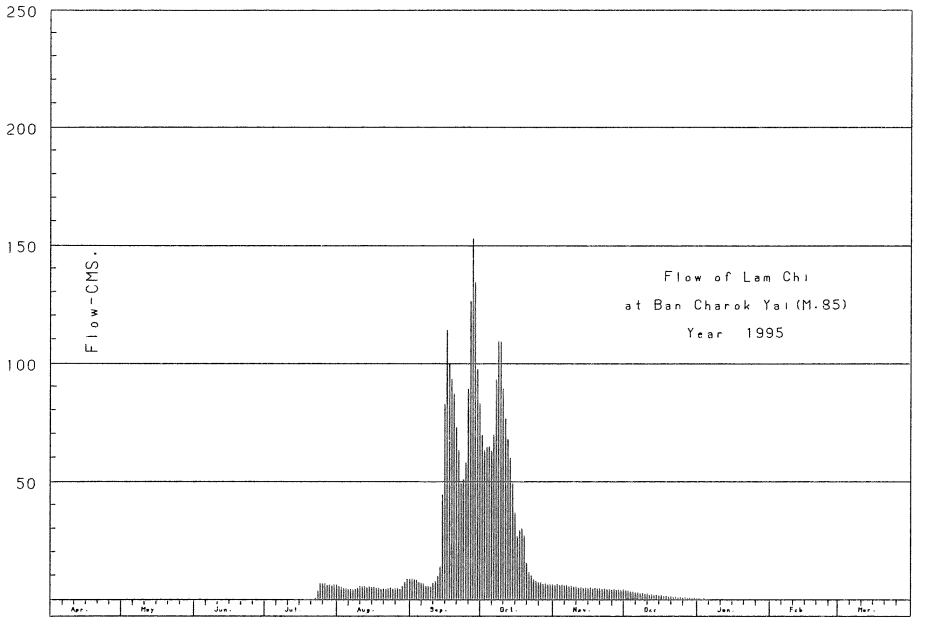
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Flow effected by the local weir during Dec.1,95-Mar.31,96, discharge estimated by recession equation. Stage-discharge relation by 22 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.10	0.07	0.24	2.82	3.12	3.87	2.87	2.41	2.21	2.15	1.99	
2	0.18	0.10	0.07	0.25	2.73	3.12	3.83	2.90	2.40	2.20	2.14	1.98	
3	0.18	0.09	0.06	0.26	2.63	3.08	3.84	2.89	2.40	2.20	2.14	1.97	
4	0.18	0.09	0.05	0.27	2.55	3.02	3.84	2.88	2.40	2.21	2.13	1.97	
5	0.18	0.08	0.08	0.28	2.49	2.97	3.83	2.86	2.41	2.20	2.13	1.96	
6	0.18	0.07	0.07	0.27	2.48	2.92	3.87	2.85	2.42	2.21	2.12	1.96	
7	0.18	0.07	0.08	0.27	2.45	2.83	3.99	2.83	2.43	2.20	2.12	1.94	
8	0.18	0.06	0.09	0.28	2.47	2.78	4.06	2.81	2.42	2.19	2.11	1.93	
9	0.18	0.06	0.08	0.29	2.66	2.77	4.06	2.79	2.41	2.19	2.10	1.92	
10	0.18	0.06	0.08	0.29	2.78	2.95	3.97	2.75	2.36	2.18	2.09	1.91	
11	0.20	0.08	0.09	0.31	2.79	3.03	3.91	2.71	2.38	2.18	2.08	1.91	
12	0.20	0.08	0.14	0.32	2.77	3.22	3.86	2.68	2.37	2.19	2.08	1.92	
13	0.20	0.08	0.18	0.33	2.73	3.39	3.81	2.65	2.36	2.21	2.07	1.91	
14	0.19	0.11	0.19	0.32	2.76	3.71	3.74	2.64	2.34	2.22	2.07	1.90	
15	0.18	0.11	0.20	0.33	2.75	3.94	3.65	2.63	2.33	2.21	2.06	1.89	
16	0.17	0.10	0.20	0.36	2.71	4.08	3.57	2.62	2.33	2.22	2.06	1.88	
17	0.17	0.11	0.19	0.44	2.65	4.02	3.59	2.61	2.34	2.21	2.05	1.87	
18	0.16	0.10	0.20	0.45	2.58	3.99	3.60	2.60	2.34	2.19	2.04	1.87	
19	0.15	0.09	0.19	0.55	2.52	3.96	3.57	2.59	2.34	2.18	2.05	1.86	
20	0.15	0.09	0.19	0.56	2.50	3.89	3.43	2.58	2.33	2.18	2.05	1.85	
21	0.15	0.09	0.19	0.56	2.56	3.83	3.30	2.57	2.33	2.17	2.04	1.84	
22	0.14	0.08	0.18	1.10	2.59	3.74	3.24	2.55	2.34	2.16	2.03	1.83	
23	0.13	0.08	0.18	2.35	2.59	3.75	3.10	2.52	2.34	2.16	2.03	1.82	
24	0.13	0.07	0.17	2.93	2.55	3.80	3.06	2.50	2.32	2.15	2.03	1.81	
25	0.12	0.07	0.17	2.96	2.54	3.97	3.01	2.48	2.30	2.15	2.02	1.80	
26	0.12	0.06	0.18	2.93	2.55	4.13	2.98	2.47	2.28	2.16	2.01	1.79	
27	0.11	0.05	0.19	2.89	2.56	4.23	2.95	2.45	2.27	2.16	2.00	1.80	
28	0.11	0.05	0.18	2.86	2.78	4.16	2.93	2.43	2.25	2.17	2.00	1.80	
29	0.11	0.06	0.20	2.85	3.02	4.01	2.91	2.41	2.24	2.16	2.00	1.79	
30	0.11	0.07	0.24	2.87	3.11	3.94	2.89	2.42	2.23	2.16		1.79	
31		0.08		2.87	3.14		2.89		2.22	2.15		1.78	
Mean	0.16	0.08	0.15	1.09	2.67	3.55	3.52	2.65	2.34	2.18	2.07	1.88	
Max	0.20	0.11	0.24	2.96	3.14	4.23	4.06	2.90	2.43	2.22	2.15	1.99	4.23
Min	0.11	0.05	0.05	0.24	2.45	2.77	2.89	2.41	2.22	2.15	2.00	1.78	0.05

Annual Max Momentary Gage Height 4.25 M (A.D), at 18.00 Hours, on Sep 27, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -2.42 M (A.D)
Left Bank Elevation 5.64 M (A.D)
Right Bank Elevation 4.74 M (A.D), Drainage Area 1046 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.0	0.0	5.9	8.8	70.0	6.3	4.1	0.7	0.1	0.0	
2	0.0	0.0	0.0	0.0	5.4	8.8	63.4	6.5	3.8	0.7	0.1	0.0	
3	0.0	0.0	0.0	0.0	5.0	8.3	65.0	6.4	3.6	0.7	0.1	0.0	
4	0.0	0.0	0.0	0.0	4.7	7.7	65.0	6.3	3.4	0.6	0.1	0.0	
5	0.0	0.0	0.0	0.0	4.5	7.2	63.4	6.2	3.3	0.6	0.1	0.0	
6	0.0	0.0	0.0	0.0	4.4	6.7	70.0	6.1	3.1	0.6	0.1	0.0	
7	0.0	0.0	0.0	0.0	4.4	5.9	93.5	5.9	2.9	0.5	0.1	0.0	
8	0.0	0.0	0.0	0.0	4.4	5.6	109.6	5.8	2.8	0.5	0.1	0.0	
9	0.0	0.0	0.0	0.0	5.1	5.6	109.6	5.7	2.6	0.5	0.1	0.0	
10	0.0	0.0	0.0	0.0	5.6	7.0	89.4	5.5	2.5	0.4	0.1	0.0	
11	0.0	0.0	0.0	0.0	5.7	7.8	77.1	5.3	2.3	0.4	0.1	0.0	
12	0.0	0.0	0.0	0.0	5.6	10.2	68.4	5.2	2.2	0.4	0.1	0.0	
13	0.0	0.0	0.0	0.0	5.4	14.1	60.1	5.1	2.1	0.4	0.1	0.0	
14	0.0	0.0	0.0	0.0	5.5	45.0	49.5	5.1	2.0	0.4	0.1	0.0	
15	0.0	0.0	0.0	0.0	5.5	83.2	37.0	5.0	1.9	0.3	0.1	0.0	
16	0.0	0.0	0.0	0.1	5.3	114.3	27.2	5.0	1.8	0.3	0.1	0.0	
17	0.0	0.0	0.0	0.1	5.1	100.3	29.4	4.9	1.7	0.3	0.1	0.0	
18	0.0	0.0	0.0	0.1	4.8	93.5	30.5	4.9	1.6	0.3	0.1	0.0	
19	0.0	0.0	0.0	0.3	4.6	87.4	27.2	4.9	1.5	0.3	0.1	0.0	
20	0.0	0.0	0.0	0.3	4.5	73.3	15.9	4.8	1.4	0.3	0.1	0.0	
21	0.0	0.0	0.0	0.3	4.7	63.4	11.6	4.8	1.3	0.2	0.1	0.0	
22	0.0	0.0	0.0	0.9	4.9	49.5	10.5	4.7	1.3	0.2	0.0	0.0	
23	0.0	0.0	0.0	4.0	4.9	51.0	8.5	4.6	1.2	0.2	0.0	0.0	
24	0.0	0.0	0.0	6.8	4.7	58.4	8.1	4.5	1.1	0.2	0.0	0.0	
25	0.0	0.0	0.0	7.1	4.7	89.4	7.6	4.4	1.1	0.2	0.0	0.0	
26	0.0	0.0	0.0	6.8	4.7	126.7	7.3	4.4	1.0	0.2	0.0	0.0	
27	0.0	0.0	0.0	6.4	4.7	153.2	7.0	4.4	1.0	0.2	0.0	0.0	
28	0.0	0.0	0.0	6.2	5.6	134.3	6.8	4.3	0.9	0.2	0.0	0.0	
29	0.0	0.0	0.0	6.1	7.7	97.9	6.6	4.2	0.9	0.2	0.0	0.0	
30	0.0	0.0	0.0	6.3	8.6	83.2	6.4	4.3	0.8	0.2		0.0	
31		0.0		6.3	9.0		6.4		0.8	0.1		0.0	
Total	0.0	0.0	0.0	58.1	165.6	1607.7	1308.0	155.5	62.0	11.3	2.1	0.0	3370.3 CMSDAY
Mean	0.0	0.0	0.0	1.9	5.3	53.6	42.2	5.2	2.0	0.4	0.1	0.0	9.2 CMS
Max	0.0	0.0	0.0	7.1	9.0	153.2	109.6	6.5	4.1	0.7	0.1	0.0	153.2 CMS
Min	0.0	0.0	0.0	0.0	4.4	5.6	6.4	4.2	0.8	0.1	0.0	0.0	0.0 CMS
Runoff	0.00	0.00	0.00	5.02	14.31	138.91	113.01	13.44	5.36	0.98	0.18	0.00	291.19 MCM

Momentary Peak 159.00 CMS, at 4.25 M (A.D), at 18.00 Hours, on Sep 27, 1995

Runoff Yield 8.80 Liters/Second/Square KM, Momentary Peak Yield 152.008 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

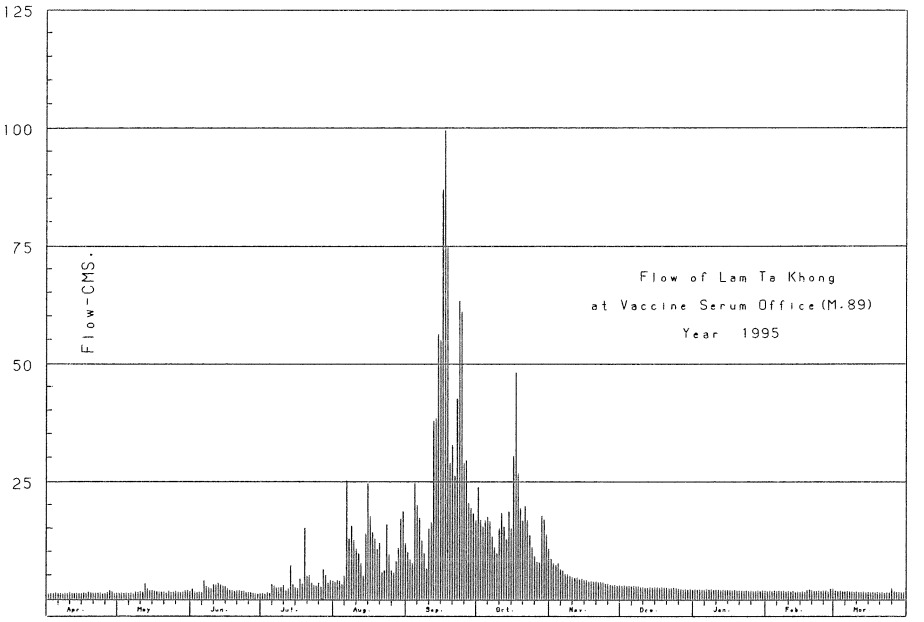
Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima (M.89)

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.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Lam Takhong Dam Reservior. Stage-discharge relation defined by 23 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.10	1.12	1.24	1.10	1.35	1.64	2.30	1.59	1.30	1.22	1.18	1.19	
2	1.10	1.11	1.16	1.10	1.37	1.58	1.93	1.55	1.30	1.22	1.18	1.19	
3	1.11	1.11	1.15	1.13	1.36	1.55	1.84	1.54	1.30	1.22	1.18	1.18	
4	1.11	1.11	1.15	1.13	1.32	2.34	1.92	1.55	1.29	1.22	1.18	1.18	
5	1.12	1.11	1.15	1.32	1.43	2.10	1.98	1.50	1.29	1.22	1.18	1.17	
6	1.11	1.11	1.37	1.29	2.37	1.95	1.91	1.48	1.29	1.22	1.18	1.17	
7	1.10	1.10	1.28	1.26	1.73	1.72	1.75	1.45	1.29	1.22	1.18	1.17	
8	1.11	1.14	1.26	1.25	1.85	1.63	1.67	1.44	1.28	1.22	1.18	1.16	
9	1.11	1.16	1.23	1.26	1.72	1.51	1.63	1.43	1.27	1.21	1.17	1.16	
10	1.15	1.16	1.32	1.30	1.66	1.80	1.81	1.41	1.26	1.21	1.17	1.16	
11	1.12	1.16	1.31	1.20	1.63	1.90	2.02	1.41	1.26	1.21	1.17	1.16	
12	1.12	1.33	1.34	1.23	1.55	2.88	1.84	1.41	1.26	1.21	1.17	1.16	
13	1.12	1.23	1.31	1.53	1.43	2.90	1.73	1.39	1.26	1.21	1.16	1.16	
14	1.11	1.20	1.30	1.32	1.77	3.42	2.04	1.39	1.26	1.21	1.16	1.15	
15	1.10	1.18	1.28	1.26	2.33	3.39	1.81	1.38	1.26	1.21	1.16	1.15	
16	1.11	1.17	1.24	1.24	1.98	4.10	2.62	1.37	1.26	1.20	1.16	1.15	
17	1.11	1.16	1.21	1.40	1.78	4.31	3.22	1.36	1.26	1.20	1.16	1.15	
18	1.14	1.16	1.18	1.32	1.73	3.86	2.44	1.36	1.26	1.20	1.20	1.15	
19	1.13	1.16	1.19	1.82	1.66	2.55	2.07	1.36	1.26	1.20	1.22	1.15	
20	1.13	1.15	1.19	1.43	1.70	2.71	1.93	1.35	1.25	1.19	1.20	1.14	
21	1.11	1.13	1.18	1.43	1.46	2.42	2.10	1.35	1.25	1.19	1.18	1.14	
22	1.13	1.18	1.18	1.34	1.49	3.04	1.93	1.35	1.25	1.19	1.18	1.13	
23	1.11	1.13	1.17	1.30	1.87	3.60	1.76	1.34	1.25	1.19	1.18	1.13	
24	1.10	1.16	1.15	1.30	1.62	3.54	1.67	1.33	1.25	1.19	1.18	1.14	
25	1.10	1.17	1.13	1.33	1.49	2.55	1.61	1.32	1.23	1.19	1.18	1.24	
26	1.13	1.15	1.14	1.28	1.46	2.58	1.56	1.31	1.22	1.19	1.18	1.18	
27	1.20	1.14	1.11	1.50	1.57	2.13	1.56	1.31	1.22	1.19	1.17	1.16	
28	1.14	1.15	1.10	1.43	1.67	2.07	1.99	1.31	1.22	1.19	1.24	1.15	
29	1.12	1.20	1.10	1.34	1.94	2.02	1.94	1.30	1.22	1.19	1.23	1.15	
30	1.12	1.20	1.10	1.37	2.04	1.92	1.76	1.30	1.22	1.19		1.14	
31		1.16		1.36	1.70		1.66		1.22	1.18		1.14	
Mean	1.12	1.16	1.21	1.32	1.68	2.52	1.94	1.40	1.26	1.20	1.18	1.16	
Max	1.20	1.33	1.37	1.82	2.37	4.31	3.22	1.59	1.30	1.22	1.24	1.24	4.31
Min	1.10	1.10	1.10	1.10	1.32	1.51	1.56	1.30	1.22	1.18	1.16	1.13	1.10

Annual Max Momentary Gage Height 4.74 M (A.D), at 24.00 Hours, on Sep 16, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.19 M (A.D)
Left Bank Elevation 7.67 M (A.D)
Right Bank Elevation 7.29 M (A.D), Drainage Area 665 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.3	1.4	2.4	1.3	3.8	10.2	24.0	8.8	3.0	2.2	1.9	1.9	
2	1.3	1.4	1.7	1.3	4.1	8.5	16.9	7.7	3.0	2.2	1.9	1.9	
3	1.4	1.4	1.6	1.5	3.9	7.7	15.6	7.5	3.0	2.2	1.9	1.9	
4	1.4	1.4	1.6	1.5	3.3	24.8	16.8	7.7	2.9	2.2	1.9	1.9	
5	1.4	1.4	1.6	3.3	5.1	20.0	17.7	6.5	2.9	2.2	1.9	1.8	
6	1.4	1.4	4.1	2.9	25.4	17.3	16.6	6.1	2.9	2.2	1.9	1.8	
7	1.3	1.3	2.8	2.6	12.9	12.6	13.5	5.5	2.9	2.2	1.9	1.8	
8	1.4	1.6	2.6	2.5	15.8	9.9	11.1	5.3	2.8	2.2	1.9	1.7	
9	1.4	1.7	2.3	2.6	12.6	6.7	9.9	5.1	2.7	2.1	1.8	1.7	
10	1.6	1.7	3.3	3.0	10.8	15.0	15.1	4.7	2.6	2.1	1.8	1.7	
11	1.4	1.7	3.1	2.0	9.9	16.5	18.4	4.7	2.6	2.1	1.8	1.7	
12	1.4	3.5	3.6	2.3	7.7	37.9	15.6	4.7	2.6	2.1	1.8	1.7	
13	1.4	2.3	3.1	7.2	5.1	38.5	12.9	4.4	2.6	2.1	1.7	1.7	
14	1.4	2.0	3.0	3.3	14.1	56.3	18.8	4.4	2.6	2.1	1.7	1.6	
15	1.3	1.9	2.8	2.6	24.6	55.1	15.1	4.2	2.6	2.1	1.7	1.6	
16	1.4	1.8	2.4	2.4	17.7	87.0	30.5	4.1	2.6	2.0	1.7	1.6	
17	1.4	1.7	2.1	4.5	14.4	99.6	48.3	3.9	2.6	2.0	1.7	1.6	
18	1.6	1.7	1.9	3.3	12.9	75.0	26.8	3.9	2.6	2.0	2.0	1.6	
19	1.5	1.7	1.9	15.3	10.8	29.0	19.4	3.9	2.6	2.0	2.2	1.6	
20	1.5	1.6	1.9	5.1	12.0	32.8	16.9	3.8	2.5	1.9	2.0	1.6	
21	1.4	1.5	1.9	5.1	5.7	26.4	20.0	3.8	2.5	1.9	1.9	1.6	
22	1.5	1.9	1.9	3.6	6.3	42.7	16.9	3.8	2.5	1.9	1.9	1.5	
23	1.4	1.5	1.8	3.0	16.1	63.5	13.8	3.6	2.5	1.9	1.9	1.5	
24	1.3	1.7	1.6	3.0	9.6	61.1	11.1	3.5	2.5	1.9	1.9	1.6	
25	1.3	1.8	1.5	3.5	6.3	29.0	9.3	3.3	2.3	1.9	1.9	2.4	
26	1.5	1.6	1.6	2.8	5.7	29.6	8.0	3.1	2.2	1.9	1.9	1.9	
27	2.0	1.6	1.4	6.5	8.3	20.6	8.0	3.1	2.2	1.9	1.8	1.7	
28	1.6	1.6	1.3	5.1	11.1	19.4	17.8	3.1	2.2	1.9	2.4	1.6	
29	1.4	2.0	1.3	3.6	17.1	18.4	17.1	3.0	2.2	1.9	2.3	1.6	
30	1.4	2.0	1.3	4.1	18.8	16.8	13.8	3.0	2.2	1.9		1.6	
31		1.7		3.9	12.0		10.8		2.2	1.9		1.6	
Total	43.0	53.5	65.4	114.7	343.9	987.9	526.5	140.2	80.1	63.1	55.0	53.0	2526.3 CMSDAY
Mean	1.4	1.7	2.2	3.7	11.1	32.9	17.0	4.7	2.6	2.0	1.9	1.7	6.9 CMS
Max	2.0	3.5	4.1	15.3	25.4	99.6	48.3	8.8	3.0	2.2	2.4	2.4	99.6 CMS
Min	1.3	1.3	1.3	1.3	3.3	6.7	8.0	3.0	2.2	1.9	1.7	1.5	1.3 CMS
Runoff	3.72	4.62	5.65	9.91	29.71	85.35	45.49	12.11	6.92	5.45	4.75	4.58	218.27 MCM

Momentary Peak 128.20 CMS, at 4.74 M (A.D), at 24.00 Hours, on Sep 16, 1995

Runoff Yield 10.38 Liters/Second/Square KM, Momentary Peak Yield 192.782 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

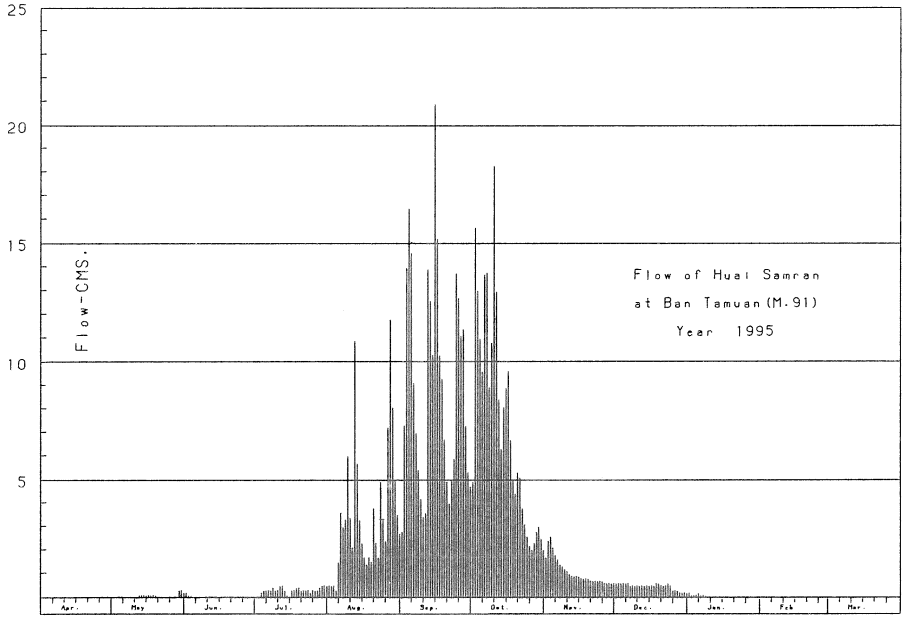
Huai Samran at Ban Tamuan, Si Sa Ket (M.91)

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	Stable.
Overbank Flow Conditions	No overbank flow.
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 45 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.79	0.95	1.16	0.99	1.26	1.71	2.01	1.54	1.29	1.16	1.13	1.19	
2	0.87	0.95	1.15	1.09	1.25	2.30	3.09	1.66	1.29	1.15	1.25	1.19	
3	0.79	0.95	1.13	1.16	1.25	2.95	2.86	1.68	1.28	1.13	1.31	1.19	
4	0.79	0.96	1.11	1.19	1.22	3.16	2.68	1.61	1.28	1.14	1.31	1.19	
5	0.79	0.98	1.09	1.21	1.50	3.00	2.54	1.55	1.28	1.17	1.32	1.19	
6	0.79	1.02	1.07	1.21	1.84	2.49	2.92	1.51	1.28	1.15	1.32	1.19	
7	0.86	1.02	1.06	1.21	1.75	2.27	2.93	1.48	1.27	1.13	1.32	1.19	
8	0.85	1.04	1.04	1.23	1.80	2.07	2.47	1.46	1.27	1.12	1.30	1.18	
9	0.87	1.04	1.01	1.21	2.15	1.92	2.66	1.44	1.27	1.11	1.28	1.18	
10	0.87	1.06	0.99	1.21	1.81	1.81	3.31	1.42	1.27	1.10	1.23	1.18	
11	0.87	1.11	0.98	1.25	1.61	1.84	2.86	1.39	1.27	1.09	1.21	1.18	
12	0.87	1.13	0.98	1.25	2.67	2.94	2.42	1.38	1.27	1.09	1.21	1.18	
13	0.87	1.13	0.97	1.19	2.11	2.82	2.19	1.38	1.26	1.09	1.21	1.18	
14	0.86	1.14	0.98	1.14	1.80	2.61	2.38	1.38	1.26	1.09	1.20	1.17	
15	0.86	1.14	1.03	1.11	1.64	3.51	2.47	1.37	1.26	1.07	1.20	1.17	
16	0.86	1.12	1.01	1.19	1.54	3.05	2.54	1.35	1.26	1.07	1.20	1.16	
17	0.85	1.12	1.00	1.22	1.48	2.61	2.23	1.35	1.26	1.09	1.20	1.16	
18	0.85	1.12	0.99	1.23	1.54	2.51	2.03	1.35	1.28	1.08	1.20	1.16	
19	0.85	1.12	0.97	1.23	1.50	2.23	1.95	1.34	1.28	1.07	1.20	1.16	
20	0.85	1.05	0.96	1.22	1.86	2.01	2.06	1.33	1.27	1.06	1.20	1.14	
21	0.85	1.05	0.95	1.21	1.64	1.89	2.04	1.33	1.27	1.06	1.20	1.14	
22	0.85	1.05	0.95	1.20	1.54	2.03	1.87	1.33	1.27	1.07	1.20	1.17	
23	0.85	1.04	0.94	1.19	2.01	2.14	1.76	1.32	1.28	1.08	1.20	1.19	
24	0.85	1.04	0.96	1.17	1.80	2.93	1.68	1.32	1.26	1.07	1.20	1.20	
25	0.85	1.04	0.98	1.20	1.65	2.83	1.63	1.31	1.22	1.08	1.20	1.20	
26	0.85	1.04	0.99	1.22	2.29	2.69	1.60	1.30	1.20	1.08	1.20	1.20	
27	0.89	1.04	1.01	1.22	2.75	2.71	1.64	1.30	1.19	1.09	1.20	1.22	
28	0.94	1.09	1.00	1.23	2.38	2.30	1.72	1.30	1.17	1.09	1.20	1.23	
29	0.95	1.20	0.99	1.26	2.03	2.06	1.75	1.30	1.17	1.10	1.19	1.22	
30	0.95	1.19	0.99	1.26	1.82	1.99	1.67	1.30	1.17	1.11		1.22	
31		1.17		1.26	1.70		1.59		1.17	1.12		1.22	
Mean	0.86	1.07	1.01	1.20	1.78	2.45	2.24	1.40	1.25	1.10	1.23	1.19	
Max	0.95	1.20	1.16	1.26	2.75	3.51	3.31	1.68	1.29	1.17	1.32	1.23	3.51
Min	0.79	0.95	0.94	0.99	1.22	1.71	1.59	1.30	1.17	1.06	1.13	1.14	0.79

Annual Max Momentary Gage Height 3.59 M (A.D), at 12.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.28 M (A.D)
Left Bank Elevation 6.81 M (A.D)
Right Bank Elevation 6.01 M (A.D), Drainage Area 128 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.2	0.0	0.5	2.8	4.9	1.7	0.6	0.2	0.0	0.0	
2	0.0	0.0	0.1	0.0	0.5	7.3	15.7	2.4	0.6	0.1	0.0	0.0	
3	0.0	0.0	0.1	0.2	0.5	14.0	13.0	2.6	0.6	0.1	0.0	0.0	
4	0.0	0.0	0.0	0.3	0.3	16.5	11.0	2.1	0.6	0.1	0.0	0.0	
5	0.0	0.0	0.0	0.3	1.5	14.6	9.6	1.8	0.6	0.2	0.0	0.0	
6	0.0	0.0	0.0	0.3	3.6	9.1	13.7	1.6	0.6	0.1	0.0	0.0	
7	0.0	0.0	0.0	0.3	3.0	7.0	13.8	1.4	0.5	0.1	0.0	0.0	
8	0.0	0.0	0.0	0.4	3.3	5.4	8.9	1.3	0.5	0.1	0.0	0.0	
9	0.0	0.0	0.0	0.3	6.0	4.2	10.8	1.2	0.5	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.3	3.4	3.4	18.3	1.1	0.5	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.5	2.1	3.6	13.0	1.0	0.5	0.0	0.0	0.0	
12	0.0	0.1	0.0	0.5	10.9	13.9	8.4	0.9	0.5	0.0	0.0	0.0	
13	0.0	0.1	0.0	0.3	5.7	12.6	6.3	0.9	0.5	0.0	0.0	0.0	
14	0.0	0.1	0.0	0.1	3.3	10.3	8.1	0.9	0.5	0.0	0.0	0.0	
15	0.0	0.1	0.0	0.0	2.3	20.9	8.9	0.9	0.5	0.0	0.0	0.0	
16	0.0	0.1	0.0	0.3	1.7	15.2	9.6	0.8	0.5	0.0	0.0	0.0	
17	0.0	0.1	0.0	0.3	1.4	10.3	6.7	0.8	0.5	0.0	0.0	0.0	
18	0.0	0.1	0.0	0.4	1.7	9.3	5.0	0.8	0.6	0.0	0.0	0.0	
19	0.0	0.1	0.0	0.4	1.5	6.7	4.4	0.8	0.6	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.3	3.8	4.9	5.3	0.7	0.5	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.3	2.3	4.0	5.1	0.7	0.5	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.3	1.7	5.0	3.8	0.7	0.5	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.3	4.9	5.9	3.1	0.7	0.6	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.2	3.3	13.8	2.6	0.7	0.5	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.3	2.4	12.7	2.2	0.7	0.3	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.3	7.2	11.1	2.0	0.6	0.3	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.3	11.8	11.4	2.3	0.6	0.3	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.4	8.1	7.3	2.8	0.6	0.2	0.0	0.0	0.0	
29	0.0	0.3	0.0	0.5	5.0	5.3	3.0	0.6	0.2	0.0	0.0	0.0	
30	0.0	0.3	0.0	0.5	3.5	4.7	2.5	0.6	0.2	0.0		0.0	
31		0.2		0.5	2.7		2.0		0.2	0.0		0.0	
Total	0.0	1.6	0.4	9.4	109.9	273.2	226.8	32.2	14.6	1.0	0.0	0.0	669.1 CMSDAY
Mean	0.0	0.1	0.0	0.3	3.5	9.1	7.3	1.1	0.5	0.0	0.0	0.0	1.8 CMS
Max	0.0	0.3	0.2	0.5	11.8	20.9	18.3	2.6	0.6	0.2	0.0	0.0	20.9 CMS
Min	0.0	0.0	0.0	0.0	0.3	2.8	2.0	0.6	0.2	0.0	0.0	0.0	0.0 CMS
Runoff	0.00	0.14	0.03	0.81	9.50	23.60	19.60	2.78	1.26	0.09	0.00	0.00	57.81 MCM

Momentary Peak 22.06 CMS, at 3.59 M (A.D), at 12.00 Hours, on Sep 15, 1995

Runoff Yield 14.28 Liters/Second/Square KM, Momentary Peak Yield 172.34 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

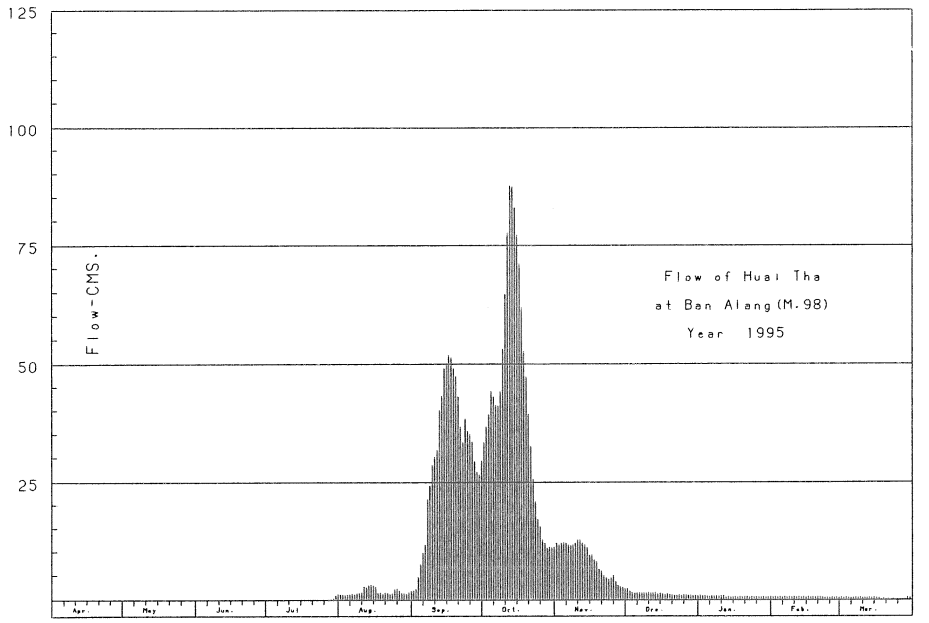
Huai Tha at Ban Alang, Si Sa Ket (M.98)

Location	Lat. 14-52-39 N., Long. 1o4-26-16 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	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by two weirs about 100 meters above gage site. Stage-discharge relation defined by 12 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.55	2.40	2.48	2.38	2.98	3.01	3.55	3.23	3.02	2.96	2.94	2.93	
2	2.55	2.43	2.48	2.43	2.97	3.02	3.59	3.22	3.01	2.96	2.94	2.93	
3	2.54	2.43	2.48	2.43	2.97	3.08	3.62	3.23	3.00	2.95	2.94	2.93	
4	2.54	2.43	2.47	2.46	2.97	3.14	3.67	3.23	3.00	2.95	2.94	2.93	
5	2.53	2.43	2.47	2.46	2.98	3.19	3.66	3.23	3.00	2.95	2.94	2.93	
6	2.53	2.42	2.46	2.46	2.99	3.22	3.64	3.22	3.00	2.95	2.94	2.93	
7	2.53	2.41	2.46	2.45	2.98	3.39	3.64	3.22	3.00	2.95	2.94	2.93	
8	2.52	2.41	2.45	2.46	2.99	3.43	3.67	3.22	3.00	2.95	2.94	2.93	
9	2.51	2.42	2.45	2.46	3.00	3.49	4.04	3.23	3.00	2.95	2.94	2.93	
10	2.50	2.42	2.44	2.46	3.00	3.51	4.62	3.24	3.00	2.95	2.94	2.93	
11	2.49	2.45	2.44	2.47	3.03	3.53	5.21	3.24	3.00	2.95	2.94	2.93	
12	2.48	2.44	2.44	2.47	3.03	3.63	5.63	3.23	3.00	2.94	2.94	2.93	
13	2.48	2.44	2.45	2.47	3.04	3.66	5.62	3.22	3.00	2.94	2.94	2.93	
14	2.49	2.45	2.46	2.47	3.04	3.82	5.45	3.21	2.99	2.94	2.94	2.93	
15	2.49	2.45	2.46	2.49	3.04	3.88	5.19	3.18	2.99	2.94	2.94	2.93	
16	2.48	2.45	2.46	2.59	3.03	3.97	4.92	3.18	2.98	2.94	2.94	2.93	
17	2.48	2.44	2.46	2.59	3.00	3.94	4.47	3.16	2.98	2.94	2.94	2.92	
18	2.47	2.44	2.45	2.62	3.00	3.82	4.01	3.15	2.98	2.94	2.94	2.92	
19	2.46	2.32	2.45	2.80	2.99	3.72	3.72	3.12	2.98	2.94	2.94	2.92	
20	2.46	2.27	2.45	2.82	3.00	3.66	3.62	3.11	2.97	2.94	2.94	2.91	
21	2.46	2.27	2.44	2.83	3.00	3.59	3.54	3.09	2.97	2.94	2.94	2.91	
22	2.45	2.26	2.44	2.82	2.99	3.55	3.45	3.08	2.97	2.94	2.94	2.91	
23	2.45	2.25	2.43	2.82	2.99	3.61	3.38	3.07	2.97	2.94	2.93	2.91	
24	2.44	2.25	2.43	2.85	3.02	3.58	3.32	3.08	2.97	2.94	2.93	2.91	
25	2.43	2.25	2.41	2.90	3.02	3.57	3.29	3.09	2.97	2.94	2.93	2.91	
26	2.42	2.24	2.41	2.90	3.01	3.55	3.24	3.06	2.97	2.94	2.93	2.91	
27	2.41	2.23	2.38	2.90	3.00	3.50	3.23	3.04	2.97	2.94	2.93	2.91	
28	2.40	2.50	2.38	2.91	2.99	3.47	3.21	3.03	2.96	2.94	2.93	2.92	
29	2.37	2.50	2.37	2.92	2.99	3.46	3.21	3.03	2.96	2.94	2.93	2.93	
30	2.37	2.49	2.37	2.97	3.00	3.50	3.21	3.02	2.96	2.94		2.93	
31		2.49		2.98	3.01		3.21		2.96	2.94		2.93	
Mean	2.48	2.39	2.44	2.65	3.00	3.52	3.93	3.16	2.98	2.94	2.94	2.92	
Max	2.55	2.50	2.48	2.98	3.04	3.97	5.63	3.24	3.02	2.96	2.94	2.93	5.63
Min	2.37	2.23	2.37	2.38	2.97	3.01	3.21	3.02	2.96	2.94	2.93	2.91	2.23

Annual Max Momentary Gage Height 5.67 M (A.D), at 24.00 Hours, on Oct 12, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.11 M (A.D)
Left Bank Elevation 7.61 M (A.D)
Right Bank Elevation 7.38 M (A.D), Drainage Area 1092 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.0	0.0	1.2	1.9	33.5	12.1	2.3	0.9	0.6	0.5	
2	0.0	0.0	0.0	0.0	1.0	2.3	36.7	11.6	1.9	0.9	0.6	0.5	
3	0.0	0.0	0.0	0.0	1.0	4.7	39.4	12.1	1.5	0.8	0.6	0.5	
4	0.0	0.0	0.0	0.0	1.0	7.5	44.2	12.1	1.5	0.8	0.6	0.5	
5	0.0	0.0	0.0	0.0	1.2	10.0	43.2	12.1	1.5	0.8	0.6	0.5	
6	0.0	0.0	0.0	0.0	1.3	11.6	41.3	11.6	1.5	0.8	0.6	0.5	
7	0.0	0.0	0.0	0.0	1.2	21.4	41.3	11.6	1.5	0.8	0.6	0.5	
8	0.0	0.0	0.0	0.0	1.3	24.2	44.2	11.6	1.5	0.8	0.6	0.5	
9	0.0	0.0	0.0	0.0	1.5	28.7	53.3	12.1	1.5	0.8	0.6	0.5	
10	0.0	0.0	0.0	0.0	1.5	30.3	64.9	12.7	1.5	0.8	0.6	0.5	
11	0.0	0.0	0.0	0.0	2.7	31.9	77.7	12.7	1.5	0.8	0.6	0.5	
12	0.0	0.0	0.0	0.0	2.7	40.4	87.8	12.1	1.5	0.6	0.6	0.5	
13	0.0	0.0	0.0	0.0	3.1	43.2	87.5	11.6	1.5	0.6	0.6	0.5	
14	0.0	0.0	0.0	0.0	3.1	49.2	83.2	11.1	1.3	0.6	0.6	0.5	
15	0.0	0.0	0.0	0.0	3.1	50.3	77.3	9.5	1.3	0.6	0.6	0.5	
16	0.0	0.0	0.0	0.0	2.7	51.9	71.3	9.5	1.2	0.6	0.6	0.5	
17	0.0	0.0	0.0	0.0	1.5	51.4	61.9	8.5	1.2	0.6	0.6	0.3	
18	0.0	0.0	0.0	0.0	1.5	49.2	52.7	8.0	1.2	0.6	0.6	0.3	
19	0.0	0.0	0.0	0.0	1.3	47.4	47.4	6.5	1.2	0.6	0.6	0.3	
20	0.0	0.0	0.0	0.0	1.5	43.2	39.4	6.0	1.0	0.6	0.6	0.2	
21	0.0	0.0	0.0	0.0	1.5	36.7	32.7	5.1	1.0	0.6	0.6	0.2	
22	0.0	0.0	0.0	0.0	1.3	33.5	25.7	4.7	1.0	0.6	0.6	0.2	
23	0.0	0.0	0.0	0.0	1.3	38.4	20.8	4.3	1.0	0.6	0.5	0.2	
24	0.0	0.0	0.0	0.0	2.3	35.9	17.2	4.7	1.0	0.6	0.5	0.2	
25	0.0	0.0	0.0	0.0	2.3	35.1	15.5	5.1	1.0	0.6	0.5	0.2	
26	0.0	0.0	0.0	0.0	1.9	33.5	12.7	3.9	1.0	0.6	0.5	0.2	
27	0.0	0.0	0.0	0.0	1.5	29.5	12.1	3.1	1.0	0.6	0.5	0.2	
28	0.0	0.0	0.0	0.2	1.3	27.2	11.1	2.7	0.9	0.6	0.5	0.3	
29	0.0	0.0	0.0	0.3	1.3	26.5	11.1	2.7	0.9	0.6	0.5	0.5	
30	0.0	0.0	0.0	1.0	1.5	29.5	11.1	2.3	0.9	0.6		0.5	
31		0.0		1.2	1.9		11.1		0.9	0.6		0.5	
Total	0.0	0.0	0.0	2.7	53.5	926.5	1309.3	253.7	39.7	21.0	16.7	12.3	2635.4 CMSDAY
Mean	0.0	0.0	0.0	0.1	1.7	30.9	42.2	8.5	1.3	0.7	0.6	0.4	7.2 CMS
Max	0.0	0.0	0.0	1.2	3.1	51.9	87.8	12.7	2.3	0.9	0.6	0.5	87.8 CMS
Min	0.0	0.0	0.0	0.0	1.0	1.9	11.1	2.3	0.9	0.6	0.5	0.2	0.0 CMS
Runoff	0.00	0.00	0.00	0.23	4.62	80.05	113.12	21.92	3.43	1.81	1.44	1.06	227.70 MCM

Momentary Peak 88.75 CMS, at 5.67 M (A.D), at 24.00 Hours, on Oct 12, 1995

Runoff Yield 6.59 Liters/Second/Square KM, Momentary Peak Yield 81.273 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

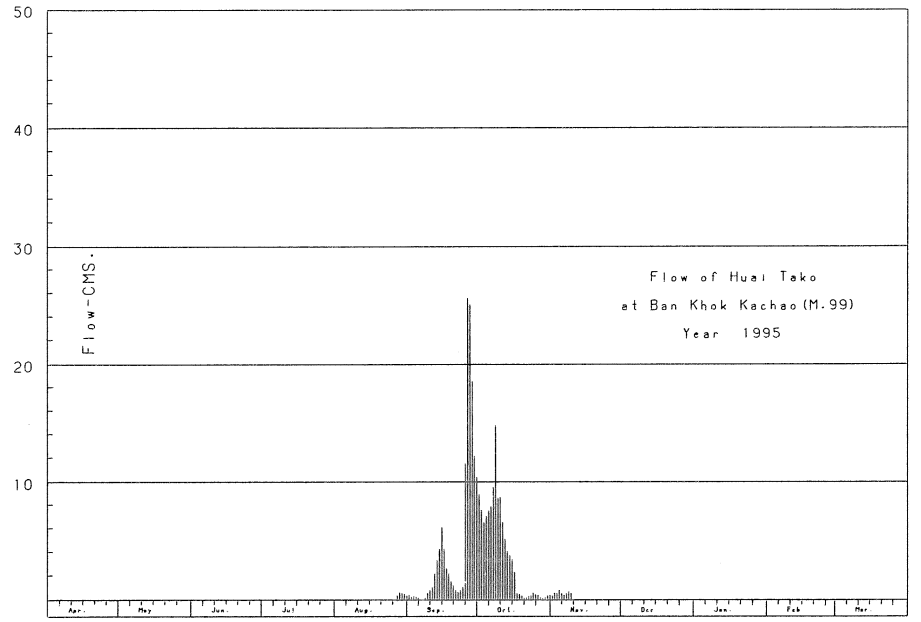
Huai Tako at Ban Khok Kachao, Buri Ram (M.99)

Location	Lat. 14-36-22 N., Long. 103-06-30 E., on left bank at the bridge of Chokchai-Det Udom Highway near guidepost 103-104 and about 2.5 kilometers from Amphoe Prakhon Chai, Ban Khok Kachao, Amphoe Prakhon Chai, Buri Ram.
Drainage Area	88 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.- Highways Dept.
Location	On right bank at the footpath of the bridge.
Elevation	+3.606 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 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 because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +1.65 m (A.D.) and is included.
General Description	Records fair. No records on Apr.8-30, May 9-31, Jun.2-30, Jul.1-10. Flow effected by the weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.43	1.22	1.75	1.22	0.59	0.35	0.26	0.12	
2	0.00	0.00	0.00	0.00	0.44	1.19	1.70	1.27	0.58	0.35	0.25	0.12	
3	0.00	0.00	0.00	0.00	0.45	1.19	1.66	1.30	0.57	0.35	0.25	0.12	
4	0.00	0.00	0.00	0.00	0.46	1.18	1.68	1.34	0.56	0.33	0.24	0.12	
5	0.00	0.00	0.00	0.00	0.46	1.17	1.70	1.28	0.55	0.33	0.24	0.12	
6	0.00	0.00	0.00	0.00	0.49	1.14	1.71	1.22	0.52	0.34	0.23	0.11	
7	0.00	0.00	0.00	0.00	0.49	1.10	1.77	1.29	0.53	0.34	0.22	0.11	
8	0.00	0.00	0.00	0.00	0.50	1.17	1.94	1.32	0.52	0.35	0.21	0.11	
9	0.00	0.00	0.00	0.00	0.52	1.27	1.74	1.27	0.51	0.36	0.21	0.10	
10	0.00	0.00	0.00	0.00	0.53	1.35	1.74	1.07	0.51	0.36	0.20	0.10	
11	0.00	0.00	0.00	0.10	0.56	1.37	1.66	1.07	0.51	0.36	0.20	0.10	
12	0.00	0.00	0.00	0.10	0.56	1.45	1.60	1.08	0.50	0.36	0.20	0.10	
13	0.00	0.00	0.00	0.12	0.58	1.52	1.55	1.08	0.50	0.36	0.21	0.09	
14	0.00	0.00	0.00	0.13	0.61	1.56	1.54	1.07	0.51	0.37	0.21	0.09	
15	0.00	0.00	0.00	0.14	0.61	1.64	1.52	1.02	0.53	0.38	0.22	0.08	
16	0.00	0.00	0.00	0.17	0.64	1.56	1.46	0.99	0.52	0.39	0.22	0.08	
17	0.00	0.00	0.00	0.21	0.66	1.48	1.29	0.93	0.51	0.39	0.23	0.08	
18	0.00	0.00	0.00	0.23	0.71	1.45	1.25	0.90	0.50	0.39	0.24	0.07	
19	0.00	0.00	0.00	0.24	0.75	1.41	1.21	0.89	0.49	0.37	0.24	0.07	
20	0.00	0.00	0.00	0.28	0.75	1.38	1.17	0.88	0.49	0.37	0.24	0.07	
21	0.00	0.00	0.00	0.29	0.78	1.35	1.16	0.85	0.49	0.36	0.23	0.06	
22	0.00	0.00	0.00	0.35	0.83	1.32	1.18	0.83	0.48	0.36	0.23	0.06	
23	0.00	0.00	0.00	0.36	0.92	1.35	1.20	0.77	0.48	0.35	0.21	0.05	
24	0.00	0.00	0.00	0.42	0.97	1.37	1.29	0.74	0.47	0.35	0.20	0.05	
25	0.00	0.00	0.00	0.46	0.99	1.84	1.25	0.70	0.45	0.34	0.20	0.04	
26	0.00	0.00	0.00	0.47	1.07	2.23	1.20	0.69	0.43	0.33	0.19	0.04	
27	0.00	0.00	0.00	0.49	1.22	2.22	1.17	0.67	0.41	0.32	0.18	0.03	
28	0.00	0.00	0.00	0.50	1.27	2.05	1.16	0.65	0.39	0.31	0.17	0.02	
29	0.00	0.00	0.00	0.49	1.30	1.86	1.17	0.63	0.37	0.29	0.16	0.02	
30	0.00	0.00	0.00	0.48	1.24	1.80	1.20	0.60	0.35	0.27		0.01	
31		0.00		0.48	1.20		1.21		0.35	0.26		0.01	
Mean	0.00	0.00	0.00	0.21	0.74	1.47	1.45	0.99	0.49	0.35	0.22	0.08	
Max	0.00	0.00	0.00	0.50	1.30	2.23	1.94	1.34	0.59	0.39	0.26	0.12	2.23
Min	0.00	0.00	0.00	0.00	0.43	1.10	1.16	0.60	0.35	0.26	0.16	0.01	0.00

Annual Max Momentary Gage Height 2.31 M (A.D), at 18.00 Hours, on Sep 26, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.01 M (A.D)
Left Bank Elevation 1.64 M (A.D)
Right Bank Elevation 2.62 M (A.D), Drainage Area 88 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.0	0.0	0.0	0.4	9.0	0.4	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.3	7.6	0.6	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.3	6.6	0.6	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.3	7.1	0.8	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.2	7.6	0.6	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.1	7.9	0.4	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.6	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.2	14.8	0.7	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.6	8.7	0.6	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.8	8.7	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	1.1	6.6	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	2.2	5.2	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	3.4	4.1	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	4.3	3.8	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	6.2	3.4	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	4.3	2.4	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	2.7	0.6	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	2.2	0.5	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	1.6	0.4	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	1.2	0.2	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	11.6	0.5	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	25.6	0.4	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.4	25.1	0.2	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.6	18.6	0.2	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.6	12.2	0.2	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.5	10.4	0.4	0.0	0.0	0.0		0.0	
31		0.0		0.0	0.4		0.4		0.0	0.0		0.0	
Total	0.0	0.0	0.0	0.0	2.5	139.3	118.6	5.3	0.0	0.0	0.0	0.0	265.7 CMSDAY
Mean	0.0	0.0	0.0	0.0	0.1	4.6	3.8	0.2	0.0	0.0	0.0	0.0	0.7 CMS
Max	0.0	0.0	0.0	0.0	0.6	25.6	14.8	0.8	0.0	0.0	0.0	0.0	25.6 CMS
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0 CMS
Runoff	0.00	0.00	0.00	0.00	0.22	12.04	10.25	0.46	0.00	0.00	0.00	0.00	22.96 MCM

Momentary Peak 28.92 CMS, at 2.31 M (A.D), at 18.00 Hours, on Sep 26, 1995

Runoff Yield 8.25 Liters/Second/Square KM, Momentary Peak Yield 328.636 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

Huai Saneng at Ban Bu Chek, Surin (M.100)

Location — Lat. 14-37-01 N., Long. 103-28-44 E., on left bank at the bridge of Chokchai-Det Udom Highway near guidepost 145-146 and about 8 kilometers from Amphoe Prasat, Amphoe Prasat, Surin.

Drainage Area — 131 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-Highways Dept.

Location — On right bank at the abutment of the bridge.

Elevation — +3.332 m.(A.D.)

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

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

Period of Available Gage Records — 1979 to date.

Rating Operation

Period of Rating — 1979 to date.

Rated by Float — -

Rated by Current Meter — 1979 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — Overbank flow starts at elevation +1.47 m.(A.D.), records are channel flow only.

General Description — Records fair. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

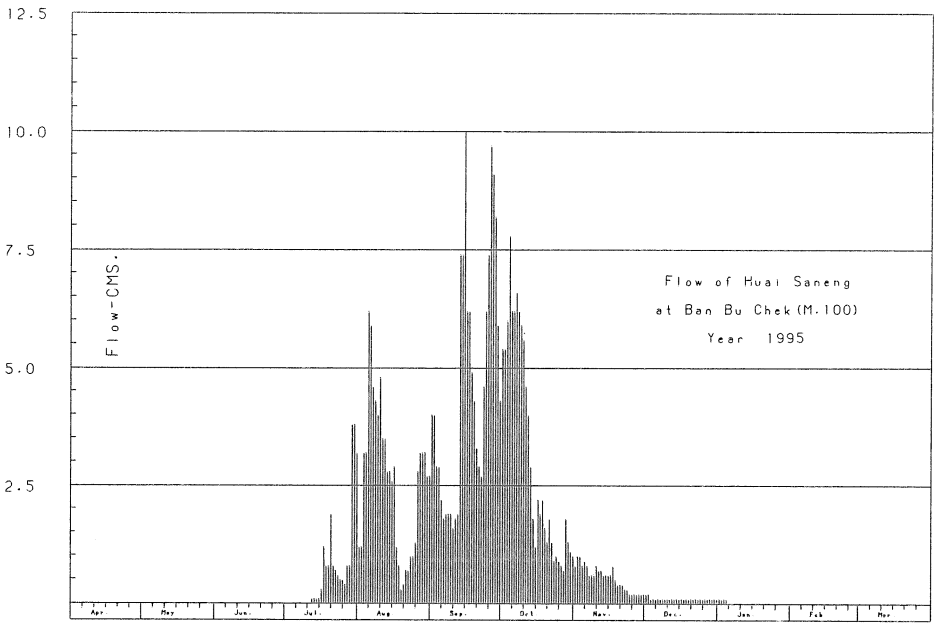
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.36	0.40	0.50	1.20	1.46	1.55	1.10	0.78	0.66	0.44	0.32	
2	0.26	0.36	0.40	0.50	1.20	1.46	1.55	1.16	0.78	0.66	0.40	0.32	
3	0.26	0.36	0.40	0.50	1.40	1.38	1.59	1.14	0.76	0.66	0.40	0.32	
4	0.26	0.34	0.40	0.58	1.40	1.38	1.68	1.10	0.75	0.64	0.40	0.32	
5	0.26	0.34	0.40	0.58	1.60	1.32	1.60	1.12	0.75	0.62	0.38	0.32	
6	0.26	0.34	0.40	0.60	1.58	1.28	1.60	1.10	0.75	0.60	0.38	0.32	
7	0.26	0.32	0.40	0.60	1.50	1.30	1.62	1.05	0.74	0.60	0.38	0.32	
8	0.26	0.32	0.40	0.60	1.48	1.30	1.60	1.05	0.74	0.60	0.36	0.34	
9	0.26	0.32	0.40	0.60	1.46	1.30	1.58	1.05	0.72	0.58	0.36	0.34	
10	0.26	0.32	0.46	0.60	1.51	1.26	1.56	1.10	0.72	0.58	0.36	0.36	
11	0.26	0.32	0.46	0.60	1.42	1.28	1.50	1.06	0.72	0.56	0.36	0.36	
12	0.26	0.32	0.46	0.68	1.42	1.30	1.46	1.06	0.72	0.54	0.36	0.36	
13	0.26	0.32	0.46	0.68	1.37	1.66	1.38	1.05	0.72	0.54	0.36	0.36	
14	0.26	0.36	0.46	0.68	1.37	1.66	1.28	1.05	0.72	0.56	0.36	0.36	
15	0.26	0.36	0.46	0.68	1.35	1.78	1.20	1.05	0.72	0.55	0.36	0.36	
16	0.25	0.36	0.46	0.92	1.38	1.60	1.32	1.04	0.72	0.55	0.36	0.34	
17	0.25	0.36	0.46	1.20	1.20	1.60	1.30	1.10	0.72	0.54	0.36	0.34	
18	0.25	0.36	0.48	1.10	1.10	1.52	1.32	1.02	0.72	0.54	0.36	0.34	
19	0.25	0.36	0.48	1.10	0.90	1.48	1.26	0.96	0.72	0.54	0.36	0.34	
20	0.25	0.36	0.48	1.30	0.98	1.41	1.22	0.98	0.72	0.54	0.36	0.34	
21	0.24	0.36	0.48	1.10	1.08	1.38	1.28	0.96	0.72	0.52	0.36	0.34	
22	0.24	0.36	0.48	1.08	1.08	1.36	1.22	0.86	0.72	0.52	0.36	0.34	
23	0.24	0.36	0.48	1.04	1.14	1.50	1.12	0.86	0.70	0.50	0.36	0.36	
24	0.24	0.36	0.48	1.02	1.14	1.60	1.16	0.84	0.70	0.50	0.34	0.36	
25	0.24	0.36	0.48	1.02	1.22	1.66	1.12	0.80	0.66	0.48	0.34	0.36	
26	0.24	0.36	0.48	0.98	1.37	1.77	1.10	0.78	0.66	0.48	0.32	0.36	
27	0.24	0.36	0.48	1.10	1.40	1.74	1.06	0.78	0.66	0.48	0.32	0.36	
28	0.37	0.36	0.50	1.10	1.40	1.70	1.28	0.78	0.66	0.48	0.32	0.34	
29	0.37	0.36	0.50	1.44	1.40	1.58	1.21	0.78	0.66	0.45	0.32	0.34	
30	0.37	0.36	0.50	1.44	1.36	1.48	1.18	0.84	0.66	0.45		0.32	
31		0.36		1.40	1.36		1.16		0.66	0.44		0.32	
Mean	0.26	0.35	0.45	0.88	1.32	1.48	1.36	0.99	0.71	0.55	0.36	0.34	
Max	0.37	0.36	0.50	1.44	1.60	1.78	1.68	1.16	0.78	0.66	0.44	0.36	1.78
Min	0.24	0.32	0.40	0.50	0.90	1.26	1.06	0.78	0.66	0.44	0.32	0.32	0.24

Annual Max Momentary Gage Height — 1.78 M (A.D), at 6.00 Hours, on Sep 15, 1995

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.20 M (A.D)

Left Bank Elevation — 1.54 M (A.D)

Right Bank Elevation — 1.46 M (A.D), Drainage Area — 131 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.0	0.0	1.2	4.0	5.4	0.8	0.2	0.1	0.0	0.0	
2	0.0	0.0	0.0	0.0	1.2	4.0	5.4	1.0	0.2	0.1	0.0	0.0	
3	0.0	0.0	0.0	0.0	3.2	2.9	6.0	1.0	0.1	0.1	0.0	0.0	
4	0.0	0.0	0.0	0.0	3.2	2.9	7.8	0.8	0.1	0.1	0.0	0.0	
5	0.0	0.0	0.0	0.0	6.2	2.2	6.2	0.9	0.1	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	5.9	1.8	6.2	0.8	0.1	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	4.6	1.9	6.6	0.6	0.1	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	4.3	1.9	6.2	0.6	0.1	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	4.0	1.9	5.9	0.6	0.1	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	4.8	1.6	5.6	0.8	0.1	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	3.5	1.8	4.6	0.7	0.1	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.1	3.5	1.9	4.0	0.7	0.1	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.1	2.8	7.4	2.9	0.6	0.1	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.1	2.8	7.4	1.8	0.6	0.1	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.1	2.6	10.0	1.2	0.6	0.1	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.3	2.9	6.2	2.2	0.6	0.1	0.0	0.0	0.0	
17	0.0	0.0	0.0	1.2	1.2	6.2	1.9	0.8	0.1	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.8	0.8	4.9	2.2	0.5	0.1	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.8	0.3	4.3	1.6	0.4	0.1	0.0	0.0	0.0	
20	0.0	0.0	0.0	1.9	0.4	3.3	1.3	0.4	0.1	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.8	0.7	2.9	1.8	0.4	0.1	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.7	0.7	2.7	1.3	0.3	0.1	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.6	1.0	4.6	0.9	0.3	0.1	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.5	1.0	6.2	1.0	0.2	0.1	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.5	1.3	7.4	0.9	0.2	0.1	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.4	2.8	9.7	0.8	0.2	0.1	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.8	3.2	9.1	0.7	0.2	0.1	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.8	3.2	8.2	1.8	0.2	0.1	0.0	0.0	0.0	
29	0.0	0.0	0.0	3.8	3.2	5.9	1.3	0.2	0.1	0.0	0.0	0.0	
30	0.0	0.0	0.0	3.8	2.7	4.3	1.1	0.2	0.1	0.0		0.0	
31		0.0		3.2	2.7		1.0		0.1	0.0		0.0	
Total	0.0	0.0	0.0	21.3	81.9	139.5	97.6	16.2	3.3	0.4	0.0	0.0	360.2 CMSDAY
Mean	0.0	0.0	0.0	0.7	2.6	4.7	3.1	0.5	0.1	0.0	0.0	0.0	1.0 CMS
Max	0.0	0.0	0.0	3.8	6.2	10.0	7.8	1.0	0.2	0.1	0.0	0.0	10.0 CMS
Min	0.0	0.0	0.0	0.0	0.3	1.6	0.7	0.2	0.1	0.0	0.0	0.0	0.0 CMS
Runoff	0.00	0.00	0.00	1.84	7.08	12.05	8.43	1.40	0.29	0.03	0.00	0.00	31.12 MCM

Momentary Peak 9.96 CMS, at 1.78 M (A.D), at 6.00 Hours, on Sep 15, 1995

Runoff Yield 7.51 Liters/Second/Square KM, Momentary Peak Yield 76.031 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

Huai Thap Than at Ban Yaeng, Surin (M.101)

Location — Lat. 14°-37'-42" N., Long. 103°-42'-12" E., on left bank at the bridge of Chokchai-Det Udom Highway near guidepost 170-171 and about 17 kilometers from Amphoe Sangkha, Ban Yaeng, Amphoe Sangkha, Surin.

Drainage Area — 390 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-Highways Dept.

Location — On right bank at the abutment of the bridge.

Elevation — +8.945 m.(A.D.)

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

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

Period of Available Gage Records — 1979 to date.

Rating Operation

Period of Rating — 1980 to date.

Rated by Float — -

Rated by Current Meter — 1980 to date.

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

Overbank Flow Conditions — Overbank flow starts at elevation +6.44 m.(A.D.),records are channel flow only.

General Description — Records fair. Flow effected by the weir during Jan.1-Mar.31,96, discharge estimated by recession equation. Stage-discharge relation defined by 11 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

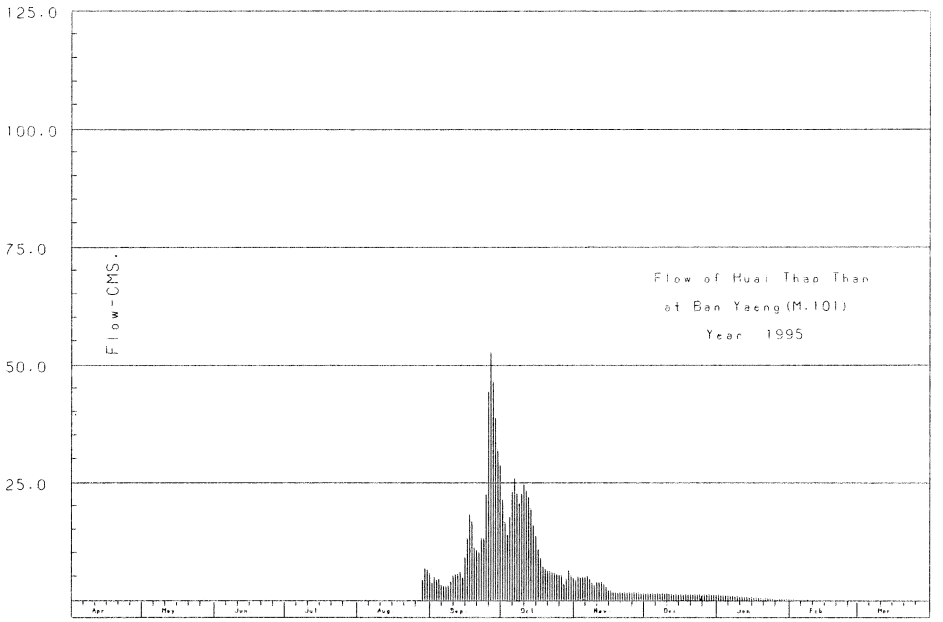
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.91	4.79	4.72	4.86	5.26	6.47	7.00	6.52	6.09	5.94	4.67	4.43	
2	4.92	4.78	4.73	4.88	5.26	6.55	6.92	6.56	6.09	5.93	4.66	4.42	
3	4.92	4.78	4.73	4.90	5.27	6.51	6.87	6.55	6.10	5.92	4.65	4.40	
4	4.91	4.77	4.72	4.92	5.27	6.53	6.94	6.56	6.10	5.91	4.64	4.40	
5	4.91	4.77	4.72	4.93	5.27	6.43	7.03	6.56	6.10	5.00	4.63	4.39	
6	4.90	4.76	4.71	4.93	5.26	6.40	7.07	6.57	6.10	4.99	4.62	4.39	
7	4.89	4.76	4.71	4.95	5.27	6.40	7.02	6.53	6.09	4.98	4.61	4.38	
8	4.89	4.76	4.70	4.96	5.30	6.41	6.99	6.46	6.09	4.87	4.60	4.38	
9	4.88	4.76	4.70	5.05	5.30	6.49	7.02	6.43	6.09	4.86	4.59	4.37	
10	4.88	4.75	4.71	5.06	5.30	6.57	7.05	6.47	6.09	4.85	4.58	4.37	
11	4.87	4.75	4.71	5.07	5.30	6.60	7.03	6.48	6.09	4.84	4.57	4.36	
12	4.87	4.75	4.72	5.08	5.31	6.60	7.01	6.48	6.00	4.83	4.56	4.36	
13	4.87	4.75	4.73	5.08	5.31	6.62	6.97	6.45	6.00	4.82	4.55	4.35	
14	4.86	4.75	4.74	5.07	5.31	6.55	6.91	6.37	6.00	4.81	4.54	4.34	
15	4.86	4.76	4.74	5.08	5.30	6.75	6.86	6.30	5.99	4.80	4.53	4.33	
16	4.85	4.76	4.75	5.09	5.30	6.85	6.80	6.28	5.99	4.79	4.53	4.33	
17	4.84	4.76	4.75	5.10	5.30	6.95	6.74	6.20	5.99	4.79	4.52	4.32	
18	4.83	4.75	4.74	5.11	5.29	6.92	6.69	6.18	5.99	4.78	4.52	4.32	
19	4.82	4.75	4.73	5.12	5.28	6.81	6.65	6.17	6.01	4.78	4.51	4.31	
20	4.81	4.74	4.72	5.14	5.27	6.79	6.64	6.16	6.01	4.77	4.51	4.31	
21	4.81	4.74	4.71	5.16	5.26	6.78	6.63	6.15	6.02	4.77	4.50	4.30	
22	4.80	4.73	4.78	5.16	5.25	6.85	6.62	6.15	6.02	4.76	4.50	4.29	
23	4.80	4.73	4.85	5.17	5.24	6.85	6.61	6.16	6.01	4.76	4.49	4.28	
24	4.79	4.72	4.85	5.18	5.23	7.02	6.60	6.16	6.01	4.75	4.49	4.27	
25	4.79	4.72	4.85	5.21	5.23	7.29	6.59	6.16	6.01	4.74	4.48	4.26	
26	4.78	4.71	4.85	5.22	5.24	7.36	6.58	6.17	5.99	4.73	4.47	4.26	
27	4.78	4.71	4.85	5.23	5.43	7.31	6.45	6.16	5.99	4.72	4.46	4.25	
28	4.80	4.70	4.85	5.24	6.52	7.23	6.53	6.15	5.98	4.71	4.45	4.25	
29	4.80	4.70	4.85	5.25	6.67	7.15	6.65	6.10	5.97	4.70	4.44	4.24	
30	4.79	4.70	4.85	5.25	6.64	7.11	6.58	6.09	5.96	4.69		4.24	
31		4.70		5.26	6.61		6.54		5.95	4.68		4.24	
Mean	4.85	4.74	4.76	5.09	5.45	6.77	6.79	6.32	6.03	4.94	4.55	4.33	
Max	4.92	4.79	4.85	5.26	6.67	7.36	7.07	6.57	6.10	5.94	4.67	4.43	7.36
Min	4.78	4.70	4.70	4.86	5.23	6.40	6.45	6.09	5.95	4.68	4.44	4.24	4.24

Annual Max Momentary Gage Height — 7.38 M (A.D), at 6.00 Hours, on Sep 26, 1995

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 2.53 M (A.D)

Left Bank Elevation — 6.43 M (A.D)

Right Bank Elevation — 7.02 M (A.D), Drainage Area — 390 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.0	0.0	0.2	3.9	21.4	4.5	1.6	1.3	0.4	0.1	
2	0.0	0.0	0.0	0.0	0.2	5.0	16.7	5.1	1.6	1.3	0.4	0.1	
3	0.0	0.0	0.0	0.0	0.2	4.4	14.1	5.0	1.6	1.2	0.4	0.1	
4	0.0	0.0	0.0	0.0	0.2	4.7	17.9	5.1	1.6	1.2	0.3	0.1	
5	0.0	0.0	0.0	0.0	0.2	3.4	23.4	5.1	1.6	1.1	0.3	0.1	
6	0.0	0.0	0.0	0.0	0.2	3.1	26.1	5.3	1.6	1.1	0.3	0.1	
7	0.0	0.0	0.0	0.0	0.2	3.1	22.7	4.7	1.6	1.1	0.3	0.1	
8	0.0	0.0	0.0	0.0	0.2	3.2	20.8	3.8	1.6	1.0	0.3	0.1	
9	0.0	0.0	0.0	0.0	0.2	4.1	22.7	3.4	1.6	1.0	0.3	0.1	
10	0.0	0.0	0.0	0.0	0.2	5.3	24.8	3.9	1.6	0.9	0.3	0.1	
11	0.0	0.0	0.0	0.0	0.2	5.7	23.4	4.0	1.6	0.9	0.3	0.1	
12	0.0	0.0	0.0	0.0	0.2	5.7	22.1	4.0	1.4	0.9	0.2	0.1	
13	0.0	0.0	0.0	0.0	0.2	6.1	19.6	3.6	1.4	0.8	0.2	0.1	
14	0.0	0.0	0.0	0.0	0.2	5.0	16.1	2.9	1.4	0.8	0.2	0.1	
15	0.0	0.0	0.0	0.0	0.2	9.3	13.7	2.3	1.4	0.8	0.2	0.1	
16	0.0	0.0	0.0	0.0	0.2	13.2	11.0	2.2	1.4	0.7	0.2	0.1	
17	0.0	0.0	0.0	0.1	0.2	18.4	9.0	1.9	1.4	0.7	0.2	0.1	
18	0.0	0.0	0.0	0.1	0.2	16.7	7.4	1.8	1.4	0.7	0.2	0.1	
19	0.0	0.0	0.0	0.1	0.2	11.4	6.7	1.8	1.4	0.6	0.2	0.1	
20	0.0	0.0	0.0	0.1	0.2	10.7	6.5	1.8	1.4	0.6	0.2	0.1	
21	0.0	0.0	0.0	0.1	0.2	10.3	6.3	1.8	1.4	0.6	0.2	0.1	
22	0.0	0.0	0.0	0.1	0.2	13.2	6.1	1.8	1.4	0.6	0.2	0.1	
23	0.0	0.0	0.0	0.1	0.1	13.2	5.9	1.8	1.4	0.5	0.2	0.1	
24	0.0	0.0	0.0	0.1	0.1	22.7	5.7	1.8	1.4	0.5	0.2	0.1	
25	0.0	0.0	0.0	0.1	0.1	44.5	5.6	1.8	1.4	0.5	0.1	0.0	
26	0.0	0.0	0.0	0.1	0.1	52.7	5.4	1.8	1.4	0.5	0.1	0.0	
27	0.0	0.0	0.0	0.1	0.3	46.7	3.6	1.8	1.4	0.5	0.1	0.0	
28	0.0	0.0	0.0	0.1	4.5	38.9	4.7	1.8	1.4	0.4	0.1	0.0	
29	0.0	0.0	0.0	0.2	7.0	32.1	6.7	1.6	1.3	0.4	0.1	0.0	
30	0.0	0.0	0.0	0.2	6.5	28.9	5.4	1.6	1.3	0.4		0.0	
31		0.0		0.2	5.9		4.8		1.3	0.4		0.0	
Total	0.0	0.0	0.0	1.8	29.0	445.6	406.3	89.8	45.3	24.0	6.7	2.4	1050.9 CMSDAY
Mean	0.0	0.0	0.0	0.1	0.9	14.9	13.1	3.0	1.5	0.8	0.2	0.1	2.9 CMS
Max	0.0	0.0	0.0	0.2	7.0	52.7	26.1	5.3	1.6	1.3	0.4	0.1	52.7 CMS
Min	0.0	0.0	0.0	0.0	0.1	3.1	3.6	1.6	1.3	0.4	0.1	0.0	0.0 CMS
Runoff	0.00	0.00	0.00	0.16	2.51	38.50	35.10	7.76	3.91	2.07	0.58	0.21	90.80 MCM

Momentary Peak 55.10 CMS, at 7.38 M (A.D), at 6.00 Hours, on Sep 26, 1995

Runoff Yield 7.36 Liters/Second/Square KM, Momentary Peak Yield 141.282 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

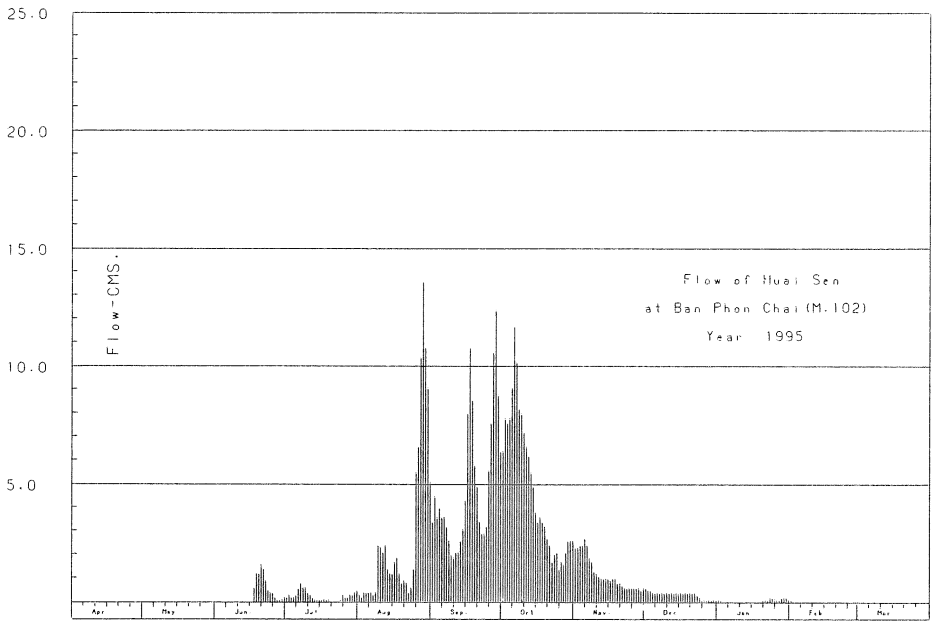
Huai Sen at Ban Phon Chai, Surin (M.102)

Location	Lat. 14-36-50 N., Long. 103-53-24 E., on left bank at the bridge of Chokchai-Det Udom Highway near guidepost 192-193 and about 4 kilometers from Amphoe Sangkha, Ban Phon Chai, Amphoe Sangkha, Surin.
Drainage Area	207 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.- Highways Dept.
Location	On right bank at the abutment of the bridge.
Elevation	+3.511 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +1.18 m.(A.D.), records are channel flow only.
General Description	Records fair. Flow regulated by Ban Phon Chai weir. Stage-discharge relation defined by 21 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.11	0.35	0.16	0.80	0.83	1.14	1.30	1.07	0.89	0.73	0.73	0.39	
2	0.48	0.34	0.16	0.82	0.81	1.20	1.37	1.07	0.88	0.73	0.70	0.39	
3	0.46	0.33	0.16	0.81	0.85	1.15	1.36	1.08	0.87	0.71	0.69	0.38	
4	0.44	0.31	0.17	0.81	0.86	1.17	1.37	1.08	0.85	0.70	0.67	0.38	
5	0.42	0.30	0.17	0.82	0.85	1.15	1.43	1.10	0.85	0.68	0.66	0.37	
6	0.41	0.31	0.16	0.90	0.84	1.15	1.55	1.08	0.84	0.67	0.65	0.37	
7	0.40	0.30	0.15	0.93	0.83	1.13	1.48	1.04	0.86	0.66	0.64	0.36	
8	0.39	0.29	0.15	0.89	0.85	1.09	1.39	1.03	0.85	0.66	0.63	0.36	
9	0.39	0.29	0.14	0.89	1.08	1.05	1.38	1.00	0.86	0.65	0.62	0.35	
10	0.38	0.28	0.16	0.86	1.07	1.04	1.34	0.99	0.85	0.64	0.60	0.34	
11	0.38	0.27	0.15	0.82	1.06	1.06	1.31	0.97	0.86	0.65	0.59	0.33	
12	0.38	0.24	0.14	0.81	1.08	1.06	1.29	0.96	0.86	0.66	0.57	0.32	
13	0.38	0.22	0.20	0.77	1.01	1.09	1.25	0.95	0.86	0.67	0.57	0.31	
14	0.38	0.20	0.21	0.77	0.99	1.12	1.22	0.95	0.86	0.67	0.56	0.31	
15	0.38	0.19	0.22	0.76	0.98	1.19	1.16	0.95	0.86	0.67	0.55	0.30	
16	0.38	0.17	0.66	0.75	1.03	1.38	1.14	0.94	0.86	0.68	0.54	0.30	
17	0.38	0.17	0.90	0.75	1.04	1.51	1.15	0.95	0.85	0.69	0.53	0.29	
18	0.38	0.16	0.98	0.74	0.99	1.41	1.14	0.95	0.85	0.70	0.52	0.29	
19	0.38	0.17	0.98	0.74	0.93	1.27	1.13	0.93	0.86	0.72	0.51	0.28	
20	0.39	0.17	1.02	0.71	0.94	1.22	1.10	0.93	0.86	0.73	0.50	0.28	
21	0.39	0.15	1.01	0.71	0.93	1.14	1.08	0.91	0.85	0.73	0.49	0.27	
22	0.40	0.15	0.94	0.69	0.86	1.11	1.03	0.90	0.85	0.76	0.48	0.27	
23	0.41	0.16	0.87	0.67	0.90	1.11	1.05	0.90	0.82	0.81	0.47	0.27	
24	0.41	0.16	0.86	0.75	1.01	1.13	1.06	0.90	0.78	0.79	0.46	0.26	
25	0.42	0.17	0.84	0.82	1.25	1.26	1.01	0.90	0.77	0.78	0.45	0.26	
26	0.41	0.18	0.78	0.81	1.31	1.36	1.03	0.90	0.75	0.77	0.44	0.25	
27	0.39	0.19	0.76	0.81	1.49	1.50	1.02	0.90	0.74	0.77	0.43	0.24	
28	0.38	0.14	0.76	0.82	1.63	1.58	1.06	0.90	0.74	0.78	0.41	0.22	
29	0.37	0.16	0.76	0.83	1.51	1.42	1.09	0.88	0.74	0.78	0.40	0.21	
30	0.36	0.16	0.78	0.86	1.43	1.30	1.09	0.89	0.74	0.78		0.20	
31		0.16		0.88	1.23		1.09		0.74	0.75		0.19	
Mean	0.39	0.22	0.51	0.80	1.05	1.22	1.21	0.97	0.83	0.72	0.55	0.30	
Max	0.48	0.35	1.02	0.93	1.63	1.58	1.55	1.10	0.89	0.81	0.73	0.39	1.63
Min	0.11	0.14	0.14	0.67	0.81	1.04	1.01	0.88	0.74	0.64	0.40	0.19	0.11

Annual Max Momentary Gage Height 1.66 M (A.D), at 6.00 Hours, on Aug 28, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.76 M (A.D)
Left Bank Elevation 1.26 M (A.D)
Right Bank Elevation 1.17 M (A.D), Drainage Area 207 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.0	0.2	0.3	3.4	6.4	2.3	0.6	0.1	0.1	0.0	
2	0.0	0.0	0.0	0.3	0.2	4.5	7.8	2.3	0.5	0.1	0.0	0.0	
3	0.0	0.0	0.0	0.2	0.4	3.6	7.6	2.4	0.5	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.2	0.4	4.0	7.8	2.4	0.4	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.3	0.4	3.6	9.1	2.7	0.4	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.6	0.4	3.6	11.7	2.4	0.4	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.8	0.3	3.2	10.2	1.9	0.4	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.6	0.4	2.6	8.2	1.7	0.4	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.6	2.4	2.0	8.0	1.3	0.4	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.4	2.3	1.9	7.2	1.2	0.4	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.3	2.1	2.1	6.6	1.1	0.4	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.2	2.4	2.1	6.2	1.0	0.4	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.1	1.4	2.6	5.5	1.0	0.4	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.1	1.2	3.1	4.9	1.0	0.4	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.1	1.2	4.3	3.8	1.0	0.4	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.1	1.7	8.0	3.4	0.9	0.4	0.0	0.0	0.0	
17	0.0	0.0	0.6	0.1	1.9	10.8	3.6	1.0	0.4	0.0	0.0	0.0	
18	0.0	0.0	1.2	0.1	1.2	8.6	3.4	1.0	0.4	0.0	0.0	0.0	
19	0.0	0.0	1.2	0.1	0.8	5.8	3.2	0.8	0.4	0.0	0.0	0.0	
20	0.0	0.0	1.6	0.0	0.9	4.9	2.7	0.8	0.4	0.1	0.0	0.0	
21	0.0	0.0	1.4	0.0	0.8	3.4	2.4	0.7	0.4	0.1	0.0	0.0	
22	0.0	0.0	0.9	0.0	0.4	2.9	1.7	0.6	0.4	0.1	0.0	0.0	
23	0.0	0.0	0.5	0.0	0.6	2.9	2.0	0.6	0.3	0.2	0.0	0.0	
24	0.0	0.0	0.4	0.1	1.4	3.2	2.1	0.6	0.2	0.2	0.0	0.0	
25	0.0	0.0	0.4	0.3	5.5	5.6	1.4	0.6	0.1	0.2	0.0	0.0	
26	0.0	0.0	0.2	0.2	6.6	7.6	1.7	0.6	0.1	0.1	0.0	0.0	
27	0.0	0.0	0.1	0.2	10.4	10.6	1.6	0.6	0.1	0.1	0.0	0.0	
28	0.0	0.0	0.1	0.3	13.6	12.4	2.1	0.6	0.1	0.2	0.0	0.0	
29	0.0	0.0	0.1	0.3	10.8	8.8	2.6	0.5	0.1	0.2	0.0	0.0	
30	0.0	0.0	0.2	0.4	9.1	6.4	2.6	0.6	0.1	0.2		0.0	
31		0.0		0.5	5.1		2.6		0.1	0.1		0.0	
Total	0.0	0.0	8.9	7.7	86.6	148.5	150.1	36.2	10.4	2.0	0.1	0.0	450.5 CMSDAY
Mean	0.0	0.0	0.3	0.2	2.8	4.9	4.8	1.2	0.3	0.1	0.0	0.0	1.2 CMS
Max	0.0	0.0	1.6	0.8	13.6	12.4	11.7	2.7	0.6	0.2	0.1	0.0	13.6 CMS
Min	0.0	0.0	0.0	0.0	0.2	1.9	1.4	0.5	0.1	0.0	0.0	0.0	0.0 CMS
Runoff	0.00	0.00	0.77	0.67	7.48	12.83	12.97	3.13	0.90	0.17	0.01	0.00	38.92 MCM

Momentary Peak 14.34 CMS, at 1.66 M (A.D), at 6.00 Hours, on Aug 28, 1995

Runoff Yield 5.95 Liters/Second/Square KM, Momentary Peak Yield 69.275 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

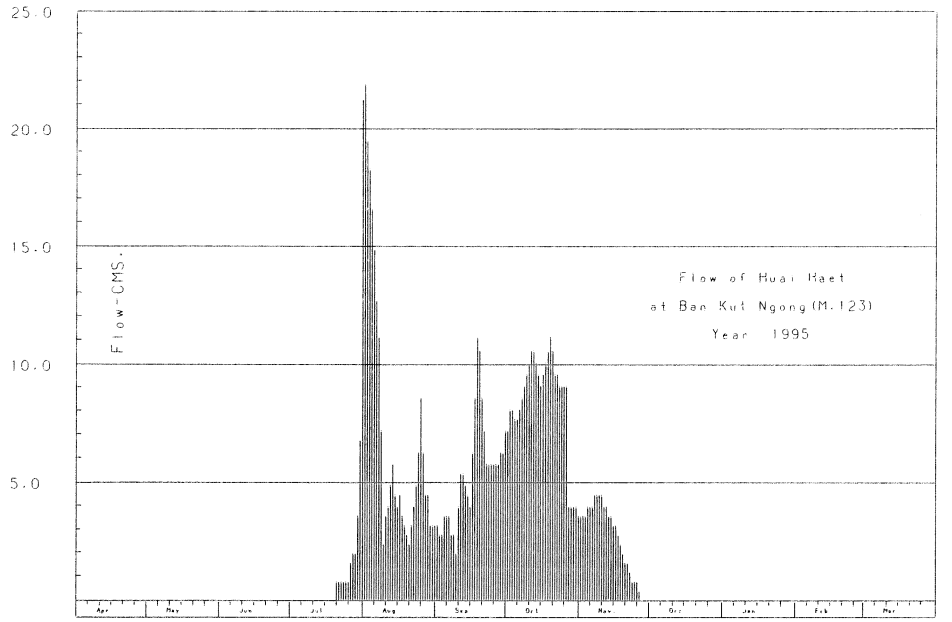
Huai Haet at Ban Kut Ngong, Si Sa Ket (M.123)

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	No overbank flow.
General Description	Records fair. Flow effected by the weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 5 discharge made during 1994-1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.33	3.12	3.85	3.83	4.34	3.98	4.07	3.99	3.88	3.89	3.81	3.74	
2	3.33	3.12	3.85	3.84	4.30	3.97	4.09	3.99	3.88	3.88	3.81	3.75	
3	3.31	3.12	3.84	3.86	4.28	3.97	4.09	3.99	3.87	3.87	3.80	3.75	
4	3.29	3.12	3.84	3.88	4.25	3.99	4.08	4.00	3.87	3.86	3.79	3.75	
5	3.27	3.12	3.83	3.90	4.22	3.99	4.08	4.00	3.87	3.86	3.78	3.72	
6	3.27	3.12	3.83	3.88	4.18	3.99	4.09	4.00	3.87	3.86	3.79	3.70	
7	3.25	3.12	3.82	3.88	4.15	3.97	4.10	4.01	3.87	3.85	3.70	3.68	
8	3.27	3.12	3.82	3.88	4.07	3.97	4.11	4.01	3.86	3.85	3.70	3.68	
9	3.28	3.12	3.82	3.88	3.96	3.95	4.12	4.01	3.86	3.85	3.82	3.67	
10	3.28	3.20	3.82	3.88	3.99	4.00	4.13	4.01	3.86	3.84	3.82	3.66	
11	3.28	3.81	3.82	3.88	4.00	4.03	4.14	4.00	3.86	3.84	3.82	3.65	
12	3.27	3.86	3.84	3.88	4.02	4.03	4.14	4.00	3.85	3.84	3.82	3.64	
13	3.27	3.86	3.84	3.88	4.04	4.02	4.13	3.99	3.85	3.83	3.82	3.63	
14	3.25	3.85	3.85	3.88	4.01	4.01	4.12	3.99	3.85	3.83	3.82	3.63	
15	3.24	3.85	3.85	3.88	4.00	4.00	4.11	3.98	3.85	3.82	3.82	3.62	
16	3.23	3.85	3.84	3.88	4.01	4.05	4.12	3.98	3.84	3.82	3.82	3.62	
17	3.21	3.85	3.85	3.88	3.99	4.10	4.13	3.97	3.84	3.81	3.82	3.60	
18	3.19	3.84	3.85	3.89	3.98	4.15	4.14	3.96	3.83	3.80	3.82	3.58	
19	3.18	3.84	3.86	3.90	3.97	4.14	4.15	3.95	3.83	3.85	3.82	3.56	
20	3.18	3.84	3.85	3.92	3.96	4.10	4.14	3.94	3.83	3.85	3.82	3.55	
21	3.18	3.83	3.85	3.92	3.98	4.07	4.12	3.94	3.83	3.85	3.82	3.54	
22	3.18	3.83	3.84	3.92	4.00	4.04	4.12	3.93	3.82	3.85	3.80	3.53	
23	3.17	3.83	3.83	3.92	4.02	4.04	4.11	3.92	3.82	3.85	3.77	3.52	
24	3.15	3.82	3.83	3.92	4.05	4.04	4.11	3.92	3.82	3.83	3.77	3.51	
25	3.14	3.81	3.83	3.92	4.10	4.04	4.11	3.92	3.82	3.83	3.76	3.50	
26	3.14	3.80	3.82	3.94	4.05	4.04	4.11	3.91	3.82	3.82	3.75	3.50	
27	3.13	3.79	3.82	3.95	4.01	4.04	4.00	3.90	3.82	3.84	3.74	3.50	
28	3.11	3.90	3.82	3.95	4.01	4.05	4.00	3.90	3.81	3.84	3.74	3.49	
29	3.11	3.90	3.83	3.99	3.98	4.05	4.00	3.89	3.81	3.82	3.74	3.48	
30	3.11	3.88	3.83	4.06	3.98	4.07	4.00	3.89	3.81	3.82		3.48	
31		3.84		4.33	3.98		3.99		3.80	3.82		3.47	
Mean	3.22	3.61	3.84	3.92	4.06	4.03	4.10	3.96	3.84	3.84	3.79	3.60	
Max	3.33	3.90	3.86	4.33	4.34	4.15	4.15	4.01	3.88	3.89	3.82	3.75	4.34
Min	3.11	3.12	3.82	3.83	3.96	3.95	3.99	3.89	3.80	3.80	3.70	3.47	3.11

Annual Max Momentary Gage Height 4.35 M (A.D), at 12.00 Hours, on Aug 1, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.43 M (A.D)
Left Bank Elevation 4.75 M (A.D)
Right Bank Elevation 4.60 M (A.D), Drainage Area 387 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.0	0.0	21.9	3.2	7.2	3.6	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	19.5	2.8	8.1	3.6	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	18.3	2.8	8.1	3.6	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	16.6	3.6	7.7	4.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	14.9	3.6	7.7	4.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	12.7	3.6	8.1	4.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	11.2	2.8	8.6	4.5	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	7.2	2.8	9.1	4.5	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	2.4	2.0	9.6	4.5	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	3.6	4.0	10.1	4.5	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	4.0	5.4	10.6	4.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	4.9	5.4	10.6	4.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	5.8	4.9	10.1	3.6	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	4.5	4.5	9.6	3.6	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	4.0	4.0	9.1	3.2	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	4.5	6.3	9.6	3.2	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	3.6	8.6	10.1	2.8	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	3.2	11.2	10.6	2.4	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	2.8	10.6	11.2	2.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.8	2.4	8.6	10.6	1.6	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.8	3.2	7.2	9.6	1.6	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.8	4.0	5.8	9.6	1.2	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.8	4.9	5.8	9.1	0.8	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.8	6.3	5.8	9.1	0.8	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.8	8.6	5.8	9.1	0.8	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	1.6	6.3	5.8	9.1	0.4	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	2.0	4.5	5.8	4.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	2.0	4.5	6.3	4.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	3.6	3.2	6.3	4.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	6.8	3.2	7.2	4.0	0.0	0.0	0.0		0.0	
31		0.0		21.3	3.2		3.6		0.0	0.0		0.0	
Total	0.0	0.0	0.0	42.1	219.9	162.5	261.6	76.8	0.0	0.0	0.0	0.0	762.9 CMSDAY
Mean	0.0	0.0	0.0	1.4	7.1	5.4	8.4	2.6	0.0	0.0	0.0	0.0	2.1 CMS
Max	0.0	0.0	0.0	21.3	21.9	11.2	11.2	4.5	0.0	0.0	0.0	0.0	21.9 CMS
Min	0.0	0.0	0.0	0.0	2.4	2.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0 CMS
Runoff	0.00	0.00	0.00	3.64	19.00	14.04	22.60	6.64	0.00	0.00	0.00	0.00	65.91 MCM

Momentary Peak 22.50 CMS, at 4.35 M (A.D), at 12.00 Hours, on Aug 1, 1995

Runoff Yield 5.39 Liters/Second/Square KM, Momentary Peak Yield 58.140 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

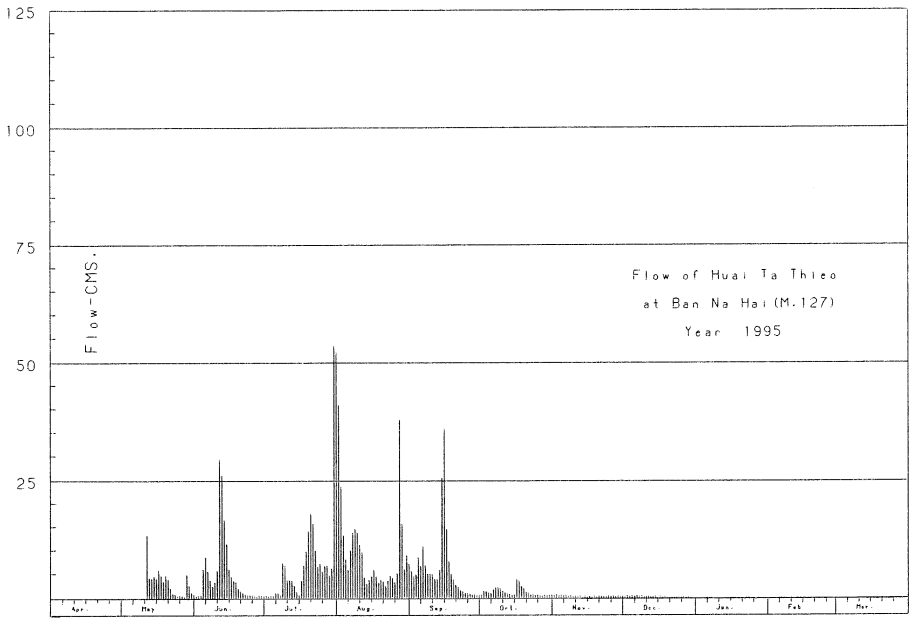
Huai Ta Thieo at Ban Na Hai, Ubon Ratchathani (M.127)

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	Stable.
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 17 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.89	0.82	1.34	1.34	2.48	1.77	1.40	1.36	1.68	1.45	1.34	1.15	
2	0.88	0.85	1.33	1.33	2.21	1.70	1.48	1.37	1.68	1.44	1.33	1.14	
3	0.88	0.85	1.39	1.32	2.01	1.73	1.49	1.36	1.68	1.43	1.32	1.14	
4	0.87	0.84	1.79	1.35	1.86	1.87	1.44	1.35	1.68	1.42	1.32	1.13	
5	0.87	0.97	1.88	1.45	1.79	1.82	1.44	1.35	1.68	1.42	1.31	1.12	
6	0.87	1.04	1.77	1.43	1.92	1.94	1.52	1.34	1.67	1.41	1.30	1.12	
7	0.86	1.03	1.65	1.39	2.02	1.82	1.54	1.34	1.67	1.41	1.30	1.11	
8	0.90	1.03	1.57	1.84	2.04	1.74	1.55	1.33	1.65	1.40	1.29	1.11	
9	0.91	1.02	1.62	1.82	2.02	1.73	1.53	1.32	1.64	1.40	1.29	1.10	
10	0.91	1.23	1.78	1.65	1.95	1.73	1.48	1.30	1.63	1.40	1.28	1.10	
11	0.90	2.01	2.30	1.66	1.91	1.67	1.46	1.32	1.63	1.40	1.28	1.10	
12	0.90	1.69	2.25	1.64	1.69	1.66	1.43	1.31	1.62	1.39	1.27	1.09	
13	0.90	1.67	2.08	1.58	1.61	1.78	1.40	1.30	1.61	1.39	1.26	1.09	
14	0.89	1.71	1.96	1.46	1.65	2.24	1.38	1.35	1.60	1.38	1.25	1.07	
15	0.88	1.67	1.80	1.40	1.71	2.38	1.37	1.46	1.59	1.38	1.24	1.06	
16	0.87	1.78	1.70	1.65	1.78	2.04	1.67	1.51	1.58	1.37	1.23	1.05	
17	0.87	1.72	1.65	1.82	1.71	1.85	1.64	1.60	1.57	1.40	1.23	1.04	
18	0.86	1.65	1.62	1.91	1.62	1.74	1.57	1.63	1.55	1.43	1.23	1.04	
19	0.86	1.71	1.54	2.03	1.65	1.66	1.53	1.63	1.55	1.43	1.22	1.03	
20	0.85	1.67	1.48	2.11	1.63	1.59	1.47	1.66	1.55	1.42	1.21	1.02	
21	0.84	1.53	1.44	2.06	1.57	1.55	1.43	1.68	1.54	1.42	1.21	1.01	
22	0.83	1.43	1.42	1.92	1.65	1.51	1.40	1.69	1.53	1.41	1.20	1.01	
23	0.83	1.40	1.36	1.81	1.71	1.47	1.38	1.68	1.52	1.41	1.19	1.02	
24	0.82	1.34	1.38	1.83	1.69	1.44	1.38	1.67	1.51	1.41	1.18	1.03	
25	0.82	1.34	1.35	1.77	1.62	1.43	1.36	1.66	1.51	1.41	1.18	1.02	
26	0.82	1.32	1.34	1.82	1.74	1.42	1.36	1.65	1.50	1.39	1.17	1.02	
27	0.82	1.31	1.32	1.82	2.41	1.40	1.34	1.65	1.50	1.39	1.16	1.00	
28	0.81	1.73	1.37	1.72	2.06	1.38	1.36	1.65	1.48	1.38	1.16	0.99	
29	0.80	1.57	1.34	1.80	1.80	1.37	1.36	1.66	1.47	1.35	1.16	0.98	
30	0.80	1.46	1.34	2.75	1.89	1.37	1.36	1.66	1.46	1.35		0.97	
31		1.38		2.72	1.83		1.36		1.45	1.34		0.97	
Mean	0.86	1.38	1.61	1.75	1.85	1.69	1.45	1.49	1.58	1.40	1.25	1.06	
Max	0.91	2.01	2.30	2.75	2.48	2.38	1.67	1.69	1.68	1.45	1.34	1.15	2.75
Min	0.80	0.82	1.32	1.32	1.57	1.37	1.34	1.30	1.45	1.34	1.16	0.97	0.80

Annual Max Momentary Gage Height 2.80 M (A.D), at 6.00 Hours, on Jul 31, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.93 M (A.D)
Left Bank Elevation 11.27 M (A.D)
Right Bank Elevation 11.24 M (A.D), Drainage Area 414 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.56	0.56	41.10	5.73	0.80	0.64	0.48	0.25	0.14	0.00	
2	0.00	0.00	0.52	0.52	23.65	4.50	1.44	0.68	0.48	0.24	0.13	0.00	
3	0.00	0.00	0.76	0.48	13.45	5.03	1.52	0.64	0.48	0.23	0.12	0.00	
4	0.00	0.00	6.08	0.60	8.20	8.53	1.12	0.60	0.48	0.22	0.12	0.00	
5	0.00	0.00	8.85	1.20	6.08	6.90	1.12	0.60	0.48	0.22	0.11	0.00	
6	0.00	0.00	5.73	1.04	10.20	10.90	1.88	0.56	0.47	0.21	0.10	0.00	
7	0.00	0.00	3.75	0.76	13.90	6.90	2.16	0.56	0.47	0.21	0.10	0.00	
8	0.00	0.00	2.58	7.55	14.80	5.20	2.30	0.52	0.45	0.20	0.09	0.00	
9	0.00	0.00	3.30	6.90	13.90	5.03	2.02	0.48	0.44	0.20	0.09	0.00	
10	0.00	0.12	5.90	3.75	11.25	5.03	1.44	0.40	0.43	0.20	0.08	0.00	
11	0.00	13.45	29.50	3.90	9.85	4.05	1.28	0.48	0.43	0.20	0.08	0.00	
12	0.00	4.35	26.25	3.60	4.35	3.90	1.04	0.44	0.42	0.19	0.07	0.00	
13	0.00	4.05	16.60	2.72	3.15	5.90	0.80	0.40	0.41	0.19	0.06	0.00	
14	0.00	4.68	11.60	1.28	3.75	25.60	0.72	0.60	0.40	0.18	0.05	0.00	
15	0.00	4.05	6.25	0.80	4.68	35.90	0.68	0.26	0.39	0.18	0.04	0.00	
16	0.00	5.90	4.50	3.75	5.90	14.80	4.05	0.31	0.38	0.17	0.03	0.00	
17	0.00	4.85	3.75	6.90	4.68	7.88	3.60	0.40	0.37	0.20	0.03	0.00	
18	0.00	3.75	3.30	9.85	3.30	5.20	2.58	0.43	0.35	0.23	0.03	0.00	
19	0.00	4.68	2.16	14.35	3.75	3.90	2.02	0.43	0.35	0.23	0.02	0.00	
20	0.00	4.05	1.44	18.05	3.45	2.86	1.36	0.46	0.35	0.22	0.01	0.00	
21	0.00	2.02	1.12	15.70	2.58	2.30	1.04	0.48	0.34	0.22	0.01	0.00	
22	0.00	1.04	0.96	10.20	3.75	1.74	0.80	0.49	0.33	0.21	0.00	0.00	
23	0.00	0.80	0.64	6.57	4.68	1.36	0.72	0.48	0.32	0.21	0.00	0.00	
24	0.00	0.56	0.72	7.23	4.35	1.12	0.72	0.47	0.31	0.21	0.00	0.00	
25	0.00	0.56	0.60	5.73	3.30	1.04	0.64	0.46	0.31	0.21	0.00	0.00	
26	0.00	0.48	0.56	6.90	5.20	0.96	0.64	0.45	0.30	0.19	0.00	0.00	
27	0.00	0.44	0.48	6.90	37.95	0.80	0.56	0.45	0.30	0.19	0.00	0.00	
28	0.00	5.03	0.68	4.85	15.70	0.72	0.64	0.45	0.28	0.18	0.00	0.00	
29	0.00	2.58	0.56	6.25	6.25	0.68	0.64	0.46	0.27	0.15	0.00	0.00	
30	0.00	1.28	0.56	53.63	9.18	0.68	0.64	0.46	0.26	0.15		0.00	
31		0.72		52.20	7.23		0.64		0.25	0.14		0.00	
Total	0.00	69.44	150.26	264.72	303.56	185.14	41.61	14.54	11.78	6.23	1.51	0.00	1048.79 CMSDAY
Mean	0.00	2.24	5.01	8.54	9.79	6.17	1.34	0.48	0.38	0.20	0.05	0.00	2.87 CMS
Max	0.00	13.45	29.50	53.63	41.10	35.90	4.05	0.68	0.48	0.25	0.14	0.00	53.63 CMS
Min	0.00	0.00	0.48	0.48	2.58	0.68	0.56	0.26	0.25	0.14	0.00	0.00	0.00 CMS
Runoff	0.000	6.000	12.982	22.872	26.228	15.996	3.595	1.256	1.018	0.538	0.130	0.000	90.615 MCM

Momentary Peak 56.00 CMS, at 2.80 M (A.D), at 6.00 Hours, on Jul 31, 1995
Runoff Yield 6.92 Liters/Second/Square KM, Momentary Peak Yield 135.266 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

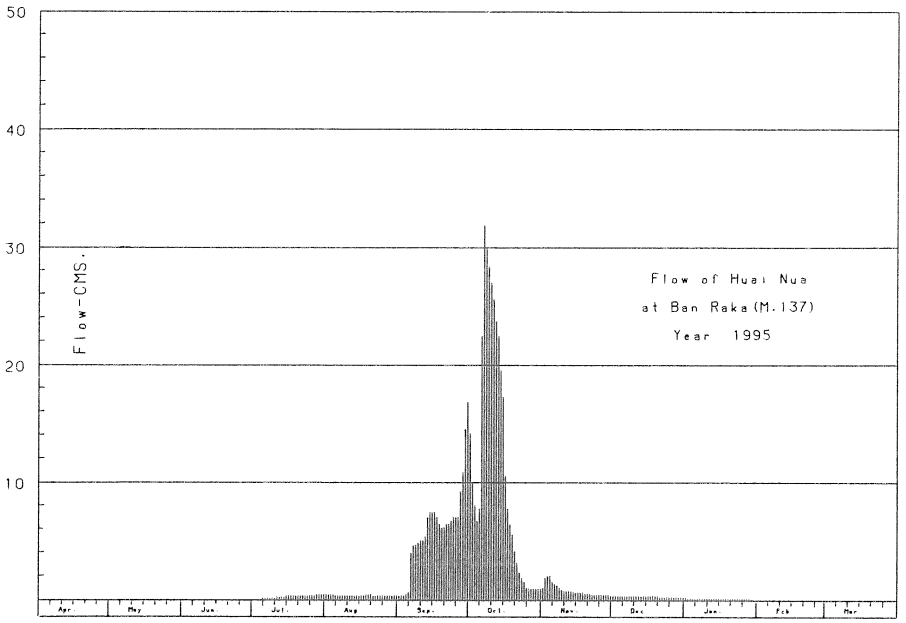
Huai Nua at Ban Raka, Si Sa Ket (M.137)

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 because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +2.18 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 8 discharge measurements made during 1994- 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	0.00	0.70	0.62	1.23	1.21	1.86	1.34	1.21	1.10	0.89	0.64	
2	0.20	0.00	0.71	0.62	1.23	1.21	1.74	1.42	1.21	1.09	0.88	0.63	
3	0.18	0.00	0.70	0.61	1.22	1.21	1.68	1.43	1.20	1.09	0.87	0.62	
4	0.17	0.00	0.69	0.78	1.22	1.23	1.64	1.43	1.20	1.08	0.86	0.61	
5	0.17	0.00	0.69	0.92	1.20	1.29	1.67	1.40	1.20	1.08	0.85	0.60	
6	0.21	0.00	0.68	0.95	1.20	1.53	2.07	1.38	1.20	1.07	0.84	0.59	
7	0.20	0.00	0.68	1.01	1.20	1.56	2.27	1.36	1.20	1.07	0.83	0.58	
8	0.31	0.00	0.68	1.04	1.20	1.56	2.23	1.34	1.20	1.06	0.82	0.57	
9	0.36	0.00	0.68	1.05	1.20	1.57	2.20	1.32	1.20	1.05	0.81	0.56	
10	0.36	0.00	0.69	1.06	1.20	1.58	2.17	1.30	1.20	1.04	0.80	0.55	
11	0.35	0.11	0.69	1.11	1.20	1.58	2.14	1.30	1.20	1.03	0.79	0.54	
12	0.35	0.15	0.69	1.15	1.20	1.59	2.10	1.30	1.20	1.02	0.78	0.53	
13	0.36	0.19	0.70	1.16	1.20	1.65	2.07	1.30	1.20	1.01	0.77	0.52	
14	0.35	0.20	0.70	1.16	1.19	1.66	2.00	1.29	1.20	1.00	0.76	0.51	
15	0.35	0.20	0.70	1.17	1.19	1.66	1.94	1.29	1.20	1.00	0.75	0.50	
16	0.35	0.22	0.70	1.19	1.19	1.66	1.76	1.29	1.20	0.99	0.74	0.49	
17	0.34	0.22	0.70	1.19	1.20	1.65	1.67	1.29	1.19	0.99	0.73	0.48	
18	0.35	0.23	0.70	1.19	1.22	1.63	1.63	1.28	1.19	0.98	0.72	0.46	
19	0.34	0.23	0.70	1.19	1.23	1.62	1.60	1.27	1.18	0.98	0.71	0.45	
20	0.31	0.24	0.70	1.19	1.22	1.62	1.54	1.26	1.17	0.97	0.70	0.35	
21	0.30	0.24	0.69	1.19	1.21	1.63	1.50	1.25	1.16	0.96	0.69	0.23	
22	0.24	0.24	0.69	1.19	1.20	1.63	1.45	1.24	1.15	0.95	0.69	0.18	
23	0.21	0.23	0.68	1.19	1.20	1.64	1.42	1.23	1.15	0.94	0.68	0.15	
24	0.17	0.22	0.68	1.19	1.20	1.65	1.40	1.23	1.15	0.93	0.68	0.13	
25	0.13	0.21	0.67	1.20	1.20	1.65	1.34	1.23	1.14	0.92	0.67	0.11	
26	0.04	0.20	0.65	1.20	1.19	1.65	1.33	1.22	1.14	0.92	0.67	0.10	
27	0.01	0.21	0.65	1.20	1.19	1.72	1.33	1.22	1.13	0.91	0.66	0.09	
28	0.00	0.23	0.65	1.22	1.19	1.77	1.33	1.22	1.12	0.91	0.66	0.08	
29	0.00	0.52	0.64	1.23	1.19	1.87	1.33	1.22	1.11	0.90	0.65	0.04	
30	0.00	0.70	0.64	1.23	1.19	1.93	1.33	1.21	1.11	0.90		0.00	
31		0.70		1.23	1.19		1.33		1.10	0.89		0.00	
Mean	0.23	0.18	0.68	1.08	1.20	1.58	1.71	1.30	1.17	0.99	0.76	0.38	
Max	0.36	0.70	0.71	1.23	1.23	1.93	2.27	1.43	1.21	1.10	0.89	0.64	2.27
Min	0.00	0.00	0.64	0.61	1.19	1.21	1.33	1.21	1.10	0.89	0.65	0.00	0.00

Annual Max Momentary Gage Height 2.28 M (A.D), at 12.00 Hours, on Oct 7, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.05 M (A.D)
Left Bank Elevation 2.21 M (A.D)
Right Bank Elevation 2.17 M (A.D), Drainage Area 397 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	0.0	0.0	0.5	0.4	14.2	1.1	0.4	0.3	0.1	0.0	
2	0.0	0.0	0.1	0.0	0.5	0.4	10.0	1.9	0.4	0.2	0.1	0.0	
3	0.0	0.0	0.0	0.0	0.5	0.4	8.1	2.1	0.4	0.2	0.1	0.0	
4	0.0	0.0	0.0	0.1	0.5	0.5	6.8	2.1	0.4	0.2	0.1	0.0	
5	0.0	0.0	0.0	0.2	0.4	0.7	7.8	1.6	0.4	0.2	0.1	0.0	
6	0.0	0.0	0.0	0.2	0.4	4.0	22.5	1.4	0.4	0.2	0.1	0.0	
7	0.0	0.0	0.0	0.2	0.4	4.7	31.9	1.3	0.4	0.2	0.1	0.0	
8	0.0	0.0	0.0	0.2	0.4	4.7	29.9	1.1	0.4	0.2	0.1	0.0	
9	0.0	0.0	0.0	0.2	0.4	4.9	28.4	0.9	0.4	0.2	0.1	0.0	
10	0.0	0.0	0.0	0.2	0.4	5.1	27.0	0.8	0.4	0.2	0.1	0.0	
11	0.0	0.0	0.0	0.3	0.4	5.1	25.6	0.8	0.4	0.2	0.1	0.0	
12	0.0	0.0	0.0	0.3	0.4	5.4	23.8	0.8	0.4	0.2	0.1	0.0	
13	0.0	0.0	0.0	0.3	0.4	7.1	22.5	0.8	0.4	0.2	0.1	0.0	
14	0.0	0.0	0.0	0.3	0.4	7.5	19.6	0.7	0.4	0.2	0.1	0.0	
15	0.0	0.0	0.0	0.4	0.4	7.5	17.3	0.7	0.4	0.2	0.1	0.0	
16	0.0	0.0	0.0	0.4	0.4	7.5	10.6	0.7	0.4	0.2	0.1	0.0	
17	0.0	0.0	0.0	0.4	0.4	7.1	7.8	0.7	0.4	0.2	0.1	0.0	
18	0.0	0.0	0.0	0.4	0.5	6.5	6.5	0.7	0.4	0.2	0.1	0.0	
19	0.0	0.0	0.0	0.4	0.5	6.2	5.6	0.6	0.4	0.2	0.1	0.0	
20	0.0	0.0	0.0	0.4	0.5	6.2	4.2	0.6	0.4	0.2	0.0	0.0	
21	0.0	0.0	0.0	0.4	0.4	6.5	3.2	0.6	0.3	0.2	0.0	0.0	
22	0.0	0.0	0.0	0.4	0.4	6.5	2.4	0.5	0.3	0.2	0.0	0.0	
23	0.0	0.0	0.0	0.4	0.4	6.8	1.9	0.5	0.3	0.2	0.0	0.0	
24	0.0	0.0	0.0	0.4	0.4	7.1	1.6	0.5	0.3	0.2	0.0	0.0	
25	0.0	0.0	0.0	0.4	0.4	7.1	1.1	0.5	0.3	0.2	0.0	0.0	
26	0.0	0.0	0.0	0.4	0.4	7.1	1.0	0.5	0.3	0.2	0.0	0.0	
27	0.0	0.0	0.0	0.4	0.4	9.3	1.0	0.5	0.3	0.2	0.0	0.0	
28	0.0	0.0	0.0	0.5	0.4	10.9	1.0	0.5	0.3	0.2	0.0	0.0	
29	0.0	0.0	0.0	0.5	0.4	14.6	1.0	0.5	0.3	0.1	0.0	0.0	
30	0.0	0.0	0.0	0.5	0.4	16.9	1.0	0.4	0.3	0.1		0.0	
31		0.0		0.5	0.4		1.0		0.3	0.1		0.0	
Total	0.0	0.0	0.1	9.7	13.1	184.7	346.3	26.4	11.3	6.0	1.9	0.0	599.5 CMSDAY
Mean	0.0	0.0	0.0	0.3	0.4	6.2	11.2	0.9	0.4	0.2	0.1	0.0	1.6 CMS
Max	0.0	0.0	0.1	0.5	0.5	16.9	31.9	2.1	0.4	0.3	0.1	0.0	31.9 CMS
Min	0.0	0.0	0.0	0.0	0.4	0.4	1.0	0.4	0.3	0.1	0.0	0.0	0.0 CMS
Runoff	0.00	0.00	0.01	0.84	1.13	15.96	29.92	2.28	0.98	0.52	0.16	0.00	51.80 MCM

Momentary Peak 32.40 CMS, at 2.28 M (A.D), at 12.00 Hours, on Oct 7, 1995

Runoff Yield 4.13 Liters/Second/Square KM, Momentary Peak Yield 81.612 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

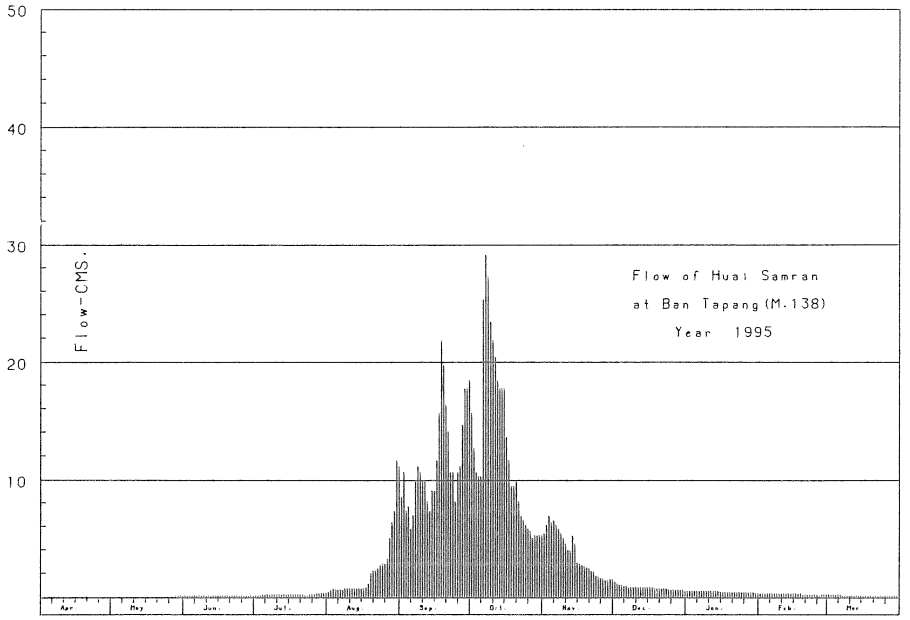
Huai Samran at Ban Tapang, Si Sa Ket (M.138)

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 because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +3.00 m.(A.D.),records are channel flow only.
General Description	Records fair. Flow effected by the weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 7 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.38	1.13	1.53	1.43	2.03	2.75	2.90	2.65	2.31	2.13	1.97	1.66	
2	1.37	1.14	1.53	1.44	2.10	2.80	2.84	2.68	2.28	2.12	1.96	1.65	
3	1.36	1.13	1.53	1.48	2.18	2.72	2.80	2.71	2.27	2.12	1.95	1.65	
4	1.35	1.13	1.53	1.61	2.17	2.73	2.79	2.69	2.26	2.12	1.94	1.64	
5	1.34	1.13	1.53	1.65	2.16	2.67	2.79	2.70	2.25	2.12	1.94	1.62	
6	1.33	1.17	1.52	1.67	2.15	2.71	3.03	2.68	2.24	2.12	1.93	1.61	
7	1.33	1.17	1.52	1.68	2.16	2.78	3.07	2.67	2.22	2.12	1.92	1.60	
8	1.33	1.17	1.51	1.70	2.19	2.81	3.05	2.65	2.22	2.12	1.91	1.60	
9	1.33	1.16	1.51	1.73	2.20	2.80	3.01	2.63	2.22	2.12	1.90	1.59	
10	1.33	1.25	1.52	1.72	2.19	2.78	2.99	2.61	2.22	2.12	1.89	1.58	
11	1.32	1.28	1.52	1.72	2.20	2.78	2.97	2.58	2.22	2.12	1.88	1.57	
12	1.31	1.29	1.52	1.72	2.20	2.74	2.94	2.57	2.22	2.11	1.88	1.58	
13	1.30	1.29	1.52	1.71	2.19	2.72	2.93	2.64	2.22	2.11	1.87	1.57	
14	1.30	1.30	1.54	1.70	2.19	2.76	2.93	2.61	2.22	2.10	1.86	1.56	
15	1.31	1.31	1.53	1.69	2.20	2.76	2.93	2.50	2.22	2.09	1.85	1.55	
16	1.32	1.30	1.53	1.68	2.19	2.82	2.86	2.49	2.21	2.09	1.83	1.55	
17	1.30	1.31	1.53	1.66	2.21	2.90	2.82	2.48	2.21	2.08	1.83	1.54	
18	1.26	1.35	1.52	1.65	2.28	2.99	2.77	2.47	2.20	2.08	1.82	1.53	
19	1.23	1.36	1.51	1.65	2.41	2.96	2.77	2.46	2.20	2.07	1.80	1.52	
20	1.22	1.36	1.51	1.65	2.43	2.91	2.78	2.45	2.19	2.06	1.78	1.51	
21	1.21	1.36	1.50	1.63	2.43	2.87	2.74	2.43	2.19	2.06	1.77	1.50	
22	1.21	1.36	1.49	1.59	2.45	2.80	2.71	2.42	2.19	2.05	1.76	1.49	
23	1.20	1.35	1.48	1.60	2.48	2.80	2.70	2.39	2.18	2.04	1.75	1.48	
24	1.19	1.35	1.47	1.66	2.49	2.74	2.68	2.37	2.17	2.03	1.73	1.47	
25	1.17	1.34	1.46	1.69	2.49	2.80	2.67	2.36	2.16	2.02	1.72	1.46	
26	1.16	1.33	1.45	1.80	2.52	2.81	2.66	2.34	2.16	2.01	1.71	1.45	
27	1.15	1.33	1.44	1.81	2.63	2.88	2.63	2.33	2.16	2.01	1.70	1.45	
28	1.15	1.49	1.43	1.82	2.69	2.93	2.64	2.33	2.15	2.00	1.69	1.44	
29	1.14	1.53	1.43	1.86	2.72	2.93	2.64	2.34	2.15	2.00	1.67	1.44	
30	1.13	1.54	1.43	1.89	2.82	2.94	2.64	2.35	2.14	1.98		1.43	
31		1.53		1.97	2.81		2.64		2.13	1.98		1.42	
Mean	1.27	1.30	1.50	1.69	2.34	2.81	2.82	2.52	2.21	2.07	1.83	1.54	
Max	1.38	1.54	1.54	1.97	2.82	2.99	3.07	2.71	2.31	2.13	1.97	1.66	3.07
Min	1.13	1.13	1.43	1.43	2.03	2.67	2.63	2.33	2.13	1.98	1.67	1.42	1.13

Annual Max Momentary Gage Height 3.07 M (A.D), at 12.00 Hours, on Oct 7, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.83 M (A.D)
Left Bank Elevation 3.19 M (A.D)
Right Bank Elevation 2.99 M (A.D), Drainage Area 1038 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.1	0.0	0.2	0.2	0.5	8.6	15.7	5.5	1.4	0.6	0.4	0.3	
2	0.1	0.0	0.2	0.2	0.6	10.7	12.7	6.2	1.2	0.6	0.4	0.3	
3	0.1	0.0	0.2	0.2	0.8	7.4	10.7	7.0	1.1	0.6	0.4	0.3	
4	0.1	0.0	0.2	0.3	0.7	7.8	10.3	6.4	1.1	0.6	0.4	0.3	
5	0.1	0.0	0.2	0.3	0.7	5.9	10.3	6.6	1.0	0.6	0.4	0.3	
6	0.1	0.0	0.2	0.3	0.7	7.0	25.4	6.2	1.0	0.6	0.4	0.3	
7	0.1	0.0	0.2	0.3	0.7	9.9	29.2	5.9	0.9	0.6	0.4	0.2	
8	0.1	0.0	0.2	0.3	0.8	11.2	27.3	5.5	0.9	0.6	0.4	0.2	
9	0.1	0.0	0.2	0.3	0.8	10.7	23.5	5.1	0.9	0.6	0.4	0.2	
10	0.1	0.1	0.2	0.3	0.8	9.9	21.9	4.6	0.9	0.6	0.4	0.2	
11	0.1	0.1	0.2	0.3	0.8	9.9	20.5	4.1	0.9	0.6	0.4	0.2	
12	0.1	0.1	0.2	0.3	0.8	8.2	18.5	4.0	0.9	0.6	0.4	0.2	
13	0.1	0.1	0.2	0.3	0.8	7.4	17.8	5.3	0.9	0.6	0.4	0.2	
14	0.1	0.1	0.2	0.3	0.8	9.1	17.8	4.6	0.9	0.6	0.4	0.2	
15	0.1	0.1	0.2	0.3	0.8	9.1	17.8	3.0	0.9	0.5	0.4	0.2	
16	0.1	0.1	0.2	0.3	0.8	11.7	13.7	2.9	0.9	0.5	0.4	0.2	
17	0.1	0.1	0.2	0.3	0.9	15.7	11.7	2.8	0.9	0.5	0.4	0.2	
18	0.1	0.1	0.2	0.3	1.2	21.9	9.5	2.7	0.8	0.5	0.4	0.2	
19	0.1	0.1	0.2	0.3	2.1	19.8	9.5	2.6	0.8	0.5	0.3	0.2	
20	0.1	0.1	0.2	0.3	2.3	16.4	9.9	2.5	0.8	0.5	0.3	0.2	
21	0.1	0.1	0.2	0.3	2.3	14.2	8.2	2.3	0.8	0.5	0.3	0.2	
22	0.1	0.1	0.2	0.2	2.5	10.7	7.0	2.2	0.8	0.5	0.3	0.2	
23	0.1	0.1	0.2	0.2	2.8	10.7	6.6	1.9	0.8	0.5	0.3	0.2	
24	0.0	0.1	0.2	0.3	2.9	8.2	6.2	1.8	0.7	0.5	0.3	0.2	
25	0.0	0.1	0.2	0.3	2.9	10.7	5.9	1.7	0.7	0.5	0.3	0.2	
26	0.0	0.1	0.2	0.3	3.3	11.2	5.7	1.6	0.7	0.5	0.3	0.2	
27	0.0	0.1	0.2	0.4	5.1	14.7	5.1	1.5	0.7	0.5	0.3	0.2	
28	0.0	0.2	0.2	0.4	6.4	17.8	5.3	1.5	0.7	0.5	0.3	0.2	
29	0.0	0.2	0.2	0.4	7.4	17.8	5.3	1.6	0.7	0.5	0.3	0.2	
30	0.0	0.2	0.2	0.4	11.7	18.5	5.3	1.6	0.7	0.4		0.2	
31		0.2		0.4	11.2		5.3		0.6	0.4		0.2	
Total	2.3	2.6	6.0	9.3	76.9	352.8	399.6	111.2	27.0	16.7	10.5	6.8	1021.7 CMSDAY
Mean	0.1	0.1	0.2	0.3	2.5	11.8	12.9	3.7	0.9	0.5	0.4	0.2	2.8 CMS
Max	0.1	0.2	0.2	0.4	11.7	21.9	29.2	7.0	1.4	0.6	0.4	0.3	29.2 CMS
Min	0.0	0.0	0.2	0.2	0.5	5.9	5.1	1.5	0.6	0.4	0.3	0.2	0.0 CMS
Runoff	0.20	0.22	0.52	0.80	6.64	30.48	34.53	9.61	2.33	1.44	0.91	0.59	88.27 MCM

Momentary Peak 29.18 CMS, at 3.07 M (A.D), at 12.00 Hours, on Oct 7, 1995

Runoff Yield 2.69 Liters/Second/Square KM, Momentary Peak Yield 28.112 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

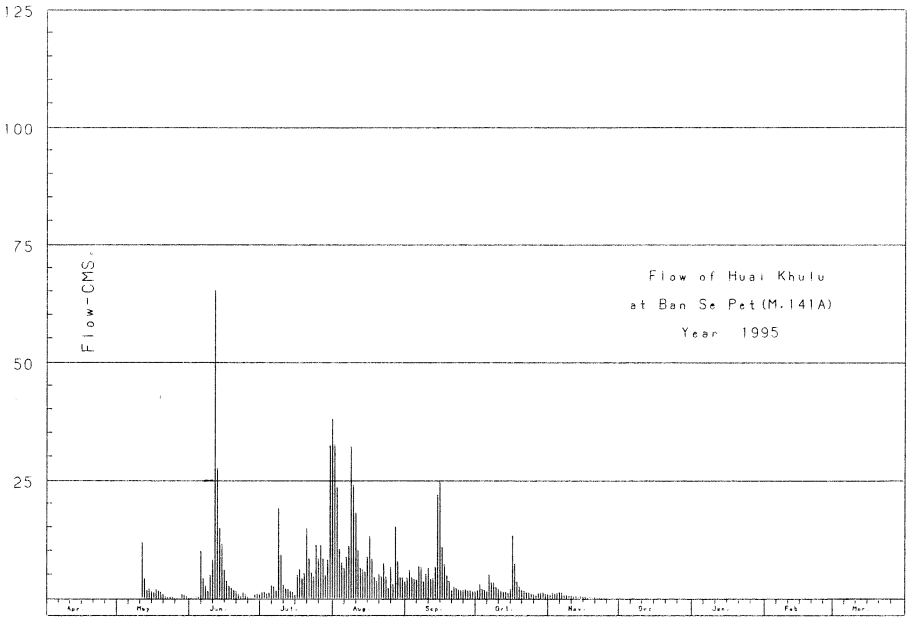
Khlong Nong Mon at Ban Se Pet, Ubon Ratchathani (M.141A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.66	1.66	1.82	2.03	3.29	2.28	2.08	1.97	1.80	1.69	1.66	1.63	
2	1.66	1.66	1.84	2.05	3.05	2.36	2.20	2.02	1.81	1.69	1.65	1.63	
3	1.66	1.66	1.89	2.00	2.59	2.29	2.11	2.01	1.80	1.70	1.65	1.63	
4	1.66	1.66	1.89	2.03	2.44	2.26	2.08	2.01	1.80	1.70	1.64	1.63	
5	1.66	1.75	2.57	2.19	2.39	2.26	2.06	2.05	1.79	1.70	1.63	1.63	
6	1.66	1.69	2.28	2.15	2.50	2.41	2.32	2.02	1.79	1.70	1.63	1.63	
7	1.66	1.66	2.17	2.08	2.62	2.39	2.22	1.96	1.78	1.70	1.63	1.63	
8	1.66	1.64	2.07	2.91	3.28	2.24	2.22	1.95	1.78	1.70	1.63	1.63	
9	1.66	1.71	2.31	2.53	3.06	2.32	2.15	1.94	1.77	1.70	1.63	1.63	
10	1.66	1.82	2.47	2.19	2.88	2.38	2.10	1.92	1.77	1.70	1.63	1.63	
11	1.66	2.65	3.99	2.12	2.57	2.27	2.07	1.91	1.76	1.70	1.63	1.63	
12	1.66	2.28	3.16	2.10	2.39	2.27	2.05	1.90	1.75	1.70	1.63	1.63	
13	1.66	2.09	2.77	2.07	2.37	2.40	2.04	1.90	1.75	1.70	1.63	1.63	
14	1.66	2.10	2.63	2.03	2.35	3.00	2.03	1.89	1.73	1.70	1.63	1.63	
15	1.66	2.05	2.37	1.98	2.51	3.08	2.10	1.88	1.70	1.69	1.63	1.63	
16	1.66	2.04	2.24	2.31	2.70	2.61	2.71	1.87	1.70	1.69	1.63	1.63	
17	1.66	2.10	2.18	2.37	2.48	2.42	2.43	1.87	1.75	1.69	1.63	1.63	
18	1.66	2.08	2.12	2.28	2.29	2.31	2.24	1.86	1.76	1.69	1.63	1.63	
19	1.66	2.04	2.09	2.33	2.24	2.24	2.15	1.86	1.71	1.68	1.63	1.63	
20	1.66	1.99	2.06	2.76	2.32	2.08	2.09	1.85	1.71	1.68	1.63	1.63	
21	1.66	1.91	2.00	2.49	2.30	2.15	2.06	1.85	1.71	1.67	1.63	1.63	
22	1.66	1.89	1.91	2.34	2.44	2.13	2.04	1.84	1.75	1.67	1.63	1.63	
23	1.66	1.89	2.04	2.29	2.29	2.09	2.02	1.83	1.76	1.67	1.63	1.63	
24	1.66	1.86	1.98	2.63	2.13	2.08	2.01	1.80	1.76	1.67	1.63	1.63	
25	1.66	1.82	1.87	2.48	2.39	2.08	1.97	1.76	1.75	1.67	1.63	1.63	
26	1.66	1.80	1.84	2.62	2.20	2.10	1.95	1.73	1.74	1.67	1.63	1.63	
27	1.66	1.78	1.82	2.49	2.78	2.08	2.02	1.72	1.73	1.67	1.63	1.63	
28	1.66	2.01	1.99	2.31	2.46	2.07	2.01	1.71	1.72	1.67	1.63	1.63	
29	1.66	1.95	2.00	2.47	2.29	2.06	2.04	1.71	1.70	1.67	1.63	1.63	
30	1.66	1.90	2.00	3.29	2.28	2.05	1.99	1.70	1.69	1.67		1.63	
31		1.86		3.43	2.24		1.98		1.68	1.67		1.63	
Mean	1.66	1.90	2.21	2.37	2.52	2.29	2.11	1.88	1.75	1.69	1.63	1.63	
Max	1.66	2.65	3.99	3.43	3.29	3.08	2.71	2.05	1.81	1.70	1.66	1.63	3.99
Min	1.66	1.64	1.82	1.98	2.13	2.05	1.95	1.70	1.68	1.67	1.63	1.63	1.63

Annual Max Momentary Gage Height 3.99 M (A.D), at 12.00 Hours, on Jun 11, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 1.62 M (A.D)
Left Bank Elevation 7.85 M (A.D)
Right Bank Elevation 7.85 M (A.D), Drainage Area 382 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.18	1.30	32.60	4.44	1.80	0.85	0.10	0.00	0.00	0.00	
2	0.00	0.00	0.26	1.50	23.75	6.00	3.00	1.20	0.14	0.00	0.00	0.00	
3	0.00	0.00	0.46	1.00	10.60	4.62	2.10	1.10	0.10	0.00	0.00	0.00	
4	0.00	0.00	0.46	1.30	7.60	4.08	1.80	1.10	0.10	0.00	0.00	0.00	
5	0.00	0.05	10.20	2.90	6.60	4.08	1.60	1.50	0.09	0.00	0.00	0.00	
6	0.00	0.00	4.44	2.50	8.80	7.00	5.20	1.20	0.09	0.00	0.00	0.00	
7	0.00	0.00	2.70	1.80	11.28	6.60	3.36	0.80	0.08	0.00	0.00	0.00	
8	0.00	0.00	1.70	19.30	32.20	3.72	3.36	0.75	0.08	0.00	0.00	0.00	
9	0.00	0.01	5.00	9.40	24.10	5.20	2.50	0.70	0.07	0.00	0.00	0.00	
10	0.00	0.18	8.20	2.90	18.40	6.40	2.00	0.60	0.07	0.00	0.00	0.00	
11	0.00	12.00	65.50	2.20	10.20	4.26	1.70	0.55	0.06	0.00	0.00	0.00	
12	0.00	4.44	27.60	2.00	6.60	4.26	1.50	0.50	0.05	0.00	0.00	0.00	
13	0.00	1.90	15.16	1.70	6.20	6.80	1.40	0.50	0.05	0.00	0.00	0.00	
14	0.00	2.00	11.52	1.30	5.80	22.00	1.30	0.46	0.03	0.00	0.00	0.00	
15	0.00	1.50	6.20	0.90	9.00	24.80	2.00	0.42	0.00	0.00	0.00	0.00	
16	0.00	1.40	3.72	5.00	13.20	11.04	13.48	0.38	0.00	0.00	0.00	0.00	
17	0.00	2.00	2.80	6.20	8.40	7.20	7.40	0.38	0.05	0.00	0.00	0.00	
18	0.00	1.80	2.20	4.44	4.62	5.00	3.72	0.34	0.06	0.00	0.00	0.00	
19	0.00	1.40	1.90	5.40	3.72	3.72	2.50	0.34	0.01	0.00	0.00	0.00	
20	0.00	0.95	1.60	14.88	5.20	1.80	1.90	0.30	0.01	0.00	0.00	0.00	
21	0.00	0.55	1.00	8.60	4.80	2.50	1.60	0.30	0.01	0.00	0.00	0.00	
22	0.00	0.46	0.55	5.60	7.60	2.30	1.40	0.26	0.05	0.00	0.00	0.00	
23	0.00	0.46	1.40	4.62	4.62	1.90	1.20	0.22	0.06	0.00	0.00	0.00	
24	0.00	0.34	0.90	11.52	2.30	1.80	1.10	0.10	0.06	0.00	0.00	0.00	
25	0.00	0.18	0.38	8.40	6.60	1.80	0.85	0.06	0.05	0.00	0.00	0.00	
26	0.00	0.10	0.26	11.28	3.00	2.00	0.75	0.03	0.04	0.00	0.00	0.00	
27	0.00	0.08	0.18	8.60	15.44	1.80	1.20	0.02	0.03	0.00	0.00	0.00	
28	0.00	1.10	0.95	5.00	8.00	1.70	1.10	0.01	0.02	0.00	0.00	0.00	
29	0.00	0.75	1.00	8.20	4.62	1.60	1.40	0.01	0.00	0.00	0.00	0.00	
30	0.00	0.50	1.00	32.60	4.44	1.50	0.95	0.00	0.00	0.00		0.00	
31		0.34		38.20	3.72		0.90		0.00	0.00		0.00	
Total	0.00	34.49	179.42	230.54	314.01	161.92	76.07	14.98	1.56	0.00	0.00	0.00	1012.99 CMSDAY
Mean	0.00	1.11	5.98	7.44	10.13	5.40	2.45	0.50	0.05	0.00	0.00	0.00	2.77 CMS
Max	0.00	12.00	65.50	38.20	32.60	24.80	13.48	1.50	0.14	0.00	0.00	0.00	65.50 CMS
Min	0.00	0.00	0.18	0.90	2.30	1.50	0.75	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	2.980	15.502	19.919	27.130	13.990	6.572	1.294	0.135	0.000	0.000	0.000	87.522 MCM

Momentary Peak 65.50 CMS, at 3.99 M (A.D), at 12.00 Hours, on Jun 11, 1995
Runoff Yield 7.25 Liters/Second/Square KM, Momentary Peak Yield 171.47 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

Huai Khayung at Ban Ta Nuad Hua Saphan, Si Sa Ket (M.142)

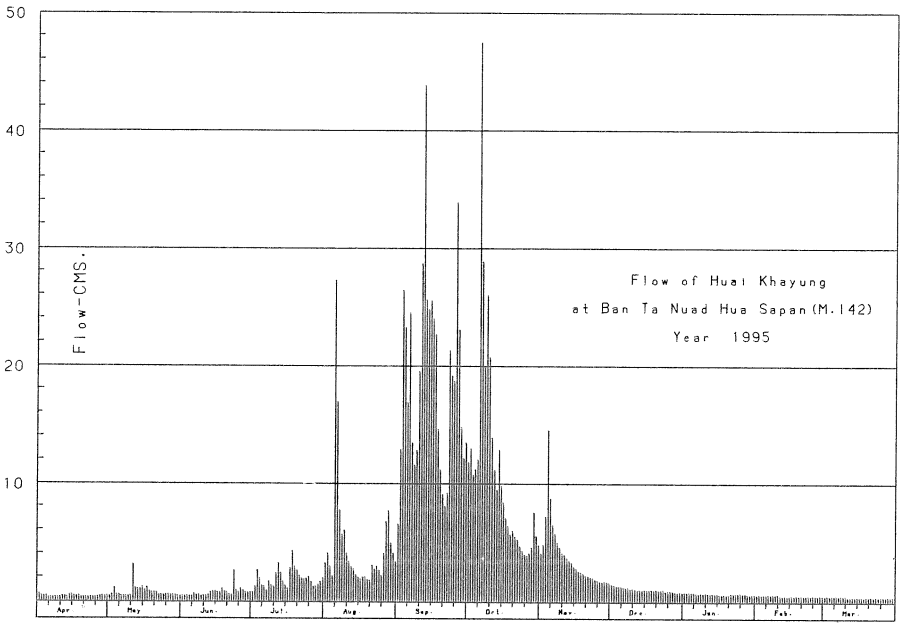
Location: Lat. 14-30-32 N., Long. 104-37-28 E.,on left bank at the bridge on road, Ban Ta Nuad Hua Saphan, Amphoe Kantharalak, Si Sa Ket.

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.33	0.35	0.44	0.90	1.32	1.84	1.01	0.60	0.45	0.39	0.35	
2	0.35	0.40	0.35	0.57	1.02	1.95	1.96	1.11	0.59	0.45	0.39	0.35	
3	0.34	0.54	0.37	0.81	0.85	3.13	1.74	1.38	0.58	0.45	0.39	0.35	
4	0.33	0.41	0.36	0.69	0.74	2.88	1.78	2.12	0.57	0.44	0.39	0.34	
5	0.32	0.38	0.36	0.59	3.20	2.34	1.87	1.54	0.55	0.44	0.39	0.34	
6	0.32	0.36	0.42	0.55	2.35	2.98	4.63	1.31	0.54	0.43	0.39	0.33	
7	0.32	0.35	0.40	0.51	1.44	2.01	3.32	1.23	0.54	0.43	0.39	0.33	
8	0.31	0.35	0.38	0.64	1.22	1.82	2.61	1.14	0.54	0.43	0.38	0.33	
9	0.31	0.36	0.37	0.58	1.27	1.94	3.10	1.09	0.53	0.43	0.38	0.33	
10	0.32	0.37	0.36	0.55	1.02	2.57	2.67	1.02	0.53	0.43	0.38	0.33	
11	0.33	0.89	0.37	0.76	0.92	3.31	2.05	1.00	0.52	0.42	0.37	0.32	
12	0.33	0.54	0.38	0.90	0.86	4.39	1.78	0.96	0.51	0.42	0.37	0.32	
13	0.32	0.52	0.44	0.78	0.83	3.07	1.61	0.93	0.51	0.42	0.37	0.32	
14	0.41	0.53	0.47	0.63	0.75	3.01	1.95	0.90	0.51	0.42	0.37	0.32	
15	0.38	0.55	0.48	0.58	0.72	3.07	1.64	0.85	0.51	0.42	0.37	0.32	
16	0.37	0.51	0.46	0.53	0.68	2.94	1.50	0.83	0.51	0.41	0.37	0.31	
17	0.36	0.54	0.46	0.84	0.72	2.83	1.37	0.80	0.50	0.41	0.36	0.31	
18	0.33	0.47	0.52	1.05	0.72	2.12	1.30	0.78	0.50	0.41	0.36	0.31	
19	0.31	0.45	0.47	0.86	0.67	1.78	1.22	0.76	0.50	0.41	0.36	0.31	
20	0.31	0.44	0.44	0.81	0.66	1.57	1.26	0.74	0.50	0.41	0.36	0.31	
21	0.31	0.44	0.41	0.73	0.87	1.47	1.20	0.73	0.49	0.42	0.35	0.32	
22	0.30	0.41	0.40	0.70	0.83	1.58	1.17	0.71	0.49	0.42	0.35	0.32	
23	0.29	0.41	0.82	0.67	0.86	2.72	1.10	0.69	0.49	0.42	0.35	0.32	
24	0.29	0.40	0.50	0.69	0.82	2.54	1.04	0.68	0.48	0.42	0.35	0.32	
25	0.28	0.39	0.46	0.71	0.74	2.50	1.00	0.66	0.48	0.42	0.35	0.32	
26	0.28	0.38	0.52	0.64	1.01	3.69	0.99	0.65	0.47	0.42	0.35	0.32	
27	0.33	0.40	0.49	0.56	1.34	2.87	1.01	0.64	0.47	0.42	0.35	0.32	
28	0.34	0.39	0.45	0.56	1.43	2.14	1.09	0.64	0.46	0.41	0.35	0.31	
29	0.34	0.38	0.44	0.60	1.14	1.88	1.42	0.63	0.46	0.41	0.35	0.31	
30	0.34	0.36	0.44	0.65	1.02	2.01	1.21	0.62	0.46	0.41		0.31	
31		0.36		0.70	0.92		1.11		0.45	0.41		0.31	
Mean	0.33	0.44	0.44	0.67	1.05	2.48	1.73	0.94	0.51	0.42	0.37	0.32	
Max	0.42	0.89	0.82	1.05	3.20	4.39	4.63	2.12	0.60	0.45	0.39	0.35	4.63
Min	0.28	0.33	0.35	0.44	0.66	1.32	0.99	0.62	0.45	0.41	0.35	0.31	0.28

Annual Max Momentary Gage Height 4.78 M (A.D), at 15.00 Hours, on Oct 6, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.12 M (A.D)
Left Bank Elevation 6.74 M (A.D)
Right Bank Elevation 8.75 M (A.D), Drainage Area 241 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.7	0.5	0.5	0.8	3.3	6.6	11.8	4.1	1.5	0.8	0.6	0.5	
2	0.5	0.6	0.5	1.3	4.1	12.9	13.0	4.8	1.4	0.8	0.6	0.5	
3	0.5	1.2	0.5	2.7	3.0	26.4	10.8	7.2	1.4	0.8	0.6	0.5	
4	0.5	0.6	0.5	2.0	2.2	23.3	11.2	14.6	1.3	0.8	0.6	0.5	
5	0.4	0.6	0.5	1.4	27.3	16.9	12.1	8.8	1.3	0.8	0.6	0.5	
6	0.4	0.5	0.7	1.3	17.0	24.5	47.5	6.5	1.2	0.7	0.6	0.5	
7	0.4	0.5	0.6	1.0	7.8	13.5	28.9	5.8	1.2	0.7	0.6	0.5	
8	0.4	0.5	0.6	1.7	5.7	11.6	20.0	5.0	1.2	0.7	0.6	0.5	
9	0.4	0.5	0.5	1.4	6.1	12.8	26.0	4.6	1.1	0.7	0.6	0.5	
10	0.4	0.5	0.5	1.3	4.1	19.5	20.7	4.1	1.1	0.7	0.6	0.5	
11	0.5	3.2	0.5	2.4	3.4	28.7	13.9	4.0	1.1	0.7	0.5	0.4	
12	0.5	1.2	0.6	3.3	3.0	43.8	11.2	3.7	1.0	0.7	0.5	0.4	
13	0.4	1.1	0.8	2.5	2.8	25.6	9.5	3.5	1.0	0.7	0.5	0.4	
14	0.6	1.1	0.9	1.7	2.3	24.8	12.9	3.3	1.0	0.7	0.5	0.4	
15	0.6	1.3	0.9	1.4	2.1	25.6	9.8	3.0	1.0	0.7	0.5	0.4	
16	0.5	1.0	0.8	1.1	1.9	24.0	8.4	2.8	1.0	0.6	0.5	0.4	
17	0.5	1.2	0.8	2.9	2.1	22.7	7.1	2.6	1.0	0.6	0.5	0.4	
18	0.5	0.9	1.1	4.3	2.1	14.6	6.4	2.5	1.0	0.6	0.5	0.4	
19	0.4	0.8	0.9	3.0	1.9	11.2	5.7	2.4	1.0	0.6	0.5	0.4	
20	0.4	0.8	0.8	2.7	1.8	9.1	6.0	2.2	1.0	0.6	0.5	0.4	
21	0.4	0.8	0.6	2.2	3.1	8.1	5.5	2.2	1.0	0.7	0.5	0.4	
22	0.4	0.6	0.6	2.0	2.8	9.2	5.3	2.1	1.0	0.7	0.5	0.4	
23	0.4	0.6	2.7	1.9	3.0	21.3	4.7	2.0	1.0	0.7	0.5	0.4	
24	0.4	0.6	1.0	2.0	2.7	19.2	4.3	1.9	0.9	0.7	0.5	0.4	
25	0.4	0.6	0.8	2.1	2.2	18.7	4.0	1.8	0.9	0.7	0.5	0.4	
26	0.4	0.6	1.1	1.7	4.1	33.9	3.9	1.7	0.9	0.7	0.5	0.4	
27	0.5	0.6	1.0	1.3	6.8	23.1	4.1	1.7	0.9	0.7	0.5	0.4	
28	0.5	0.6	0.8	1.3	7.7	14.8	4.6	1.7	0.8	0.6	0.5	0.4	
29	0.5	0.6	0.8	1.5	5.0	12.2	7.6	1.7	0.8	0.6	0.5	0.4	
30	0.5	0.5	0.8	1.7	4.1	13.5	5.6	1.6	0.8	0.6		0.4	
31		0.5		2.0	3.4		4.8		0.8	0.6		0.4	
Total	13.9	25.2	23.7	59.9	148.9	572.1	347.3	113.9	32.6	21.3	15.5	13.4	1387.7 CMSDAY
Mean	0.5	0.8	0.8	1.9	4.8	19.1	11.2	3.8	1.1	0.7	0.5	0.4	3.8 CMS
Max	0.7	3.2	2.7	4.3	27.3	43.8	47.5	14.6	1.5	0.8	0.6	0.5	47.5 CMS
Min	0.4	0.5	0.5	0.8	1.8	6.6	3.9	1.6	0.8	0.6	0.5	0.4	0.4 CMS
Runoff	1.20	2.18	2.05	5.18	12.86	49.43	30.01	9.84	2.82	1.84	1.34	1.16	119.90 MCM

Momentary Peak 49.70 CMS, at 4.78 M (A.D), at 15.00 Hours, on Oct 6, 1995

Runoff Yield 15.73 Liters/Second/Square KM, Momentary Peak Yield 206.224 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

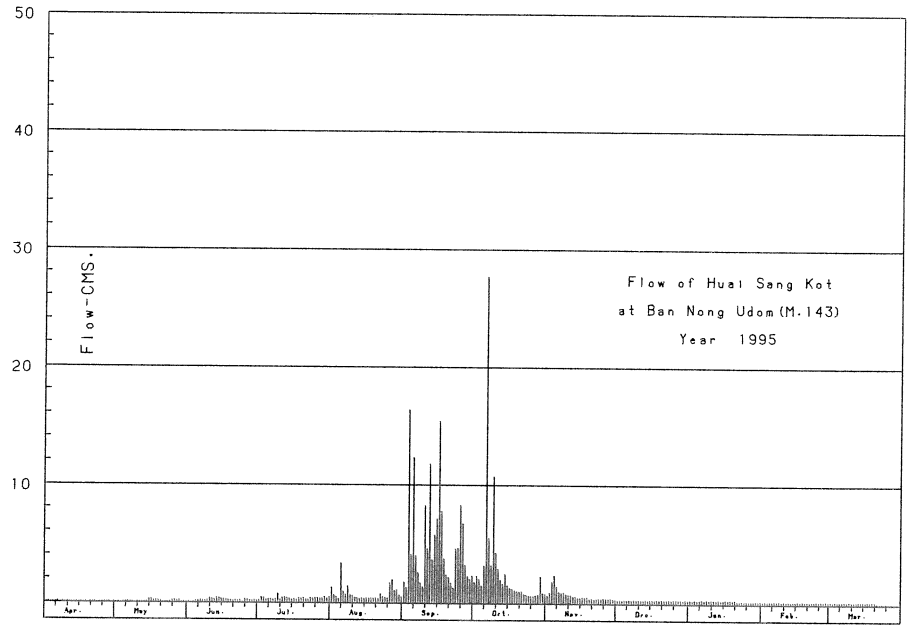
Huai Sang Kot at Ban Nong Udom, Si Sa Ket (M.143)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the weir during Mar.1-31,96, discharge estimated by recession equation. Stage-discharge relation defined by 24 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.65	0.71	0.77	1.48	1.71	1.70	1.20	0.94	0.85	0.80	0.79	
2	0.65	0.65	0.70	1.06	1.19	1.49	1.86	1.28	0.93	0.85	0.79	0.79	
3	0.67	0.67	0.69	0.99	1.09	4.06	1.76	1.69	0.93	0.85	0.79	0.79	
4	0.67	0.66	0.78	0.94	1.05	2.31	1.59	1.89	0.92	0.85	0.79	0.78	
5	0.67	0.66	0.83	0.91	2.14	3.64	2.09	1.56	0.91	0.85	0.79	0.78	
6	0.66	0.65	0.79	0.88	1.34	2.29	4.86	1.36	0.90	0.85	0.79	0.78	
7	0.66	0.65	0.76	0.86	1.22	1.94	2.60	1.31	0.90	0.85	0.79	0.78	
8	0.66	0.65	0.75	0.85	1.54	1.66	2.10	1.30	0.89	0.85	0.79	0.78	
9	0.66	0.65	0.75	1.24	1.18	1.56	3.43	1.24	0.89	0.85	0.79	0.78	
10	0.66	0.70	0.95	0.94	1.15	3.09	2.36	1.21	0.89	0.85	0.79	0.78	
11	0.66	0.69	0.94	1.04	1.08	2.42	2.03	1.18	0.89	0.85	0.79	0.78	
12	0.66	0.68	0.86	1.09	1.05	3.57	1.78	1.16	0.89	0.85	0.79	0.77	
13	0.66	0.66	0.96	1.00	1.02	2.22	1.63	1.13	0.89	0.85	0.79	0.77	
14	0.66	0.67	1.00	0.96	1.00	2.66	1.92	1.11	0.88	0.85	0.79	0.77	
15	0.67	0.87	0.90	0.93	1.00	2.91	1.61	1.10	0.87	0.85	0.79	0.77	
16	0.67	0.88	0.86	0.90	0.99	3.97	1.52	1.08	0.87	0.85	0.79	0.77	
17	0.67	0.84	0.88	0.93	0.98	3.00	1.44	1.07	0.87	0.85	0.79	0.77	
18	0.67	0.81	0.84	0.97	0.97	2.24	1.38	1.06	0.87	0.85	0.79	0.77	
19	0.67	0.79	0.78	0.97	0.97	1.89	1.33	1.05	0.87	0.85	0.79	0.77	
20	0.66	0.76	0.78	0.95	0.99	1.83	1.34	1.04	0.87	0.85	0.79	1.35	
21	0.66	0.72	0.77	0.94	1.00	1.68	1.37	1.02	0.87	0.84	0.79	1.35	
22	0.66	0.70	0.75	0.93	1.25	1.52	1.27	1.01	0.87	0.84	0.79	1.35	
23	0.66	0.70	0.77	1.05	1.10	2.42	1.22	1.00	0.86	0.84	0.79	1.35	
24	0.66	0.70	0.73	1.05	1.10	2.44	1.20	0.99	0.86	0.84	0.79	1.35	
25	0.66	0.79	0.92	1.01	1.01	3.08	1.17	0.99	0.86	0.84	0.79	1.34	
26	0.66	0.76	0.90	1.02	1.66	2.85	1.15	0.98	0.85	0.84	0.79	1.34	
27	0.66	0.75	0.83	1.00	1.77	2.11	1.19	0.97	0.85	0.84	0.79	1.34	
28	0.65	0.75	0.83	0.98	1.40	1.88	1.20	0.96	0.85	0.84	0.79	1.34	
29	0.65	0.73	0.79	1.09	1.39	1.77	1.86	0.95	0.85	0.84	0.79	1.33	
30	0.65	0.71	0.77	1.02	1.21	1.85	1.29	0.94	0.85	0.83		1.33	
31		0.72		1.11	1.12		1.25		0.85	0.83		1.33	
Mean	0.66	0.72	0.82	0.98	1.21	2.40	1.76	1.16	0.88	0.85	0.79	1.00	
Max	0.67	0.88	1.00	1.24	2.14	4.06	4.86	1.89	0.94	0.85	0.80	1.35	4.86
Min	0.65	0.65	0.69	0.77	0.97	1.49	1.15	0.94	0.85	0.83	0.79	0.77	0.65

Annual Max Momentary Gage Height 5.44 M (A.D), at 6.00 Hours, on Oct 6, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.54 M (A.D)
Left Bank Elevation 4.90 M (A.D)
Right Bank Elevation 4.22 M (A.D), Drainage Area 46 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.1	0.1	0.1	0.2	1.3	1.8	1.8	0.7	0.3	0.3	0.2	0.2	
2	0.1	0.1	0.1	0.5	0.7	1.3	2.3	0.9	0.3	0.3	0.2	0.2	
3	0.1	0.1	0.1	0.4	0.5	16.4	2.0	1.8	0.3	0.3	0.2	0.2	
4	0.1	0.1	0.2	0.3	0.4	4.1	1.5	2.4	0.3	0.3	0.2	0.2	
5	0.1	0.1	0.2	0.3	3.4	12.4	3.2	1.4	0.3	0.3	0.2	0.2	
6	0.1	0.1	0.2	0.3	1.0	4.0	27.7	1.0	0.3	0.3	0.2	0.2	
7	0.1	0.1	0.2	0.3	0.7	2.6	5.5	0.9	0.3	0.3	0.2	0.2	
8	0.1	0.1	0.2	0.3	1.4	1.7	3.2	0.9	0.3	0.3	0.2	0.2	
9	0.1	0.1	0.2	0.8	0.7	1.4	10.8	0.8	0.3	0.3	0.2	0.2	
10	0.1	0.1	0.4	0.3	0.6	8.3	4.3	0.7	0.3	0.3	0.2	0.2	
11	0.1	0.1	0.3	0.4	0.5	4.6	2.9	0.7	0.3	0.3	0.2	0.2	
12	0.1	0.1	0.3	0.5	0.4	11.8	2.0	0.6	0.3	0.3	0.2	0.2	
13	0.1	0.1	0.4	0.4	0.4	3.7	1.6	0.6	0.3	0.3	0.2	0.2	
14	0.1	0.1	0.4	0.4	0.4	5.8	2.5	0.5	0.3	0.3	0.2	0.2	
15	0.1	0.3	0.3	0.3	0.4	7.2	1.5	0.5	0.3	0.3	0.2	0.2	
16	0.1	0.3	0.3	0.3	0.4	15.4	1.3	0.5	0.3	0.3	0.2	0.2	
17	0.1	0.2	0.3	0.3	0.4	7.8	1.2	0.5	0.3	0.3	0.2	0.2	
18	0.1	0.2	0.2	0.4	0.4	3.8	1.1	0.5	0.3	0.3	0.2	0.2	
19	0.1	0.2	0.2	0.4	0.4	2.4	1.0	0.4	0.3	0.3	0.2	0.2	
20	0.1	0.2	0.2	0.4	0.4	2.2	1.0	0.4	0.3	0.3	0.2	0.2	
21	0.1	0.1	0.2	0.3	0.4	1.7	1.0	0.4	0.3	0.2	0.2	0.1	
22	0.1	0.1	0.2	0.3	0.8	1.3	0.8	0.4	0.3	0.2	0.2	0.1	
23	0.1	0.1	0.2	0.4	0.5	4.6	0.7	0.4	0.3	0.2	0.2	0.1	
24	0.1	0.1	0.1	0.4	0.5	4.7	0.7	0.4	0.3	0.2	0.2	0.1	
25	0.1	0.2	0.3	0.4	0.4	8.3	0.6	0.4	0.3	0.2	0.2	0.1	
26	0.1	0.2	0.3	0.4	1.7	6.8	0.6	0.4	0.3	0.2	0.2	0.1	
27	0.1	0.2	0.2	0.4	2.0	3.2	0.7	0.4	0.3	0.2	0.2	0.1	
28	0.1	0.2	0.2	0.4	1.1	2.3	0.7	0.4	0.3	0.2	0.2	0.0	
29	0.1	0.1	0.2	0.5	1.1	2.0	2.3	0.4	0.3	0.2	0.2	0.0	
30	0.1	0.1	0.2	0.4	0.7	2.3	0.9	0.3	0.3	0.2		0.0	
31		0.1		0.5	0.5		0.8		0.3	0.2		0.0	
Total	3.0	4.3	6.9	11.9	24.5	155.9	88.2	20.6	9.3	8.2	5.8	4.7	343.3 CMSDAY
Mean	0.1	0.1	0.2	0.4	0.8	5.2	2.8	0.7	0.3	0.3	0.2	0.2	0.9 CMS
Max	0.1	0.3	0.4	0.8	3.4	16.4	27.7	2.4	0.3	0.3	0.2	0.2	27.7 CMS
Min	0.1	0.1	0.1	0.2	0.4	1.3	0.6	0.3	0.3	0.2	0.2	0.0	0.0 CMS
Runoff	0.26	0.37	0.60	1.03	2.12	13.47	7.62	1.78	0.80	0.71	0.50	0.41	29.66 MCM

Momentary Peak 45.62 CMS, at 5.44 M (A.D), at 6.00 Hours, on Oct 6, 1995

Runoff Yield 20.39 Liters/Second/Square KM, Momentary Peak Yield 991.739 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

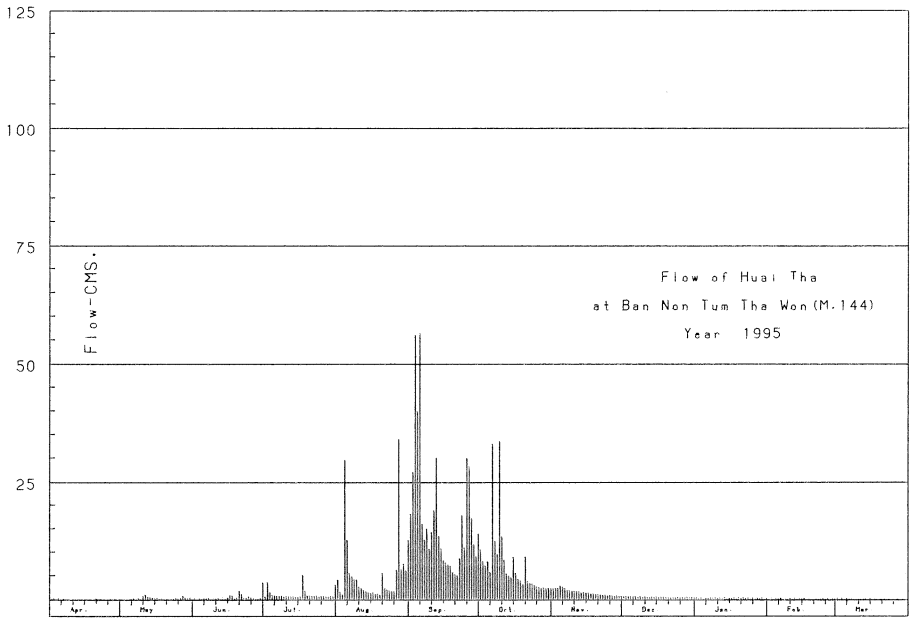
Huai Tha at Ban Non Tum Tha Won, Si Sa Ket (M.144)

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 about 10 meters from the top staff gage.
Elevation	+13.954 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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +6.03 m.(A.D.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	0.81	0.93	1.11	2.36	3.92	3.23	1.91	1.22	1.03	0.94	0.87	
2	0.85	0.81	0.93	2.21	1.66	4.49	2.94	1.96	1.20	1.03	0.94	0.87	
3	0.85	0.81	0.92	1.66	1.47	5.68	2.82	1.93	1.19	1.03	0.93	0.87	
4	0.85	0.81	0.92	1.35	4.63	5.10	2.95	2.08	1.18	1.02	0.93	0.87	
5	0.84	0.80	0.92	1.30	3.45	5.69	2.63	2.03	1.17	1.02	0.93	0.86	
6	0.84	0.80	0.95	1.27	2.58	3.76	4.80	1.93	1.16	1.02	0.93	0.86	
7	0.84	0.94	0.93	1.26	2.49	3.45	3.41	1.81	1.15	1.02	0.92	0.86	
8	0.84	0.90	0.93	1.24	2.33	3.65	3.13	1.78	1.15	1.01	0.92	0.86	
9	0.84	0.90	0.93	1.21	2.35	3.25	4.83	1.76	1.14	1.01	0.92	0.86	
10	0.83	1.21	0.93	1.20	1.99	3.59	3.52	1.74	1.14	1.01	0.91	0.86	
11	0.83	1.47	0.92	1.18	1.94	3.97	2.98	1.72	1.13	1.01	0.91	0.85	
12	0.83	1.14	0.92	1.17	1.79	4.66	2.59	1.70	1.13	1.00	0.91	0.85	
13	0.83	1.00	1.09	1.15	1.73	3.52	2.48	1.65	1.12	1.00	0.91	0.85	
14	0.83	0.98	0.92	1.14	1.64	3.26	2.43	1.65	1.12	1.00	0.90	0.85	
15	0.83	0.96	0.97	1.14	1.60	2.98	3.05	1.62	1.11	1.00	0.90	0.85	
16	0.83	0.95	1.43	1.13	1.63	2.90	2.58	1.60	1.11	1.00	0.90	0.85	
17	0.82	0.94	1.29	2.53	1.55	2.86	2.38	1.56	1.10	0.99	0.90	0.85	
18	0.82	0.93	1.01	1.73	1.52	2.81	2.29	1.54	1.10	0.99	0.90	0.85	
19	0.82	0.92	0.96	1.31	1.48	2.62	2.14	1.51	1.09	0.99	0.89	0.84	
20	0.82	0.91	1.75	1.27	2.59	2.54	3.08	1.47	1.09	0.98	0.89	0.84	
21	0.82	0.90	1.46	1.26	1.95	2.50	2.27	1.46	1.08	0.98	0.89	0.84	
22	0.82	0.90	1.00	1.25	1.82	3.03	2.19	1.42	1.08	0.98	0.89	0.84	
23	0.82	0.90	1.00	1.24	1.77	3.90	2.14	1.37	1.07	0.97	0.89	0.84	
24	0.82	0.89	1.22	1.23	1.74	3.28	2.09	1.35	1.07	0.97	0.88	0.84	
25	0.82	0.89	1.00	1.22	1.70	4.65	2.00	1.30	1.06	0.97	0.88	0.84	
26	0.81	0.89	1.00	1.21	2.71	4.55	1.97	1.26	1.06	0.96	0.88	0.84	
27	0.81	1.26	0.93	1.20	4.85	3.86	1.95	1.25	1.05	0.96	0.88	0.84	
28	0.81	0.99	0.90	1.19	2.71	3.36	1.94	1.25	1.05	0.95	0.88	0.84	
29	0.81	0.96	0.90	1.18	2.88	3.07	1.93	1.24	1.05	0.95	0.88	0.84	
30	0.81	0.95	2.24	1.18	2.69	3.57	1.93	1.23	1.04	0.94		0.84	
31		0.94		2.11	3.44		1.92		1.04	0.94		0.84	
Mean	0.83	0.95	1.07	1.35	2.29	3.68	2.66	1.60	1.11	0.99	0.90	0.85	
Max	0.85	1.47	2.24	2.53	4.85	5.69	4.83	2.08	1.22	1.03	0.94	0.87	5.69
Min	0.81	0.80	0.90	1.11	1.47	2.50	1.92	1.23	1.04	0.94	0.88	0.84	0.80

Annual Max Momentary Gage Height 6.76 M (A.D), at 6.00 Hours, on Sep 5, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.72 M (A.D)
Left Bank Elevation 7.01 M (A.D)
Right Bank Elevation 6.02 M (A.D), Drainage Area 124 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.3	0.2	0.3	0.6	4.3	18.2	10.6	2.3	0.7	0.4	0.3	0.3	
2	0.3	0.2	0.3	3.6	1.6	27.1	8.1	2.5	0.7	0.4	0.3	0.3	
3	0.3	0.2	0.3	1.6	1.1	56.2	7.2	2.4	0.7	0.4	0.3	0.3	
4	0.3	0.2	0.3	0.9	29.8	40.0	8.2	3.0	0.7	0.4	0.3	0.3	
5	0.2	0.2	0.3	0.9	12.8	56.5	5.9	2.8	0.7	0.4	0.3	0.3	
6	0.2	0.2	0.4	0.8	5.6	16.2	33.1	2.4	0.6	0.4	0.3	0.3	
7	0.2	0.3	0.3	0.8	5.0	12.8	12.4	2.0	0.6	0.4	0.3	0.3	
8	0.2	0.3	0.3	0.8	4.2	15.0	9.7	1.9	0.6	0.4	0.3	0.3	
9	0.2	0.3	0.3	0.7	4.3	10.8	33.8	1.9	0.6	0.4	0.3	0.3	
10	0.2	0.7	0.3	0.7	2.7	14.3	13.5	1.8	0.6	0.4	0.3	0.3	
11	0.2	1.1	0.3	0.7	2.5	18.9	8.4	1.8	0.6	0.4	0.3	0.3	
12	0.2	0.6	0.3	0.7	2.0	30.3	5.6	1.7	0.6	0.4	0.3	0.3	
13	0.2	0.4	0.5	0.6	1.8	13.5	5.0	1.5	0.6	0.4	0.3	0.3	
14	0.2	0.4	0.3	0.6	1.5	10.8	4.7	1.5	0.6	0.4	0.3	0.3	
15	0.2	0.4	0.4	0.6	1.4	8.4	9.0	1.5	0.6	0.4	0.3	0.3	
16	0.2	0.4	1.0	0.6	1.5	7.8	5.6	1.4	0.6	0.4	0.3	0.3	
17	0.2	0.3	0.8	5.3	1.3	7.5	4.4	1.3	0.6	0.4	0.3	0.3	
18	0.2	0.3	0.4	1.8	1.2	7.1	4.0	1.2	0.6	0.4	0.3	0.3	
19	0.2	0.3	0.4	0.9	1.1	5.8	3.3	1.2	0.5	0.4	0.3	0.2	
20	0.2	0.3	1.9	0.8	5.6	5.3	9.2	1.1	0.5	0.4	0.3	0.2	
21	0.2	0.3	1.1	0.8	2.5	5.1	3.9	1.1	0.5	0.4	0.3	0.2	
22	0.2	0.3	0.4	0.8	2.1	8.8	3.5	1.0	0.5	0.4	0.3	0.2	
23	0.2	0.3	0.4	0.8	1.9	17.9	3.3	1.0	0.5	0.4	0.3	0.2	
24	0.2	0.3	0.7	0.7	1.8	11.0	3.1	0.9	0.5	0.4	0.3	0.2	
25	0.2	0.3	0.4	0.7	1.7	30.2	2.7	0.9	0.5	0.4	0.3	0.2	
26	0.2	0.3	0.4	0.7	6.4	28.3	2.6	0.8	0.5	0.4	0.3	0.2	
27	0.2	0.8	0.3	0.7	34.2	17.4	2.5	0.8	0.5	0.4	0.3	0.2	
28	0.2	0.4	0.3	0.7	6.4	11.8	2.5	0.8	0.5	0.4	0.3	0.2	
29	0.2	0.4	0.3	0.7	7.6	9.2	2.4	0.8	0.5	0.4	0.3	0.2	
30	0.2	0.4	3.7	0.7	6.2	14.1	2.4	0.7	0.5	0.3		0.2	
31		0.3		3.1	12.7		2.4		0.5	0.3		0.2	
Total	6.4	11.4	17.4	34.4	174.8	536.3	233.0	46.0	17.8	12.2	8.7	8.0	1106.4 CMSDAY
Mean	0.2	0.4	0.6	1.1	5.6	17.9	7.5	1.5	0.6	0.4	0.3	0.3	3.0 CMS
Max	0.3	1.1	3.7	5.3	34.2	56.5	33.8	3.0	0.7	0.4	0.3	0.3	56.5 CMS
Min	0.2	0.2	0.3	0.6	1.1	5.1	2.4	0.7	0.5	0.3	0.3	0.2	0.2 CMS
Runoff	0.55	0.98	1.50	2.97	15.10	46.34	20.13	3.97	1.54	1.05	0.75	0.69	95.59 MCM

Momentary Peak 93.96 CMS, at 6.76 M (A.D), at 6.00 Hours, on Sep 5, 1995

Runoff Yield 24.38 Liters/Second/Square KM, Momentary Peak Yield 757.742 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

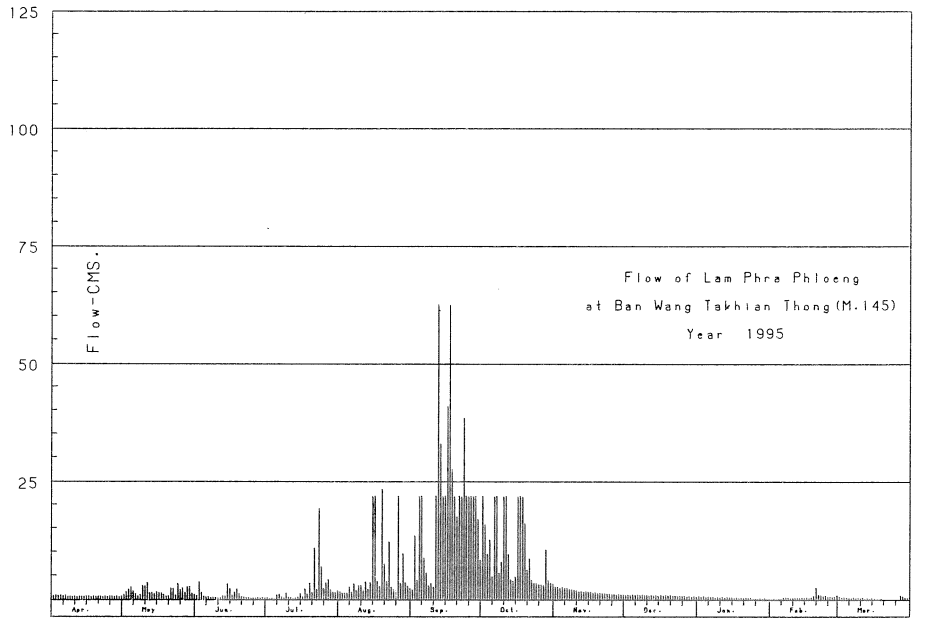
Lam Phra Phloeng at Ban Wang Takhian Thong, Nakhon Ratchasima (M.145)

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.
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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 71 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.07	-0.02	-0.11	0.13	0.24	1.37	0.39	0.02	-0.05	-0.14	-0.06	
2	0.00	0.13	0.58	-0.12	0.10	0.91	0.96	0.33	0.02	-0.05	-0.14	-0.08	
3	0.00	0.28	0.11	-0.13	0.08	0.64	0.82	0.32	0.02	-0.05	-0.14	-0.09	
4	0.00	0.35	-0.03	-0.14	0.10	1.58	0.89	0.33	0.02	-0.06	-0.14	-0.09	
5	0.00	0.17	-0.07	-0.01	0.33	1.10	0.71	0.32	0.02	-0.07	-0.14	-0.10	
6	0.00	0.07	-0.07	0.06	0.12	0.80	1.65	0.31	0.01	-0.07	-0.11	-0.10	
7	-0.04	-0.03	-0.09	-0.09	0.49	0.73	1.33	0.28	0.01	-0.08	-0.09	-0.10	
8	-0.05	0.02	-0.11	-0.11	0.22	0.41	0.73	0.25	0.01	-0.08	-0.10	-0.10	
9	-0.05	0.42	-0.10	0.08	0.40	0.51	0.78	0.23	0.01	-0.09	-0.11	-0.11	
10	-0.05	0.38	-0.10	-0.07	0.45	0.37	1.16	0.20	0.00	-0.09	-0.10	-0.11	
11	-0.05	0.56	-0.10	-0.10	0.24	1.61	1.31	0.18	0.00	-0.09	-0.10	-0.11	
12	-0.05	0.12	-0.05	-0.12	0.59	3.69	0.82	0.16	0.00	-0.09	-0.10	-0.12	
13	-0.05	0.09	-0.03	-0.13	0.26	2.56	0.68	0.15	0.00	-0.09	-0.10	-0.12	
14	-0.05	0.08	0.47	-0.07	0.52	1.83	0.60	0.15	-0.01	-0.09	-0.10	-0.13	
15	-0.05	0.13	0.27	0.06	1.22	1.96	0.71	0.15	-0.01	-0.10	-0.11	-0.13	
16	-0.05	0.09	0.03	-0.08	1.33	2.90	1.48	0.13	-0.01	-0.10	-0.11	-0.13	
17	-0.05	0.11	0.12	0.27	0.60	3.69	1.29	0.11	-0.01	-0.10	-0.11	-0.13	
18	-0.05	0.02	0.28	0.06	0.36	2.28	1.91	0.11	-0.01	-0.10	-0.11	-0.14	
19	-0.05	-0.02	0.06	0.51	2.08	1.42	0.97	0.10	-0.01	-0.10	-0.05	-0.14	
20	-0.05	-0.04	-0.04	0.09	0.77	1.00	0.74	0.09	-0.01	-0.10	0.34	-0.17	
21	-0.05	0.27	-0.08	0.85	0.59	1.46	0.80	0.09	-0.01	-0.10	0.05	-0.18	
22	-0.05	0.30	-0.09	0.26	0.88	1.83	0.63	0.08	-0.02	-0.11	0.00	-0.20	
23	-0.05	0.03	-0.10	1.04	0.37	2.81	0.54	0.08	-0.03	-0.11	-0.02	-0.20	
24	-0.05	0.50	-0.10	0.76	0.25	1.78	0.50	0.07	-0.03	-0.12	-0.03	-0.20	
25	-0.05	0.25	-0.10	0.30	0.24	1.38	0.47	0.06	-0.03	-0.12	-0.05	-0.20	
26	-0.05	0.29	-0.10	0.53	1.89	1.66	0.43	0.05	-0.03	-0.12	-0.06	-0.20	
27	-0.05	0.12	-0.10	0.67	0.52	1.33	0.45	0.05	-0.04	-0.13	-0.06	-0.01	
28	-0.05	0.39	-0.10	0.22	0.82	1.67	0.84	0.04	-0.04	-0.13	-0.06	-0.06	
29	-0.05	0.37	-0.10	0.13	0.56	0.99	0.61	0.04	-0.04	-0.13	0.02	-0.10	
30	-0.05	0.10	-0.11	0.10	0.38	0.79	0.55	0.03	-0.04	-0.14		-0.11	
31		0.02		0.19	0.27		0.48		-0.05	-0.14		-0.12	
Mean	-0.04	0.18	0.00	0.16	0.55	1.53	0.88	0.16	-0.01	-0.10	-0.07	-0.12	
Max	0.00	0.56	0.58	1.04	2.08	3.69	1.91	0.39	0.02	-0.05	0.34	-0.01	3.69
Min	-0.05	-0.04	-0.11	-0.14	0.08	0.24	0.43	0.03	-0.05	-0.14	-0.14	-0.20	-0.20

Annual Max Momentary Gage Height 4.06 M (A.D), at 12.00 Hours, on Sep 12, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.18 M (A.D)
Left Bank Elevation 7.92 M (A.D)
Right Bank Elevation 7.90 M (A.D), Drainage Area 335 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.0	1.3	0.9	0.5	1.7	2.2	22.0	2.9	1.1	0.8	0.3	0.7	
2	1.0	1.7	3.9	0.4	1.5	13.7	15.9	2.7	1.1	0.8	0.3	0.6	
3	1.0	2.4	1.6	0.4	1.4	4.2	9.8	2.6	1.1	0.8	0.3	0.6	
4	1.0	2.7	0.9	0.3	1.5	22.0	12.8	2.7	1.1	0.7	0.3	0.6	
5	1.0	1.9	0.7	1.0	2.7	22.0	4.9	2.6	1.1	0.7	0.3	0.5	
6	1.0	1.3	0.7	1.3	1.6	8.9	22.0	2.5	1.1	0.7	0.5	0.5	
7	0.8	0.9	0.6	0.6	3.5	5.8	22.0	2.4	1.1	0.6	0.6	0.5	
8	0.8	1.1	0.5	0.5	2.1	3.1	5.8	2.2	1.1	0.6	0.5	0.5	
9	0.8	3.1	0.5	1.4	3.0	3.5	8.0	2.2	1.1	0.6	0.5	0.5	
10	0.8	2.9	0.5	0.7	3.2	2.8	22.0	2.0	1.0	0.6	0.5	0.5	
11	0.8	3.8	0.5	0.5	2.2	22.0	22.0	1.9	1.0	0.6	0.5	0.5	
12	0.8	1.6	0.8	0.4	3.9	62.6	9.8	1.8	1.0	0.6	0.5	0.4	
13	0.8	1.5	0.9	0.4	2.3	33.2	4.4	1.8	1.0	0.6	0.5	0.4	
14	0.8	1.4	3.4	0.7	3.6	22.0	4.0	1.8	1.0	0.6	0.5	0.4	
15	0.8	1.7	2.4	1.3	22.0	22.0	4.9	1.8	1.0	0.5	0.5	0.4	
16	0.8	1.5	1.1	0.6	22.0	41.0	22.0	1.7	1.0	0.5	0.5	0.4	
17	0.8	1.6	1.6	2.4	4.0	62.6	22.0	1.6	1.0	0.5	0.5	0.4	
18	0.8	1.1	2.4	1.3	2.8	27.6	22.0	1.6	1.0	0.5	0.5	0.3	
19	0.8	0.9	1.3	3.5	23.6	22.0	16.3	1.5	1.0	0.5	0.8	0.3	
20	0.8	0.8	0.8	1.5	7.6	17.6	6.3	1.5	1.0	0.5	2.7	0.2	
21	0.8	2.4	0.6	11.1	3.9	22.0	8.9	1.5	1.0	0.5	1.2	0.1	
22	0.8	2.5	0.6	2.3	12.4	22.0	4.2	1.4	0.9	0.5	1.0	0.0	
23	0.8	1.1	0.5	19.4	2.8	38.7	3.7	1.4	0.9	0.5	0.9	0.0	
24	0.8	3.5	0.5	7.1	2.2	22.0	3.5	1.3	0.9	0.4	0.9	0.0	
25	0.8	2.2	0.5	2.5	2.2	22.0	3.4	1.3	0.9	0.4	0.8	0.0	
26	0.8	2.5	0.5	3.6	22.0	22.0	3.2	1.2	0.9	0.4	0.7	0.0	
27	0.8	1.6	0.5	4.4	3.6	22.0	3.2	1.2	0.8	0.4	0.7	1.0	
28	0.8	2.9	0.5	2.1	9.8	22.0	10.6	1.2	0.8	0.4	0.7	0.7	
29	0.8	2.8	0.5	1.7	3.8	17.2	4.1	1.2	0.8	0.4	1.1	0.5	
30	0.8	1.5	0.5	1.5	2.9	8.4	3.7	1.1	0.8	0.3		0.5	
31		1.1		2.0	2.4		3.4		0.8	0.3		0.4	
Total	25.2	59.3	31.2	77.4	184.2	639.1	330.8	54.6	30.4	16.8	19.6	12.4	1481.0 CMSDAY
Mean	0.8	1.9	1.0	2.5	5.9	21.3	10.7	1.8	1.0	0.5	0.7	0.4	4.0 CMS
Max	1.0	3.8	3.9	19.4	23.6	62.6	22.0	2.9	1.1	0.8	2.7	1.0	62.6 CMS
Min	0.8	0.8	0.5	0.3	1.4	2.2	3.2	1.1	0.8	0.3	0.3	0.0	0.0 CMS
Runoff	2.18	5.12	2.70	6.69	15.91	55.22	28.58	4.72	2.63	1.45	1.69	1.07	127.96 MCM

Momentary Peak 79.60 CMS, at 4.06 M (A.D), at 12.00 Hours, on Sep 12, 1995

Runoff Yield 12.08 Liters/Second/Square KM, Momentary Peak Yield 237.612 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

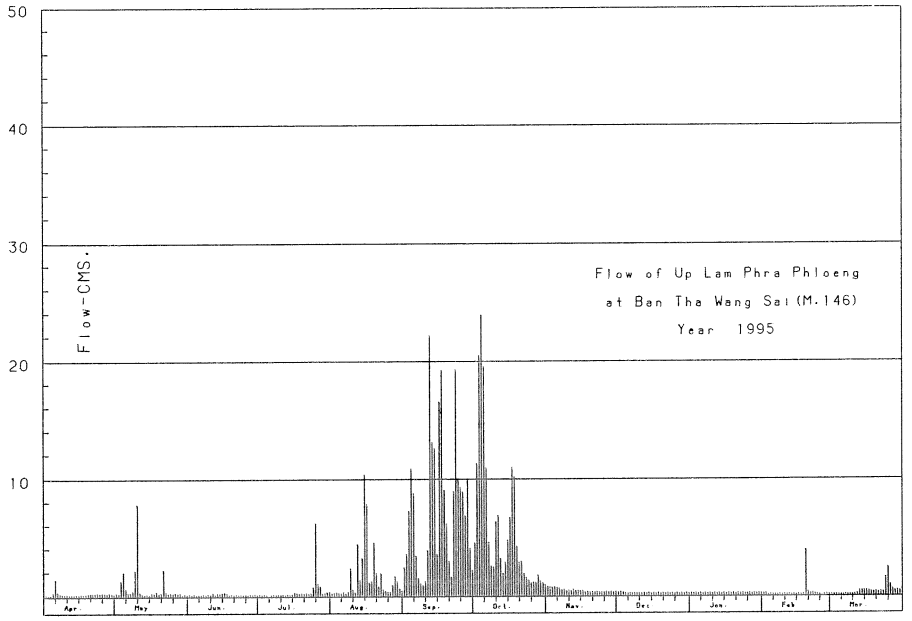
Lam Phra Phloeng at Ban Tha Wang Sai, Nakhon Ratchasima (M.146)

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	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	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	Overbank flow starts at elevation +4.44 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.95	0.76	0.72	1.03	2.31	2.74	1.65	1.14	0.95	0.91	0.81	
2	0.70	0.95	0.75	0.72	0.97	2.57	3.59	1.60	1.12	0.95	0.91	0.78	
3	0.69	1.83	0.74	0.72	1.27	3.15	4.30	1.61	1.10	0.95	0.90	0.86	
4	1.29	2.20	0.72	0.72	0.97	3.55	4.49	1.62	1.09	0.95	0.90	0.87	
5	1.96	1.55	0.74	0.70	0.95	3.33	4.24	1.57	1.08	0.95	0.89	0.85	
6	1.17	1.03	0.72	0.73	1.19	2.54	3.56	1.51	1.08	0.95	0.89	0.82	
7	0.91	0.97	0.71	0.77	1.09	2.00	2.74	1.46	1.07	0.95	0.88	0.83	
8	0.89	1.35	0.74	0.80	1.19	1.75	2.33	1.43	1.07	0.95	0.88	0.83	
9	0.86	2.22	0.74	0.77	2.27	1.70	2.30	1.39	1.06	0.95	0.87	0.82	
10	0.85	3.23	0.88	0.79	1.40	1.83	3.03	1.35	1.05	0.95	0.87	0.81	
11	0.84	1.11	0.98	0.80	1.28	2.62	3.10	1.38	1.05	0.95	0.86	0.86	
12	0.84	0.90	0.90	0.82	2.71	4.40	2.49	1.40	1.04	0.94	0.86	1.05	
13	0.84	0.85	0.93	0.84	1.91	3.76	2.18	1.38	1.04	0.94	0.85	1.32	
14	0.82	0.80	0.95	0.86	2.50	3.71	2.41	1.38	1.03	0.94	0.84	1.37	
15	0.83	0.88	1.00	0.90	3.50	2.57	2.77	1.37	1.03	0.94	0.84	1.34	
16	0.83	0.92	1.13	1.23	3.23	4.04	3.07	1.30	1.02	0.94	0.83	1.35	
17	0.84	0.99	0.97	0.96	1.82	4.22	3.56	1.28	1.02	0.94	0.82	1.31	
18	0.87	1.11	0.82	1.02	1.87	3.37	3.48	1.27	1.01	0.94	0.82	1.28	
19	0.91	0.98	0.89	1.01	2.74	3.00	2.69	1.26	1.01	0.94	2.63	1.28	
20	0.95	1.00	0.85	1.01	2.18	2.42	2.41	1.25	1.00	0.94	1.25	1.27	
21	0.95	2.25	0.82	0.98	1.64	2.07	2.42	1.24	0.99	0.94	1.04	1.25	
22	0.95	1.13	0.79	0.94	2.15	3.36	2.16	1.24	0.99	0.94	0.95	1.25	
23	0.96	0.97	0.75	0.93	1.44	4.22	1.99	1.22	0.99	0.94	0.91	1.27	
24	0.95	0.97	0.75	1.60	1.36	3.45	1.89	1.20	0.97	0.94	0.89	2.02	
25	0.95	0.98	0.75	3.02	1.19	3.39	1.82	1.19	1.00	0.93	0.88	2.30	
26	0.99	1.06	0.74	1.74	1.18	3.35	1.78	1.18	1.02	0.93	0.89	1.72	
27	0.97	1.00	0.74	1.63	1.72	3.10	1.82	1.17	1.01	0.93	0.88	1.41	
28	0.95	1.06	0.74	1.08	2.04	3.45	2.08	1.15	1.00	0.93	0.88	1.39	
29	0.92	0.82	0.73	0.93	1.84	2.65	1.87	1.14	0.98	0.92	0.87	1.32	
30	0.90	0.80	0.73	1.23	1.56	2.22	1.80	1.13	0.97	0.92		1.36	
31		0.77		1.23	1.38		1.72		0.96	0.91		1.41	
Mean	0.94	1.21	0.82	1.04	1.73	3.00	2.67	1.34	1.03	0.94	0.95	1.21	
Max	1.96	3.23	1.13	3.02	3.50	4.40	4.49	1.65	1.14	0.95	2.63	2.30	4.49
Min	0.69	0.77	0.71	0.70	0.95	1.70	1.72	1.13	0.96	0.91	0.82	0.78	0.69

Annual Max Momentary Gage Height 4.60 M (A.D), at 6.00 Hours, on Sep 12, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.30 M (A.D)
Left Bank Elevation 4.43 M (A.D)
Right Bank Elevation 4.43 M (A.D), Drainage Area 82 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.2	0.3	0.2	0.2	0.3	2.5	4.6	0.9	0.4	0.3	0.3	0.2	
2	0.1	0.3	0.2	0.2	0.3	3.6	11.3	0.8	0.4	0.3	0.3	0.2	
3	0.1	1.3	0.2	0.2	0.4	7.3	20.5	0.8	0.4	0.3	0.2	0.2	
4	0.4	2.1	0.2	0.2	0.3	10.9	24.0	0.8	0.3	0.3	0.2	0.2	
5	1.5	0.7	0.2	0.1	0.3	8.8	19.6	0.8	0.3	0.3	0.2	0.2	
6	0.4	0.3	0.2	0.2	0.4	3.5	11.0	0.7	0.3	0.3	0.2	0.2	
7	0.3	0.3	0.2	0.2	0.3	1.6	4.6	0.6	0.3	0.3	0.2	0.2	
8	0.2	0.5	0.2	0.2	0.4	1.1	2.6	0.6	0.3	0.3	0.2	0.2	
9	0.2	2.2	0.2	0.2	2.4	1.0	2.5	0.5	0.3	0.3	0.2	0.2	
10	0.2	7.9	0.2	0.2	0.6	1.3	6.4	0.5	0.3	0.3	0.2	0.2	
11	0.2	0.4	0.3	0.2	0.4	3.9	6.9	0.5	0.3	0.3	0.2	0.2	
12	0.2	0.2	0.2	0.2	4.5	22.2	3.3	0.6	0.3	0.3	0.2	0.3	
13	0.2	0.2	0.3	0.2	1.4	13.2	2.0	0.5	0.3	0.3	0.2	0.5	
14	0.2	0.2	0.3	0.2	3.3	12.6	2.9	0.5	0.3	0.3	0.2	0.5	
15	0.2	0.2	0.3	0.2	10.4	3.6	4.8	0.5	0.3	0.3	0.2	0.5	
16	0.2	0.3	0.4	0.4	7.9	16.6	6.7	0.5	0.3	0.3	0.2	0.5	
17	0.2	0.3	0.3	0.3	1.2	19.3	11.0	0.4	0.3	0.3	0.2	0.5	
18	0.2	0.4	0.2	0.3	1.3	9.1	10.2	0.4	0.3	0.3	0.2	0.4	
19	0.3	0.3	0.2	0.3	4.6	6.2	4.3	0.4	0.3	0.3	4.0	0.4	
20	0.3	0.3	0.2	0.3	2.0	3.0	2.9	0.4	0.3	0.3	0.4	0.4	
21	0.3	2.3	0.2	0.3	0.9	1.7	3.0	0.4	0.3	0.3	0.3	0.4	
22	0.3	0.4	0.2	0.3	2.0	9.0	2.0	0.4	0.3	0.3	0.3	0.4	
23	0.3	0.3	0.2	0.3	0.6	19.3	1.6	0.4	0.3	0.3	0.3	0.4	
24	0.3	0.3	0.2	0.8	0.5	9.9	1.4	0.4	0.3	0.3	0.2	1.6	
25	0.3	0.3	0.2	6.3	0.4	9.3	1.2	0.4	0.3	0.3	0.2	2.5	
26	0.3	0.3	0.2	1.1	0.4	8.9	1.2	0.4	0.3	0.3	0.2	1.0	
27	0.3	0.3	0.2	0.9	1.0	6.9	1.2	0.4	0.3	0.3	0.2	0.6	
28	0.3	0.3	0.2	0.3	1.7	9.9	1.8	0.4	0.3	0.3	0.2	0.5	
29	0.3	0.2	0.2	0.3	1.3	4.1	1.3	0.4	0.3	0.3	0.2	0.5	
30	0.2	0.2	0.2	0.4	0.7	2.2	1.2	0.4	0.3	0.3		0.5	
31		0.2		0.4	0.5		1.0		0.3	0.3		0.6	
Total	8.7	23.8	6.7	15.9	52.7	232.5	179.0	15.7	9.6	9.3	10.3	15.2	579.4 CMSDAY
Mean	0.3	0.8	0.2	0.5	1.7	7.7	5.8	0.5	0.3	0.3	0.4	0.5	1.6 CMS
Max	1.5	7.9	0.4	6.3	10.4	22.2	24.0	0.9	0.4	0.3	4.0	2.5	24.0 CMS
Min	0.1	0.2	0.2	0.1	0.3	1.0	1.0	0.4	0.3	0.3	0.2	0.2	0.1 CMS
Runoff	0.75	2.06	0.58	1.37	4.55	20.09	15.47	1.36	0.83	0.80	0.89	1.31	50.06 MCM

Momentary Peak 26.30 CMS, at 4.60 M (A.D), at 6.00 Hours, on Sep 12, 1995

Runoff Yield 19.31 Liters/Second/Square KM, Momentary Peak Yield 320.732 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

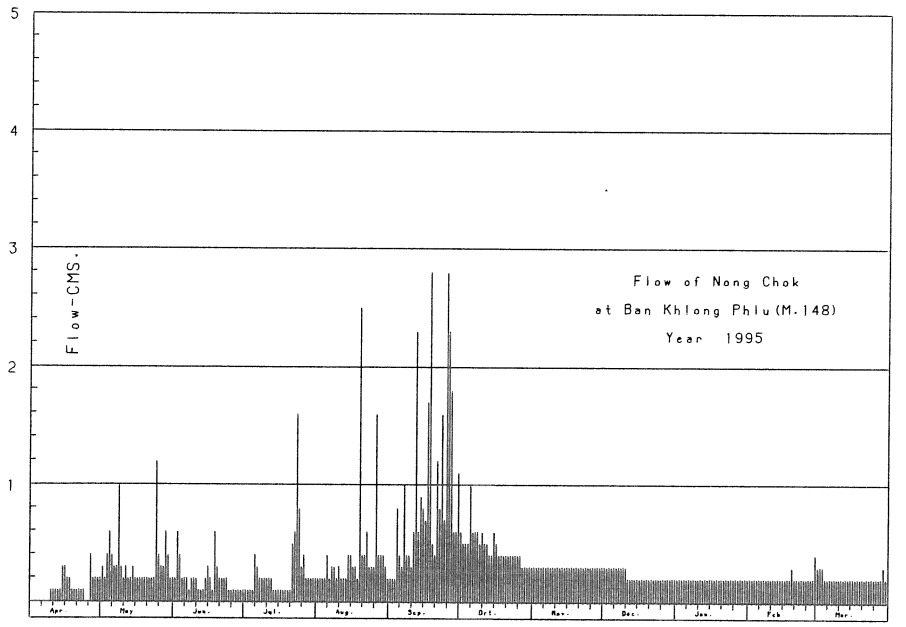
Huai Chok at Ban Khlong Phlu, Nakhon Ratchasima (M.148)

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	3-times 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	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. Stage-discharge relation defined by 8 discharge measurements made during 1994-1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.84	0.67	0.62	0.68	0.72	1.12	0.82	0.77	0.74	0.68	0.78	
2	0.00	0.73	1.10	0.62	0.67	0.69	1.01	0.82	0.77	0.74	0.68	0.76	
3	0.00	0.93	0.85	0.61	0.66	0.70	0.99	0.82	0.77	0.74	0.68	0.76	
4	0.00	1.12	0.72	0.65	0.66	1.25	0.96	0.83	0.76	0.74	0.69	0.75	
5	0.00	0.87	0.68	0.87	0.95	0.85	1.34	0.83	0.76	0.74	0.69	0.74	
6	0.00	0.77	0.67	0.80	0.71	0.76	1.13	0.82	0.76	0.74	0.69	0.73	
7	0.00	0.76	0.65	0.69	0.79	1.37	1.12	0.82	0.76	0.74	0.69	0.72	
8	0.54	1.35	0.67	0.67	0.77	0.90	1.11	0.81	0.76	0.74	0.69	0.71	
9	0.55	0.82	0.66	0.67	0.75	0.87	0.99	0.81	0.76	0.74	0.68	0.70	
10	0.56	0.74	0.66	0.68	0.76	0.80	1.09	0.82	0.76	0.74	0.68	0.70	
11	0.57	0.79	0.65	0.67	0.70	1.06	1.00	0.83	0.75	0.74	0.67	0.70	
12	0.59	0.75	0.65	0.66	0.69	2.00	0.97	0.83	0.75	0.74	0.67	0.70	
13	0.58	0.73	0.65	0.65	0.69	1.10	0.95	0.83	0.75	0.74	0.67	0.70	
14	0.80	0.77	0.73	0.64	0.87	1.32	0.93	0.84	0.75	0.74	0.67	0.70	
15	0.78	0.73	0.76	0.64	0.93	1.24	1.11	0.83	0.75	0.73	0.67	0.70	
16	0.74	0.71	0.66	0.64	0.80	1.20	1.04	0.82	0.75	0.73	0.67	0.69	
17	0.69	0.70	0.65	0.63	0.79	1.70	0.95	0.82	0.75	0.74	0.67	0.69	
18	0.64	0.70	1.07	0.64	0.72	2.20	0.93	0.81	0.75	0.74	0.73	0.69	
19	0.60	0.69	0.79	0.64	2.10	1.03	0.92	0.81	0.75	0.74	0.79	0.69	
20	0.58	0.68	0.68	0.63	0.86	0.86	0.90	0.80	0.75	0.74	0.75	0.68	
21	0.57	0.68	0.67	1.03	0.91	1.47	0.89	0.80	0.75	0.73	0.74	0.68	
22	0.57	0.68	0.66	1.13	1.08	1.27	0.89	0.81	0.75	0.73	0.73	0.68	
23	0.57	0.69	0.66	1.66	0.80	1.65	0.88	0.80	0.74	0.73	0.72	0.67	
24	0.54	1.45	0.65	1.24	0.78	1.20	0.87	0.79	0.74	0.73	0.72	0.66	
25	0.54	0.86	0.64	0.79	0.78	2.21	0.86	0.79	0.74	0.72	0.72	0.66	
26	0.88	0.78	0.64	0.85	1.66	2.02	0.85	0.79	0.74	0.72	0.72	0.66	
27	0.74	0.77	0.64	0.73	0.89	1.73	0.84	0.78	0.74	0.71	0.72	0.66	
28	0.75	1.08	0.63	0.71	0.95	1.11	0.84	0.78	0.73	0.70	0.72	0.75	
29	0.71	0.94	0.63	0.70	0.85	1.10	0.83	0.78	0.73	0.70	0.93	0.76	
30	0.68	0.73	0.62	0.69	0.76	1.39	0.83	0.77	0.73	0.69		0.72	
31		0.68		0.68	0.73		0.82		0.73	0.69		0.71	
Mean	0.49	0.82	0.70	0.76	0.86	1.26	0.97	0.81	0.75	0.73	0.71	0.71	
Max	0.88	1.45	1.10	1.66	2.10	2.21	1.34	0.84	0.77	0.74	0.93	0.78	2.21
Min	0.00	0.68	0.62	0.61	0.66	0.69	0.82	0.77	0.73	0.69	0.67	0.66	0.00

Annual Max Momentary Gage Height 4.72 M (A.D), at 15.00 Hours, on Aug 19, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.05 M (A.D)
Left Bank Elevation 5.99 M (A.D)
Right Bank Elevation 6.10 M (A.D), Drainage Area 48 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.3	0.2	0.1	0.2	0.2	0.6	0.3	0.3	0.2	0.2	0.3	
2	0.0	0.2	0.6	0.1	0.2	0.2	0.5	0.3	0.3	0.2	0.2	0.3	
3	0.0	0.4	0.4	0.1	0.2	0.2	0.5	0.3	0.3	0.2	0.2	0.3	
4	0.0	0.6	0.2	0.1	0.2	0.8	0.5	0.3	0.3	0.2	0.2	0.2	
5	0.0	0.4	0.2	0.4	0.4	0.4	1.0	0.3	0.3	0.2	0.2	0.2	
6	0.0	0.3	0.2	0.3	0.2	0.3	0.6	0.3	0.3	0.2	0.2	0.2	
7	0.0	0.3	0.1	0.2	0.3	1.0	0.6	0.3	0.3	0.2	0.2	0.2	
8	0.0	1.0	0.2	0.2	0.3	0.4	0.6	0.3	0.3	0.2	0.2	0.2	
9	0.1	0.3	0.2	0.2	0.2	0.4	0.5	0.3	0.3	0.2	0.2	0.2	
10	0.1	0.2	0.2	0.2	0.3	0.3	0.6	0.3	0.3	0.2	0.2	0.2	
11	0.1	0.3	0.1	0.2	0.2	0.6	0.5	0.3	0.2	0.2	0.2	0.2	
12	0.1	0.2	0.1	0.2	0.2	2.3	0.5	0.3	0.2	0.2	0.2	0.2	
13	0.1	0.2	0.1	0.1	0.2	0.6	0.4	0.3	0.2	0.2	0.2	0.2	
14	0.3	0.3	0.2	0.1	0.4	0.9	0.4	0.3	0.2	0.2	0.2	0.2	
15	0.3	0.2	0.3	0.1	0.4	0.8	0.6	0.3	0.2	0.2	0.2	0.2	
16	0.2	0.2	0.2	0.1	0.3	0.7	0.5	0.3	0.2	0.2	0.2	0.2	
17	0.2	0.2	0.1	0.1	0.3	1.7	0.4	0.3	0.2	0.2	0.2	0.2	
18	0.1	0.2	0.6	0.1	0.2	2.8	0.4	0.3	0.2	0.2	0.2	0.2	
19	0.1	0.2	0.3	0.1	2.5	0.5	0.4	0.3	0.2	0.2	0.3	0.2	
20	0.1	0.2	0.2	0.1	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	
21	0.1	0.2	0.2	0.5	0.4	1.2	0.4	0.3	0.2	0.2	0.2	0.2	
22	0.1	0.2	0.2	0.6	0.6	0.8	0.4	0.3	0.2	0.2	0.2	0.2	
23	0.1	0.2	0.2	1.6	0.3	1.6	0.4	0.3	0.2	0.2	0.2	0.2	
24	0.0	1.2	0.1	0.8	0.3	0.7	0.4	0.3	0.2	0.2	0.2	0.2	
25	0.0	0.4	0.1	0.3	0.3	2.8	0.4	0.3	0.2	0.2	0.2	0.2	
26	0.4	0.3	0.1	0.4	1.6	2.3	0.4	0.3	0.2	0.2	0.2	0.2	
27	0.2	0.3	0.1	0.2	0.4	1.8	0.3	0.3	0.2	0.2	0.2	0.2	
28	0.2	0.6	0.1	0.2	0.4	0.6	0.3	0.3	0.2	0.2	0.2	0.2	
29	0.2	0.4	0.1	0.2	0.4	0.6	0.3	0.3	0.2	0.2	0.4	0.3	
30	0.2	0.2	0.1	0.2	0.3	1.1	0.3	0.3	0.2	0.2		0.2	
31		0.2		0.2	0.2		0.3		0.2	0.2		0.2	
Total	3.3	10.4	6.0	8.3	12.8	29.0	14.4	9.0	7.2	6.2	6.1	6.6	119.3 CMSDAY
Mean	0.1	0.3	0.2	0.3	0.4	1.0	0.5	0.3	0.2	0.2	0.2	0.2	0.3 CMS
Max	0.4	1.2	0.6	1.6	2.5	2.8	1.0	0.3	0.3	0.2	0.4	0.3	2.8 CMS
Min	0.0	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.0 CMS
Runoff	0.29	0.90	0.52	0.72	1.11	2.51	1.24	0.78	0.62	0.54	0.53	0.57	10.31 MCM

Momentary Peak 12.40 CMS, at 4.72 M (A.D), at 15.00 Hours, on Aug 19, 1995

Runoff Yield 6.79 Liters/Second/Square KM, Momentary Peak Yield 258.333 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

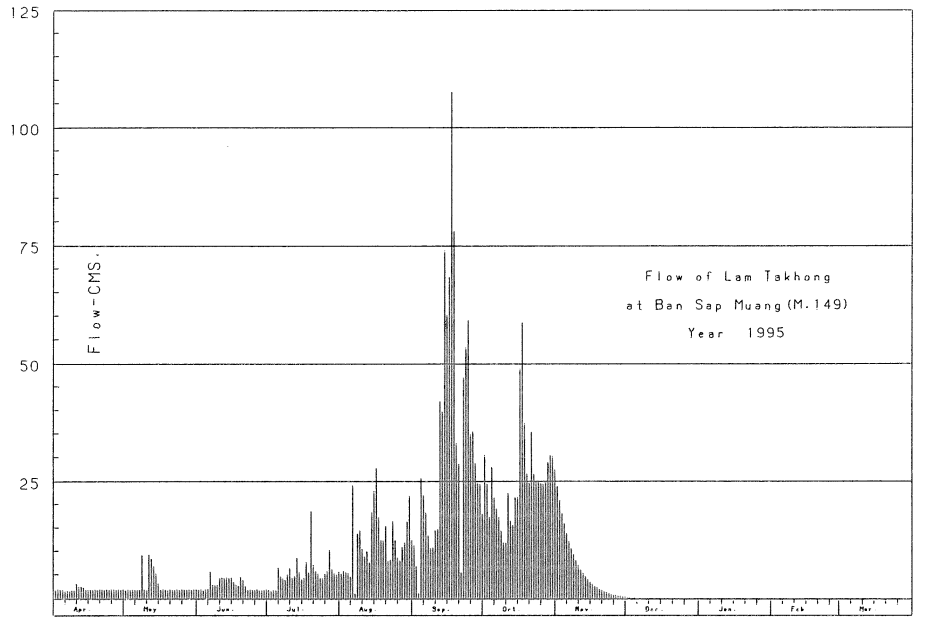
Lam Takhong at Ban Sap Muang, Nakhon Ratchasima (M.149)

Location	Lat. 14-45-28 N., Long. 101-27-38 E., on right bank at the bridge on road, Ban Sap Muang, Amphoe Pak Chong, Nakhon Ratchasima.
Drainage Area	763 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	+7.507 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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the weir during Nov.1,95-Mar.31,96, discharge estimated by recession equqtion. Stage-discharge relation defined by 15 discharge measurements made during 1994-1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.39	1.38	1.40	1.38	1.66	1.97	2.83	2.70	2.68	2.48	1.80	1.60	
2	1.40	1.40	1.40	1.36	1.69	1.75	2.58	2.70	2.68	2.45	1.80	1.57	
3	1.40	1.40	1.39	1.38	1.68	1.27	2.27	2.70	2.68	2.45	1.70	1.55	
4	1.39	1.40	1.40	1.38	1.67	2.63	2.73	2.68	2.68	2.45	1.70	1.50	
5	1.35	1.40	1.42	1.73	1.62	2.49	2.47	2.70	2.68	2.45	1.70	1.50	
6	1.36	1.38	1.69	1.63	2.57	2.32	2.37	2.70	2.68	2.40	1.70	1.50	
7	1.36	1.40	1.50	1.59	1.27	2.08	2.27	2.70	2.67	2.40	1.70	1.50	
8	1.37	1.87	1.50	1.57	2.10	1.94	2.13	2.68	2.67	2.40	1.70	1.50	
9	1.38	1.40	1.50	1.65	2.13	1.95	2.00	2.70	2.67	2.38	1.68	1.50	
10	1.52	1.39	1.60	1.73	1.93	2.13	2.00	2.70	2.67	2.38	1.65	1.50	
11	1.46	1.87	1.60	1.59	1.85	2.15	2.50	2.70	2.60	2.30	1.65	1.48	
12	1.47	1.83	1.60	1.63	1.91	3.27	2.23	2.70	2.59	2.28	1.65	1.48	
13	1.44	1.75	1.60	1.84	1.79	3.20	2.19	2.70	2.59	2.28	1.65	1.48	
14	1.40	1.66	1.60	1.68	2.33	4.33	2.47	2.70	2.58	2.28	1.60	1.48	
15	1.39	1.52	1.60	1.58	2.52	3.88	2.47	2.70	2.58	2.28	1.60	1.48	
16	1.39	1.40	1.55	1.60	2.72	4.15	3.50	2.70	2.58	2.28	1.60	1.48	
17	1.40	1.40	1.50	1.79	2.27	5.29	3.83	2.70	2.58	2.28	1.60	1.48	
18	1.40	1.40	1.49	1.68	2.03	4.45	3.10	2.70	2.58	2.28	1.60	1.48	
19	1.40	1.37	1.61	2.34	2.02	2.93	2.67	2.68	2.58	2.28	1.60	1.48	
20	1.40	1.40	1.57	1.76	2.18	2.75	2.59	2.68	2.58	2.28	1.60	1.48	
21	1.40	1.40	1.47	1.70	1.80	1.68	3.03	2.68	2.58	2.28	1.60	1.48	
22	1.40	1.40	1.40	1.66	1.82	3.44	2.67	2.68	2.58	2.28	1.60	1.48	
23	1.40	1.40	1.40	1.60	2.23	3.65	2.60	2.68	2.50	2.25	1.55	1.48	
24	1.40	1.40	1.40	1.59	2.03	3.85	2.60	2.68	2.50	2.20	1.55	1.48	
25	1.40	1.40	1.40	1.66	1.84	3.00	2.59	2.68	2.50	2.10	1.53	1.48	
26	1.40	1.40	1.40	1.69	1.81	3.03	2.58	2.68	2.50	2.10	1.55	1.48	
27	1.40	1.40	1.39	1.92	1.95	2.76	2.60	2.68	2.48	2.10	1.55	1.48	
28	1.40	1.40	1.37	1.72	2.00	2.59	2.77	2.68	2.48	2.10	1.77	1.48	
29	1.40	1.40	1.40	1.66	2.23	2.58	2.83	2.68	2.48	2.00	1.80	1.48	
30	1.40	1.40	1.40	1.65	2.48	2.31	2.82	2.68	2.48	1.80		1.48	
31		1.40		1.68	2.03		2.70		2.48	1.70		1.48	
Mean	1.40	1.47	1.49	1.66	2.01	2.86	2.61	2.69	2.59	2.26	1.65	1.49	
Max	1.52	1.87	1.69	2.34	2.72	5.29	3.83	2.70	2.68	2.48	1.80	1.60	5.29
Min	1.35	1.37	1.37	1.36	1.27	1.27	2.00	2.68	2.48	1.70	1.53	1.48	1.27

Annual Max Momentary Gage Height 5.50 M (A.D), at 18.00 Hours, on Sep 17, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.24 M (A.D)
Left Bank Elevation 7.37 M (A.D)
Right Bank Elevation 6.68 M (A.D), Drainage Area 763 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.9	1.9	2.0	1.9	5.4	11.4	30.7	24.1	0.4	0.0	0.0	0.0	
2	2.0	2.0	2.0	1.7	5.9	7.0	24.5	21.0	0.4	0.0	0.0	0.0	
3	2.0	2.0	1.9	1.9	5.7	1.2	17.4	18.4	0.3	0.0	0.0	0.0	
4	1.9	2.0	2.0	1.9	5.5	25.8	28.2	16.1	0.3	0.0	0.0	0.0	
5	1.7	2.0	2.2	6.6	4.8	22.2	21.7	14.1	0.3	0.0	0.0	0.0	
6	1.7	1.9	5.9	4.9	24.2	18.4	19.4	12.3	0.2	0.0	0.0	0.0	
7	1.7	2.0	3.0	4.4	1.2	13.6	17.4	10.8	0.2	0.0	0.0	0.0	
8	1.8	9.4	3.0	4.1	14.0	10.8	14.6	9.5	0.2	0.0	0.0	0.0	
9	1.9	2.0	3.0	5.2	14.6	11.0	12.0	8.3	0.2	0.0	0.0	0.0	
10	3.3	1.9	4.5	6.6	10.6	14.6	12.0	7.2	0.1	0.0	0.0	0.0	
11	2.6	9.4	4.5	4.4	9.0	15.0	22.5	6.3	0.1	0.0	0.0	0.0	
12	2.7	8.6	4.5	4.9	10.2	42.1	16.6	5.5	0.1	0.0	0.0	0.0	
13	2.4	7.0	4.5	8.8	7.8	40.0	15.8	4.9	0.1	0.0	0.0	0.0	
14	2.0	5.4	4.5	5.7	18.6	74.0	21.7	4.2	0.1	0.0	0.0	0.0	
15	1.9	3.3	4.5	4.2	23.0	60.4	21.7	3.7	0.1	0.0	0.0	0.0	
16	1.9	2.0	3.7	4.5	28.0	68.5	49.0	3.2	0.1	0.0	0.0	0.0	
17	2.0	2.0	3.0	7.8	17.4	107.7	58.9	2.8	0.1	0.0	0.0	0.0	
18	2.0	2.0	2.9	5.7	12.6	78.2	37.5	2.5	0.1	0.0	0.0	0.0	
19	2.0	1.8	4.6	18.8	12.4	33.2	26.7	2.2	0.0	0.0	0.0	0.0	
20	2.0	2.0	4.1	7.2	15.6	28.7	24.7	1.9	0.0	0.0	0.0	0.0	
21	2.0	2.0	2.7	6.0	8.0	5.7	35.7	1.7	0.0	0.0	0.0	0.0	
22	2.0	2.0	2.0	5.4	8.4	47.2	26.7	1.5	0.0	0.0	0.0	0.0	
23	2.0	2.0	2.0	4.5	16.6	53.5	25.0	1.3	0.0	0.0	0.0	0.0	
24	2.0	2.0	2.0	4.4	12.6	59.5	25.0	1.1	0.0	0.0	0.0	0.0	
25	2.0	2.0	2.0	5.4	8.8	35.0	24.7	1.0	0.0	0.0	0.0	0.0	
26	2.0	2.0	2.0	5.9	8.2	35.7	24.5	0.9	0.0	0.0	0.0	0.0	
27	2.0	2.0	1.9	10.4	11.0	29.0	25.0	0.8	0.0	0.0	0.0	0.0	
28	2.0	2.0	1.8	6.4	12.0	24.7	29.2	0.7	0.0	0.0	0.0	0.0	
29	2.0	2.0	2.0	5.4	16.6	24.5	30.7	0.6	0.0	0.0	0.0	0.0	
30	2.0	2.0	2.0	5.2	22.0	18.2	30.5	0.5	0.0	0.0		0.0	
31		2.0		5.7	12.6		27.5		0.0	0.0		0.0	
Total	61.4	92.6	90.7	175.9	383.3	1016.8	797.5	189.1	3.4	0.0	0.0	0.0	2810.7 CMSDAY
Mean	2.0	3.0	3.0	5.7	12.4	33.9	25.7	6.3	0.1	0.0	0.0	0.0	7.7 CMS
Max	3.3	9.4	5.9	18.8	28.0	107.7	58.9	24.1	0.4	0.0	0.0	0.0	107.7 CMS
Min	1.7	1.8	1.8	1.7	1.2	1.2	12.0	0.5	0.0	0.0	0.0	0.0	0.0 CMS
Runoff	5.30	8.00	7.84	15.20	33.12	87.85	68.90	16.34	0.29	0.00	0.00	0.00	242.84 MCM

Momentary Peak 115.00 CMS, at 5.50 M (A.D), at 18.00 Hours, on Sep 17, 1995

Runoff Yield 10.06 Liters/Second/Square KM, Momentary Peak Yield 150.721 Liters/Second/Square KM

WATER YEAR 1995

MUN RIVER BASIN

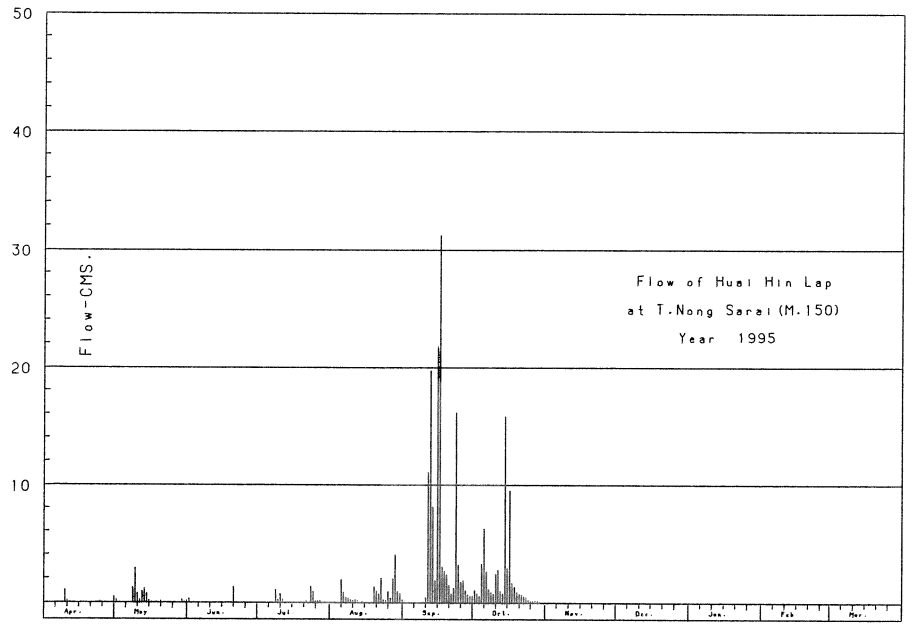
Huai Hin Lap at Ban Kaeng Hip, Nakhon Ratchasima (M.150)

Location	Lat. 14-45-30 N., Long. 101-31-18 E., on right bank at the bridge on Pak Chong - Nakhon Ratchasima highway between guidepost 184-185, Amphoe Pak Chong, Nakhon Ratchasima.
Drainage Area	175 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	+7.064 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 with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the weir during Oct.27,95-Mar.31,96, discharge estimated by recession equation. Stage-discharge relation defined by 6 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.31	0.32	0.02	0.12	0.24	0.52	0.36	0.33	0.28	0.15	0.30	
2	0.11	0.10	0.19	0.05	0.10	0.19	0.44	0.35	0.33	0.28	0.18	0.28	
3	0.11	0.10	0.16	0.05	0.09	0.22	0.40	0.37	0.33	0.28	0.21	0.27	
4	0.10	0.09	0.13	0.08	0.06	0.19	0.80	0.38	0.33	0.28	0.24	0.26	
5	0.09	0.12	0.10	0.06	0.66	0.18	0.95	0.39	0.33	0.22	0.21	0.18	
6	0.11	0.10	0.11	0.09	0.48	0.16	0.74	0.38	0.32	0.24	0.26	0.23	
7	0.09	0.10	0.10	0.08	0.36	0.11	0.54	0.38	0.30	0.27	0.30	0.26	
8	0.17	0.57	0.10	0.52	0.34	0.17	0.47	0.38	0.30	0.26	0.33	0.30	
9	0.52	0.77	0.14	0.30	0.29	0.21	0.44	0.38	0.30	0.25	0.31	0.27	
10	0.25	0.45	0.11	0.45	0.23	0.37	0.72	0.38	0.30	0.28	0.28	0.25	
11	0.19	0.29	0.10	0.31	0.31	1.13	0.75	0.40	0.30	0.25	0.16	0.16	
12	0.12	0.49	0.17	0.19	0.25	1.37	0.50	0.38	0.30	0.27	0.15	0.23	
13	0.10	0.55	0.10	0.13	0.21	1.03	0.44	0.40	0.29	0.27	0.17	0.23	
14	0.10	0.45	0.11	0.09	0.20	0.65	1.27	0.41	0.28	0.30	0.20	0.15	
15	0.09	0.25	0.10	0.08	0.13	1.42	0.77	0.39	0.28	0.27	0.25	0.15	
16	0.09	0.21	0.10	0.08	0.13	1.65	1.08	0.39	0.28	0.28	0.26	0.20	
17	0.09	0.15	0.10	0.09	0.13	0.78	0.63	0.39	0.30	0.26	0.30	0.25	
18	0.09	0.15	0.09	0.09	0.13	0.74	0.58	0.38	0.30	0.22	0.30	0.25	
19	0.09	0.15	0.10	0.07	0.59	0.71	0.48	0.38	0.29	0.25	0.27	0.14	
20	0.10	0.23	0.59	0.09	0.50	0.60	0.46	0.35	0.29	0.25	0.31	0.18	
21	0.09	0.14	0.26	0.23	0.46	0.45	0.42	0.35	0.26	0.30	0.21	0.23	
22	0.09	0.15	0.14	0.09	0.68	0.57	0.40	0.35	0.26	0.24	0.23	0.29	
23	0.12	0.17	0.09	0.58	0.31	1.28	0.35	0.35	0.28	0.25	0.26	0.16	
24	0.23	0.14	0.08	0.49	0.24	0.80	0.30	0.34	0.27	0.25	0.24	0.18	
25	0.17	0.10	0.09	0.24	0.50	0.64	0.27	0.34	0.25	0.21	0.28	0.20	
26	0.13	0.10	0.08	0.23	0.33	0.65	0.23	0.33	0.25	0.20	0.22	0.25	
27	0.11	0.10	0.05	0.23	0.68	0.53	0.25	0.33	0.25	0.22	0.24	0.25	
28	0.12	0.10	0.03	0.20	0.84	0.42	0.35	0.33	0.28	0.25	0.24	0.26	
29	0.12	0.28	0.03	0.19	0.50	0.40	0.40	0.33	0.28	0.25	0.27	0.20	
30	0.37	0.20	0.02	0.17	0.44	0.39	0.40	0.33	0.27	0.25		0.15	
31		0.23		0.18	0.30		0.38		0.28	0.25		0.18	
Mean	0.14	0.24	0.13	0.19	0.34	0.61	0.54	0.37	0.29	0.26	0.24	0.22	
Max	0.52	0.77	0.59	0.58	0.84	1.65	1.27	0.41	0.33	0.30	0.33	0.30	1.65
Min	0.09	0.09	0.02	0.02	0.06	0.11	0.23	0.33	0.25	0.20	0.15	0.14	0.02

Annual Max Momentary Gage Height 1.90 M (A.D), at 9.00 Hours, on Sep 16, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.00 M (A.D)
Left Bank Elevation 3.69 M (A.D)
Right Bank Elevation 5.17 M (A.D), Drainage Area 175 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.1	0.3	0.4	0.0	0.0	0.2	1.1	0.1	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.1	0.0	0.0	0.1	0.8	0.1	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.1	0.0	0.0	0.1	0.6	0.1	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.1	3.3	0.1	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	2.0	0.1	6.3	0.1	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.9	0.1	2.7	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.5	0.0	1.2	0.0	0.0	0.0	0.0	0.0	
8	0.1	1.3	0.0	1.1	0.4	0.1	0.9	0.0	0.0	0.0	0.0	0.0	
9	1.1	3.0	0.0	0.3	0.3	0.1	0.8	0.0	0.0	0.0	0.0	0.0	
10	0.2	0.8	0.0	0.8	0.2	0.5	2.5	0.0	0.0	0.0	0.0	0.0	
11	0.1	0.3	0.0	0.3	0.3	11.1	2.8	0.0	0.0	0.0	0.0	0.0	
12	0.0	1.0	0.1	0.1	0.2	19.8	1.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	1.2	0.0	0.0	0.1	8.2	0.8	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.8	0.0	0.0	0.1	1.9	15.9	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.2	0.0	0.0	0.0	21.8	3.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.1	0.0	0.0	0.0	31.3	9.6	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.1	0.0	0.0	0.0	3.1	1.7	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.1	0.0	0.0	0.0	2.7	1.4	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.1	0.0	0.0	1.4	2.4	0.9	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.2	1.4	0.0	1.0	1.5	0.8	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.2	0.2	0.8	0.8	0.7	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.1	0.0	0.0	2.1	1.3	0.6	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.1	0.0	1.4	0.3	16.2	0.5	0.0	0.0	0.0	0.0	0.0	
24	0.2	0.0	0.0	1.0	0.2	3.3	0.3	0.0	0.0	0.0	0.0	0.0	
25	0.1	0.0	0.0	0.2	1.0	1.8	0.2	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.2	0.4	1.9	0.2	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.2	2.1	1.1	0.2	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.1	4.1	0.7	0.2	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.3	0.0	0.1	1.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	
30	0.5	0.1	0.0	0.1	0.8	0.6	0.1	0.0	0.0	0.0		0.0	
31		0.2		0.1	0.3		0.1		0.0	0.0		0.0	
Total	2.4	10.3	2.3	6.2	20.5	133.5	61.3	0.5	0.0	0.0	0.0	0.0	237.0 CMSDAY
Mean	0.1	0.3	0.1	0.2	0.7	4.5	2.0	0.0	0.0	0.0	0.0	0.0	0.6 CMS
Max	1.1	3.0	1.4	1.4	4.1	31.3	15.9	0.1	0.0	0.0	0.0	0.0	31.3 CMS
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0 CMS
Runoff	0.21	0.89	0.20	0.54	1.77	11.53	5.30	0.04	0.00	0.00	0.00	0.00	20.48 MCM

Momentary Peak 44.00 CMS, at 1.90 M (A.D), at 9.00 Hours, on Sep 16, 1995

Runoff Yield 3.70 Liters/Second/Square KM, Momentary Peak Yield 251.429 Liters/Second/Square KM

WATER YEAR 1995

TONLE SAP BASIN

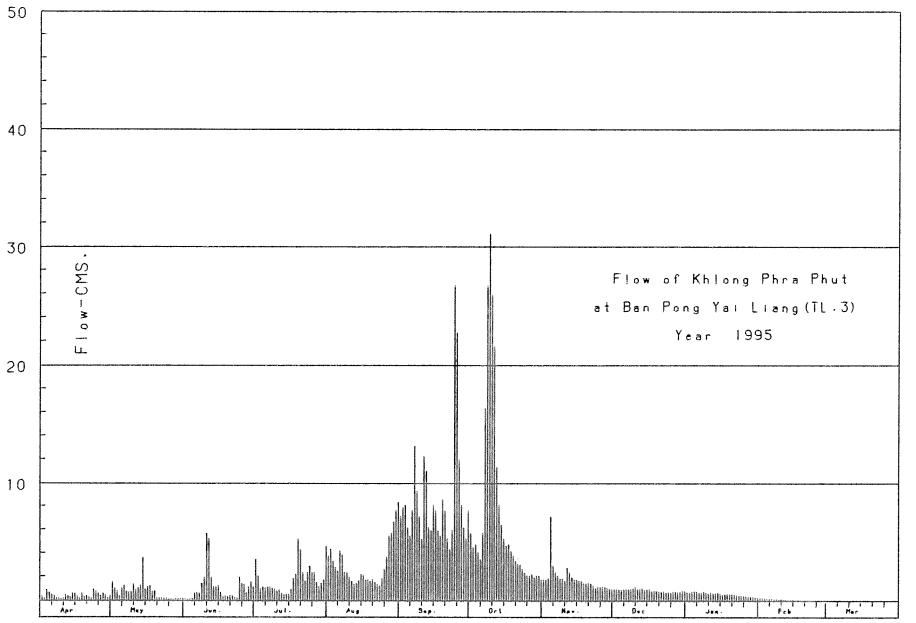
Khlong Phra Phut at Ban Pong Yai Liang, Chanthaburi (TL.3)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir during Jan.21-Mar.31,96, discharge estimated by recession equation. Stage-discharge relation defined by 32 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.01	191.16	190.97	191.31	191.33	191.50	191.44	191.18	191.10	191.06	191.11	191.11	
2	190.98	191.11	190.95	191.21	191.37	191.53	191.38	191.18	191.10	191.06	191.11	191.11	
3	191.09	191.08	190.96	191.10	191.30	191.54	191.40	191.19	191.10	191.07	191.09	191.04	
4	191.06	191.02	190.98	191.12	191.26	191.46	191.35	191.50	191.09	191.08	191.12	191.09	
5	191.04	191.11	191.05	191.11	191.24	191.43	191.31	191.27	191.10	191.07	191.10	191.05	
6	191.02	191.13	191.06	191.12	191.36	191.52	191.44	191.23	191.10	191.06	191.11	191.06	
7	190.99	191.07	191.05	191.12	191.34	191.72	191.82	191.21	191.10	191.06	191.10	191.05	
8	190.98	191.06	191.15	191.11	191.23	191.59	192.08	191.19	191.10	191.07	191.09	191.07	
9	190.97	191.07	191.20	191.10	191.23	191.50	192.18	191.19	191.11	191.06	191.06	191.06	
10	190.98	191.14	191.44	191.08	191.20	191.42	192.06	191.17	191.12	191.05	191.07	191.07	
11	191.03	191.09	191.42	191.09	191.17	191.69	191.95	191.26	191.10	191.06	191.06	191.08	
12	191.02	191.11	191.20	191.05	191.14	191.65	191.66	191.23	191.10	191.05	191.07	191.09	
13	191.01	191.13	191.12	191.03	191.15	191.46	191.54	191.20	191.11	191.05	191.08	191.12	
14	191.05	191.32	191.12	191.04	191.17	191.45	191.47	191.18	191.09	191.06	191.06	191.10	
15	191.05	191.10	191.13	191.04	191.22	191.54	191.42	191.18	191.10	191.05	191.08	191.05	
16	191.02	191.12	191.06	191.10	191.21	191.52	191.39	191.17	191.10	191.03	191.09	191.06	
17	190.98	191.13	191.01	191.19	191.18	191.45	191.40	191.17	191.08	191.04	191.10	191.06	
18	191.05	191.07	191.02	191.22	191.18	191.43	191.36	191.15	191.08	191.04	191.07	191.08	
19	191.01	191.08	191.01	191.42	191.17	191.56	191.33	191.15	191.08	191.04	191.09	191.03	
20	191.02	190.99	191.02	191.37	191.18	191.52	191.30	191.15	191.07	191.04	191.09	191.01	
21	191.00	190.99	191.02	191.23	191.16	191.42	191.28	191.15	191.07	191.03	191.08	191.03	
22	190.98	190.98	191.00	191.17	191.14	191.37	191.28	191.13	191.07	191.07	191.08	191.02	
23	191.10	190.98	190.99	191.23	191.13	191.45	191.25	191.11	191.06	191.08	191.08	191.02	
24	191.07	190.98	191.20	191.27	191.19	192.08	191.23	191.12	191.06	191.07	191.09	191.10	
25	191.05	190.96	191.15	191.23	191.25	191.98	191.21	191.12	191.06	191.07	191.08	191.06	
26	191.02	190.96	191.14	191.23	191.33	191.68	191.21	191.12	191.07	191.08	191.10	191.08	
27	191.05	190.96	191.06	191.16	191.43	191.54	191.22	191.12	191.07	191.08	191.11	191.07	
28	191.03	190.96	191.12	191.12	191.44	191.46	191.20	191.11	191.06	191.07	191.09	191.07	
29	190.99	190.97	191.16	191.15	191.48	191.42	191.21	191.10	191.07	191.11	191.09	191.06	
30	191.02	190.97	191.12	191.18	191.52	191.52	191.21	191.10	191.08	191.12		191.08	
31		190.98		191.39	191.55		191.18		191.08	191.13		191.05	
Mean	191.02	191.06	191.10	191.17	191.27	191.55	191.44	191.18	191.09	191.06	191.09	191.07	
Max	191.10	191.32	191.44	191.42	191.55	192.08	192.18	191.50	191.12	191.13	191.12	191.12	192.18
Min	190.97	190.96	190.95	191.03	191.13	191.37	191.18	191.10	191.06	191.03	191.06	191.01	190.95

Annual Max Momentary Gage Height 193.43 M (MSL), at 22.00 Hours, on Sep 24, 1995
Zero Gage at Bottom Elevation 190.67 M (MSL), River Bed 190.73 M (MSL)
Left Bank Elevation 196.58 M (MSL)
Right Bank Elevation 196.56 M (MSL), Drainage Area 79 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	1.60	0.21	3.54	3.82	7.20	5.76	1.80	1.00	0.72	0.28	0.05	
2	0.24	1.10	0.15	2.14	4.38	7.92	4.52	1.80	1.00	0.72	0.26	0.05	
3	0.93	0.86	0.18	1.00	3.40	8.16	4.80	1.90	1.00	0.79	0.25	0.04	
4	0.72	0.44	0.24	1.20	2.84	6.24	4.10	7.20	0.93	0.86	0.23	0.04	
5	0.58	1.10	0.65	1.10	2.56	5.52	3.54	2.98	1.00	0.79	0.22	0.04	
6	0.44	1.30	0.72	1.20	4.24	7.68	5.76	2.42	1.00	0.72	0.21	0.04	
7	0.27	0.79	0.65	1.20	3.96	13.20	16.40	2.14	1.00	0.72	0.19	0.03	
8	0.24	0.72	1.50	1.10	2.42	9.36	26.80	1.90	1.00	0.79	0.18	0.03	
9	0.21	0.79	2.00	1.00	2.42	7.20	31.20	1.90	1.10	0.72	0.17	0.03	
10	0.24	1.40	5.76	0.86	2.00	5.28	26.00	1.70	1.20	0.65	0.16	0.03	
11	0.51	0.93	5.28	0.93	1.70	12.30	21.60	2.84	1.00	0.72	0.15	0.03	
12	0.44	1.10	2.00	0.65	1.40	11.10	11.40	2.42	1.00	0.65	0.14	0.02	
13	0.37	1.30	1.20	0.51	1.50	6.24	8.16	2.00	1.10	0.65	0.13	0.02	
14	0.65	3.68	1.20	0.58	1.70	6.00	6.48	1.80	0.93	0.72	0.13	0.02	
15	0.65	1.00	1.30	0.58	2.28	8.16	5.28	1.80	1.00	0.65	0.12	0.02	
16	0.44	1.20	0.72	1.00	2.14	7.68	4.66	1.70	1.00	0.51	0.11	0.02	
17	0.24	1.30	0.37	1.90	1.80	6.00	4.80	1.70	0.86	0.58	0.11	0.02	
18	0.65	0.79	0.44	2.28	1.80	5.52	4.24	1.50	0.86	0.58	0.10	0.02	
19	0.37	0.86	0.37	5.28	1.70	8.64	3.82	1.50	0.86	0.58	0.09	0.02	
20	0.44	0.27	0.44	4.38	1.80	7.68	3.40	1.50	0.79	0.58	0.09	0.02	
21	0.30	0.27	0.44	2.42	1.60	5.28	3.12	1.50	0.79	0.55	0.08	0.01	
22	0.24	0.24	0.30	1.70	1.40	4.38	3.12	1.30	0.79	0.51	0.08	0.01	
23	1.00	0.24	0.27	2.42	1.30	6.00	2.70	1.10	0.72	0.48	0.07	0.01	
24	0.79	0.24	2.00	2.98	1.90	26.80	2.42	1.20	0.72	0.45	0.07	0.01	
25	0.65	0.18	1.50	2.42	2.70	22.80	2.14	1.20	0.72	0.43	0.06	0.01	
26	0.44	0.18	1.40	2.42	3.82	12.00	2.14	1.20	0.79	0.40	0.06	0.01	
27	0.65	0.18	0.72	1.60	5.52	8.16	2.28	1.20	0.79	0.38	0.06	0.01	
28	0.51	0.18	1.20	1.20	5.76	6.24	2.00	1.10	0.72	0.36	0.05	0.01	
29	0.27	0.21	1.60	1.50	6.72	5.28	2.14	1.00	0.79	0.34	0.05	0.01	
30	0.44	0.21	1.20	1.80	7.68	7.68	2.14	1.00	0.86	0.32		0.01	
31		0.24		4.66	8.40		1.80		0.86	0.30		0.01	
Total	14.29	24.90	36.01	57.55	96.66	261.70	228.72	56.30	28.18	18.22	3.90	0.70	827.13 CMSDAY
Mean	0.48	0.80	1.20	1.86	3.12	8.72	7.38	1.88	0.91	0.59	0.13	0.02	2.26 CMS
Max	1.00	3.68	5.76	5.28	8.40	26.80	31.20	7.20	1.20	0.86	0.28	0.05	31.20 CMS
Min	0.21	0.18	0.15	0.51	1.30	4.38	1.80	1.00	0.72	0.30	0.05	0.01	0.01 CMS
Runoff	1.235	2.151	3.111	4.972	8.351	22.611	19.761	4.864	2.435	1.574	0.337	0.060	71.464 MCM

Momentary Peak 109.40 CMS, at 193.43 M (MSL), at 22.00 Hours, on Sep 24, 1995
Runoff Yield 28.61 Liters/Second/Square KM, Momentary Peak Yield 1384.810 Liters/Second/Square KM

WATER YEAR 1995

TONLE SAP BASIN

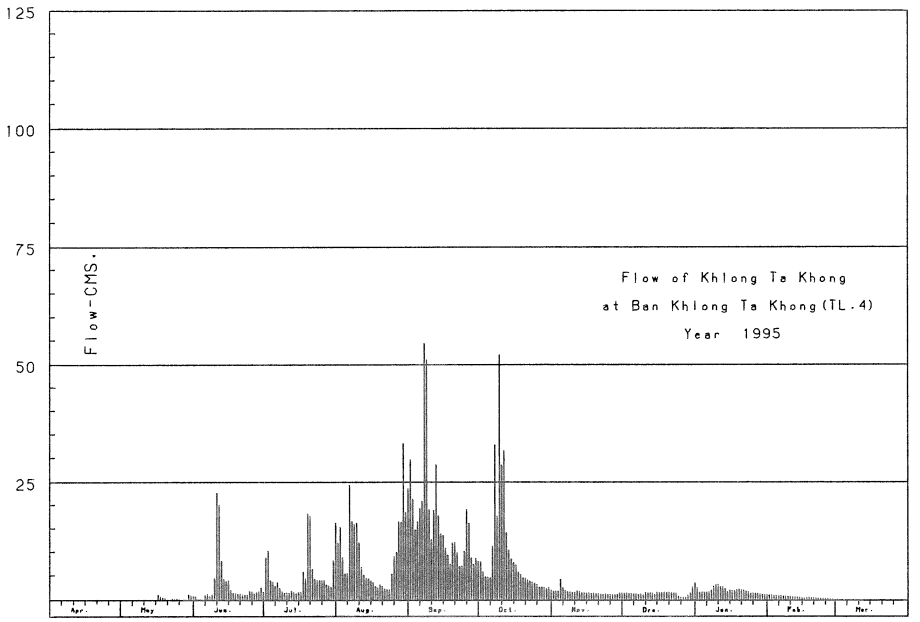
Khlong Ta Khong at Ban Khlong Ta Khong, Chanthaburi (TL.4)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.58	176.49	177.96	179.00	179.16	179.91	178.96	178.44	178.29	178.56	178.12	177.63	
2	176.52	176.50	177.69	179.07	179.32	179.60	178.85	178.43	178.27	178.37	178.10	177.60	
3	176.48	176.53	177.60	178.72	179.00	179.30	178.80	178.44	178.26	178.36	178.07	177.56	
4	176.47	176.54	177.61	178.68	178.83	179.38	178.78	178.75	178.24	178.38	178.05	177.54	
5	176.48	176.53	178.07	178.60	178.83	179.52	178.78	178.56	178.22	178.38	178.04	177.52	
6	176.50	176.53	178.19	178.67	179.71	179.58	179.12	178.45	178.19	178.37	178.03	177.50	
7	176.50	176.53	177.98	178.55	179.39	180.69	180.03	178.41	178.19	178.48	178.02	177.48	
8	176.48	176.53	178.13	178.39	179.35	180.60	179.44	178.37	178.17	178.59	178.00	177.47	
9	176.42	176.53	178.76	178.31	179.37	179.51	180.63	178.34	178.11	178.63	177.99	177.45	
10	176.39	176.53	179.65	178.27	179.16	179.19	179.87	178.33	178.30	178.63	177.96	177.43	
11	176.39	176.53	179.55	178.28	178.90	179.50	179.98	178.46	178.32	178.59	177.94	177.41	
12	176.38	176.52	178.97	178.44	178.82	179.87	179.27	178.40	178.32	178.58	177.93	177.41	
13	176.35	176.55	178.74	178.33	178.76	179.45	179.08	178.35	178.27	178.54	177.92	177.41	
14	176.35	176.81	178.70	178.26	178.76	179.25	178.99	178.31	178.16	178.50	177.88	177.41	
15	176.33	176.88	178.71	178.36	178.71	179.24	178.95	178.29	178.34	178.49	177.83	177.39	
16	176.30	178.09	178.47	178.35	178.67	179.10	178.92	178.26	178.34	178.46	177.81	177.38	
17	176.26	177.96	178.29	178.85	178.60	179.03	178.85	178.25	178.34	178.46	177.86	177.36	
18	176.20	177.87	178.23	178.75	178.55	178.93	178.82	178.25	178.34	178.50	177.89	177.35	
19	176.34	177.80	178.20	179.47	178.63	179.16	178.78	178.24	178.35	178.52	177.87	177.34	
20	176.38	177.62	178.19	179.44	178.59	179.16	178.76	178.21	178.33	178.51	177.85	177.33	
21	176.35	177.59	178.17	178.88	178.52	179.05	178.73	178.19	178.34	178.47	177.83	177.32	
22	176.37	177.69	178.13	178.75	178.51	178.91	178.71	178.17	178.29	178.45	177.83	177.31	
23	176.37	177.71	178.11	178.71	178.50	178.91	178.68	178.17	178.24	178.39	177.82	177.31	
24	176.36	177.71	178.43	178.72	178.83	179.07	178.66	178.15	177.97	178.30	177.80	177.29	
25	176.37	177.62	178.37	178.71	179.01	179.51	178.63	178.13	177.88	178.28	177.79	177.21	
26	176.37	177.42	178.23	178.72	179.06	179.37	178.58	178.13	177.87	178.29	177.76	177.14	
27	176.38	177.41	178.32	178.63	179.38	179.00	178.58	178.13	177.90	178.27	177.73	177.14	
28	176.42	177.42	178.40	178.60	179.38	178.93	178.56	178.15	178.06	178.20	177.71	177.14	
29	176.45	178.14	178.56	178.57	180.04	178.99	178.53	178.28	178.31	178.17	177.67	177.15	
30	176.46	178.03	178.37	178.97	179.48	178.96	178.56	178.27	178.57	178.15		177.15	
31		178.01		179.37	179.68		178.48		178.67	178.13		177.15	
Mean	176.40	177.18	178.36	178.69	179.02	179.36	178.98	178.31	178.24	178.42	177.90	177.36	
Max	176.58	178.14	179.65	179.47	180.04	180.69	180.63	178.75	178.67	178.63	178.12	177.63	180.69
Min	176.20	176.49	177.60	178.26	178.50	178.91	178.48	178.13	177.87	178.13	177.67	177.14	176.20

Annual Max Momentary Gage Height 182.33 M (MSL), at 23.00 Hours, on Sep 7, 1995
Zero Gage at Bottom Elevation 176.80 M (MSL), River Bed 175.81 M (MSL)
Left Bank Elevation 186.27 M (MSL)
Right Bank Elevation 185.86 M (MSL), Drainage Area 96 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.77	9.00	12.20	29.87	8.20	1.96	1.54	2.68	1.15	0.23	
2	0.00	0.00	0.29	10.40	15.40	21.50	6.00	1.92	1.50	1.73	1.10	0.20	
3	0.00	0.00	0.20	4.20	9.00	15.00	5.00	1.96	1.47	1.71	1.03	0.16	
4	0.00	0.00	0.21	3.80	5.60	16.60	4.80	4.50	1.43	1.75	0.98	0.14	
5	0.00	0.00	1.03	3.00	5.60	19.50	4.80	2.68	1.38	1.75	0.96	0.12	
6	0.00	0.00	1.31	3.70	24.47	21.00	11.40	2.00	1.31	1.73	0.94	0.10	
7	0.00	0.00	0.82	2.60	16.80	54.60	33.11	1.84	1.31	2.12	0.91	0.08	
8	0.00	0.00	1.17	1.78	16.00	51.00	17.80	1.73	1.26	2.92	0.87	0.07	
9	0.00	0.00	4.60	1.59	16.40	19.25	52.20	1.66	1.12	3.30	0.84	0.05	
10	0.00	0.00	22.85	1.50	12.20	12.80	28.79	1.64	1.57	3.30	0.77	0.03	
11	0.00	0.00	20.25	1.52	7.00	19.00	31.76	2.04	1.61	2.92	0.73	0.01	
12	0.00	0.00	8.40	1.96	5.40	28.79	14.40	1.80	1.61	2.84	0.70	0.01	
13	0.00	0.00	4.40	1.64	4.60	18.00	10.60	1.68	1.50	2.52	0.68	0.01	
14	0.00	0.00	4.00	1.47	4.60	14.00	8.80	1.59	1.24	2.20	0.59	0.01	
15	0.00	0.00	4.10	1.71	4.10	13.80	8.00	1.54	1.66	2.16	0.47	0.00	
16	0.00	1.08	2.08	1.68	3.70	11.00	7.40	1.47	1.66	2.04	0.42	0.00	
17	0.00	0.77	1.54	6.00	3.00	9.60	6.00	1.45	1.66	2.04	0.54	0.00	
18	0.00	0.56	1.40	4.50	2.60	7.60	5.40	1.45	1.66	2.20	0.61	0.00	
19	0.00	0.40	1.33	18.40	3.30	12.20	4.80	1.43	1.68	2.36	0.56	0.00	
20	0.00	0.22	1.31	17.80	2.92	12.20	4.60	1.36	1.64	2.28	0.52	0.00	
21	0.00	0.19	1.26	6.60	2.36	10.00	4.30	1.31	1.66	2.08	0.47	0.00	
22	0.00	0.29	1.17	4.50	2.28	7.20	4.10	1.26	1.54	2.00	0.47	0.00	
23	0.00	0.31	1.12	4.10	2.20	7.20	3.80	1.26	1.43	1.78	0.45	0.00	
24	0.00	0.31	1.92	4.20	5.60	10.40	3.60	1.22	0.80	1.57	0.40	0.00	
25	0.00	0.22	1.73	4.10	9.20	19.25	3.30	1.17	0.59	1.52	0.39	0.00	
26	0.00	0.02	1.40	4.20	10.20	16.40	2.84	1.17	0.56	1.54	0.36	0.00	
27	0.00	0.01	1.61	3.30	16.60	9.00	2.84	1.17	0.63	1.50	0.33	0.00	
28	0.00	0.02	1.80	3.00	16.60	7.60	2.68	1.22	1.01	1.33	0.31	0.00	
29	0.00	1.19	2.68	2.76	33.38	8.80	2.44	1.52	1.59	1.26	0.27	0.00	
30	0.00	0.94	1.73	8.40	18.60	8.20	2.68	1.50	2.76	1.22		0.00	
31		0.89		16.40	23.66		2.12		3.70	1.17		0.00	
Total	0.00	7.42	98.48	159.81	315.57	511.36	308.56	50.50	46.08	63.52	18.82	1.22	1581.34 CMSDAY
Mean	0.00	0.24	3.28	5.16	10.18	17.05	9.95	1.68	1.49	2.05	0.65	0.04	4.32 CMS
Max	0.00	1.19	22.85	18.40	33.38	54.60	52.20	4.50	3.70	3.30	1.15	0.23	54.60 CMS
Min	0.00	0.00	0.20	1.47	2.20	7.20	2.12	1.17	0.56	1.17	0.27	0.00	0.00 CMS
Runoff	0.000	0.641	8.509	13.808	27.265	44.182	26.660	4.363	3.981	5.488	1.626	0.105	136.628 MCM

Momentary Peak 142.60 CMS, at 182.33 M (MSL), at 23.00 Hours, on Sep 7, 1995
Runoff Yield 45.01 Liters/Second/Square KM, Momentary Peak Yield 1485.417 Liters/Second/Square KM

WATER YEAR 1995

TONLE SAP BASIN

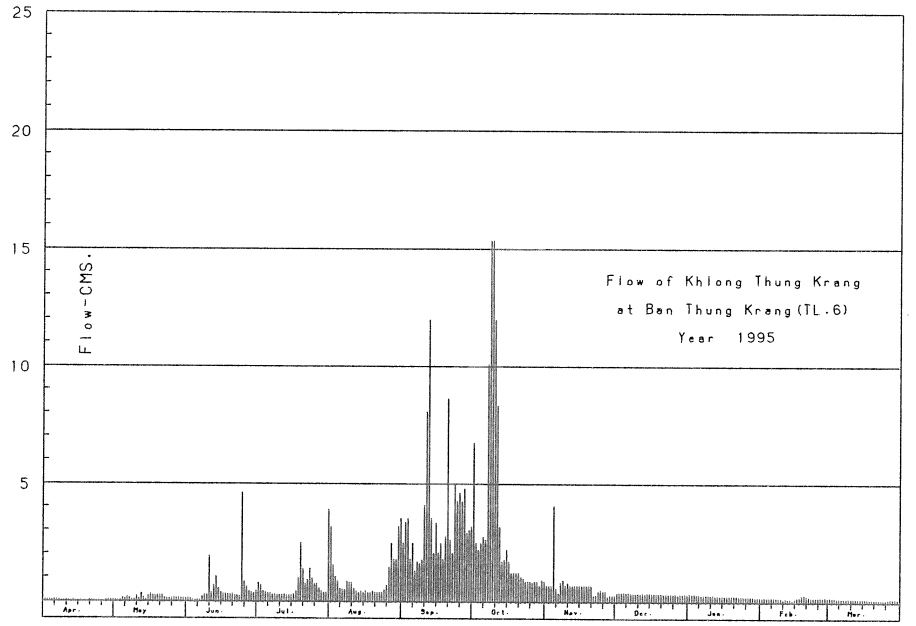
Khlong Thung Krang at Ban Thung Krang, Chanthaburi (TL.6)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.76	183.76	183.87	184.07	184.30	184.25	184.48	184.05	184.00	183.98	183.90	183.90	
2	183.75	183.72	183.86	184.05	184.17	184.31	184.25	184.05	184.00	183.97	183.90	183.90	
3	183.77	183.78	183.78	184.01	184.11	184.32	184.23	184.05	184.00	183.97	183.90	183.90	
4	183.75	183.86	183.77	184.00	184.08	184.20	184.25	184.35	184.00	183.96	183.90	183.87	
5	183.77	183.84	183.78	183.99	184.03	184.25	184.27	184.03	184.00	183.96	183.90	183.87	
6	183.77	183.90	183.78	183.99	184.02	184.14	184.26	183.99	184.00	183.95	183.90	183.86	
7	183.74	183.86	183.91	183.96	184.02	184.19	184.60	184.07	183.99	183.95	183.90	183.86	
8	183.72	183.79	183.95	183.96	184.08	184.18	184.73	184.09	183.98	183.95	183.88	183.86	
9	183.72	183.81	183.95	183.95	184.07	184.20	184.73	184.05	183.98	183.95	183.88	183.86	
10	183.74	183.92	184.21	183.95	184.07	184.35	184.65	184.07	183.98	183.95	183.82	183.86	
11	183.75	183.85	184.00	183.95	184.03	184.53	184.54	184.05	183.98	183.95	183.88	183.85	
12	183.72	183.98	184.05	183.96	184.01	184.65	184.30	184.05	183.99	183.93	183.84	183.85	
13	183.74	183.88	184.11	183.94	184.00	184.32	184.19	184.05	183.98	183.93	183.83	183.85	
14	183.72	183.76	184.03	183.94	184.01	184.22	184.20	184.05	183.99	183.93	183.80	183.85	
15	183.71	183.93	184.00	183.94	184.00	184.31	184.23	184.05	183.99	183.93	183.85	183.85	
16	183.72	183.97	183.97	183.96	184.01	184.22	184.19	184.05	183.98	183.93	183.89	183.85	
17	183.69	183.94	183.97	184.01	184.00	184.25	184.13	184.05	183.98	183.93	183.91	183.85	
18	183.69	183.93	183.96	184.10	183.99	184.20	184.13	184.05	183.98	183.93	183.94	183.82	
19	183.70	183.94	183.96	184.25	184.01	184.27	184.13	184.05	183.98	183.93	183.96	183.82	
20	183.74	183.94	183.97	184.15	184.00	184.55	184.13	184.05	183.98	183.93	183.94	183.82	
21	183.74	183.94	183.94	184.06	184.00	184.26	184.11	183.94	183.97	183.93	183.92	183.82	
22	183.72	183.88	183.94	184.09	184.00	184.22	184.10	183.95	183.97	183.92	183.90	183.81	
23	183.72	183.85	183.92	184.15	184.00	184.40	184.08	184.01	183.97	183.92	183.90	183.81	
24	183.70	183.84	184.38	184.10	184.02	184.36	184.08	184.02	183.97	183.92	183.90	183.80	
25	183.65	183.87	184.08	184.06	184.05	184.38	184.08	184.01	183.97	183.92	183.90	183.80	
26	183.69	183.87	184.04	184.06	184.16	184.36	184.07	184.01	183.97	183.92	183.90	183.82	
27	183.76	183.87	184.01	184.03	184.25	184.39	184.08	183.92	183.95	183.92	183.90	183.85	
28	183.78	183.87	184.00	184.01	184.20	184.28	184.08	183.94	183.97	183.91	183.91	183.85	
29	183.77	183.86	183.99	184.00	184.20	184.29	184.05	183.94	183.97	183.90	183.90	183.85	
30	183.77	183.86	184.01	184.00	184.30	184.30	184.09	183.94	183.97	183.90		183.83	
31		183.86		184.34	184.32		184.08		183.96	183.90		183.83	
Mean	183.73	183.87	183.97	184.03	184.08	184.30	184.24	184.03	183.98	183.93	183.89	183.85	
Max	183.78	183.98	184.38	184.34	184.32	184.65	184.73	184.35	184.00	183.98	183.96	183.90	184.73
Min	183.65	183.72	183.77	183.94	183.99	184.14	184.05	183.92	183.95	183.90	183.80	183.80	183.65

Annual Max Momentary Gage Height 184.90 M (MSL), at 18.00 Hours, on Sep 11, 1995
Zero Gage at Bottom Elevation 183.10 M (MSL), River Bed 182.62 M (MSL)
Left Bank Elevation 187.40 M (MSL)
Right Bank Elevation 187.40 M (MSL), Drainage Area 42 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.08	0.17	0.82	3.20	2.50	6.76	0.70	0.40	0.36	0.20	0.20	
2	0.07	0.06	0.16	0.70	1.56	3.38	2.50	0.70	0.40	0.34	0.20	0.20	
3	0.09	0.09	0.09	0.46	1.08	3.56	2.22	0.70	0.40	0.34	0.20	0.20	
4	0.07	0.16	0.09	0.40	0.88	1.80	2.50	4.10	0.40	0.32	0.20	0.17	
5	0.09	0.14	0.09	0.38	0.58	2.50	2.78	0.58	0.40	0.32	0.20	0.17	
6	0.09	0.20	0.09	0.38	0.52	1.32	2.64	0.38	0.40	0.30	0.20	0.16	
7	0.07	0.16	0.22	0.32	0.52	1.72	10.10	0.82	0.38	0.30	0.20	0.16	
8	0.06	0.09	0.30	0.32	0.88	1.64	15.37	0.94	0.36	0.30	0.18	0.16	
9	0.06	0.11	0.30	0.30	0.82	1.80	15.37	0.70	0.36	0.30	0.18	0.16	
10	0.07	0.24	1.94	0.30	0.82	4.10	12.00	0.82	0.36	0.30	0.12	0.16	
11	0.07	0.15	0.40	0.30	0.58	8.07	8.36	0.70	0.36	0.30	0.18	0.15	
12	0.06	0.36	0.70	0.32	0.46	12.00	3.20	0.70	0.38	0.26	0.14	0.15	
13	0.07	0.18	1.08	0.28	0.40	3.56	1.72	0.70	0.36	0.26	0.13	0.15	
14	0.06	0.08	0.58	0.28	0.46	2.08	1.80	0.70	0.38	0.26	0.10	0.15	
15	0.06	0.26	0.40	0.28	0.40	3.38	2.22	0.70	0.38	0.26	0.15	0.15	
16	0.06	0.34	0.34	0.32	0.46	2.08	1.72	0.70	0.36	0.26	0.19	0.15	
17	0.04	0.28	0.34	0.46	0.40	2.50	1.24	0.70	0.36	0.26	0.22	0.15	
18	0.04	0.26	0.32	1.00	0.38	1.80	1.24	0.70	0.36	0.26	0.28	0.12	
19	0.05	0.28	0.32	2.50	0.46	2.78	1.24	0.70	0.36	0.26	0.32	0.12	
20	0.07	0.28	0.34	1.40	0.40	8.65	1.24	0.70	0.36	0.26	0.28	0.12	
21	0.07	0.28	0.28	0.76	0.40	2.64	1.08	0.28	0.34	0.26	0.24	0.12	
22	0.06	0.18	0.28	0.94	0.40	2.08	1.00	0.30	0.34	0.24	0.20	0.11	
23	0.06	0.15	0.24	1.40	0.40	5.00	0.88	0.46	0.34	0.24	0.20	0.11	
24	0.05	0.14	4.64	1.00	0.52	4.28	0.88	0.52	0.34	0.24	0.20	0.10	
25	0.02	0.17	0.88	0.76	0.70	4.64	0.88	0.46	0.34	0.24	0.20	0.10	
26	0.04	0.17	0.64	0.76	1.48	4.28	0.82	0.46	0.34	0.24	0.20	0.12	
27	0.08	0.17	0.46	0.58	2.50	4.82	0.88	0.24	0.30	0.24	0.20	0.15	
28	0.09	0.17	0.40	0.46	1.80	2.92	0.88	0.28	0.34	0.22	0.22	0.15	
29	0.09	0.16	0.38	0.40	1.80	3.06	0.70	0.28	0.34	0.20	0.20	0.15	
30	0.09	0.16	0.46	0.40	3.20	3.20	0.94	0.28	0.34	0.20		0.13	
31		0.16		3.92	3.56		0.88		0.32	0.20		0.13	
Total	1.98	5.71	16.93	22.90	32.02	108.14	106.04	21.00	11.20	8.34	5.73	4.52	344.51 CMSDAY
Mean	0.07	0.18	0.56	0.74	1.03	3.60	3.42	0.70	0.36	0.27	0.20	0.15	0.94 CMS
Max	0.09	0.36	4.64	3.92	3.56	12.00	15.37	4.10	0.40	0.36	0.32	0.20	15.37 CMS
Min	0.02	0.06	0.09	0.28	0.38	1.32	0.70	0.24	0.30	0.20	0.10	0.10	0.02 CMS
Runoff	0.171	0.493	1.463	1.979	2.767	9.343	9.162	1.814	0.968	0.721	0.495	0.391	29.766 MCM

Momentary Peak 24.60 CMS, at 184.90 M (MSL), at 18.00 Hours, on Sep 11, 1995
Runoff Yield 22.41 Liters/Second/Square KM, Momentary Peak Yield 585.714 Liters/Second/Square KM

WATER YEAR 1995

THA CHIN RIVER BASIN

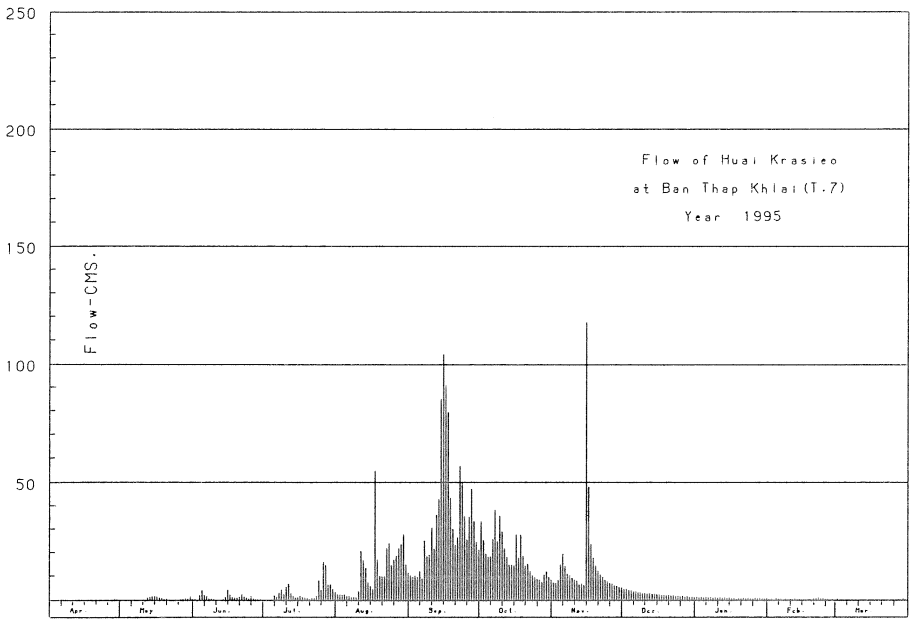
Huai Krasieo at Ban Thap Khlai, Uthai Thani (T.7)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation at +3.96 m. (A.D.) and is included.
General Description	Records good Stage-discharge relation defined by 157 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.15	-0.11	-0.06	-0.12	0.25	0.84	1.83	0.65	0.44	0.10	-0.01	-0.04	
2	-0.15	-0.12	-0.06	-0.14	0.22	0.79	1.54	0.62	0.43	0.10	-0.01	-0.04	
3	-0.15	-0.13	0.18	-0.15	0.22	0.84	1.30	0.72	0.41	0.10	-0.01	-0.04	
4	-0.15	-0.14	0.41	-0.16	0.22	0.79	1.23	1.10	0.39	0.10	0.00	-0.05	
5	-0.10	-0.14	0.22	0.16	0.17	0.94	1.25	1.29	0.37	0.09	0.00	-0.06	
6	-0.13	-0.14	0.12	0.10	0.13	0.76	1.55	1.05	0.35	0.08	-0.01	-0.07	
7	-0.09	-0.14	0.02	0.31	0.10	1.52	2.00	0.90	0.33	0.07	-0.01	-0.07	
8	-0.12	-0.14	-0.03	0.41	0.07	1.25	1.52	0.84	0.32	0.07	-0.02	-0.07	
9	-0.12	-0.13	-0.05	0.25	0.09	1.27	1.92	0.78	0.30	0.07	-0.02	-0.07	
10	-0.13	-0.14	-0.08	0.50	0.37	1.73	1.68	0.72	0.29	0.07	-0.02	-0.08	
11	-0.13	-0.14	-0.10	0.61	1.35	1.39	1.40	0.69	0.28	0.06	-0.02	-0.10	
12	-0.13	0.07	-0.12	0.30	1.17	1.94	1.23	0.59	0.28	0.06	-0.03	-0.09	
13	-0.12	0.09	-0.08	0.16	1.02	2.15	1.09	0.60	0.27	0.06	-0.03	-0.11	
14	-0.12	0.15	0.11	0.09	0.64	3.21	1.08	0.57	0.26	0.05	-0.05	-0.12	
15	-0.12	0.13	0.41	0.06	0.54	3.56	1.07	3.80	0.25	0.04	-0.05	-0.12	
16	-0.13	0.16	0.22	0.15	0.43	3.32	1.63	2.31	0.23	0.02	-0.05	-0.12	
17	-0.13	0.08	0.11	0.11	2.51	3.02	1.22	1.48	0.22	0.01	-0.06	-0.12	
18	-0.13	0.01	0.04	0.04	1.18	2.16	1.63	1.22	0.21	0.00	-0.06	-0.13	
19	-0.13	-0.02	0.07	0.01	0.83	1.72	1.26	1.07	0.20	0.00	-0.06	-0.14	
20	-0.13	-0.04	0.10	-0.02	0.80	1.45	1.06	0.95	0.20	0.02	-0.03	-0.14	
21	-0.13	-0.04	0.23	0.01	0.82	1.58	1.11	0.87	0.19	0.02	0.04	-0.15	
22	-0.13	-0.06	0.13	0.04	1.40	2.57	0.94	0.80	0.18	0.02	0.05	-0.16	
23	-0.13	-0.08	0.04	0.15	1.48	2.35	0.85	0.73	0.17	0.02	0.02	-0.11	
24	-0.13	-0.11	0.01	0.71	1.08	1.92	0.79	0.67	0.16	0.02	0.01	-0.07	
25	-0.14	-0.11	0.14	0.40	1.18	1.55	0.75	0.63	0.15	0.02	-0.01	-0.08	
26	-0.13	-0.09	0.01	1.14	1.25	1.90	0.72	0.60	0.15	0.03	-0.04	-0.06	
27	-0.07	-0.04	-0.03	1.08	1.40	2.28	0.67	0.56	0.14	0.03	-0.05	-0.06	
28	-0.03	0.00	-0.06	0.56	1.46	1.84	0.86	0.53	0.13	0.02	-0.05	-0.04	
29	-0.04	0.00	-0.09	0.59	1.64	1.50	0.95	0.51	0.12	0.01	-0.04	0.00	
30	-0.08	0.12	-0.10	0.42	1.10	1.36	0.79	0.48	0.11	0.01		-0.04	
31		0.00		0.33	0.91		0.72		0.11	0.00		-0.05	
Mean	-0.12	-0.04	0.06	0.26	0.84	1.78	1.21	0.94	0.25	0.04	-0.02	-0.08	
Max	-0.03	0.16	0.41	1.14	2.51	3.56	2.00	3.80	0.44	0.10	0.05	0.00	3.80
Min	-0.15	-0.14	-0.12	-0.16	0.07	0.76	0.67	0.48	0.11	0.00	-0.06	-0.16	-0.16

Annual Max Momentary Gage Height 3.98 M (A.D), at 10.00 Hours, on Nov 15, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.34 M (A.D)
Left Bank Elevation 4.33 M (A.D)
Right Bank Elevation 3.96 M (A.D), Drainage Area 607 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.36	0.60	0.32	2.75	10.67	33.58	7.80	4.92	1.50	0.85	0.70	
2	0.20	0.32	0.60	0.24	2.48	9.90	25.74	7.38	4.79	1.50	0.85	0.70	
3	0.20	0.28	2.14	0.20	2.48	10.67	20.00	8.81	4.53	1.50	0.85	0.70	
4	0.20	0.24	4.53	0.16	2.48	9.90	18.39	15.50	4.28	1.50	0.90	0.65	
5	0.40	0.24	2.48	1.98	2.06	12.36	18.85	19.77	4.04	1.44	0.90	0.60	
6	0.28	0.24	1.66	1.50	1.74	9.43	26.00	14.50	3.80	1.38	0.85	0.55	
7	0.45	0.24	1.02	3.32	1.50	25.22	38.40	11.60	3.56	1.32	0.85	0.55	
8	0.32	0.24	0.75	4.53	1.32	18.85	25.22	10.67	3.44	1.32	0.80	0.55	
9	0.32	0.28	0.65	2.75	1.44	19.31	36.08	9.74	3.20	1.32	0.80	0.55	
10	0.28	0.24	0.50	5.70	4.04	30.82	29.46	8.81	3.11	1.32	0.80	0.50	
11	0.28	0.24	0.40	7.24	21.18	22.12	22.35	8.36	3.02	1.26	0.80	0.40	
12	0.28	1.32	0.32	3.20	17.04	36.66	18.39	6.96	3.02	1.26	0.75	0.45	
13	0.32	1.44	0.50	1.98	13.90	43.25	15.30	7.10	2.93	1.26	0.75	0.36	
14	0.32	1.90	1.58	1.44	7.66	85.50	15.10	6.68	2.84	1.20	0.65	0.32	
15	0.32	1.74	4.53	1.26	6.26	104.57	14.90	118.17	2.75	1.14	0.65	0.32	
16	0.28	1.98	2.48	1.90	4.79	91.10	28.11	48.59	2.57	1.02	0.65	0.32	
17	0.28	1.38	1.58	1.58	55.29	80.10	18.16	24.23	2.48	0.96	0.60	0.32	
18	0.28	0.96	1.14	1.14	17.26	43.58	28.11	18.16	2.39	0.90	0.60	0.28	
19	0.28	0.80	1.32	0.96	10.52	30.55	19.08	14.90	2.30	0.90	0.60	0.24	
20	0.28	0.70	1.50	0.80	10.05	23.53	14.70	12.55	2.30	1.02	0.75	0.24	
21	0.28	0.70	2.57	0.96	10.36	26.78	15.72	11.14	2.22	1.02	1.14	0.20	
22	0.28	0.60	1.74	1.14	22.35	57.30	12.36	10.05	2.14	1.02	1.20	0.16	
23	0.28	0.50	1.14	1.90	24.23	49.93	10.83	8.97	2.06	1.02	1.02	0.36	
24	0.28	0.36	0.96	8.65	15.10	36.08	9.90	8.08	1.98	1.02	0.96	0.55	
25	0.24	0.36	1.82	4.40	17.26	26.00	9.28	7.52	1.90	1.02	0.85	0.50	
26	0.28	0.45	0.96	16.38	18.85	35.50	8.81	7.10	1.90	1.08	0.70	0.60	
27	0.55	0.70	0.75	15.10	22.35	47.58	8.08	6.54	1.82	1.08	0.65	0.60	
28	0.75	0.90	0.60	6.54	23.76	33.85	10.98	6.12	1.74	1.02	0.65	0.70	
29	0.70	0.90	0.45	6.96	28.38	24.70	12.55	5.84	1.66	0.96	0.70	0.90	
30	0.50	1.66	0.40	4.66	15.50	21.41	9.90	5.44	1.58	0.96		0.70	
31		0.90		3.56	11.79		8.81		1.58	0.90		0.65	
Total	9.91	23.17	41.67	112.45	396.17	1077.22	583.14	457.08	86.85	36.12	23.12	15.22	2862.12 CMSDAY
Mean	0.33	0.75	1.39	3.63	12.78	35.91	18.81	15.24	2.80	1.17	0.80	0.49	7.82 CMS
Max	0.75	1.98	4.53	16.38	55.29	104.57	38.40	118.17	4.92	1.50	1.20	0.90	118.17 CMS
Min	0.20	0.24	0.32	0.16	1.32	9.43	8.08	5.44	1.58	0.90	0.60	0.16	0.16 CMS
Runoff	0.856	2.002	3.600	9.716	34.229	93.072	50.383	39.492	7.504	3.121	1.998	1.315	247.287 MCM

Momentary Peak 128.37 CMS, at 3.98 M (A.D), at 10.00 Hours, on Nov 15, 1995

Runoff Yield 12.88 Liters/Second/Square KM, Momentary Peak Yield 211.483 Liters/Second/Square KM

WATER YEAR 1995

NAKHON NAYOK RIVER BASIN

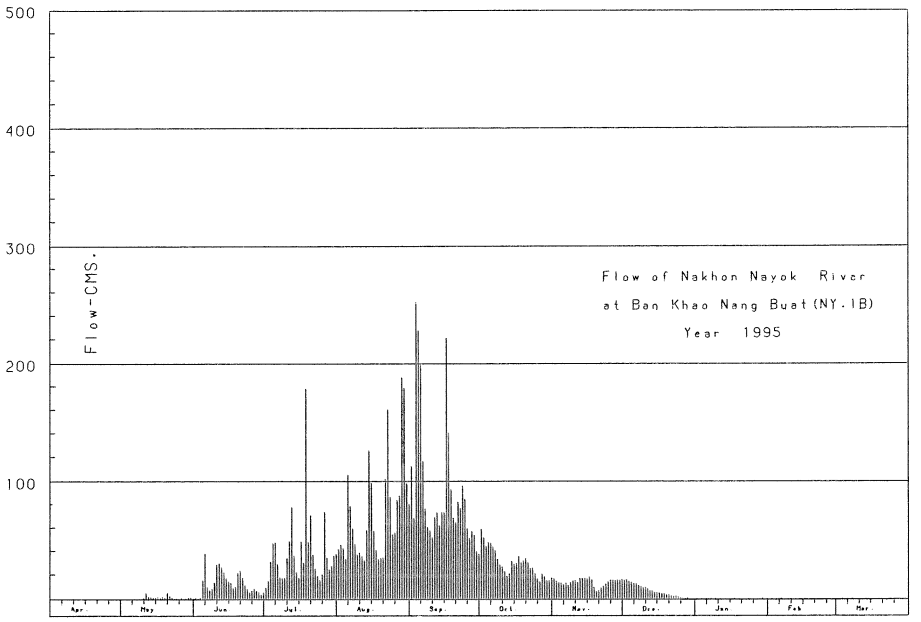
Nakhon Nayok River at Khao Nang Buat, Nakhon Nayok (Ny.1B)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 8.82 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.40	3.30	3.48	4.17	5.32	6.78	5.71	4.56	4.51	3.45	3.43	3.38	
2	3.39	3.30	3.49	4.48	5.40	5.92	5.56	4.46	4.51	3.45	3.43	3.37	
3	3.37	3.30	3.50	5.00	5.34	8.75	5.38	4.41	4.48	3.45	3.43	3.37	
4	3.35	3.30	4.50	5.43	5.07	8.45	5.45	4.38	4.41	3.45	3.43	3.36	
5	3.33	3.30	5.21	5.46	6.67	8.07	5.45	4.33	4.37	3.45	3.43	3.36	
6	3.34	3.30	4.19	4.92	6.13	6.86	5.36	4.37	4.33	3.45	3.42	3.36	
7	3.35	3.30	4.08	4.60	5.73	6.08	5.29	4.30	4.29	3.45	3.41	3.36	
8	3.39	3.33	4.13	4.55	5.42	5.76	5.05	4.39	4.22	3.45	3.41	3.36	
9	3.36	3.31	4.41	4.58	5.18	5.68	4.92	4.48	4.20	3.44	3.41	3.36	
10	3.38	3.49	4.91	5.09	5.22	5.55	4.85	4.48	4.19	3.43	3.41	3.36	
11	3.36	3.94	4.96	5.49	5.13	5.92	4.75	4.43	4.16	3.43	3.40	3.35	
12	3.36	3.63	4.84	6.12	5.03	6.02	4.63	4.55	4.07	3.43	3.39	3.35	
13	3.35	3.54	4.71	5.14	5.69	5.79	4.68	4.57	4.03	3.42	3.39	3.36	
14	3.34	3.53	4.57	4.72	7.01	6.01	5.01	4.56	3.98	3.42	3.39	3.36	
15	3.34	3.54	4.46	4.59	6.54	6.02	4.92	4.56	3.93	3.42	3.38	3.38	
16	3.34	3.57	4.37	5.47	5.69	8.37	4.95	4.60	3.92	3.42	3.38	3.38	
17	3.34	3.54	4.18	4.97	5.30	7.25	5.14	4.52	3.90	3.42	3.38	3.32	
18	3.34	3.58	4.21	7.82	5.05	6.44	4.98	4.19	3.86	3.42	3.38	3.27	
19	3.32	3.56	4.71	5.46	5.09	5.91	5.01	4.03	3.82	3.41	3.37	3.27	
20	3.32	4.01	4.76	5.96	5.09	5.84	5.07	4.05	3.79	3.41	3.37	3.26	
21	3.32	3.70	4.56	5.16	6.60	6.20	4.98	4.19	3.74	3.41	3.38	3.26	
22	3.31	3.57	4.30	4.82	7.58	6.10	4.83	4.26	3.68	3.41	3.39	3.25	
23	3.31	3.42	4.12	4.63	6.30	6.49	4.82	4.33	3.64	3.41	3.39	3.26	
24	3.31	3.45	3.98	4.49	5.61	6.26	4.70	4.43	3.60	3.41	3.39	3.27	
25	3.31	3.45	4.04	4.66	5.65	5.72	4.54	4.49	3.57	3.41	3.39	3.27	
26	3.31	3.44	4.15	6.03	6.23	5.54	4.45	4.50	3.54	3.41	3.38	3.27	
27	3.31	3.44	4.06	5.10	6.31	5.68	4.68	4.50	3.51	3.42	3.38	3.28	
28	3.31	3.43	3.95	4.80	7.94	5.60	4.60	4.50	3.50	3.43	3.40	3.28	
29	3.31	3.54	3.83	4.87	7.82	5.26	4.49	4.50	3.44	3.45	3.39	3.30	
30	3.32	3.52	3.93	5.14	6.54	5.18	4.47	4.51	3.34	3.44		3.30	
31		3.49		5.19	6.17		4.57		3.43	3.44		3.30	
Mean	3.34	3.49	4.29	5.13	5.93	6.32	4.94	4.41	3.93	3.43	3.40	3.32	
Max	3.40	4.01	5.21	7.82	7.94	8.75	5.71	4.60	4.51	3.45	3.43	3.38	8.75
Min	3.31	3.30	3.48	4.17	5.03	5.18	4.45	4.03	3.34	3.41	3.37	3.25	3.25

Annual Max Momentary Gage Height 9.92 M (MSL), at 15.00 Hours, on Sep 3, 1995
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 2.71 M (MSL)
Left Bank Elevation 9.77 M (MSL)
Right Bank Elevation 8.81 M (MSL), Drainage Area 519 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.20	0.90	9.40	42.78	112.67	59.27	17.66	16.36	0.75	0.65	0.44	
2	0.47	0.20	0.95	15.68	45.90	69.20	52.58	15.26	16.36	0.75	0.65	0.41	
3	0.41	0.20	1.00	32.01	43.56	252.10	45.12	14.21	15.68	0.75	0.65	0.41	
4	0.35	0.20	16.10	47.13	34.34	228.50	47.95	13.60	14.21	0.75	0.65	0.38	
5	0.29	0.20	39.00	48.36	106.09	198.86	47.95	12.60	13.40	0.75	0.65	0.38	
6	0.32	0.20	9.80	29.35	79.12	117.54	44.34	13.40	12.60	0.75	0.60	0.38	
7	0.35	0.20	7.64	18.70	60.22	76.76	41.67	12.00	11.80	0.75	0.55	0.38	
8	0.47	0.29	8.60	17.40	46.72	61.64	33.68	13.80	10.40	0.75	0.55	0.38	
9	0.38	0.23	14.21	18.18	38.01	57.90	29.35	15.68	10.00	0.70	0.55	0.38	
10	0.44	0.95	29.02	35.01	39.34	52.15	27.02	15.68	9.80	0.65	0.55	0.38	
11	0.38	5.42	30.68	49.59	36.34	69.20	23.69	14.63	9.20	0.65	0.50	0.35	
12	0.38	2.21	26.69	78.64	33.01	73.92	19.70	17.40	7.46	0.65	0.47	0.35	
13	0.35	1.37	22.36	36.67	58.35	63.05	21.36	17.92	6.74	0.60	0.47	0.38	
14	0.32	1.28	17.92	22.69	126.68	73.45	32.35	17.66	5.94	0.60	0.47	0.38	
15	0.32	1.37	15.26	18.44	98.80	73.92	29.35	17.66	5.29	0.60	0.44	0.44	
16	0.32	1.65	13.40	48.77	58.35	222.26	30.35	18.70	5.16	0.60	0.44	0.44	
17	0.32	1.37	9.60	31.02	42.00	141.29	36.67	16.62	4.90	0.60	0.44	0.26	
18	0.32	1.75	10.20	179.36	33.68	93.77	31.35	9.80	4.46	0.60	0.44	0.14	
19	0.26	1.56	22.36	48.36	35.01	68.72	32.35	6.74	4.02	0.55	0.41	0.14	
20	0.26	6.38	24.03	71.09	35.01	65.42	34.34	7.10	3.71	0.55	0.41	0.12	
21	0.26	2.87	17.66	37.34	102.10	82.42	31.35	9.80	3.24	0.55	0.44	0.12	
22	0.23	1.65	12.00	26.02	161.38	77.70	26.36	11.20	2.68	0.55	0.47	0.10	
23	0.23	0.60	8.40	19.70	87.15	96.13	26.02	12.60	2.31	0.55	0.47	0.12	
24	0.23	0.75	5.94	15.89	54.75	85.26	22.03	14.63	1.93	0.55	0.47	0.14	
25	0.23	0.75	6.92	20.70	56.55	59.75	17.14	15.89	1.65	0.55	0.47	0.14	
26	0.23	0.70	9.00	74.39	83.84	51.72	15.05	16.10	1.37	0.55	0.44	0.14	
27	0.23	0.70	7.28	35.34	87.62	57.90	21.36	16.10	1.09	0.60	0.44	0.16	
28	0.23	0.65	5.55	25.36	188.72	54.30	18.70	16.10	1.00	0.65	0.50	0.16	
29	0.23	1.37	4.13	27.69	179.36	40.67	15.89	16.10	0.70	0.75	0.47	0.20	
30	0.26	1.19	5.29	36.67	98.80	38.01	15.47	16.36	0.32	0.70		0.20	
31		0.95		38.34	81.01		17.92		0.65	0.70		0.20	
Total	9.57	39.41	401.89	1213.29	2274.59	2816.18	947.73	433.00	204.43	20.05	14.71	8.60	8383.45 CMSDAY
Mean	0.32	1.27	13.40	39.14	73.37	93.87	30.57	14.43	6.59	0.65	0.51	0.28	22.91 CMS
Max	0.50	6.38	39.00	179.36	188.72	252.10	59.27	18.70	16.36	0.75	0.65	0.44	252.10 CMS
Min	0.23	0.20	0.90	9.40	33.01	38.01	15.05	6.74	0.32	0.55	0.41	0.10	0.10 CMS
Runoff	0.827	3.405	34.723	104.828	196.525	243.318	81.884	37.411	17.663	1.732	1.271	0.743	724.330 MCM

Momentary Peak 370.40 CMS, at 9.92 M (MSL), at 15.00 Hours, on Sep 3, 1995

Runoff Yield 44.13 Liters/Second/Square KM, Momentary Peak Yield 713.680 Liters/Second/Square KM

WATER YEAR 1995

NAKHON NAYOK RIVER BASIN

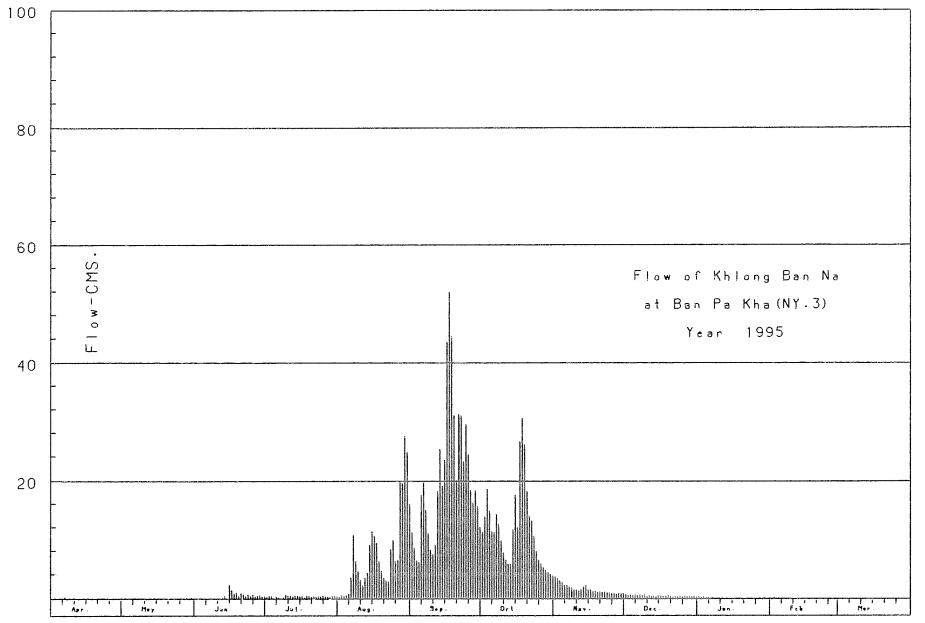
Khlong Ban Na at Ban Pa Kha, Nakhon Nayok (Ny.3)

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 20 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.79	0.80	0.85	0.90	2.76	2.76	1.79	1.07	0.91	0.81	0.62	
2	0.80	0.78	0.80	0.99	0.99	2.46	3.04	1.72	1.05	0.88	0.82	0.62	
3	0.80	0.79	0.80	0.94	0.98	2.22	3.42	1.67	1.02	0.88	0.82	0.65	
4	0.80	0.79	0.80	0.81	0.97	2.17	3.11	1.60	1.04	0.87	0.81	0.65	
5	0.83	0.78	0.78	0.91	1.14	3.34	2.78	1.53	1.06	0.86	0.80	0.68	
6	0.84	0.78	0.77	0.81	1.74	3.50	2.75	1.51	1.04	0.84	0.79	0.69	
7	0.80	0.77	0.77	0.73	2.71	3.12	3.07	1.48	1.05	0.83	0.78	0.67	
8	0.79	0.77	0.76	0.87	2.19	2.74	2.91	1.43	1.03	0.81	0.78	0.65	
9	0.79	0.75	0.72	1.08	1.93	2.42	2.60	1.38	1.05	0.79	0.77	0.65	
10	0.78	0.74	0.71	0.94	1.69	2.33	2.38	1.34	0.95	0.80	0.77	0.67	
11	0.78	0.75	0.72	0.95	1.51	2.52	2.22	1.32	0.99	0.80	0.72	0.64	
12	0.79	0.77	0.84	0.97	1.74	3.38	2.14	1.35	0.97	0.80	0.65	0.58	
13	0.79	0.78	0.96	0.99	1.88	3.94	2.12	1.48	0.93	0.77	0.73	0.64	
14	0.79	0.79	0.79	1.01	2.52	3.45	2.82	1.50	0.94	0.77	0.70	0.57	
15	0.79	0.77	1.54	0.95	2.77	3.79	3.33	1.38	0.96	0.77	0.68	0.54	
16	0.79	0.75	1.31	0.92	2.69	5.13	2.84	1.35	1.00	0.76	0.70	0.54	
17	0.79	0.75	1.13	0.82	2.55	5.60	4.04	1.30	0.93	0.75	0.68	0.55	
18	0.76	0.73	1.18	1.01	2.20	5.18	4.34	1.27	0.97	0.75	0.69	0.55	
19	0.77	0.72	0.96	0.93	1.94	4.37	3.99	1.25	0.99	0.75	0.72	0.55	
20	0.77	0.72	1.19	0.91	1.75	3.53	3.39	1.24	0.95	0.75	0.77	0.55	
21	0.78	0.70	1.08	0.90	1.65	4.38	3.04	1.24	0.90	0.74	0.69	0.57	
22	0.76	0.69	0.96	0.90	1.64	4.36	2.98	1.23	0.92	0.74	0.68	0.56	
23	0.73	0.70	1.06	0.93	2.43	3.78	2.68	1.21	0.93	0.74	0.68	0.57	
24	0.73	0.74	0.96	0.93	2.61	4.26	2.41	1.19	0.93	0.74	0.65	0.57	
25	0.70	0.77	1.05	0.95	2.19	3.86	2.24	1.17	0.93	0.75	0.67	0.57	
26	0.67	0.76	0.93	0.94	2.23	3.40	2.13	1.13	0.93	0.76	0.65	0.56	
27	0.67	0.76	0.98	0.92	3.51	3.23	2.05	1.14	0.93	0.83	0.64	0.55	
28	0.73	0.82	1.00	0.83	3.49	3.39	1.96	1.13	0.92	0.82	0.62	0.55	
29	0.75	0.82	0.93	0.96	4.10	3.17	1.92	1.15	0.92	0.81	0.62	0.57	
30	0.77	0.81	0.90	0.93	3.89	2.86	1.84	1.13	0.92	0.80		0.57	
31		0.80		0.90	3.21		1.80		0.90	0.80		0.57	
Mean	0.77	0.76	0.94	0.92	2.19	3.49	2.75	1.35	0.97	0.80	0.72	0.60	
Max	0.84	0.82	1.54	1.08	4.10	5.60	4.34	1.79	1.07	0.91	0.82	0.69	5.60
Min	0.67	0.69	0.71	0.73	0.90	2.17	1.80	1.13	0.90	0.74	0.62	0.54	0.54

Annual Max Momentary Gage Height 6.01 M (AD), at 18.00 Hours, on Sep 16, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.14 M (AD)
Left Bank Elevation 7.28 M (AD)
Right Bank Elevation 7.30 M (AD), Drainage Area 203 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.19	0.20	0.30	0.40	11.34	11.34	3.85	0.74	0.42	0.22	0.02	
2	0.20	0.18	0.20	0.58	0.58	8.64	14.08	3.46	0.70	0.36	0.24	0.02	
3	0.20	0.19	0.20	0.48	0.56	6.56	18.76	3.19	0.64	0.36	0.24	0.05	
4	0.20	0.19	0.20	0.22	0.54	6.19	14.92	2.80	0.68	0.34	0.22	0.05	
5	0.26	0.18	0.18	0.42	0.92	17.72	11.52	2.42	0.72	0.32	0.20	0.08	
6	0.28	0.18	0.17	0.22	3.57	19.80	11.25	2.31	0.68	0.28	0.19	0.09	
7	0.20	0.17	0.17	0.13	10.89	15.04	14.44	2.14	0.70	0.26	0.18	0.07	
8	0.19	0.17	0.16	0.34	6.33	11.16	12.70	1.86	0.66	0.22	0.18	0.05	
9	0.19	0.15	0.12	0.76	4.68	8.28	9.90	1.64	0.70	0.19	0.17	0.05	
10	0.18	0.14	0.11	0.48	3.30	7.47	7.92	1.52	0.50	0.20	0.17	0.07	
11	0.18	0.15	0.12	0.50	2.31	9.18	6.56	1.46	0.58	0.20	0.12	0.04	
12	0.19	0.17	0.28	0.54	3.57	18.24	5.98	1.55	0.54	0.20	0.05	0.00	
13	0.19	0.18	0.52	0.58	4.38	25.52	5.84	2.14	0.46	0.17	0.13	0.04	
14	0.19	0.19	0.19	0.62	9.18	19.15	11.88	2.25	0.48	0.17	0.10	0.00	
15	0.19	0.17	2.47	0.50	11.43	23.57	17.59	1.64	0.52	0.17	0.08	0.00	
16	0.19	0.15	1.43	0.44	10.71	43.71	12.06	1.55	0.60	0.16	0.10	0.00	
17	0.19	0.15	0.89	0.24	9.45	52.15	26.82	1.40	0.46	0.15	0.08	0.00	
18	0.16	0.13	1.04	0.62	6.40	44.56	30.76	1.31	0.54	0.15	0.09	0.00	
19	0.17	0.12	0.52	0.46	4.74	31.18	26.17	1.25	0.58	0.15	0.12	0.00	
20	0.17	0.12	1.07	0.42	3.63	20.19	18.37	1.22	0.50	0.15	0.17	0.00	
21	0.18	0.10	0.76	0.40	3.08	31.32	14.08	1.22	0.40	0.14	0.09	0.00	
22	0.16	0.09	0.52	0.40	3.02	31.04	13.40	1.19	0.44	0.14	0.08	0.00	
23	0.13	0.10	0.72	0.46	8.37	23.44	10.62	1.13	0.46	0.14	0.08	0.00	
24	0.13	0.14	0.52	0.46	9.99	29.68	8.19	1.07	0.46	0.14	0.05	0.00	
25	0.10	0.17	0.70	0.50	6.33	24.48	6.72	1.01	0.46	0.15	0.07	0.00	
26	0.07	0.16	0.46	0.48	6.64	18.50	5.91	0.89	0.46	0.16	0.05	0.00	
27	0.07	0.16	0.56	0.44	19.93	16.36	5.40	0.92	0.46	0.26	0.04	0.00	
28	0.13	0.24	0.60	0.26	19.67	18.37	4.86	0.89	0.44	0.24	0.02	0.00	
29	0.15	0.24	0.46	0.52	27.60	15.64	4.62	0.95	0.44	0.22	0.02	0.00	
30	0.17	0.22	0.40	0.46	24.87	12.24	4.14	0.89	0.44	0.20		0.00	
31		0.20		0.40	16.12		3.90		0.40	0.20		0.00	
Total	5.21	5.09	15.94	13.63	243.19	620.72	370.70	51.12	16.84	6.61	3.55	0.63	1353.23 CMSDAY
Mean	0.17	0.16	0.53	0.44	7.84	20.69	11.96	1.70	0.54	0.21	0.12	0.02	3.70 CMS
Max	0.28	0.24	2.47	0.76	27.60	52.15	30.76	3.85	0.74	0.42	0.24	0.09	52.15 CMS
Min	0.07	0.09	0.11	0.13	0.40	6.19	3.90	0.89	0.40	0.14	0.02	0.00	0.00 CMS
Runoff	0.450	0.440	1.377	1.178	21.012	53.630	32.028	4.417	1.455	0.571	0.307	0.054	116.919 MCM

Momentary Peak 60.20 CMS, at 6.01 M (AD), at 18.00 Hours, on Sep 16, 1995
Runoff Yield 18.21 Liters/Second/Square KM, Momentary Peak Yield 296.552 Liters/Second/Square KM

WATER YEAR 1995

NAKHON NAYOK RIVER BASIN

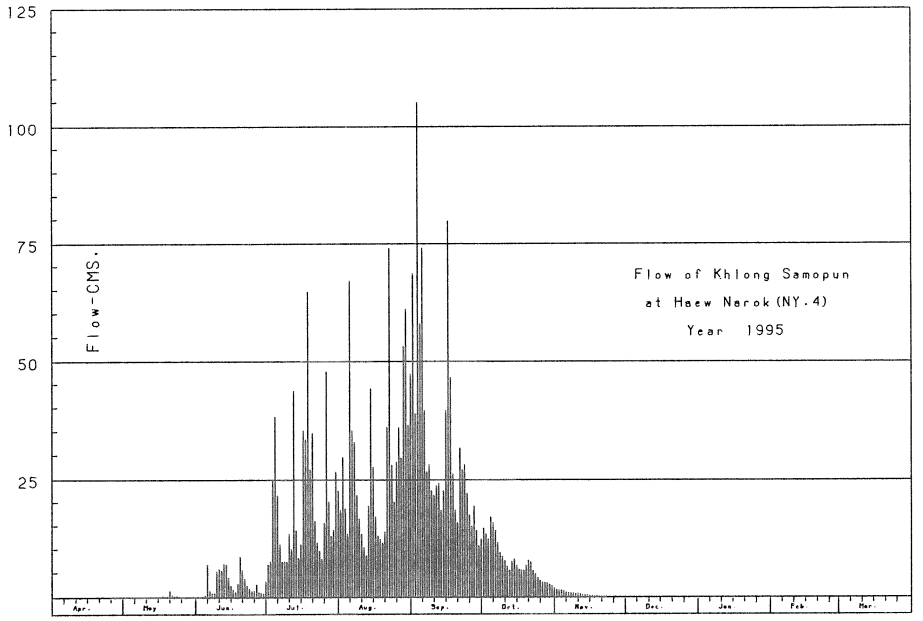
Khlong Samo Pun at Haew Narok, Prachin Buri (Ny.4)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 50 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.34	376.36	376.58	377.12	377.44	378.28	377.35	376.87	376.56	376.43	376.38	376.32	
2	376.37	376.36	376.56	377.14	377.67	377.83	377.32	376.85	376.55	376.43	376.38	376.32	
3	376.36	376.35	376.54	377.57	377.45	378.69	377.29	376.86	376.54	376.43	376.38	376.32	
4	376.35	376.34	376.68	377.82	377.32	378.14	377.41	376.84	376.52	376.43	376.37	376.31	
5	376.35	376.34	377.12	377.51	378.26	378.35	377.38	376.82	376.52	376.42	376.37	376.31	
6	376.34	376.34	376.85	377.26	377.77	377.84	377.34	376.80	376.51	376.42	376.37	376.30	
7	376.34	376.34	376.78	377.14	377.73	377.61	377.27	376.80	376.50	376.42	376.36	376.30	
8	376.35	376.36	376.80	377.14	377.51	377.64	377.21	376.79	376.51	376.42	376.36	376.30	
9	376.36	376.36	377.06	377.14	377.40	377.53	377.18	376.78	376.50	376.42	376.36	376.29	
10	376.40	376.37	377.08	377.32	377.32	377.51	377.15	376.77	376.50	376.42	376.35	376.29	
11	376.39	376.43	377.07	377.23	377.24	377.55	377.10	376.76	376.50	376.42	376.35	376.29	
12	376.39	376.60	377.12	377.91	377.19	377.56	377.07	376.71	376.50	376.42	376.35	376.34	
13	376.38	376.57	377.12	377.34	377.46	377.44	377.14	376.73	376.50	376.41	376.34	376.34	
14	376.38	376.54	377.01	377.17	377.92	377.53	377.16	376.71	376.50	376.41	376.34	376.33	
15	376.37	376.52	376.93	377.26	377.63	377.84	377.11	376.69	376.50	376.41	376.34	376.33	
16	376.37	376.53	376.87	377.77	377.41	378.42	377.08	376.66	376.50	376.41	376.33	376.32	
17	376.37	376.63	376.82	377.74	377.31	377.96	377.07	376.65	376.50	376.41	376.33	376.32	
18	376.37	376.60	376.95	378.23	377.29	377.60	377.07	376.65	376.50	376.41	376.33	376.31	
19	376.37	376.59	377.18	377.62	377.27	377.44	377.11	376.64	376.50	376.40	376.33	376.31	
20	376.36	376.85	377.07	377.76	377.33	377.38	377.15	376.63	376.50	376.40	376.33	376.31	
21	376.36	376.72	377.00	377.39	377.78	377.71	377.14	376.62	376.50	376.40	376.33	376.30	
22	376.36	376.65	376.93	377.27	378.35	377.62	377.07	376.62	376.49	376.40	376.32	376.30	
23	376.35	376.63	376.88	377.22	377.64	377.64	377.04	376.60	376.48	376.40	376.32	376.29	
24	376.34	376.60	376.84	377.16	377.48	377.52	377.01	376.59	376.48	376.40	376.32	376.29	
25	376.34	376.56	376.84	377.38	377.65	377.42	376.98	376.58	376.47	376.40	376.31	376.28	
26	376.36	376.54	376.94	377.98	377.78	377.36	376.96	376.57	376.47	376.40	376.31	376.28	
27	376.37	376.52	376.82	377.48	377.67	377.46	376.96	376.57	376.47	376.39	376.31	376.27	
28	376.37	376.52	376.80	377.31	378.07	377.34	376.95	376.57	376.46	376.39	376.31	376.28	
29	376.36	376.55	376.78	377.34	378.18	377.25	376.94	376.57	376.45	376.39	376.32	376.30	
30	376.36	376.56	376.97	377.61	377.79	377.29	376.92	376.57	376.44	376.39		376.30	
31		376.53		377.53	377.97		376.90		376.43	376.38		376.30	
Mean	376.36	376.51	376.90	377.45	377.62	377.69	377.12	376.70	376.50	376.41	376.34	376.30	
Max	376.40	376.85	377.18	378.23	378.35	378.69	377.41	376.87	376.56	376.43	376.38	376.34	378.69
Min	376.34	376.34	376.54	377.12	377.19	377.25	376.90	376.57	376.43	376.38	376.31	376.27	376.27

Annual Max Momentary Gage Height 379.46 M (MSL), at 23.00 Hours, on Sep 15, 1995
Zero Gage at Bottom Elevation 376.10 M (MSL), River Bed 375.71 M (MSL)
Left Bank Elevation 383.00 M (MSL)
Right Bank Elevation 383.99 M (MSL), Drainage Area 128 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.06	0.28	7.04	18.50	68.70	14.70	1.70	0.26	0.13	0.08	0.02	
2	0.07	0.06	0.26	7.58	29.70	39.00	13.50	1.50	0.25	0.13	0.08	0.02	
3	0.06	0.05	0.24	24.70	18.95	105.20	12.35	1.60	0.24	0.13	0.08	0.02	
4	0.05	0.04	0.46	38.40	13.50	58.20	17.15	1.40	0.22	0.13	0.07	0.01	
5	0.05	0.04	7.04	21.70	67.20	74.20	15.90	1.20	0.22	0.12	0.07	0.01	
6	0.04	0.04	1.50	11.30	35.40	39.60	14.30	1.00	0.21	0.12	0.07	0.00	
7	0.04	0.04	0.90	7.58	33.00	26.70	11.65	1.00	0.20	0.12	0.06	0.00	
8	0.05	0.06	1.00	7.58	21.70	28.20	9.55	0.95	0.21	0.12	0.06	0.00	
9	0.06	0.06	5.50	7.58	16.70	22.70	8.66	0.90	0.20	0.12	0.06	0.00	
10	0.10	0.07	6.00	13.50	13.50	21.70	7.85	0.85	0.20	0.12	0.05	0.00	
11	0.09	0.13	5.75	10.25	10.60	23.70	6.50	0.80	0.20	0.12	0.05	0.00	
12	0.09	0.30	7.04	43.80	8.93	24.20	5.75	0.55	0.20	0.12	0.05	0.04	
13	0.08	0.27	7.04	14.30	19.40	18.50	7.58	0.65	0.20	0.11	0.04	0.04	
14	0.08	0.24	4.25	8.39	44.40	22.70	8.12	0.55	0.20	0.11	0.04	0.03	
15	0.07	0.22	2.60	11.30	27.70	39.60	6.77	0.48	0.20	0.11	0.04	0.03	
16	0.07	0.23	1.70	35.40	17.15	80.00	6.00	0.42	0.20	0.11	0.03	0.02	
17	0.07	0.36	1.20	33.60	13.10	46.80	5.75	0.40	0.20	0.11	0.03	0.02	
18	0.07	0.30	3.00	64.95	12.35	26.20	5.75	0.40	0.20	0.11	0.03	0.01	
19	0.07	0.29	8.66	27.20	11.65	18.50	6.77	0.38	0.20	0.10	0.03	0.01	
20	0.06	1.50	5.75	34.80	13.90	15.90	7.85	0.36	0.20	0.10	0.03	0.01	
21	0.06	0.60	4.00	16.30	36.00	31.80	7.58	0.34	0.20	0.10	0.03	0.00	
22	0.06	0.40	2.60	11.65	74.20	27.20	5.75	0.34	0.19	0.10	0.02	0.00	
23	0.05	0.36	1.80	9.90	28.20	28.20	5.00	0.30	0.18	0.10	0.02	0.00	
24	0.04	0.30	1.40	8.12	20.30	22.20	4.25	0.29	0.18	0.10	0.02	0.00	
25	0.04	0.26	1.40	15.90	28.70	17.60	3.60	0.28	0.17	0.10	0.01	0.00	
26	0.06	0.24	2.80	48.00	36.00	15.10	3.20	0.27	0.17	0.10	0.01	0.00	
27	0.07	0.22	1.20	20.30	29.70	19.40	3.20	0.27	0.17	0.09	0.01	0.00	
28	0.07	0.22	1.00	13.10	53.40	14.30	3.00	0.27	0.16	0.09	0.01	0.00	
29	0.06	0.25	0.90	14.30	61.20	10.95	2.80	0.27	0.15	0.09	0.02	0.00	
30	0.06	0.26	3.40	26.70	36.60	12.35	2.40	0.27	0.14	0.09		0.00	
31		0.23		22.70	47.40		2.00		0.13	0.08		0.00	
Total	1.88	7.70	90.67	637.92	899.03	999.40	235.23	19.99	6.05	3.38	1.20	0.29	2902.74 CMSDAY
Mean	0.06	0.25	3.02	20.58	29.00	33.31	7.59	0.67	0.20	0.11	0.04	0.01	7.93 CMS
Max	0.10	1.50	8.66	64.95	74.20	105.20	17.15	1.70	0.26	0.13	0.08	0.04	105.20 CMS
Min	0.04	0.04	0.24	7.04	8.93	10.95	2.00	0.27	0.13	0.08	0.01	0.00	0.00 CMS
Runoff	0.162	0.665	7.834	55.116	77.676	86.348	20.324	1.727	0.523	0.292	0.104	0.025	250.797 MCM

Momentary Peak 197.60 CMS, at 379.46 M (MSL), at 23.00 Hours, on Sep 15, 1995
Runoff Yield 61.96 Liters/Second/Square KM, Momentary Peak Yield 1543.750 Liters/Second/Square KM

WATER YEAR 1995

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 because of backwater effect.

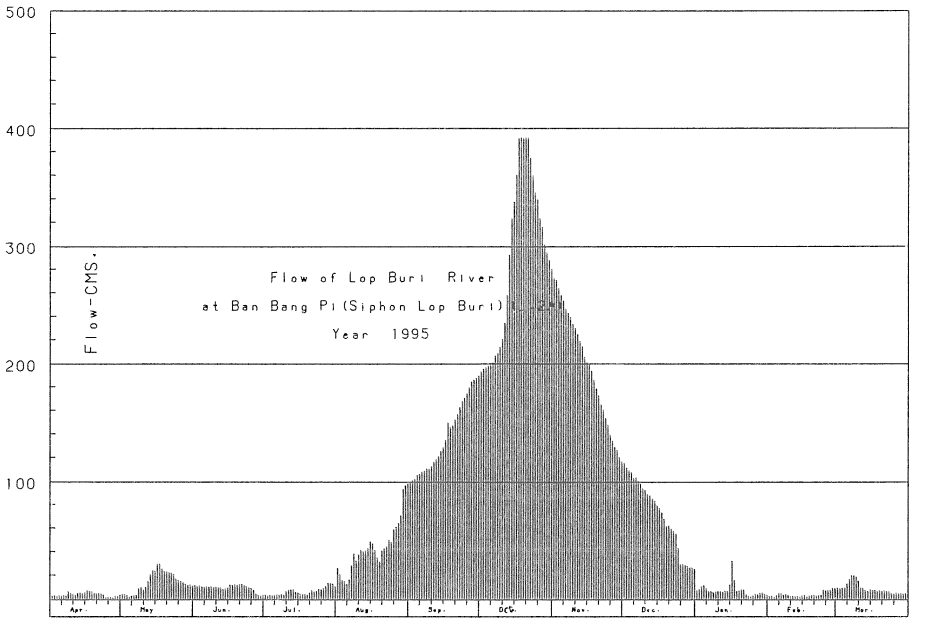
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Flow regulated by Mani Chonlakhan Regulator. Stage-discharge relation defined by 17 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.96	2.26	3.04	2.06	3.91	6.42	8.03	8.69	6.80	2.57	1.99	2.85	
2	1.96	2.21	3.04	2.04	3.62	6.45	8.05	8.68	6.70	2.77	1.93	2.84	
3	1.96	2.04	3.02	2.06	3.35	6.49	8.07	8.64	6.66	2.95	1.84	2.82	
4	1.96	1.83	2.99	2.06	3.27	6.56	8.08	8.61	6.61	3.08	2.00	2.90	
5	1.99	1.94	2.94	2.10	3.16	6.59	8.09	8.58	6.51	2.80	2.40	3.14	
6	2.03	1.98	2.94	2.16	3.35	6.62	8.12	8.53	6.51	2.57	2.30	3.42	
7	2.03	2.17	2.94	2.16	4.01	6.65	8.18	8.51	6.45	2.51	2.21	3.57	
8	2.49	2.73	2.95	2.16	4.45	6.68	8.21	8.48	6.38	2.46	2.21	3.59	
9	2.38	2.94	2.94	2.16	4.18	6.69	8.26	8.44	6.30	2.49	2.15	3.51	
10	2.15	2.70	2.91	2.49	4.44	6.72	8.33	8.41	6.25	2.60	1.97	3.34	
11	2.16	2.89	2.90	2.64	4.57	6.81	8.44	8.37	6.18	2.50	1.96	2.97	
12	2.37	3.31	2.85	2.72	4.56	6.85	8.61	8.31	6.13	2.51	1.93	2.84	
13	2.36	3.64	2.75	2.70	4.56	6.91	8.79	8.27	6.08	2.57	1.90	2.60	
14	2.34	3.82	2.75	2.51	4.67	6.98	8.92	8.17	6.02	2.60	1.90	2.56	
15	2.38	3.76	2.86	2.42	4.91	7.05	8.97	8.12	5.93	3.09	1.96	2.70	
16	2.57	4.07	3.08	2.26	4.81	7.15	9.04	8.09	5.86	4.17	2.07	2.69	
17	2.60	4.05	3.09	2.26	4.60	7.42	9.12	8.04	5.77	3.37	1.92	2.65	
18	2.50	3.86	3.09	2.18	4.30	7.34	9.12	7.93	5.60	2.59	1.97	2.59	
19	2.38	3.75	3.08	2.17	4.16	7.38	9.12	7.84	5.39	2.60	2.13	2.60	
20	2.33	3.74	3.10	2.37	4.56	7.45	9.12	7.75	5.39	2.73	2.11	2.60	
21	2.30	3.73	3.13	2.60	4.64	7.53	9.12	7.65	5.32	2.68	2.04	2.60	
22	2.30	3.70	3.10	2.51	4.73	7.61	9.08	7.58	5.23	2.23	1.98	2.58	
23	2.06	3.62	2.95	2.60	4.96	7.69	9.04	7.48	5.17	1.93	2.18	2.50	
24	1.75	3.42	2.90	2.71	4.87	7.72	9.00	7.38	4.65	1.92	2.63	2.35	
25	1.68	3.33	2.80	2.73	5.29	7.78	8.98	7.24	4.05	2.07	2.64	2.32	
26	1.70	3.28	2.68	2.79	5.35	7.85	8.92	7.14	4.04	2.24	2.63	2.36	
27	1.70	3.22	2.32	3.01	5.49	7.91	8.89	7.06	4.03	2.24	2.70	2.34	
28	1.94	3.13	2.08	3.18	5.68	7.94	8.83	7.00	3.97	2.37	2.81	2.30	
29	1.94	3.08	2.00	3.21	6.28	7.95	8.80	6.90	3.92	2.44	2.84	2.32	
30	2.06	3.07	2.05	3.14	6.34	7.98	8.77	6.81	3.90	2.24		2.30	
31		3.05		3.01	6.38		8.73		3.87	2.12		2.29	
Mean	2.14	3.11	2.84	2.49	4.63	7.17	8.67	7.96	5.54	2.58	2.18	2.74	
Max	2.60	4.07	3.13	3.21	6.38	7.98	9.12	8.69	6.80	4.17	2.84	3.59	9.12
Min	1.68	1.83	2.00	2.04	3.16	6.42	8.03	6.81	3.87	1.92	1.84	2.29	1.68

Annual Max Momentary Gage Height 9.12 M (MSL), at 6.00 Hours, on Sep 17, 1995
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 0.74 M (MSL)
Left Bank Elevation 11.28 M (MSL)
Right Bank Elevation 11.04 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.26	4.92	12.02	3.78	27.16	99.97	194.11	273.24	116.75	7.45	3.42	10.07	
2	3.26	4.57	12.02	3.67	21.38	101.18	195.85	271.48	112.00	9.32	3.10	9.98	
3	3.26	3.67	11.76	3.78	16.65	102.80	197.59	264.44	110.20	11.03	2.64	9.79	
4	3.26	2.59	11.40	3.78	15.32	105.78	198.46	259.16	107.95	12.54	3.47	10.55	
5	3.42	3.16	10.93	3.98	13.64	107.07	199.33	254.42	103.63	9.60	6.00	13.36	
6	3.62	3.36	10.93	4.29	16.65	108.40	201.94	246.97	103.63	7.45	5.20	17.85	
7	3.62	4.35	10.93	4.29	29.22	109.75	207.16	243.99	101.18	6.94	4.57	20.47	
8	6.77	8.94	11.03	4.29	38.86	111.10	209.85	239.90	98.35	6.51	4.57	20.82	
9	5.84	10.93	10.93	4.29	32.87	111.55	214.60	234.70	95.12	6.77	4.24	19.42	
10	4.24	8.65	10.65	6.77	38.64	112.95	221.73	230.80	93.10	7.70	3.31	16.48	
11	4.29	10.46	10.55	8.08	41.53	117.22	234.70	226.17	90.27	6.85	3.26	11.22	
12	5.76	15.97	10.07	8.84	41.31	119.12	259.16	219.51	88.25	6.94	3.10	9.98	
13	5.68	21.76	9.13	8.65	41.31	122.05	292.73	215.55	86.23	7.45	2.95	7.70	
14	5.52	25.31	9.13	6.94	43.86	125.90	324.40	206.29	83.81	7.70	2.95	7.36	
15	5.84	24.10	10.17	6.17	49.56	129.81	337.90	201.94	80.37	12.67	3.26	8.65	
16	7.45	30.51	12.54	4.92	47.17	135.44	360.80	199.33	77.75	32.66	3.83	8.56	
17	7.70	30.08	12.67	4.92	42.20	150.80	392.40	194.98	74.45	16.99	3.05	8.18	
18	6.85	26.13	12.67	4.40	35.53	146.13	392.40	186.42	68.60	7.61	3.31	7.61	
19	5.84	23.90	12.54	4.35	32.44	148.38	392.40	179.90	62.67	7.70	4.14	7.70	
20	5.44	23.70	12.80	5.76	41.31	152.75	392.40	173.38	62.67	8.94	4.03	7.70	
21	5.20	23.50	13.22	7.70	43.15	157.95	392.40	166.13	60.69	8.46	3.67	7.70	
22	5.20	22.90	12.80	6.94	45.28	163.23	375.60	161.20	58.15	4.71	3.36	7.53	
23	3.78	21.38	11.03	7.70	50.86	169.03	360.80	154.70	56.49	3.10	4.40	6.85	
24	2.18	17.85	10.55	8.75	48.59	171.20	346.00	148.38	43.38	3.05	7.99	5.60	
25	1.81	16.31	9.60	8.94	59.84	175.55	340.60	140.50	30.08	3.83	8.08	5.36	
26	1.92	15.48	8.46	9.51	61.54	180.63	324.40	134.87	29.86	4.78	7.99	5.68	
27	1.92	14.52	5.36	11.63	65.49	184.97	316.57	130.38	29.65	4.78	8.65	5.52	
28	3.16	13.22	3.88	13.92	71.32	187.15	301.99	127.00	28.38	5.76	9.69	5.20	
29	3.16	12.54	3.47	14.36	94.31	187.87	294.70	121.50	27.36	6.34	9.98	5.36	
30	3.78	12.41	3.72	13.36	96.74	190.05	288.79	117.22	26.95	4.78		5.20	
31		12.15		11.63	98.35		280.91		26.33	4.09		5.13	
Total	133.03	469.32	306.96	220.39	1402.08	4185.78	9042.67	5924.45	2234.30	254.50	138.21	298.58	24610.27 CMSDAY
Mean	4.43	15.14	10.23	7.11	45.23	139.53	291.70	197.48	72.07	8.21	4.77	9.63	67.24 CMS
Max	7.70	30.51	13.22	14.36	98.35	190.05	392.40	273.24	116.75	32.66	9.98	20.82	392.40 CMS
Min	1.81	2.59	3.47	3.67	13.64	99.97	194.11	117.22	26.33	3.05	2.64	5.13	1.81 CMS
Runoff	11.494	40.549	26.521	19.042	121.140	361.651	781.287	511.872	193.044	21.989	11.941	25.797	2126.328 MCM

Momentary Peak 392.40 CMS, at 9.12 M (MSL), at 6.00 Hours, on Sep 17, 1995

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

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

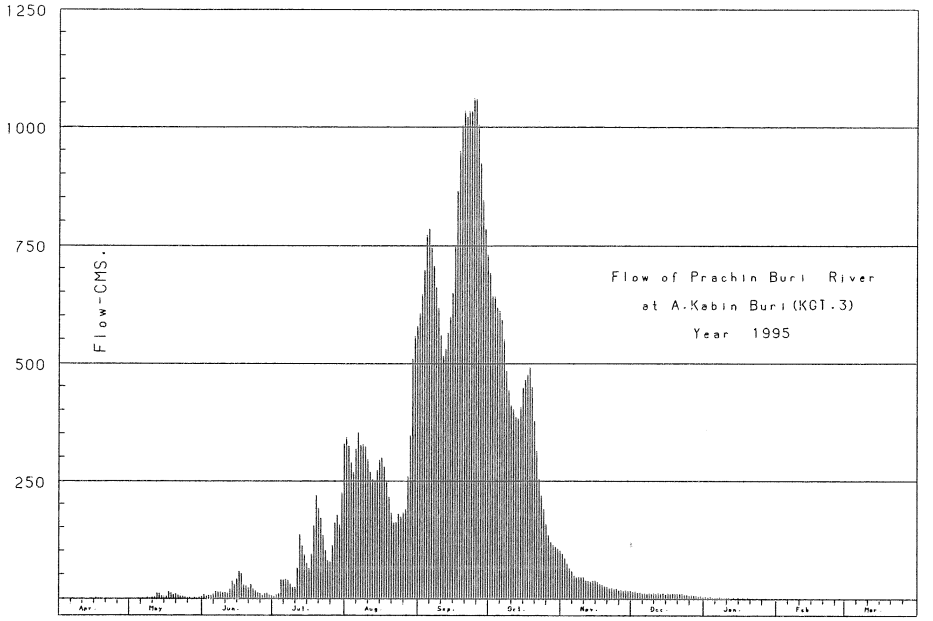
Prachin Buri River at Kabin Buri, Prachin Buri (Kgt.3)

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 34 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.31	0.89	0.72	7.25	9.54	9.92	3.25	1.21	0.69	0.43	0.28	
2	0.36	0.31	0.79	0.84	7.00	9.73	9.72	3.03	1.19	0.67	0.43	0.28	
3	0.36	0.34	0.79	1.06	6.51	9.94	9.71	2.84	1.17	0.65	0.43	0.28	
4	0.36	0.39	0.86	1.96	6.20	10.15	9.60	2.57	1.12	0.63	0.43	0.28	
5	0.37	0.44	1.00	1.98	6.91	10.19	9.56	2.44	1.09	0.60	0.42	0.28	
6	0.37	0.45	1.18	1.97	7.39	10.08	9.47	2.17	1.07	0.58	0.42	0.28	
7	0.37	0.46	1.16	1.94	7.04	9.96	9.21	2.13	1.05	0.57	0.42	0.28	
8	0.37	0.47	1.12	1.69	7.06	9.81	8.76	2.12	1.03	0.57	0.39	0.27	
9	0.37	0.48	1.15	1.51	7.00	9.59	8.33	2.12	1.03	0.54	0.37	0.27	
10	0.37	0.48	1.08	1.47	6.60	9.27	8.03	2.11	1.03	0.55	0.35	0.27	
11	0.38	0.70	1.09	2.61	6.23	8.97	7.92	1.96	1.03	0.54	0.34	0.27	
12	0.38	1.11	1.32	4.04	5.98	9.08	7.76	1.91	1.05	0.53	0.33	0.27	
13	0.38	0.99	1.87	3.61	5.94	9.30	7.70	1.90	1.04	0.52	0.33	0.27	
14	0.40	0.76	1.74	3.17	6.27	9.50	7.98	1.90	1.03	0.49	0.32	0.27	
15	0.43	0.71	2.02	2.84	6.58	9.75	8.40	1.96	1.02	0.48	0.32	0.26	
16	0.46	0.74	2.42	2.54	6.65	10.09	8.55	1.85	1.03	0.48	0.32	0.26	
17	0.46	1.19	2.28	3.23	6.39	10.39	8.68	1.76	1.04	0.48	0.32	0.26	
18	0.44	1.06	1.65	4.35	5.94	10.55	8.81	1.65	1.01	0.47	0.31	0.26	
19	0.40	0.95	1.56	5.44	5.38	10.65	8.42	1.59	1.03	0.47	0.31	0.26	
20	0.40	0.95	1.43	5.00	4.83	10.70	7.67	1.53	1.02	0.46	0.30	0.26	
21	0.39	0.89	1.72	4.62	4.45	10.68	6.85	1.47	1.05	0.45	0.30	0.26	
22	0.35	0.76	1.39	4.03	4.50	10.70	6.02	1.44	1.00	0.44	0.29	0.25	
23	0.32	0.68	1.21	3.39	4.76	10.70	5.43	1.41	0.93	0.44	0.29	0.25	
24	0.31	0.62	1.15	2.93	4.68	10.74	4.96	1.39	0.89	0.44	0.29	0.25	
25	0.30	0.56	0.99	2.92	4.83	10.74	4.44	1.31	0.83	0.44	0.29	0.25	
26	0.30	0.51	0.87	3.57	4.94	10.65	4.02	1.31	0.85	0.44	0.29	0.25	
27	0.31	0.50	1.03	4.46	6.09	10.50	3.75	1.28	0.83	0.44	0.29	0.25	
28	0.34	0.53	1.07	4.75	7.29	10.34	3.61	1.26	0.78	0.44	0.29	0.25	
29	0.34	0.50	0.88	4.38	8.94	10.19	3.56	1.27	0.75	0.44	0.28	0.25	
30	0.32	0.48	0.75	5.53	9.25	10.03	3.43	1.22	0.74	0.44		0.25	
31		0.76		7.08	9.39		3.35		0.72	0.44		0.24	
Mean	0.37	0.65	1.28	3.21	6.40	10.08	7.21	1.87	0.99	0.51	0.34	0.26	
Max	0.46	1.19	2.42	7.08	9.39	10.74	9.92	3.25	1.21	0.69	0.43	0.28	10.74
Min	0.30	0.31	0.75	0.72	4.45	8.97	3.35	1.22	0.72	0.44	0.28	0.24	0.24

Annual Max Momentary Gage Height 10.75 M (MSL), at 15.00 Hours, on Sep 24, 1995
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed -0.83 M (MSL)
Left Bank Elevation 9.86 M (MSL)
Right Bank Elevation 9.46 M (MSL), Drainage Area 7502 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.6	1.1	8.8	5.4	344.0	608.0	692.0	96.5	16.3	4.9	2.3	0.8	
2	1.6	1.1	6.8	7.8	325.0	646.0	644.0	85.5	15.7	4.7	2.3	0.8	
3	1.6	1.4	6.8	12.2	290.7	699.0	642.0	76.0	15.1	4.5	2.3	0.8	
4	1.6	1.9	8.2	40.4	269.0	772.5	620.0	64.8	13.6	4.3	2.3	0.8	
5	1.7	2.4	11.0	41.2	318.7	786.5	612.0	59.6	12.8	4.0	2.2	0.8	
6	1.7	2.5	15.4	40.8	355.2	748.0	594.0	48.8	12.4	3.8	2.2	0.8	
7	1.7	2.6	14.8	39.6	327.8	706.0	551.5	47.2	12.0	3.7	2.2	0.8	
8	1.7	2.7	13.6	30.7	329.2	662.5	486.0	46.8	11.6	3.7	1.9	0.7	
9	1.7	2.8	14.5	25.3	325.0	618.0	443.0	46.8	11.6	3.4	1.7	0.7	
10	1.7	2.8	12.6	24.1	297.0	560.5	413.0	46.4	11.6	3.5	1.5	0.7	
11	1.8	5.0	12.8	66.4	271.1	515.5	402.8	40.4	11.6	3.4	1.4	0.7	
12	1.8	13.3	19.6	136.4	253.6	532.0	388.4	38.4	12.0	3.3	1.3	0.7	
13	1.8	10.8	36.8	114.5	250.8	565.0	383.0	38.0	11.8	3.2	1.3	0.7	
14	2.0	6.2	32.2	92.5	273.9	600.0	408.2	38.0	11.6	2.9	1.2	0.7	
15	2.3	5.2	42.8	76.0	295.6	650.0	450.0	40.4	11.4	2.8	1.2	0.6	
16	2.6	5.8	58.8	63.6	300.5	751.5	465.0	36.0	11.6	2.8	1.2	0.6	
17	2.6	15.7	53.2	95.5	282.3	866.0	478.0	32.8	11.8	2.8	1.2	0.6	
18	2.4	12.2	29.5	155.0	250.8	950.0	491.5	29.5	11.2	2.7	1.1	0.6	
19	2.0	10.0	26.8	220.4	216.8	1005.0	452.0	27.7	11.6	2.7	1.1	0.6	
20	2.0	10.0	22.9	194.0	183.8	1035.0	380.3	25.9	11.4	2.6	1.0	0.6	
21	1.9	8.8	31.6	171.2	161.0	1023.0	314.5	24.1	12.0	2.5	1.0	0.6	
22	1.5	6.2	21.7	135.8	164.0	1035.0	256.4	23.2	11.0	2.4	0.9	0.5	
23	1.2	4.8	16.3	103.5	179.6	1035.0	219.8	22.3	9.6	2.4	0.9	0.5	
24	1.1	4.2	14.5	80.5	174.8	1061.0	191.6	21.7	8.8	2.4	0.9	0.5	
25	1.0	3.6	10.8	80.0	183.8	1061.0	160.4	19.3	7.6	2.4	0.9	0.5	
26	1.0	3.1	8.4	112.5	190.4	1005.0	135.2	19.3	8.0	2.4	0.9	0.5	
27	1.1	3.0	11.6	161.6	261.3	925.0	121.5	18.4	7.6	2.4	0.9	0.5	
28	1.4	3.3	12.4	179.0	347.2	846.0	114.5	17.8	6.6	2.4	0.9	0.5	
29	1.4	3.0	8.6	156.8	511.0	786.5	112.0	18.1	6.0	2.4	0.8	0.5	
30	1.2	2.8	6.0	225.8	557.5	730.5	105.5	16.6	5.8	2.4		0.5	
31		6.2		330.6	578.5		101.5		5.4	2.4		0.4	
Total	50.7	164.5	589.8	3219.1	9069.9	23785.0	11829.6	1166.3	337.1	96.2	41.0	19.6	50368.8 CMSDAY
Mean	1.7	5.3	19.7	103.8	292.6	792.8	381.6	38.9	10.9	3.1	1.4	0.6	137.6 CMS
Max	2.6	15.7	58.8	330.6	578.5	1061.0	692.0	96.5	16.3	4.9	2.3	0.8	1061.0 CMS
Min	1.0	1.1	6.0	5.4	161.0	515.5	101.5	16.6	5.4	2.4	0.8	0.4	0.4 CMS
Runoff	4.38	14.21	50.96	278.13	783.64	2055.02	1022.08	100.77	29.13	8.31	3.54	1.69	4351.86 MCM

Momentary Peak 1067.50 CMS, at 10.75 M (MSL), at 15.00 Hours, on Sep 24, 1995

Runoff Yield 18.34 Liters/Second/Square KM, Momentary Peak Yield 142.30 Liters/Second/Square KM

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

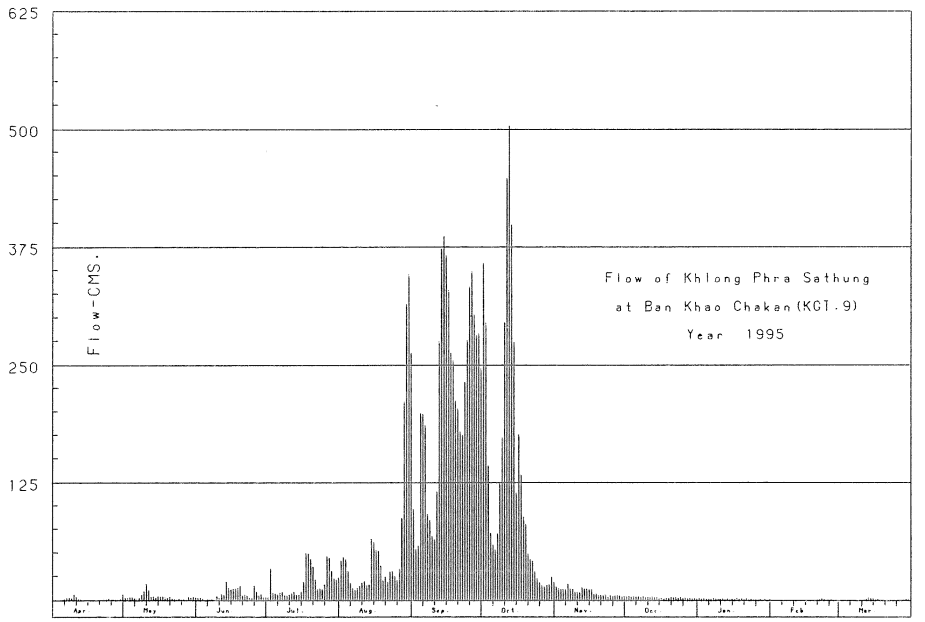
Khlong Phra Sathung at Ban Khao Chakan, Sa Kaeo (Kgt.9)

Location	Lat. 13-40-10 N., Long. 102-04-35 E., on right bank near Wat 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	On right bank about 10 meters from 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, 1989 to date.
Rated by Float	-
Rated by Current Meter	1969-1970, 1989 to date.
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation +8.92 m.(A.D.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 1995.

Gage Height in Meter (AD.), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.19	0.53	0.43	0.49	2.31	3.84	8.70	1.32	0.67	0.42	0.31	0.28	
2	0.18	0.45	0.54	2.05	2.45	2.70	7.63	1.20	0.66	0.42	0.30	0.28	
3	0.18	0.59	0.40	0.94	2.35	2.85	4.87	1.18	0.64	0.42	0.29	0.28	
4	0.17	0.54	0.31	0.93	1.95	5.97	3.21	1.16	0.63	0.42	0.28	0.30	
5	0.38	0.44	0.33	0.86	1.50	5.97	2.88	1.12	0.62	0.42	0.27	0.30	
6	0.44	0.42	0.35	0.95	1.18	5.72	2.69	1.45	0.60	0.42	0.26	0.34	
7	0.53	0.50	0.30	1.02	1.12	3.73	3.21	1.19	0.60	0.42	0.30	0.30	
8	0.41	0.85	0.29	0.73	1.20	3.55	4.49	1.15	0.60	0.43	0.28	0.29	
9	0.87	1.02	0.69	0.75	1.35	3.14	5.47	1.02	0.59	0.41	0.28	0.28	
10	0.54	1.43	0.45	0.78	1.47	3.04	7.65	0.99	0.58	0.40	0.28	0.27	
11	0.41	1.11	0.85	0.95	1.59	4.32	10.13	0.99	0.58	0.40	0.27	0.29	
12	0.34	0.62	0.82	0.99	1.33	7.30	10.93	1.23	0.58	0.39	0.27	0.42	
13	0.30	0.60	1.54	0.83	1.42	8.95	9.38	1.19	0.58	0.38	0.26	0.50	
14	0.28	0.52	1.25	0.76	3.05	9.18	7.30	1.16	0.54	0.37	0.26	0.47	
15	0.31	0.63	1.14	1.03	2.98	8.82	4.28	1.15	0.45	0.36	0.26	0.39	
16	0.26	0.60	1.16	1.55	2.68	8.21	5.52	1.13	0.45	0.40	0.25	0.38	
17	0.24	0.65	1.20	2.56	2.67	7.11	4.68	0.90	0.45	0.45	0.25	0.35	
18	0.22	0.55	1.22	2.57	2.12	6.96	3.64	0.88	0.45	0.42	0.25	0.34	
19	0.20	0.50	1.35	2.36	1.62	6.25	3.46	0.79	0.48	0.40	0.33	0.30	
20	0.24	0.59	0.76	2.12	1.73	6.07	2.55	0.78	0.54	0.40	0.38	0.28	
21	0.24	0.45	0.77	1.63	1.53	5.58	2.38	0.78	0.56	0.40	0.38	0.25	
22	0.40	0.37	0.74	1.17	1.93	5.52	2.30	0.80	0.53	0.39	0.39	0.21	
23	0.38	0.35	0.48	1.16	1.93	6.59	1.94	0.60	0.51	0.37	0.40	0.22	
24	0.37	0.36	0.49	1.16	1.77	7.32	1.68	0.74	0.56	0.36	0.35	0.25	
25	0.36	0.35	1.32	1.39	1.60	8.28	1.53	0.70	0.49	0.36	0.35	0.24	
26	0.31	0.34	1.04	2.45	2.03	8.54	1.33	0.70	0.47	0.36	0.33	0.21	
27	0.26	0.33	0.77	2.42	3.62	7.79	1.30	0.80	0.45	0.35	0.30	0.18	
28	0.29	0.60	0.83	1.96	6.23	7.42	1.35	0.69	0.44	0.35	0.27	0.35	
29	0.39	0.47	0.56	1.67	7.97	7.44	1.42	0.66	0.44	0.34	0.28	0.33	
30	0.83	0.61	0.50	1.65	8.49	6.82	1.73	0.66	0.43	0.33		0.41	
31		0.48		1.70	7.11		1.53		0.42	0.32		0.39	
Mean	0.35	0.58	0.76	1.41	2.65	6.17	4.23	0.97	0.54	0.39	0.30	0.31	
Max	0.87	1.43	1.54	2.57	8.49	9.18	10.93	1.45	0.67	0.45	0.40	0.50	10.93
Min	0.17	0.33	0.29	0.49	1.12	2.70	1.30	0.60	0.42	0.32	0.25	0.18	0.17

Annual Max Momentary Gage Height 10.98 M (AD.), at 18.00 Hours, on Oct 12, 1995
Zero Gage at Bottom Elevation 0.00 M (AD.), River Bed -0.52 M (AD.)
Left Bank Elevation 8.90 M (AD.)
Right Bank Elevation 11.00 M (AD.), Drainage Area 2279 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	3.30	2.30	2.90	42.30	96.60	359.00	15.40	4.70	2.20	1.10	0.80	
2	0.00	2.50	3.40	34.50	46.50	54.00	294.80	13.00	4.60	2.20	1.00	0.80	
3	0.00	3.90	2.00	7.80	43.50	58.50	143.50	12.60	4.40	2.20	0.90	0.80	
4	0.00	3.40	1.10	7.60	31.50	198.50	71.40	12.20	4.30	2.20	0.80	1.00	
5	1.80	2.40	1.30	6.60	19.00	198.50	59.40	11.40	4.20	2.20	0.70	1.00	
6	2.40	2.20	1.50	8.00	12.60	186.00	53.70	18.00	4.00	2.20	0.60	1.40	
7	3.30	3.00	1.00	9.40	11.40	92.20	71.40	12.80	4.00	2.20	1.00	1.00	
8	2.10	6.50	0.90	5.30	13.00	85.00	124.50	12.00	4.00	2.30	0.80	0.90	
9	6.70	9.40	4.90	5.50	16.00	68.60	173.50	9.40	3.90	2.10	0.80	0.80	
10	3.40	17.60	2.50	5.80	18.40	64.60	296.00	8.80	3.80	2.00	0.80	0.70	
11	2.10	11.20	6.50	8.00	20.80	116.00	448.10	8.80	3.80	2.00	0.70	0.90	
12	1.40	4.20	6.20	8.80	15.60	275.00	504.10	13.60	3.80	1.90	0.70	2.20	
13	1.00	4.00	19.80	6.30	17.40	374.00	399.80	12.80	3.80	1.80	0.60	3.00	
14	0.80	3.20	14.00	5.60	65.00	387.80	275.00	12.20	3.40	1.70	0.60	2.70	
15	1.10	4.30	11.80	9.60	62.40	366.20	114.20	12.00	2.50	1.60	0.60	1.90	
16	0.60	4.00	12.20	20.00	53.40	329.60	176.00	11.60	2.50	2.00	0.50	1.80	
17	0.40	4.50	13.00	49.80	53.10	263.60	134.00	7.00	2.50	2.50	0.50	1.50	
18	0.20	3.50	13.40	50.10	36.60	254.60	88.60	6.80	2.50	2.20	0.50	1.40	
19	0.00	3.00	16.00	43.80	21.60	212.50	81.40	5.90	2.80	2.00	1.30	1.00	
20	0.40	3.90	5.60	36.60	24.90	203.50	49.50	5.80	3.40	2.00	1.80	0.80	
21	0.40	2.50	5.70	21.90	19.60	179.00	44.40	5.80	3.60	2.00	1.80	0.50	
22	2.00	1.70	5.40	12.40	30.90	176.00	42.00	6.00	3.30	1.90	1.90	0.10	
23	1.80	1.50	2.80	12.20	30.90	232.40	31.20	4.00	3.10	1.70	2.00	0.20	
24	1.70	1.60	2.90	12.20	26.10	276.20	23.40	5.40	3.60	1.60	1.50	0.50	
25	1.60	1.50	15.40	16.80	21.00	333.80	19.60	5.00	2.90	1.60	1.50	0.40	
26	1.10	1.40	9.80	46.50	33.90	349.40	15.60	5.00	2.70	1.60	1.30	0.10	
27	0.60	1.30	5.70	45.60	87.80	304.40	15.00	6.00	2.50	1.50	1.00	0.00	
28	0.90	4.00	6.30	31.80	211.50	282.20	16.00	4.90	2.40	1.50	0.70	1.50	
29	1.90	2.70	3.60	23.10	315.20	283.40	17.40	4.60	2.40	1.40	0.80	1.30	
30	6.30	4.10	3.00	22.50	346.40	246.20	24.90	4.60	2.30	1.30		2.10	
31		2.80		24.00	263.60		19.60		2.20	1.20		1.90	
Total	46.00	125.10	200.00	601.00	2011.90	6548.30	4187.00	273.40	103.90	58.80	28.80	35.00	14219.20 CMSDAY
Mean	1.53	4.04	6.67	19.39	64.90	218.28	135.06	9.11	3.35	1.90	0.99	1.13	38.85 CMS
Max	6.70	17.60	19.80	50.10	346.40	387.80	504.10	18.00	4.70	2.50	2.00	3.00	504.10 CMS
Min	0.00	1.30	0.90	2.90	11.40	54.00	15.00	4.00	2.20	1.20	0.50	0.00	0.00 CMS
Runoff	3.974	10.809	17.280	51.926	173.828	565.773	361.757	23.622	8.977	5.080	2.488	3.024	1228.539 MCM

Momentary Peak 507.60 CMS, at 10.98 M (AD.), at 18.00 Hours, on Oct 12, 1995
Runoff Yield 17.05 Liters/Second/Square KM, Momentary Peak Yield 222.729 Liters/Second/Square KM

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

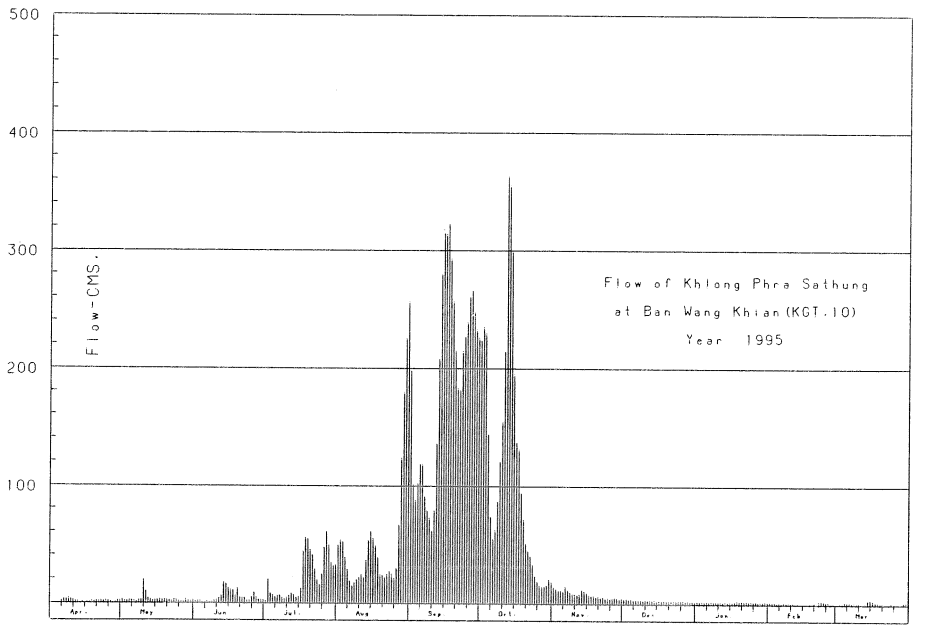
Khlong Phra Sathung at Ban Wang Khian, Sa Kaeo (Kgt.10)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 62 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.89	25.30	25.05	25.18	28.97	34.18	34.54	26.57	25.47	25.15	25.08	24.91	
2	24.89	25.13	25.18	27.12	29.19	31.51	34.68	26.39	25.45	25.15	25.08	24.94	
3	24.88	25.15	25.12	26.05	29.13	30.92	34.62	26.31	25.42	25.15	25.06	25.00	
4	24.88	25.21	25.01	25.87	28.36	31.58	33.05	26.27	25.40	25.15	25.05	25.13	
5	25.09	25.21	24.98	25.65	27.78	32.21	30.29	26.24	25.35	25.14	25.04	25.12	
6	25.34	25.09	25.07	25.75	27.00	32.20	29.27	26.58	25.33	25.14	25.02	25.07	
7	25.34	25.07	25.02	25.85	26.63	31.07	29.66	26.35	25.33	25.15	25.04	25.05	
8	25.43	25.19	24.99	25.51	26.83	30.52	30.85	26.14	25.33	25.16	25.05	25.06	
9	25.35	25.29	25.19	25.44	27.10	30.23	32.29	26.05	25.32	25.14	25.03	25.02	
10	25.18	27.05	25.25	25.60	27.22	29.65	33.31	25.99	25.33	25.12	25.04	25.03	
11	25.10	26.22	25.43	25.75	27.43	30.51	34.41	25.96	25.32	25.10	24.99	24.96	
12	25.02	25.47	25.81	26.06	27.25	32.81	35.53	25.98	25.32	25.08	24.98	24.96	
13	25.00	25.27	26.89	25.84	28.24	34.31	35.49	26.38	25.32	25.07	24.97	25.04	
14	24.98	25.21	26.78	25.57	29.18	35.04	35.16	26.23	25.31	25.08	24.96	25.39	
15	24.97	25.18	26.45	25.62	29.62	35.26	34.13	26.13	25.21	25.08	24.92	25.41	
16	24.98	25.27	26.30	26.41	29.27	35.25	32.84	25.90	25.20	25.06	24.92	25.30	
17	25.04	25.31	26.29	28.67	28.92	35.31	32.65	25.85	25.27	25.15	24.94	25.15	
18	25.07	25.30	25.75	29.30	28.39	35.12	31.21	25.81	25.25	25.24	24.96	25.06	
19	25.09	25.27	26.41	29.26	27.41	34.89	30.16	25.71	25.25	25.20	25.02	25.05	
20	25.10	25.26	25.59	28.73	27.40	34.42	29.06	25.75	25.24	25.18	25.08	25.02	
21	25.11	25.24	25.50	28.50	27.24	33.90	28.67	25.63	25.22	25.17	25.21	24.98	
22	25.12	25.13	25.55	27.80	27.44	33.88	28.45	25.66	25.22	25.18	25.23	24.94	
23	25.13	25.28	25.20	27.05	27.64	34.41	28.03	25.52	25.22	25.15	25.25	24.91	
24	25.14	25.29	25.15	26.74	27.46	34.59	27.37	25.55	25.21	25.14	25.23	25.01	
25	25.13	25.06	25.65	27.47	27.19	34.72	27.01	25.51	25.25	25.14	25.16	24.97	
26	25.01	25.05	26.11	28.83	27.86	34.92	26.66	25.49	25.20	25.11	25.11	24.93	
27	24.98	25.08	25.57	29.60	29.92	34.96	26.59	25.67	25.18	25.09	24.97	24.90	
28	24.96	25.32	25.33	28.94	32.39	34.81	26.56	25.50	25.17	25.09	24.95	24.94	
29	25.20	25.18	25.26	28.15	33.84	34.66	26.71	25.46	25.16	25.12	24.94	25.10	
30	25.17	25.08	25.20	27.96	34.57	34.57	27.12	25.48	25.15	25.12		25.08	
31		25.29		28.00	34.89		26.93		25.15	25.10		25.34	
Mean	25.09	25.30	25.57	27.04	28.77	33.41	30.75	25.94	25.28	25.13	25.04	25.06	
Max	25.43	27.05	26.89	29.60	34.89	35.31	35.53	26.58	25.47	25.24	25.25	25.41	35.53
Min	24.88	25.05	24.98	25.18	26.63	29.65	26.56	25.46	25.15	25.06	24.92	24.90	24.88

Annual Max Momentary Gage Height 35.74 M (MSL), at 18.00 Hours, on Oct 12, 1995
Zero Gage at Bottom Elevation 23.74 M (MSL), River Bed 24.23 M (MSL)
Left Bank Elevation 35.81 M (MSL)
Right Bank Elevation 35.75 M (MSL), Drainage Area 2523 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	3.50	1.75	2.66	50.06	198.60	223.80	14.67	4.69	2.45	1.96	0.77	
2	0.63	2.31	2.66	20.74	54.02	101.12	235.20	12.69	4.55	2.45	1.96	0.98	
3	0.56	2.45	2.24	9.00	52.94	88.14	229.80	11.81	4.34	2.45	1.82	1.40	
4	0.56	2.87	1.47	7.49	39.08	102.66	144.30	11.37	4.20	2.45	1.75	2.31	
5	2.03	2.87	1.26	5.95	28.90	119.07	74.39	11.04	3.85	2.38	1.68	2.24	
6	3.78	2.03	1.89	6.65	19.40	118.80	55.46	14.78	3.71	2.38	1.54	1.89	
7	3.78	1.89	1.54	7.35	15.33	91.44	62.48	12.25	3.71	2.45	1.68	1.75	
8	4.41	2.73	1.33	4.97	17.53	79.34	86.60	9.94	3.71	2.52	1.75	1.82	
9	3.85	3.43	2.73	4.48	20.50	73.13	121.23	9.00	3.64	2.38	1.61	1.54	
10	2.66	19.95	3.15	5.60	21.96	62.30	154.40	8.42	3.71	2.24	1.68	1.61	
11	2.10	10.82	4.41	6.65	24.72	79.12	214.70	8.18	3.64	2.10	1.33	1.12	
12	1.54	4.69	7.07	9.10	22.35	136.52	364.00	8.34	3.64	1.96	1.26	1.12	
13	1.40	3.29	18.19	7.28	36.92	207.70	356.00	12.58	3.64	1.89	1.19	1.68	
14	1.26	2.87	16.98	5.39	53.84	280.40	299.60	10.93	3.57	1.96	1.12	4.13	
15	1.19	2.66	13.35	5.74	61.76	315.60	195.10	9.83	2.87	1.96	0.84	4.27	
16	1.26	3.29	11.70	12.91	55.46	314.00	137.48	7.70	2.80	1.82	0.84	3.50	
17	1.68	3.57	11.59	44.66	49.16	323.60	131.40	7.35	3.29	2.45	0.98	2.45	
18	1.89	3.50	6.65	56.00	39.62	293.20	94.52	7.07	3.15	3.08	1.12	1.82	
19	2.03	3.29	12.91	55.28	24.44	256.90	71.66	6.37	3.15	2.80	1.54	1.75	
20	2.10	3.22	5.53	45.74	24.30	215.40	51.68	6.65	3.08	2.66	1.96	1.54	
21	2.17	3.08	4.90	41.60	22.22	183.00	44.66	5.81	2.94	2.59	2.87	1.26	
22	2.24	2.31	5.25	29.00	24.86	182.00	40.70	6.02	2.94	2.66	3.01	0.98	
23	2.31	3.36	2.80	19.95	27.66	214.70	33.14	5.04	2.94	2.45	3.15	0.77	
24	2.38	3.43	2.45	16.54	25.14	227.30	23.91	5.25	2.87	2.38	3.01	1.47	
25	2.31	1.82	5.95	25.28	21.58	239.00	19.51	4.97	3.15	2.38	2.52	1.19	
26	1.47	1.75	9.61	47.54	30.08	261.20	15.66	4.83	2.80	2.17	2.17	0.91	
27	1.26	1.96	5.39	61.40	67.16	267.60	14.89	6.09	2.66	2.03	1.19	0.70	
28	1.12	3.64	3.71	49.52	123.93	248.10	14.56	4.90	2.59	2.03	1.05	0.98	
29	2.80	2.66	3.22	35.30	180.00	233.40	16.21	4.62	2.52	2.24	0.98	2.10	
30	2.59	1.96	2.80	31.88	225.90	225.90	20.74	4.76	2.45	2.24		1.96	
31		3.43		32.60	256.90		18.63		2.45	2.10		3.78	
Total	59.99	114.63	174.48	714.25	1717.72	5739.24	3566.41	253.26	103.25	72.10	49.56	55.79	12620.68 CMSDAY
Mean	2.00	3.70	5.82	23.04	55.41	191.31	115.05	8.44	3.33	2.33	1.71	1.80	34.48 CMS
Max	4.41	19.95	18.19	61.40	256.90	323.60	364.00	14.78	4.69	3.08	3.15	4.27	364.00 CMS
Min	0.56	1.75	1.26	2.66	15.33	62.30	14.56	4.62	2.45	1.82	0.84	0.70	0.56 CMS
Runoff	5.183	9.904	15.075	61.711	148.411	495.870	308.138	21.882	8.921	6.229	4.282	4.820	1090.427 MCM

Momentary Peak 411.60 CMS, at 35.74 M (MSL), at 18.00 Hours, on Oct 12, 1995
Runoff Yield 13.67 Liters/Second/Square KM, Momentary Peak Yield 163.139 Liters/Second/Square KM

WATER YEAR 1995

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 +8.61 m.(A.D.) and is included.

General Description — Records good. Stage-discharge relation defined by 88 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

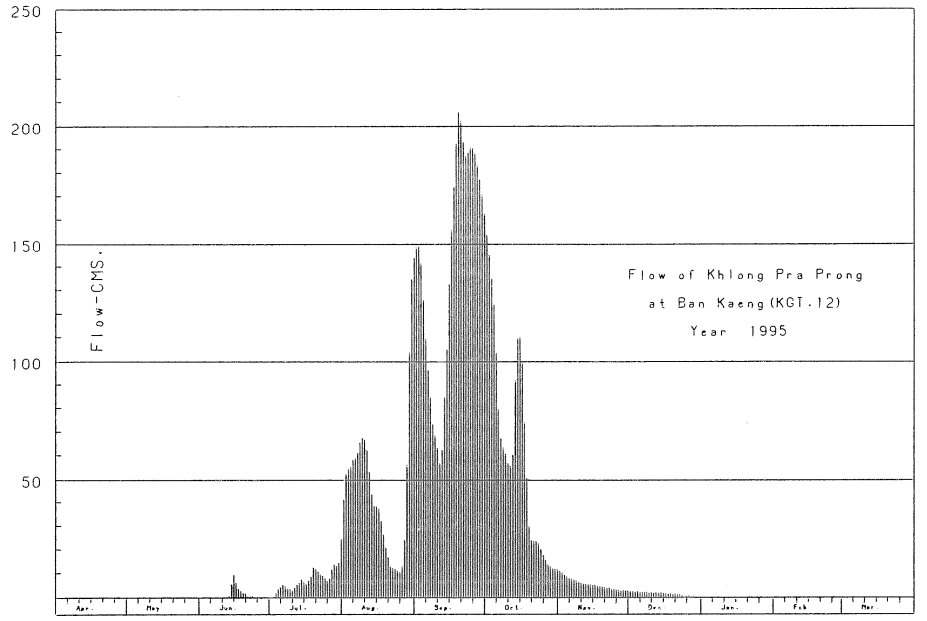
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.08	-0.08	-0.06	0.20	4.09	8.12	8.25	1.87	0.75	0.12	0.13	0.20	
2	-0.08	-0.08	-0.04	0.24	4.69	8.13	8.03	1.77	0.73	0.11	0.13	0.19	
3	-0.07	-0.07	-0.04	0.63	4.82	7.94	7.79	1.70	0.70	0.11	0.13	0.17	
4	-0.06	-0.01	-0.02	0.85	4.85	7.55	7.49	1.61	0.71	0.12	0.12	0.16	
5	-0.06	0.05	-0.01	1.00	5.02	7.06	6.86	1.55	0.68	0.14	0.11	0.13	
6	-0.06	0.05	-0.01	1.16	5.04	6.61	5.97	1.49	0.68	0.16	0.11	0.12	
7	-0.06	0.07	0.00	1.04	5.17	6.18	5.45	1.47	0.69	0.18	0.10	0.11	
8	0.06	0.08	0.01	0.92	5.36	5.72	5.26	1.40	0.68	0.18	0.09	0.10	
9	0.18	0.08	0.00	0.86	5.46	5.49	5.13	1.33	0.64	0.18	0.12	0.10	
10	0.14	0.07	0.08	0.80	5.41	5.25	4.95	1.24	0.63	0.18	0.13	0.10	
11	0.15	0.04	0.15	0.94	5.22	4.94	4.88	1.21	0.63	0.17	0.12	0.09	
12	0.16	0.01	0.27	1.15	4.74	5.22	5.12	1.18	0.63	0.17	0.07	0.08	
13	0.14	0.01	0.34	1.26	4.23	6.17	6.45	1.17	0.64	0.17	0.08	0.10	
14	0.11	0.01	1.19	1.46	3.90	6.91	7.07	1.15	0.63	0.16	0.08	0.09	
15	0.07	0.02	1.70	1.28	3.91	7.73	7.08	1.13	0.63	0.16	0.10	0.06	
16	0.05	0.04	1.24	1.19	3.84	8.30	6.71	1.12	0.58	0.16	0.06	0.06	
17	0.07	0.02	0.92	1.37	3.53	8.70	5.75	1.07	0.55	0.17	0.08	0.06	
18	0.04	0.00	0.73	1.63	3.14	9.08	4.62	1.04	0.55	0.17	0.09	0.06	
19	0.01	0.00	0.64	1.99	2.73	9.36	3.37	1.03	0.54	0.18	0.07	0.06	
20	0.00	0.00	0.57	1.95	2.38	9.28	2.99	0.99	0.55	0.18	0.05	0.05	
21	-0.02	-0.01	0.47	1.81	2.06	9.10	2.93	0.95	0.54	0.18	0.04	0.05	
22	-0.02	-0.04	0.38	1.72	1.98	8.97	2.95	0.95	0.48	0.18	0.21	0.04	
23	-0.04	-0.04	0.33	1.64	1.97	9.01	2.86	0.88	0.44	0.17	0.26	0.04	
24	-0.06	-0.04	0.29	1.54	1.86	9.05	2.68	0.86	0.41	0.14	0.27	0.04	
25	-0.06	-0.05	0.26	1.40	1.82	9.05	2.48	0.85	0.38	0.13	0.26	0.04	
26	-0.07	-0.05	0.22	1.50	2.10	9.00	2.28	0.81	0.36	0.15	0.26	0.04	
27	-0.07	-0.06	0.17	1.93	2.98	8.89	2.13	0.79	0.35	0.12	0.25	0.03	
28	-0.08	-0.06	0.20	2.12	4.90	8.77	2.03	0.79	0.33	0.09	0.23	0.03	
29	-0.08	-0.08	0.22	2.08	6.86	8.63	1.97	0.79	0.22	0.09	0.20	0.03	
30	-0.08	-0.07	0.20	2.17	7.78	8.46	1.93	0.77	0.17	0.09		0.02	
31		-0.06		3.00	8.01		1.91		0.14	0.12		0.01	
Mean	0.00	-0.01	0.35	1.38	4.19	7.76	4.69	1.17	0.54	0.15	0.14	0.08	
Max	0.18	0.08	1.70	3.00	8.01	9.36	8.25	1.87	0.75	0.18	0.27	0.20	9.36
Min	-0.08	-0.08	-0.06	0.20	1.82	4.94	1.91	0.77	0.14	0.09	0.04	0.01	-0.08

Annual Max Momentary Gage Height — 9.39 M (AD), at 15.00 Hours, on Sep 19, 1995

Zero Gage at Bottom Elevation — 0.00 M (AD), River Bed -0.39 M (AD)

Left Bank Elevation — 9.62 M (AD)

Right Bank Elevation — 8.60 M (AD), Drainage Area 1540 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.02	0.04	0.30	41.84	148.80	154.00	11.50	2.80	0.22	0.23	0.30	
2	0.02	0.02	0.06	0.38	52.31	149.20	145.20	10.50	2.68	0.21	0.23	0.29	
3	0.03	0.03	0.06	2.08	54.78	141.60	135.60	9.80	2.50	0.21	0.23	0.27	
4	0.04	0.09	0.08	3.45	55.35	126.25	124.15	8.90	2.56	0.22	0.22	0.26	
5	0.04	0.15	0.09	4.50	58.70	109.80	103.94	8.40	2.38	0.24	0.21	0.23	
6	0.04	0.15	0.09	5.62	59.10	96.69	79.75	7.93	2.38	0.26	0.21	0.22	
7	0.04	0.17	0.10	4.78	61.70	85.00	67.80	7.79	2.44	0.28	0.20	0.21	
8	0.16	0.18	0.11	3.94	65.82	73.74	63.62	7.30	2.38	0.28	0.19	0.20	
9	0.28	0.18	0.10	3.52	68.02	68.68	60.90	6.81	2.14	0.28	0.22	0.20	
10	0.24	0.17	0.18	3.10	66.92	63.40	57.30	6.18	2.08	0.28	0.23	0.20	
11	0.25	0.14	0.25	4.08	62.74	57.10	55.92	5.97	2.08	0.27	0.22	0.19	
12	0.26	0.11	0.44	5.55	53.26	62.74	60.70	5.76	2.08	0.27	0.17	0.18	
13	0.24	0.11	0.66	6.32	44.08	84.75	92.05	5.69	2.14	0.27	0.18	0.20	
14	0.21	0.11	5.83	7.72	38.80	105.39	110.10	5.55	2.08	0.26	0.18	0.19	
15	0.17	0.12	9.80	6.46	38.96	133.20	110.40	5.41	2.08	0.26	0.20	0.16	
16	0.15	0.14	6.18	5.83	37.84	156.00	99.59	5.34	1.80	0.26	0.16	0.16	
17	0.17	0.12	3.94	7.09	32.88	174.30	74.40	4.99	1.65	0.27	0.18	0.16	
18	0.14	0.10	2.68	9.10	26.76	192.52	50.98	4.78	1.65	0.27	0.19	0.16	
19	0.11	0.10	2.14	12.70	21.36	206.24	30.32	4.71	1.60	0.28	0.17	0.16	
20	0.10	0.10	1.75	12.30	17.16	202.32	24.67	4.43	1.65	0.28	0.15	0.15	
21	0.08	0.09	1.25	10.90	13.40	193.50	23.89	4.15	1.60	0.28	0.14	0.15	
22	0.08	0.06	0.82	10.00	12.60	187.17	24.15	4.15	1.30	0.28	0.32	0.14	
23	0.06	0.06	0.62	9.20	12.50	189.09	22.98	3.66	1.10	0.27	0.42	0.14	
24	0.04	0.06	0.48	8.32	11.40	191.05	20.76	3.52	0.95	0.24	0.44	0.14	
25	0.04	0.05	0.42	7.30	11.00	191.05	18.36	3.45	0.82	0.23	0.42	0.14	
26	0.03	0.05	0.34	8.00	13.80	188.60	15.96	3.17	0.74	0.25	0.42	0.14	
27	0.03	0.04	0.27	12.10	24.54	183.36	14.16	3.04	0.70	0.22	0.40	0.13	
28	0.02	0.04	0.30	14.04	56.30	177.64	13.10	3.04	0.62	0.19	0.36	0.13	
29	0.02	0.02	0.34	13.60	103.94	170.96	12.50	3.04	0.34	0.19	0.30	0.13	
30	0.02	0.03	0.30	14.64	135.20	162.86	12.10	2.92	0.27	0.19		0.12	
31		0.04		24.80	144.40		11.90		0.24	0.22		0.11	
Total	3.13	2.85	39.72	241.72	1497.46	4273.00	1891.25	171.88	51.83	7.73	7.19	5.56	8193.32 CMSDAY
Mean	0.10	0.09	1.32	7.80	48.31	142.43	61.01	5.73	1.67	0.25	0.25	0.18	22.39 CMS
Max	0.28	0.18	9.80	24.80	144.40	206.24	154.00	11.50	2.80	0.28	0.44	0.30	206.24 CMS
Min	0.02	0.02	0.04	0.30	11.00	57.10	11.90	2.92	0.24	0.19	0.14	0.11	0.02 CMS
Runoff	0.270	0.246	3.432	20.885	129.381	369.187	163.404	14.850	4.478	0.668	0.621	0.480	707.903 MCM

Momentary Peak 207.71 CMS, at 9.39 M (AD), at 15.00 Hours, on Sep 19, 1995
Runoff Yield 14.54 Liters/Second/Square KM, Momentary Peak Yield 134.877 Liters/Second/Square KM

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

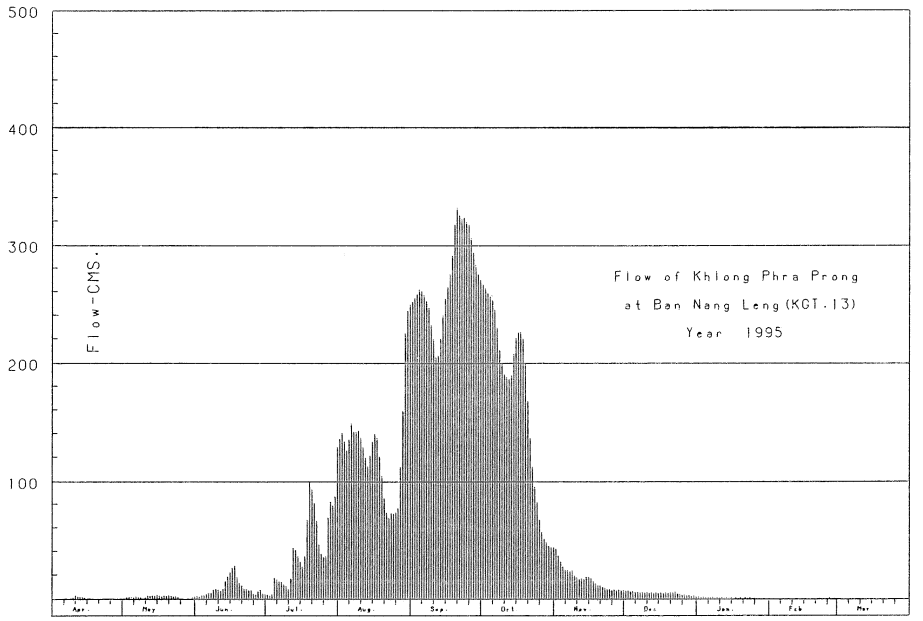
Khlong Phra Prong at Ban Nang Leng, Prachin Buri (Kgt.13)

Location	Lat. 13-58-04 N., Long. 101-44-20 E., on left bank about 40 meters upstream from the bridge on highway, Ban Nang Leng, Amphoe Kabin Buri, Prachin Buri.
Drainage Area	5,347 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.16 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near the gage site.
Elevation	+10.712 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 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	1967-1968, 1971-1976, 1982 to date.
Rated by Float	-
Rated by Current Meter	1967-1968, 1971-1976, 1982 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.97	1.13	1.35	1.47	7.66	10.72	10.90	4.10	1.87	1.31	1.09	1.13	
2	1.00	1.24	1.35	1.45	7.82	10.76	10.86	3.79	1.85	1.29	1.08	1.12	
3	1.05	1.33	1.40	1.51	7.57	10.81	10.82	3.55	1.82	1.27	1.06	1.12	
4	1.06	1.29	1.47	2.66	7.32	10.85	10.78	3.28	1.79	1.27	1.05	1.11	
5	1.04	1.27	1.58	2.53	7.64	10.84	10.74	3.12	1.75	1.27	1.05	1.10	
6	1.06	1.31	1.64	2.46	8.10	10.80	10.62	3.08	1.73	1.26	1.05	1.09	
7	1.10	1.28	1.70	2.41	7.87	10.73	10.39	3.03	1.73	1.25	1.06	1.08	
8	1.15	1.21	1.93	2.28	7.85	10.64	9.95	3.06	1.72	1.24	1.05	1.08	
9	1.24	1.18	2.02	2.17	7.90	10.43	9.63	2.80	1.71	1.24	1.06	1.07	
10	1.41	1.22	1.91	2.01	7.68	10.16	9.43	2.66	1.71	1.24	1.08	1.06	
11	1.35	1.45	1.87	2.61	7.42	9.77	9.36	2.59	1.70	1.23	1.11	1.05	
12	1.32	1.43	1.98	4.10	7.08	9.82	9.30	2.59	1.69	1.23	1.10	1.04	
13	1.25	1.37	2.47	4.05	6.82	10.18	9.41	2.58	1.68	1.23	1.08	1.01	
14	1.21	1.43	2.70	3.76	7.17	10.55	9.85	2.68	1.67	1.22	1.08	0.99	
15	1.16	1.47	2.99	3.50	7.58	10.76	10.18	2.72	1.67	1.22	1.09	0.95	
16	1.13	1.42	3.21	3.27	7.78	10.87	10.31	2.60	1.66	1.21	1.10	0.95	
17	1.12	1.37	3.35	3.78	7.67	11.00	10.31	2.48	1.67	1.21	1.11	0.96	
18	1.10	1.38	2.68	5.10	7.13	11.12	10.18	2.32	1.68	1.21	1.12	0.97	
19	1.08	1.41	2.38	6.36	6.53	11.27	9.64	2.25	1.69	1.20	1.12	0.98	
20	1.07	1.42	2.20	6.12	5.87	11.34	8.75	2.20	1.70	1.20	1.13	0.99	
21	1.05	1.39	2.04	5.71	5.35	11.31	7.67	2.15	1.72	1.21	1.14	0.99	
22	1.03	1.35	1.97	5.08	5.19	11.29	6.83	2.06	1.75	1.22	1.15	1.00	
23	1.00	1.32	1.92	4.22	5.36	11.30	6.20	2.01	1.63	1.22	1.16	1.01	
24	0.97	1.25	1.88	3.89	5.31	11.28	5.74	1.97	1.55	1.21	1.17	1.02	
25	0.97	1.17	1.62	3.75	5.38	11.27	5.13	1.94	1.50	1.19	1.18	1.02	
26	0.98	1.11	1.48	3.77	5.51	11.21	4.66	1.93	1.48	1.18	1.19	1.02	
27	0.99	1.12	1.83	5.20	6.82	11.14	4.45	1.91	1.45	1.16	1.17	1.01	
28	1.00	1.12	1.90	5.73	8.46	11.06	4.31	1.91	1.43	1.15	1.15	1.01	
29	1.01	1.11	1.64	5.60	10.28	11.00	4.19	1.90	1.39	1.13	1.14	1.00	
30	1.02	1.25	1.51	5.92	10.61	10.94	4.12	1.89	1.38	1.12		0.99	
31		1.35		7.41	10.68		4.12		1.35	1.10		0.97	
Mean	1.10	1.30	2.00	3.87	7.34	10.84	8.35	2.57	1.65	1.22	1.11	1.03	
Max	1.41	1.47	3.35	7.41	10.68	11.34	10.90	4.10	1.87	1.31	1.19	1.13	11.34
Min	0.97	1.11	1.35	1.45	5.19	9.77	4.12	1.89	1.35	1.10	1.05	0.95	0.95

Annual Max Momentary Gage Height 11.34 M (MSL), at 18.00 Hours, on Sep 20, 1995
Zero Gage at Bottom Elevation 0.16 M (MSL), River Bed 0.33 M (MSL)
Left Bank Elevation 14.78 M (MSL)
Right Bank Elevation 14.83 M (MSL), Drainage Area 5347 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.81	2.55	3.63	136.54	252.40	267.00	43.40	7.40	2.19	0.54	0.81	
2	0.00	1.62	2.55	3.45	141.18	255.20	263.40	36.80	7.20	2.02	0.48	0.74	
3	0.30	2.37	3.00	3.99	133.93	258.90	259.80	32.25	6.90	1.86	0.36	0.74	
4	0.36	2.02	3.63	18.40	126.76	262.50	256.60	27.70	6.60	1.86	0.30	0.67	
5	0.24	1.86	4.62	16.45	135.96	261.60	253.80	25.30	6.20	1.86	0.30	0.60	
6	0.36	2.19	5.16	15.40	149.30	258.00	245.40	24.70	6.00	1.78	0.30	0.54	
7	0.60	1.94	5.70	14.65	142.63	253.10	230.50	23.95	6.00	1.70	0.36	0.48	
8	0.95	1.38	8.00	12.70	142.05	246.80	212.00	24.40	5.90	1.62	0.30	0.48	
9	1.62	1.16	8.96	11.05	143.50	232.80	199.20	20.50	5.80	1.62	0.36	0.42	
10	3.09	1.46	7.80	8.83	137.12	220.40	191.20	18.40	5.80	1.62	0.48	0.36	
11	2.55	3.45	7.40	17.65	129.58	204.80	188.60	17.35	5.70	1.54	0.67	0.30	
12	2.28	3.27	8.50	43.40	120.04	206.80	186.50	17.35	5.61	1.54	0.60	0.24	
13	1.70	2.73	15.55	42.20	112.76	221.20	190.40	17.20	5.52	1.54	0.48	0.06	
14	1.38	3.27	19.00	36.20	122.56	240.50	208.00	18.70	5.43	1.46	0.48	0.00	
15	1.02	3.63	23.35	31.40	134.22	255.20	221.20	19.30	5.43	1.46	0.54	0.00	
16	0.81	3.18	26.65	27.55	140.02	264.30	226.50	17.50	5.34	1.38	0.60	0.00	
17	0.74	2.73	28.85	36.60	136.83	276.00	226.50	15.70	5.43	1.38	0.67	0.00	
18	0.60	2.82	18.70	67.40	121.44	291.20	221.20	13.30	5.52	1.38	0.74	0.00	
19	0.48	3.09	14.20	99.88	104.64	318.00	199.60	12.25	5.61	1.30	0.74	0.00	
20	0.42	3.18	11.50	93.16	86.19	332.00	168.60	11.50	5.70	1.30	0.81	0.00	
21	0.30	2.91	9.22	82.05	73.40	326.00	136.83	10.75	5.90	1.38	0.88	0.00	
22	0.18	2.55	8.40	66.92	69.56	322.00	113.04	9.48	6.20	1.46	0.95	0.00	
23	0.00	2.28	7.90	46.28	73.64	324.00	95.40	8.83	5.07	1.46	1.02	0.06	
24	0.00	1.70	7.50	38.80	72.44	320.00	82.80	8.40	4.35	1.38	1.09	0.12	
25	0.00	1.09	4.98	36.00	74.12	318.00	68.12	8.10	3.90	1.23	1.16	0.12	
26	0.00	0.67	3.72	36.40	77.24	306.00	56.84	8.00	3.72	1.16	1.23	0.12	
27	0.00	0.74	7.00	69.80	112.76	294.40	51.80	7.80	3.45	1.02	1.09	0.06	
28	0.00	0.74	7.70	82.55	159.74	283.20	48.44	7.80	3.27	0.95	0.95	0.06	
29	0.06	0.67	5.16	79.40	225.20	276.00	45.56	7.70	2.91	0.81	0.88	0.00	
30	0.12	1.70	3.99	87.56	244.70	270.60	43.88	7.60	2.82	0.74		0.00	
31		2.55		129.29	249.60		43.88		2.55	0.60		0.00	
Total	20.16	65.76	291.24	1359.04	4029.65	8151.90	5202.59	522.01	163.23	44.60	19.36	6.98	19876.52 CMSDAY
Mean	0.67	2.12	9.71	43.84	129.99	271.73	167.83	17.40	5.27	1.44	0.67	0.23	54.31 CMS
Max	3.09	3.63	28.85	129.29	249.60	332.00	267.00	43.40	7.40	2.19	1.23	0.81	332.00 CMS
Min	0.00	0.67	2.55	3.45	69.56	204.80	43.88	7.60	2.55	0.60	0.30	0.00	0.00 CMS
Runoff	1.742	5.682	25.163	117.421	348.162	704.324	449.504	45.102	14.103	3.853	1.673	0.603	1717.331 MCM

Momentary Peak 332.00 CMS, at 11.34 M (MSL), at 18.00 Hours, on Sep 20, 1995
Runoff Yield 10.16 Liters/Second/Square KM, Momentary Peak Yield 62.091 Liters/Second/Square KM

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

Huai Yang at Ban Thung Faek, Prachin Buri (Kgt.14)

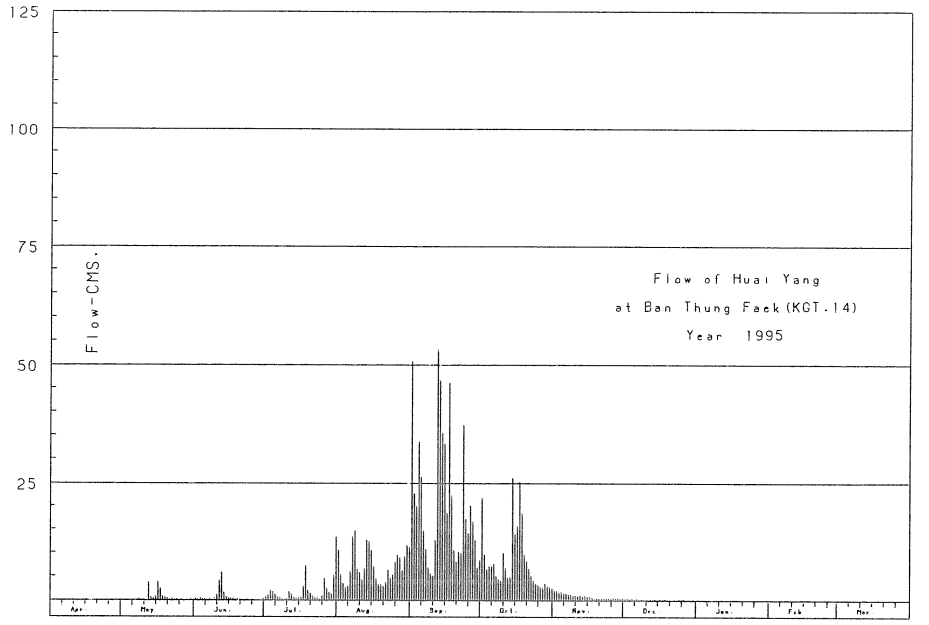
Location — Lat. 14-09-30 N., Long. 101-52-52 E., on left bank about 2 kilometers from Kabin Buri-Nakhon Ratchasima highway, Ban Thung Faek, Amphoe Na Di, Prachin Buri.

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.82	34.81	34.98	35.10	35.85	37.14	36.29	35.25	35.02	34.92	34.83	34.84	
2	34.82	34.80	34.99	35.12	35.55	36.33	35.81	35.23	35.01	34.92	34.83	34.84	
3	34.82	34.81	35.02	35.25	35.40	36.22	35.64	35.21	35.01	34.91	34.84	34.83	
4	34.81	34.82	35.01	35.21	35.30	36.66	35.68	35.21	35.00	34.91	34.84	34.83	
5	34.81	34.83	34.99	35.16	35.34	36.44	35.69	35.19	34.99	34.91	34.85	34.83	
6	34.81	34.87	34.96	35.09	35.60	36.02	35.71	35.17	34.98	34.90	34.86	34.83	
7	34.92	34.96	34.95	35.04	35.96	35.86	35.53	35.16	34.97	34.90	34.87	34.83	
8	34.90	34.98	34.94	35.01	36.02	35.66	35.46	35.14	34.96	34.90	34.87	34.84	
9	34.87	34.92	35.02	35.00	35.63	35.56	35.44	35.13	34.96	34.89	34.87	34.83	
10	34.84	34.88	35.13	35.01	35.58	35.53	35.83	35.12	34.96	34.89	34.86	34.82	
11	34.82	34.94	35.45	35.22	35.46	35.93	35.65	35.12	34.95	34.88	34.85	34.82	
12	34.82	35.41	35.58	35.15	35.64	37.20	35.49	35.12	34.95	34.88	34.85	34.82	
13	34.82	35.08	35.21	35.07	35.94	37.03	35.51	35.11	34.95	34.88	34.85	34.81	
14	34.81	35.03	35.09	35.01	35.92	36.72	36.44	35.11	34.95	34.88	34.85	34.81	
15	34.80	35.08	35.04	35.02	35.85	36.65	35.99	35.10	34.95	34.88	34.85	34.81	
16	34.79	35.41	35.01	35.08	35.68	36.17	36.05	35.08	34.95	34.89	34.85	34.81	
17	34.79	35.29	35.01	35.33	35.47	37.02	36.41	35.07	34.96	34.89	34.85	34.80	
18	34.78	35.09	34.97	35.70	35.37	36.31	36.17	34.99	34.96	34.89	34.85	34.80	
19	34.78	35.07	34.96	35.24	35.36	35.85	35.81	35.04	34.96	34.88	34.85	34.79	
20	34.78	35.01	35.00	35.19	35.34	35.74	35.75	35.01	34.95	34.88	34.85	34.79	
21	34.77	34.99	34.93	35.10	35.40	35.83	35.64	35.03	34.94	34.88	34.85	34.79	
22	34.77	35.02	34.93	35.06	35.63	35.82	35.54	35.03	34.93	34.87	34.85	34.79	
23	34.77	34.97	34.93	35.03	35.49	36.77	35.44	35.03	34.93	34.87	34.84	34.79	
24	34.78	34.95	34.92	35.01	35.54	36.12	35.39	35.02	34.93	34.87	34.81	34.78	
25	34.82	34.93	34.92	35.10	35.74	36.00	35.36	35.02	34.93	34.87	34.84	34.78	
26	34.83	34.92	34.91	35.47	35.81	36.23	35.32	35.03	34.93	34.86	34.83	34.78	
27	34.83	34.90	34.91	35.30	35.78	36.09	35.31	35.03	34.92	34.85	34.83	34.77	
28	34.86	34.90	34.91	35.20	35.62	35.93	35.38	35.02	34.92	34.84	34.84	34.76	
29	34.84	34.91	34.90	35.18	35.79	35.67	35.34	35.02	34.92	34.83	34.84	34.82	
30	34.82	34.94	34.98	35.53	35.89	35.75	35.31	35.02	34.92	34.85		34.84	
31		35.00		35.96	35.87		35.28		34.92	34.84		34.85	
Mean	34.82	34.98	35.02	35.19	35.64	36.21	35.67	35.09	34.95	34.88	34.85	34.81	
Max	34.92	35.41	35.58	35.96	36.02	37.20	36.44	35.25	35.02	34.92	34.87	34.85	37.20
Min	34.77	34.80	34.90	35.00	35.30	35.53	35.28	34.99	34.92	34.83	34.81	34.76	34.76

Annual Max Momentary Gage Height 37.41 M (MSL), at 10.00 Hours, on Sep 1, 1995
Zero Gage at Bottom Elevation 34.60 M (MSL), River Bed 32.77 M (MSL)
Left Bank Elevation 41.74 M (MSL)
Right Bank Elevation 41.75 M (MSL), Drainage Area 366 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.11	0.36	0.90	10.75	50.96	21.75	2.20	0.50	0.24	0.13	0.14	
2	0.12	0.10	0.38	1.06	5.55	22.87	9.75	2.00	0.45	0.24	0.13	0.14	
3	0.12	0.11	0.50	2.20	3.80	20.00	6.72	1.80	0.45	0.22	0.14	0.13	
4	0.11	0.12	0.45	1.80	2.70	33.74	7.24	1.80	0.40	0.22	0.14	0.13	
5	0.11	0.13	0.38	1.38	3.14	26.26	7.37	1.62	0.38	0.22	0.15	0.13	
6	0.11	0.17	0.32	0.85	6.20	15.00	7.70	1.46	0.36	0.20	0.16	0.13	
7	0.24	0.32	0.30	0.60	13.50	11.00	5.29	1.38	0.34	0.20	0.17	0.13	
8	0.20	0.36	0.28	0.45	15.00	6.98	4.46	1.22	0.32	0.20	0.17	0.14	
9	0.17	0.24	0.50	0.40	6.59	5.68	4.24	1.14	0.32	0.19	0.17	0.13	
10	0.14	0.18	1.14	0.45	5.94	5.29	10.25	1.06	0.32	0.19	0.16	0.12	
11	0.12	0.28	4.35	1.90	4.46	12.75	6.85	1.06	0.30	0.18	0.15	0.12	
12	0.12	3.91	5.94	1.30	6.72	53.30	4.79	1.06	0.30	0.18	0.15	0.12	
13	0.12	0.80	1.80	0.75	13.00	46.81	5.03	0.98	0.30	0.18	0.15	0.11	
14	0.11	0.55	0.85	0.45	12.50	35.78	26.26	0.98	0.30	0.18	0.15	0.11	
15	0.10	0.80	0.60	0.50	10.75	33.40	14.25	0.90	0.30	0.18	0.15	0.11	
16	0.09	3.91	0.45	0.80	7.24	18.75	15.75	0.80	0.30	0.19	0.15	0.11	
17	0.09	2.60	0.45	3.03	4.57	46.44	25.24	0.75	0.32	0.19	0.15	0.10	
18	0.08	0.85	0.34	7.50	3.47	22.29	18.75	0.38	0.32	0.19	0.15	0.10	
19	0.08	0.75	0.32	2.10	3.36	10.75	9.75	0.60	0.32	0.18	0.15	0.09	
20	0.08	0.45	0.40	1.62	3.14	8.30	8.50	0.45	0.30	0.18	0.15	0.09	
21	0.07	0.38	0.26	0.90	3.80	10.25	6.72	0.55	0.28	0.18	0.15	0.09	
22	0.07	0.50	0.26	0.70	6.59	10.00	5.42	0.55	0.26	0.17	0.15	0.09	
23	0.07	0.34	0.26	0.55	4.79	37.48	4.24	0.55	0.26	0.17	0.14	0.09	
24	0.08	0.30	0.24	0.45	5.42	17.50	3.69	0.50	0.26	0.17	0.11	0.08	
25	0.12	0.26	0.24	0.90	8.30	14.50	3.36	0.50	0.26	0.17	0.14	0.08	
26	0.13	0.24	0.22	4.57	9.75	20.25	2.92	0.55	0.26	0.16	0.13	0.08	
27	0.13	0.20	0.22	2.70	9.10	16.75	2.81	0.55	0.24	0.15	0.13	0.07	
28	0.16	0.20	0.22	1.70	6.46	12.75	3.58	0.50	0.24	0.14	0.14	0.06	
29	0.14	0.22	0.20	1.54	9.30	7.11	3.14	0.50	0.24	0.13	0.14	0.12	
30	0.12	0.28	0.36	5.29	11.75	8.50	2.81	0.50	0.24	0.15		0.14	
31		0.40		13.50	11.25		2.50		0.24	0.14		0.15	
Total	3.52	20.06	22.59	62.84	228.89	641.44	261.13	28.89	9.68	5.68	4.25	3.43	1292.40 CMSDAY
Mean	0.12	0.65	0.75	2.03	7.38	21.38	8.42	0.96	0.31	0.18	0.15	0.11	3.53 CMS
Max	0.24	3.91	5.94	13.50	15.00	53.30	26.26	2.20	0.50	0.24	0.17	0.15	53.30 CMS
Min	0.07	0.10	0.20	0.40	2.70	5.29	2.50	0.38	0.24	0.13	0.11	0.06	0.06 CMS
Runoff	0.304	1.733	1.952	5.429	19.776	55.420	22.562	2.496	0.836	0.491	0.367	0.296	111.663 MCM

Momentary Peak 61.77 CMS, at 37.41 M (MSL), at 10.00 Hours, on Sep 1, 1995

Runoff Yield 9.65 Liters/Second/Square KM, Momentary Peak Yield 168.770 Liters/Second/Square KM

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

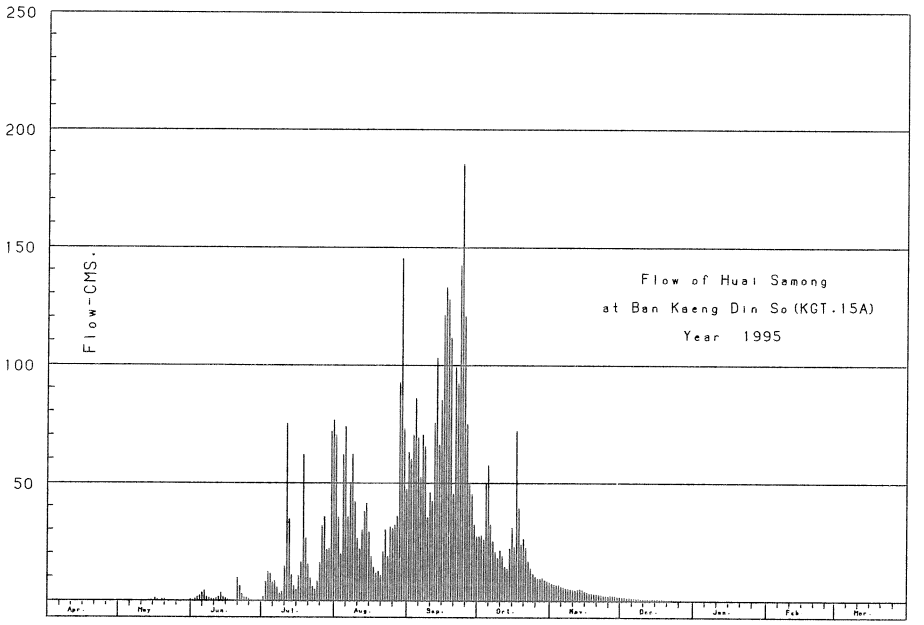
Huai Samong at Ban Kaeng Din So, Prachin Buri (Kgt.15A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.23	13.30	13.52	13.75	16.73	16.53	15.29	14.32	13.73	13.49	13.41	13.40	
2	13.24	13.30	13.64	14.38	15.59	16.44	15.30	14.28	13.72	13.49	13.40	13.39	
3	13.29	13.30	13.73	14.63	14.99	16.74	15.23	14.27	13.69	13.48	13.40	13.39	
4	13.41	13.33	13.85	14.60	16.50	17.16	16.11	14.26	13.68	13.47	13.40	13.37	
5	13.41	13.32	13.97	14.36	16.84	16.70	16.36	14.22	13.67	13.47	13.40	13.37	
6	13.29	13.31	14.03	14.39	15.60	16.19	15.48	14.18	13.65	13.46	13.39	13.37	
7	13.27	13.30	13.76	14.19	16.10	16.74	15.21	14.15	13.64	13.46	13.39	13.37	
8	13.25	13.31	13.66	13.94	16.50	16.59	15.02	14.13	13.63	13.46	13.39	13.37	
9	13.24	13.34	13.61	13.99	15.85	15.60	14.92	14.11	13.62	13.46	13.39	13.37	
10	13.24	13.33	13.60	14.75	15.25	15.98	15.06	14.07	13.61	13.46	13.39	13.36	
11	13.23	13.32	13.64	16.87	15.08	15.85	14.95	14.07	13.61	13.46	13.38	13.36	
12	13.24	13.34	13.77	15.57	15.39	16.88	14.75	14.08	13.60	13.45	13.38	13.36	
13	13.48	13.35	13.95	14.56	15.70	17.58	14.70	14.11	13.60	13.45	13.38	13.36	
14	13.34	13.39	13.76	14.23	15.82	16.62	15.09	14.08	13.60	13.45	13.38	13.36	
15	13.29	13.46	13.65	14.09	15.36	17.14	15.42	14.02	13.60	13.45	13.38	13.36	
16	13.26	13.68	13.58	14.53	14.94	18.01	15.11	13.97	13.59	13.45	13.37	13.35	
17	13.24	13.56	13.53	14.84	14.74	18.24	16.79	13.94	13.59	13.45	13.37	13.35	
18	13.23	13.51	13.49	16.50	14.60	18.14	15.75	13.92	13.59	13.45	13.37	13.35	
19	13.22	13.58	13.54	15.26	14.65	17.80	15.15	13.91	13.58	13.45	13.45	13.34	
20	13.21	13.60	14.48	14.79	14.55	15.96	15.25	13.89	13.57	13.44	13.42	13.34	
21	13.21	13.53	14.24	14.47	15.03	17.48	15.10	13.88	13.56	13.44	13.41	13.34	
22	13.21	13.47	13.92	14.22	15.40	17.31	14.86	13.85	13.55	13.43	13.39	13.34	
23	13.20	13.44	13.70	14.08	14.95	18.43	14.71	13.83	13.54	13.43	13.38	13.33	
24	13.20	13.43	13.72	14.39	15.44	19.29	14.60	13.81	13.53	13.43	13.38	13.32	
25	13.23	13.45	13.59	14.82	15.42	18.00	14.53	13.81	13.52	13.43	13.38	13.32	
26	13.22	13.41	13.54	15.45	15.47	16.87	14.46	13.83	13.51	13.43	13.39	13.32	
27	13.21	13.39	13.48	15.61	15.62	16.10	14.47	13.83	13.50	13.43	13.39	13.32	
28	13.21	13.38	13.48	15.07	17.32	15.95	14.48	13.79	13.50	13.43	13.39	13.33	
29	13.20	13.45	13.47	15.08	18.49	15.48	14.43	13.76	13.50	13.43	13.40	13.35	
30	13.20	13.50	13.46	16.78	16.81	15.28	14.38	13.74	13.49	13.43		13.36	
31		13.61		16.91	16.02		14.35		13.48	13.43		13.36	
Mean	13.26	13.42	13.71	14.87	15.70	16.90	15.07	14.00	13.59	13.45	13.39	13.35	
Max	13.48	13.68	14.48	16.91	18.49	19.29	16.79	14.32	13.73	13.49	13.45	13.40	19.29
Min	13.20	13.30	13.46	13.75	14.55	15.28	14.35	13.74	13.48	13.43	13.37	13.32	13.20

Annual Max Momentary Gage Height 19.72 M (MSL), at 1.00 Hours, on Sep 24, 1995
Zero Gage at Bottom Elevation 12.80 M (MSL), River Bed 12.28 M (MSL)
Left Bank Elevation 24.39 M (MSL)
Right Bank Elevation 22.25 M (MSL), Drainage Area 530 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.10	0.50	1.80	70.55	63.55	27.74	7.56	1.68	0.38	0.22	0.20	
2	0.04	0.10	1.14	8.34	35.54	60.40	28.00	7.04	1.62	0.38	0.20	0.19	
3	0.09	0.10	1.68	12.37	20.07	70.90	26.18	6.91	1.44	0.36	0.20	0.19	
4	0.22	0.13	2.55	11.80	62.50	86.40	50.30	6.78	1.38	0.34	0.20	0.17	
5	0.22	0.12	3.70	8.08	74.40	69.50	57.80	6.26	1.32	0.34	0.20	0.17	
6	0.09	0.11	4.30	8.47	35.80	52.70	32.68	5.80	1.20	0.32	0.19	0.17	
7	0.07	0.10	1.86	5.90	50.00	70.90	25.66	5.50	1.14	0.32	0.19	0.17	
8	0.05	0.11	1.26	3.40	62.50	65.65	20.80	5.30	1.08	0.32	0.19	0.17	
9	0.04	0.14	0.96	3.90	42.50	35.80	18.46	5.10	1.02	0.32	0.19	0.17	
10	0.04	0.13	0.90	14.70	26.70	46.40	21.80	4.70	0.96	0.32	0.19	0.16	
11	0.03	0.12	1.14	75.45	22.30	42.50	19.15	4.70	0.96	0.32	0.18	0.16	
12	0.04	0.14	1.92	35.02	30.34	75.80	14.70	4.80	0.90	0.30	0.18	0.16	
13	0.36	0.15	3.50	11.12	38.40	103.20	13.70	5.10	0.90	0.30	0.18	0.16	
14	0.14	0.19	1.86	6.39	41.60	66.70	22.55	4.80	0.90	0.30	0.18	0.16	
15	0.09	0.32	1.20	4.90	29.56	85.60	31.12	4.20	0.90	0.30	0.18	0.16	
16	0.06	1.38	0.80	10.61	18.92	121.50	23.06	3.70	0.85	0.30	0.17	0.15	
17	0.04	0.70	0.55	16.62	14.50	133.00	72.65	3.40	0.85	0.30	0.17	0.15	
18	0.03	0.45	0.38	62.50	11.80	128.00	39.70	3.20	0.85	0.30	0.17	0.15	
19	0.02	0.80	0.60	26.96	12.75	112.00	24.10	3.10	0.80	0.30	0.30	0.14	
20	0.01	0.90	9.80	15.50	10.95	45.80	26.70	2.91	0.75	0.28	0.24	0.14	
21	0.01	0.55	6.52	9.65	21.05	99.20	22.80	2.82	0.70	0.28	0.22	0.14	
22	0.01	0.34	3.20	6.26	30.60	92.40	17.08	2.55	0.65	0.26	0.19	0.14	
23	0.00	0.28	1.50	4.80	19.15	142.50	13.90	2.37	0.60	0.26	0.18	0.13	
24	0.00	0.26	1.62	8.47	31.64	185.50	11.80	2.19	0.55	0.26	0.18	0.12	
25	0.03	0.30	0.85	16.16	31.12	121.00	10.61	2.19	0.50	0.26	0.18	0.12	
26	0.02	0.22	0.60	31.90	32.42	75.45	9.50	2.37	0.45	0.26	0.19	0.12	
27	0.01	0.19	0.36	36.06	36.32	50.00	9.65	2.37	0.40	0.26	0.19	0.12	
28	0.01	0.18	0.36	22.05	92.80	45.50	9.80	2.04	0.40	0.26	0.19	0.13	
29	0.00	0.30	0.34	22.30	145.50	32.68	9.05	1.86	0.40	0.26	0.20	0.15	
30	0.00	0.40	0.32	72.30	73.35	27.48	8.34	1.74	0.38	0.26		0.16	
31		0.96		76.85	47.60		7.95		0.36	0.26		0.16	
Total	1.80	10.27	56.27	650.63	1273.23	2408.01	727.33	123.36	26.89	9.28	5.64	4.78	5297.49 CMSDAY
Mean	0.06	0.33	1.88	20.99	41.07	80.27	23.46	4.11	0.87	0.30	0.19	0.15	14.47 CMS
Max	0.36	1.38	9.80	76.85	145.50	185.50	72.65	7.56	1.68	0.38	0.30	0.20	185.50 CMS
Min	0.00	0.10	0.32	1.80	10.95	27.48	7.95	1.74	0.36	0.26	0.17	0.12	0.00 CMS
Runoff	0.156	0.887	4.862	56.214	110.007	208.052	62.841	10.658	2.323	0.802	0.487	0.413	457.703 MCM

Momentary Peak 209.20 CMS, at 19.72 M (MSL), at 1.00 Hours, on Sep 24, 1995
Runoff Yield 27.31 Liters/Second/Square KM, Momentary Peak Yield 394.717 Liters/Second/Square KM

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

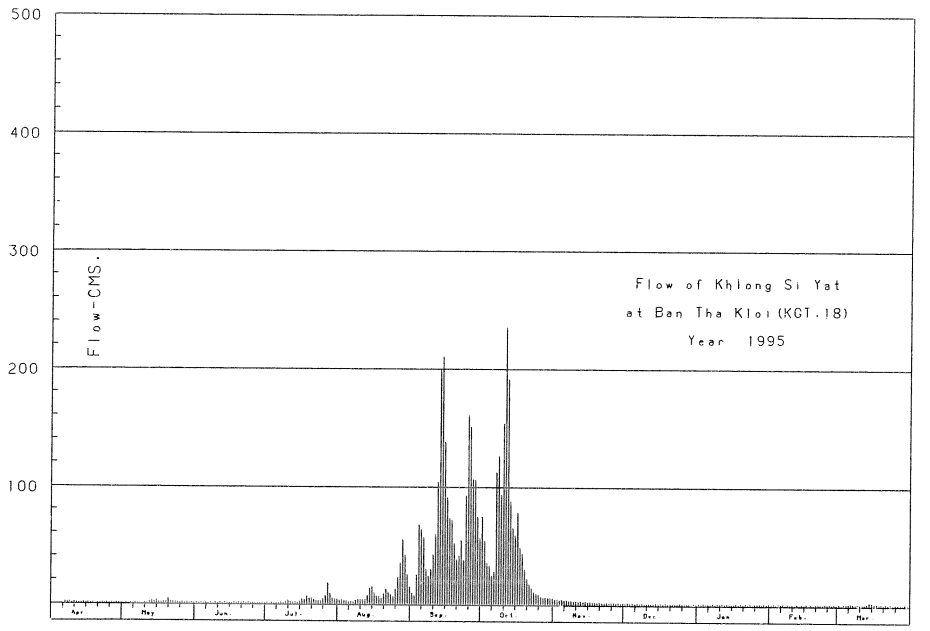
Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt.18)

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 +40.26 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 61 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.12	35.55	35.66	35.62	36.12	36.87	39.60	36.34	35.76	35.65	35.64	35.63	
2	35.12	35.54	35.65	35.62	36.13	36.68	39.06	36.27	35.75	35.70	35.64	35.64	
3	35.13	35.54	35.65	35.62	36.08	37.84	38.37	36.23	35.74	35.69	35.63	35.62	
4	35.13	35.53	35.65	35.63	35.99	39.44	38.30	36.20	35.75	35.68	35.63	35.79	
5	35.30	35.53	35.65	35.65	35.93	39.32	37.83	36.17	35.73	35.68	35.62	35.82	
6	35.77	35.53	35.65	35.70	35.90	39.15	37.99	36.13	35.72	35.67	35.62	35.77	
7	35.78	35.53	35.65	35.69	35.91	38.10	40.40	36.10	35.72	35.67	35.62	35.75	
8	35.73	35.54	35.64	35.70	36.04	37.80	40.61	36.06	35.71	35.66	35.62	35.72	
9	35.70	35.54	35.64	35.87	36.25	38.09	40.06	36.04	35.71	35.66	35.61	35.70	
10	35.68	35.54	35.65	36.06	36.17	38.64	40.97	36.01	35.70	35.66	35.61	35.68	
11	35.68	35.59	35.66	35.83	36.23	39.21	41.57	36.00	35.70	35.66	35.60	35.66	
12	35.68	35.89	35.66	35.81	36.19	40.26	41.30	36.00	35.69	35.66	35.60	35.66	
13	35.66	35.90	35.66	35.77	36.68	41.35	39.92	35.99	35.69	35.65	35.60	35.73	
14	35.64	35.90	35.67	35.77	37.18	41.43	39.38	35.97	35.69	35.64	35.60	36.05	
15	35.64	35.99	35.68	35.95	37.30	40.78	39.19	35.96	35.68	35.65	35.60	35.88	
16	35.64	35.84	35.71	36.21	36.88	40.00	39.69	35.92	35.68	35.65	35.60	35.79	
17	35.63	35.76	35.71	36.18	36.63	39.58	38.84	35.92	35.68	35.64	35.60	35.75	
18	35.61	35.76	35.69	36.55	36.58	39.53	38.68	35.89	35.68	35.64	35.60	35.72	
19	35.29	35.88	35.69	36.41	36.47	38.98	38.11	35.87	35.68	35.64	35.61	35.70	
20	35.59	36.21	35.68	36.35	36.78	38.49	37.70	35.86	35.68	35.64	35.73	35.68	
21	35.59	35.92	35.68	36.19	37.16	38.60	37.42	35.85	35.67	35.63	35.69	35.66	
22	35.60	35.81	35.67	36.08	36.99	39.05	37.24	35.84	35.66	35.62	35.66	35.65	
23	35.60	35.76	35.66	35.99	36.70	38.48	37.03	35.82	35.66	35.62	35.66	35.64	
24	35.59	35.73	35.66	36.02	36.60	40.04	36.86	35.81	35.66	35.61	35.66	35.64	
25	35.58	35.76	35.65	36.23	37.15	41.04	36.73	35.80	35.65	35.62	35.64	35.63	
26	35.58	35.73	35.65	36.66	37.71	40.93	36.62	35.79	35.65	35.69	35.64	35.64	
27	35.58	35.71	35.64	37.48	38.40	40.30	36.54	35.78	35.64	35.74	35.62	35.64	
28	35.57	35.69	35.64	36.78	39.08	40.28	36.52	35.78	35.64	35.70	35.62	35.63	
29	35.56	35.68	35.62	36.42	38.62	39.61	36.52	35.77	35.64	35.68	35.62	35.62	
30	35.55	35.67	35.62	36.23	37.88	39.11	36.49	35.76	35.64	35.67		35.61	
31		35.67		36.17	37.27		36.42		35.64	35.65		35.61	
Mean	35.54	35.72	35.66	36.07	36.81	39.30	38.45	35.96	35.69	35.66	35.63	35.70	
Max	35.78	36.21	35.71	37.48	39.08	41.43	41.57	36.34	35.76	35.74	35.73	36.05	41.57
Min	35.12	35.53	35.62	35.62	35.90	36.68	36.42	35.76	35.64	35.61	35.60	35.61	35.12

Annual Max Momentary Gage Height 41.61 M (MSL), at 13.00 Hours, on Oct 11, 1995
Zero Gage at Bottom Elevation 34.20 M (MSL), River Bed 34.08 M (MSL)
Left Bank Elevation 41.63 M (MSL)
Right Bank Elevation 40.25 M (MSL), Drainage Area 951 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	1.15	1.48	1.36	3.82	9.83	74.63	5.14	1.84	1.45	1.42	1.39	
2	0.12	1.12	1.45	1.36	3.88	7.96	54.80	4.72	1.80	1.60	1.42	1.42	
3	0.13	1.12	1.45	1.36	3.58	25.13	35.28	4.48	1.76	1.57	1.39	1.36	
4	0.13	1.09	1.45	1.39	3.04	68.13	33.60	4.30	1.80	1.54	1.39	1.96	
5	0.40	1.09	1.45	1.45	2.68	63.54	24.95	4.12	1.72	1.54	1.36	2.10	
6	1.88	1.09	1.45	1.60	2.50	57.55	27.87	3.88	1.68	1.51	1.36	1.88	
7	1.92	1.09	1.45	1.57	2.56	29.87	112.90	3.70	1.68	1.51	1.36	1.80	
8	1.72	1.12	1.42	1.60	3.34	24.40	126.20	3.46	1.64	1.48	1.36	1.68	
9	1.60	1.12	1.42	2.35	4.60	29.69	93.96	3.34	1.64	1.48	1.33	1.60	
10	1.54	1.12	1.45	3.46	4.12	42.72	154.45	3.16	1.60	1.48	1.33	1.54	
11	1.54	1.27	1.48	2.15	4.48	59.47	235.60	3.10	1.60	1.48	1.30	1.48	
12	1.54	2.45	1.48	2.05	4.24	104.64	192.00	3.10	1.57	1.48	1.30	1.48	
13	1.48	2.50	1.48	1.88	7.96	199.00	87.65	3.04	1.57	1.45	1.30	1.72	
14	1.42	2.50	1.51	1.88	13.60	211.10	65.76	2.92	1.57	1.42	1.30	3.40	
15	1.42	3.04	1.54	2.80	15.50	138.50	58.79	2.86	1.54	1.45	1.30	2.40	
16	1.42	2.20	1.64	4.36	9.92	90.90	78.29	2.62	1.54	1.45	1.30	1.96	
17	1.39	1.84	1.64	4.18	7.44	73.82	48.32	2.62	1.54	1.42	1.30	1.80	
18	1.33	1.84	1.57	6.62	6.93	71.79	43.84	2.45	1.54	1.42	1.30	1.68	
19	0.38	2.40	1.57	5.56	5.92	52.40	30.06	2.35	1.54	1.42	1.33	1.60	
20	1.27	4.36	1.54	5.20	8.99	38.52	22.57	2.30	1.54	1.42	1.72	1.54	
21	1.27	2.62	1.54	4.24	13.30	41.60	17.46	2.25	1.51	1.39	1.57	1.48	
22	1.30	2.05	1.51	3.58	10.55	54.50	14.54	2.20	1.48	1.36	1.48	1.45	
23	1.30	1.84	1.48	3.04	8.17	38.24	10.75	2.10	1.48	1.36	1.48	1.42	
24	1.27	1.72	1.48	3.22	7.13	92.94	9.74	2.05	1.48	1.33	1.48	1.42	
25	1.24	1.84	1.45	4.48	13.15	161.00	8.48	2.00	1.45	1.36	1.42	1.39	
26	1.24	1.72	1.45	7.75	22.76	151.05	7.34	1.96	1.45	1.57	1.42	1.42	
27	1.24	1.64	1.42	18.56	36.00	107.00	6.51	1.92	1.42	1.76	1.36	1.42	
28	1.21	1.57	1.42	8.99	55.40	105.82	6.31	1.92	1.42	1.60	1.36	1.39	
29	1.18	1.54	1.36	5.62	42.16	75.04	6.31	1.88	1.42	1.54	1.36	1.36	
30	1.15	1.51	1.36	4.48	25.86	56.31	6.04	1.84	1.42	1.51		1.33	
31		1.51		4.12	15.02		5.62		1.42	1.45		1.33	
Total	35.15	55.07	44.39	122.26	368.60	2282.46	1700.62	87.78	48.66	45.80	40.10	51.20	4882.09 CMSDAY
Mean	1.17	1.78	1.48	3.94	11.89	76.08	54.86	2.93	1.57	1.48	1.38	1.65	13.34 CMS
Max	1.92	4.36	1.64	18.56	55.40	211.10	235.60	5.14	1.84	1.76	1.72	3.40	235.60 CMS
Min	0.12	1.09	1.36	1.36	2.50	7.96	5.62	1.84	1.42	1.33	1.30	1.33	0.12 CMS
Runoff	3.037	4.758	3.835	10.563	31.847	197.205	146.934	7.584	4.204	3.957	3.465	4.424	421.813 MCM

Momentary Peak 243.10 CMS, at 41.61 M (MSL), at 13.00 Hours, on Oct 11, 1995

Runoff Yield 14.03 Liters/Second/Square KM, Momentary Peak Yield 255.626 Liters/Second/Square KM

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

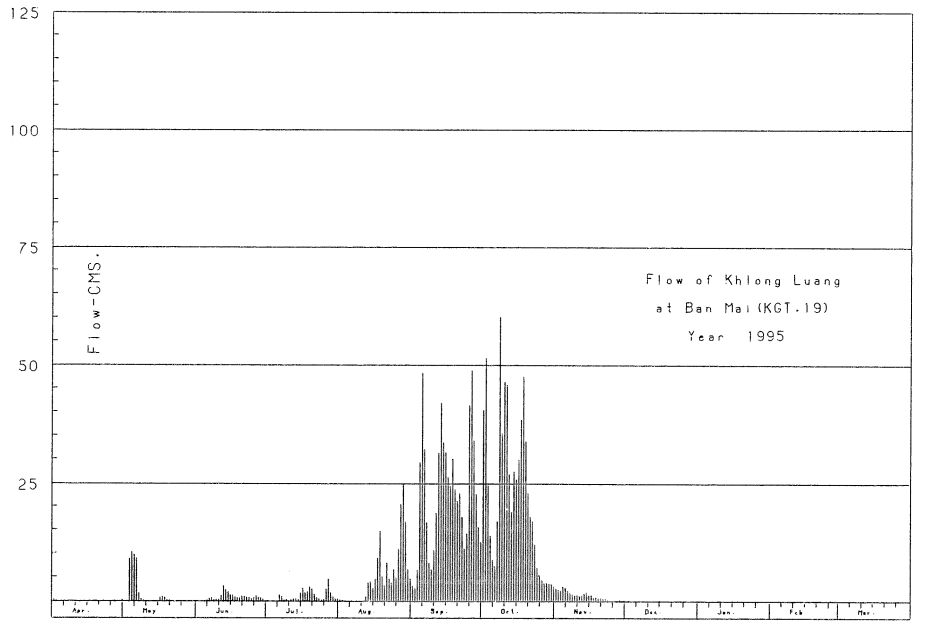
Khlong Luang at Ban Mai, Chon Buri (Kgt.19)

Location	Lat. 13-23-17 N., Long. 101-20-40 E., on left bank about 4 kilometers east of Khok Pho market and about 16 kilometers from Amphoe Phanat Nikhom, Chon Buri.
Drainage Area	535 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+20.12 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Beside the Meteorological station.
Elevation	+25.658 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965 - 1974, 1987 to date.
Rated by Float	-
Rated by Current Meter	1965 - 1974, 1987 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.78	20.68	20.61	20.65	20.78	21.74	25.37	21.62	20.68	20.42	20.62	20.62	
2	20.67	20.61	20.59	20.67	20.71	21.64	25.67	21.54	20.64	20.42	20.62	20.64	
3	20.61	22.74	20.61	20.62	20.70	22.36	24.52	21.52	20.62	20.41	20.62	20.64	
4	20.54	22.91	20.68	20.60	20.60	24.85	23.33	21.70	20.60	20.41	20.62	20.64	
5	20.53	22.85	20.70	20.62	20.57	25.61	22.70	21.66	20.59	20.41	20.62	20.63	
6	20.53	22.73	20.92	21.28	20.56	25.00	22.49	21.50	20.59	20.41	20.62	20.62	
7	20.52	21.39	20.92	21.06	20.56	23.66	23.69	21.39	20.54	20.41	20.62	20.62	
8	20.52	20.81	20.79	20.74	20.56	22.59	25.84	21.30	20.44	20.42	20.61	20.63	
9	20.48	20.76	20.75	20.73	20.56	22.41	25.18	21.24	20.53	20.42	20.61	20.64	
10	20.48	20.64	20.82	20.69	20.55	22.97	25.56	21.20	20.58	20.42	20.60	20.65	
11	20.48	20.50	21.16	20.73	20.55	23.87	25.54	21.18	20.57	20.42	20.59	20.65	
12	20.55	20.49	21.78	20.86	21.05	24.96	24.70	21.18	20.54	20.42	20.59	20.64	
13	20.56	20.60	21.54	20.82	21.90	25.42	23.89	21.36	20.53	20.42	20.58	20.65	
14	20.55	20.57	21.45	20.81	21.96	25.09	24.73	21.40	20.47	20.42	20.58	20.66	
15	20.51	20.62	21.29	21.38	21.65	24.97	24.62	21.25	20.52	20.42	20.58	20.65	
16	20.55	21.01	21.19	21.62	22.05	24.66	24.88	21.22	20.52	20.42	20.58	20.64	
17	20.52	21.06	21.06	21.40	22.76	24.49	25.30	21.00	20.56	20.42	20.58	20.64	
18	20.48	21.01	20.91	21.43	23.44	24.89	25.59	20.98	20.56	20.42	20.58	20.64	
19	20.48	20.69	20.94	21.71	22.16	24.44	25.10	20.92	20.50	20.42	20.63	20.64	
20	20.48	20.67	21.09	21.57	21.75	24.15	24.33	20.90	20.56	20.42	20.64	20.63	
21	20.48	20.68	21.07	21.31	22.59	24.33	23.78	20.88	20.56	20.42	20.64	20.63	
22	20.46	20.52	21.03	20.99	22.07	23.79	23.69	20.84	20.52	20.42	20.64	20.63	
23	20.48	20.46	20.94	20.83	21.89	23.01	23.12	20.77	20.49	20.42	20.64	20.62	
24	20.65	20.53	20.86	20.76	22.41	23.38	22.44	20.71	20.48	20.42	20.64	20.61	
25	20.52	20.61	20.91	20.77	22.09	25.40	22.18	20.72	20.48	20.42	20.64	20.60	
26	20.52	20.56	21.20	21.57	23.00	25.62	22.04	20.69	20.46	20.42	20.64	20.60	
27	20.52	20.60	21.02	22.07	24.08	25.11	21.91	20.70	20.46	20.42	20.64	20.59	
28	20.52	20.53	20.90	21.40	24.54	24.31	21.88	20.72	20.46	20.42	20.64	20.59	
29	20.54	20.48	20.80	21.02	23.66	23.55	21.89	20.70	20.47	20.42	20.64	20.59	
30	20.73	20.47	20.68	20.86	22.41	23.19	21.82	20.69	20.48	20.45		20.60	
31		20.47		20.78	22.07		21.72		20.47	20.55		20.59	
Mean	20.54	20.94	20.97	21.04	21.81	24.05	23.85	21.12	20.53	20.42	20.62	20.63	
Max	20.78	22.91	21.78	22.07	24.54	25.62	25.84	21.70	20.68	20.55	20.64	20.66	25.84
Min	20.46	20.46	20.59	20.60	20.55	21.64	21.72	20.69	20.44	20.41	20.58	20.59	20.41

Annual Max Momentary Gage Height 25.97 M (MSL), at 21.00 Hours, on Oct 1, 1995
Zero Gage at Bottom Elevation 20.12 M (MSL), River Bed 20.59 M (MSL)
Left Bank Elevation 26.37 M (MSL)
Right Bank Elevation 26.35 M (MSL), Drainage Area 535 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.28	0.21	0.25	0.46	3.26	40.63	2.78	0.28	0.02	0.22	0.22	
2	0.27	0.21	0.19	0.27	0.32	2.86	51.50	2.46	0.24	0.02	0.22	0.24	
3	0.21	9.18	0.21	0.22	0.30	6.56	24.74	2.38	0.22	0.01	0.22	0.24	
4	0.14	10.48	0.28	0.20	0.20	29.50	13.87	3.10	0.20	0.01	0.22	0.24	
5	0.13	10.00	0.30	0.22	0.17	48.50	8.90	2.94	0.19	0.01	0.22	0.23	
6	0.13	9.11	0.74	1.46	0.16	32.20	7.43	2.30	0.19	0.01	0.22	0.22	
7	0.12	1.86	0.74	1.02	0.16	16.84	17.11	1.86	0.14	0.01	0.22	0.22	
8	0.12	0.52	0.48	0.38	0.16	8.13	60.40	1.50	0.04	0.02	0.21	0.23	
9	0.08	0.42	0.40	0.36	0.16	6.87	35.60	1.38	0.13	0.02	0.21	0.24	
10	0.08	0.24	0.54	0.29	0.15	10.96	46.60	1.30	0.18	0.02	0.20	0.25	
11	0.08	0.10	1.22	0.36	0.15	18.73	45.90	1.26	0.17	0.02	0.19	0.25	
12	0.15	0.09	3.42	0.62	1.00	31.48	27.00	1.26	0.14	0.02	0.19	0.24	
13	0.16	0.20	2.46	0.54	3.90	42.10	18.91	1.74	0.13	0.02	0.18	0.25	
14	0.15	0.17	2.10	0.52	4.20	33.82	27.48	1.90	0.07	0.02	0.18	0.26	
15	0.11	0.22	1.48	1.82	2.90	31.66	25.96	1.40	0.12	0.02	0.18	0.25	
16	0.15	0.92	1.28	2.78	4.70	26.48	30.04	1.34	0.12	0.02	0.18	0.24	
17	0.12	1.02	1.02	1.90	9.32	24.40	38.60	0.90	0.16	0.02	0.18	0.24	
18	0.08	0.92	0.72	2.02	14.86	30.22	47.65	0.86	0.16	0.02	0.18	0.24	
19	0.08	0.29	0.78	3.14	5.36	23.90	34.00	0.74	0.10	0.02	0.23	0.24	
20	0.08	0.27	1.08	2.58	3.30	21.25	22.87	0.70	0.16	0.02	0.24	0.23	
21	0.08	0.28	1.04	1.54	8.13	22.87	17.92	0.66	0.16	0.02	0.24	0.23	
22	0.06	0.12	0.96	0.88	4.82	18.01	17.11	0.58	0.12	0.02	0.24	0.23	
23	0.08	0.06	0.78	0.56	3.86	11.28	12.16	0.44	0.09	0.02	0.24	0.22	
24	0.25	0.13	0.62	0.42	6.87	14.32	7.08	0.32	0.08	0.02	0.24	0.21	
25	0.12	0.21	0.72	0.44	4.94	41.50	5.48	0.34	0.08	0.02	0.24	0.20	
26	0.12	0.16	1.30	2.58	11.20	49.00	4.64	0.29	0.06	0.02	0.24	0.20	
27	0.12	0.20	0.94	4.82	20.62	34.20	3.95	0.30	0.06	0.02	0.24	0.19	
28	0.12	0.13	0.70	1.90	24.98	22.69	3.82	0.34	0.06	0.02	0.24	0.19	
29	0.14	0.08	0.50	0.94	16.84	15.85	3.86	0.30	0.07	0.02	0.24	0.19	
30	0.36	0.07	0.28	0.62	6.87	12.72	3.58	0.29	0.08	0.05		0.20	
31		0.07		0.46	4.82		3.18		0.07	0.15		0.19	
Total	4.35	48.01	27.49	36.11	165.88	692.16	707.97	37.96	4.07	0.73	6.25	7.02	1738.00 CMSDAY
Mean	0.14	1.55	0.92	1.16	5.35	23.07	22.84	1.27	0.13	0.02	0.22	0.23	4.75 CMS
Max	0.46	10.48	3.42	4.82	24.98	49.00	60.40	3.10	0.28	0.15	0.24	0.26	60.40 CMS
Min	0.06	0.06	0.19	0.20	0.15	2.86	3.18	0.29	0.04	0.01	0.18	0.19	0.01 CMS
Runoff	0.376	4.148	2.375	3.120	14.332	59.803	61.169	3.280	0.352	0.063	0.540	0.607	150.163 MCM

Momentary Peak 69.60 CMS, at 25.97 M (MSL), at 21.00 Hours, on Oct 1, 1995
Runoff Yield 8.88 Liters/Second/Square KM, Momentary Peak Yield 130.093 Liters/Second/Square KM

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

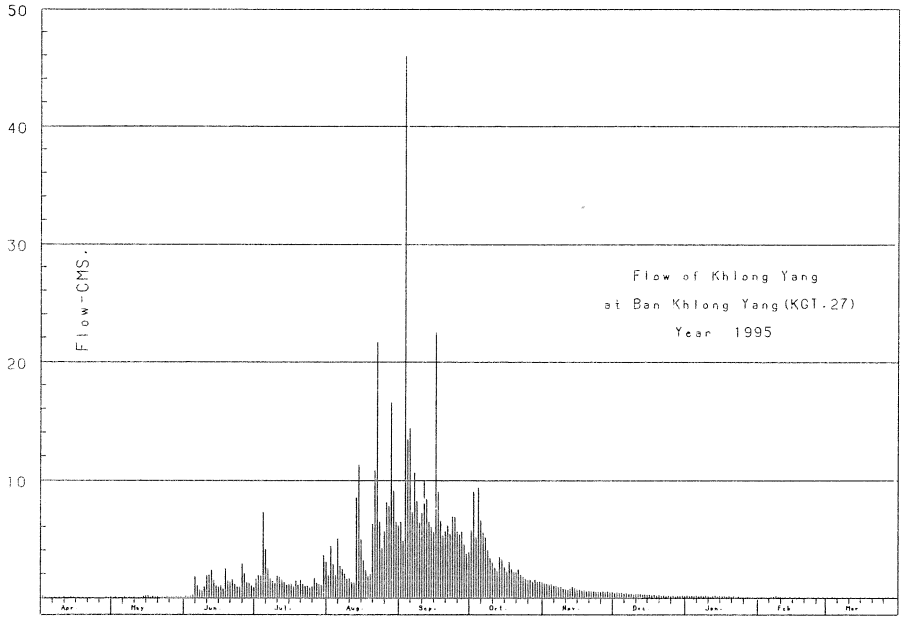
Khlong Yang at Ban Khlong Yang, Nakhon Nayok (Kgt.27)

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	Overbank flow starts at elevation + 15.06 m.(M.S.L.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.76	11.71	11.75	12.24	12.34	12.93	12.85	12.13	11.86	11.76	11.70	11.71	
2	11.71	11.71	11.75	12.34	12.70	12.75	13.21	12.11	11.86	11.76	11.70	11.71	
3	11.70	11.71	11.75	12.32	12.49	15.04	12.79	12.10	11.86	11.75	11.70	11.71	
4	11.69	11.70	11.81	13.03	12.33	13.58	13.24	12.09	11.85	11.76	11.69	11.71	
5	11.69	11.70	12.32	12.67	12.78	13.65	12.95	12.07	11.84	11.76	11.69	11.70	
6	11.69	11.70	12.06	12.43	12.46	13.02	12.83	12.05	11.84	11.76	11.69	11.70	
7	11.69	11.70	11.95	12.26	12.43	13.36	12.79	12.03	11.83	11.76	11.74	11.70	
8	11.71	11.70	11.91	12.18	12.35	13.13	12.66	12.02	11.82	11.76	11.74	11.70	
9	11.71	11.70	12.04	12.14	12.26	12.93	12.56	11.98	11.82	11.76	11.73	11.70	
10	11.71	11.70	12.34	12.32	12.25	13.02	12.51	11.95	11.82	11.76	11.73	11.70	
11	11.71	11.70	12.33	12.30	12.17	13.30	12.45	11.95	11.83	11.75	11.72	11.69	
12	11.71	11.70	12.42	12.24	12.14	13.14	12.40	11.96	11.82	11.75	11.71	11.69	
13	11.71	11.70	12.21	12.15	13.16	12.94	12.57	12.03	11.82	11.75	11.71	11.69	
14	11.71	11.74	12.07	12.09	13.41	12.88	12.55	11.98	11.81	11.74	11.71	11.69	
15	11.70	11.77	12.01	12.10	12.77	12.84	12.45	11.96	11.81	11.74	11.71	11.69	
16	11.70	11.76	12.06	12.10	12.53	14.16	12.39	11.94	11.80	11.75	11.71	11.69	
17	11.69	11.73	11.98	12.04	12.42	13.21	12.51	11.93	11.80	11.75	11.71	11.69	
18	11.68	11.73	12.43	12.19	12.32	12.94	12.43	11.92	11.79	11.74	11.71	11.69	
19	11.67	11.73	12.22	12.07	12.35	12.80	12.38	11.91	11.78	11.74	11.71	11.69	
20	11.67	11.72	12.16	12.23	12.91	12.84	12.38	11.90	11.78	11.73	11.71	11.69	
21	11.67	11.72	12.22	12.10	13.37	12.90	12.43	11.90	11.77	11.73	11.70	11.68	
22	11.67	11.73	12.10	12.05	14.12	12.82	12.35	11.89	11.77	11.72	11.70	11.68	
23	11.66	11.73	12.02	12.04	12.93	12.98	12.30	11.89	11.76	11.72	11.70	11.68	
24	11.66	11.73	12.03	12.01	12.68	12.98	12.26	11.89	11.76	11.72	11.70	11.70	
25	11.66	11.73	12.49	12.02	12.85	12.84	12.23	11.89	11.76	11.71	11.70	11.70	
26	11.66	11.72	12.37	12.27	13.12	12.81	12.21	11.89	11.75	11.71	11.70	11.72	
27	11.66	11.72	12.14	12.14	13.08	12.84	12.18	11.89	11.75	11.70	11.70	11.72	
28	11.71	11.72	12.15	12.09	13.82	12.72	12.22	11.88	11.75	11.70	11.70	11.71	
29	11.71	11.72	12.05	12.08	13.21	12.61	12.18	11.88	11.76	11.70	11.70	11.70	
30	11.71	11.72	12.03	12.60	12.93	12.63	12.17	11.87	11.76	11.70		11.69	
31		11.71		12.51	12.90		12.15		11.76	11.70		11.69	
Mean	11.69	11.72	12.11	12.24	12.76	13.09	12.50	11.96	11.80	11.74	11.71	11.70	
Max	11.76	11.77	12.49	13.03	14.12	15.04	13.24	12.13	11.86	11.76	11.74	11.72	15.04
Min	11.66	11.70	11.75	12.01	12.14	12.61	12.15	11.87	11.75	11.70	11.69	11.68	11.66

Annual Max Momentary Gage Height 15.57 M (MSL), at 6.00 Hours, on Sep 3, 1995
Zero Gage at Bottom Elevation 11.50 M (MSL), River Bed 10.91 M (MSL)
Left Bank Elevation 16.10 M (MSL)
Right Bank Elevation 15.05 M (MSL), Drainage Area 45 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	0.12	0.20	1.62	2.00	6.47	5.75	1.29	0.48	0.22	0.10	0.12	
2	0.12	0.12	0.20	2.00	4.40	4.85	9.10	1.23	0.48	0.22	0.10	0.12	
3	0.10	0.12	0.20	1.90	2.93	46.06	5.21	1.20	0.48	0.20	0.10	0.12	
4	0.09	0.10	0.33	7.37	1.95	13.54	9.40	1.17	0.45	0.22	0.09	0.12	
5	0.09	0.10	1.90	4.19	5.12	14.45	6.65	1.11	0.42	0.22	0.09	0.10	
6	0.09	0.10	1.08	2.51	2.72	7.28	5.57	1.05	0.42	0.22	0.09	0.10	
7	0.09	0.10	0.75	1.68	2.51	10.72	5.21	0.99	0.39	0.22	0.18	0.10	
8	0.12	0.10	0.63	1.44	2.05	8.30	4.12	0.96	0.36	0.22	0.18	0.10	
9	0.12	0.10	1.02	1.32	1.68	6.47	3.42	0.84	0.36	0.22	0.16	0.10	
10	0.12	0.10	2.00	1.90	1.65	7.28	3.07	0.75	0.36	0.22	0.16	0.10	
11	0.12	0.10	1.95	1.80	1.41	10.00	2.65	0.75	0.39	0.20	0.14	0.09	
12	0.12	0.10	2.44	1.62	1.32	8.40	2.30	0.78	0.36	0.20	0.12	0.09	
13	0.12	0.10	1.53	1.35	8.60	6.56	3.49	0.99	0.36	0.20	0.12	0.09	
14	0.12	0.18	1.11	1.17	11.33	6.02	3.35	0.84	0.33	0.18	0.12	0.09	
15	0.10	0.24	0.93	1.20	5.03	5.66	2.65	0.78	0.33	0.18	0.12	0.09	
16	0.10	0.22	1.08	1.20	3.21	22.54	2.25	0.72	0.30	0.20	0.12	0.09	
17	0.09	0.16	0.84	1.02	2.44	9.10	3.07	0.69	0.30	0.20	0.12	0.09	
18	0.08	0.16	2.51	1.47	1.90	6.56	2.51	0.66	0.28	0.18	0.12	0.09	
19	0.07	0.16	1.56	1.11	2.05	5.30	2.20	0.63	0.26	0.18	0.12	0.09	
20	0.07	0.14	1.38	1.59	6.29	5.66	2.20	0.60	0.26	0.16	0.12	0.09	
21	0.07	0.14	1.56	1.20	10.84	6.20	2.51	0.60	0.24	0.16	0.10	0.08	
22	0.07	0.16	1.20	1.05	21.78	5.48	2.05	0.57	0.24	0.14	0.10	0.08	
23	0.06	0.16	0.96	1.02	6.47	6.92	1.80	0.57	0.22	0.14	0.10	0.08	
24	0.06	0.16	0.99	0.93	4.26	6.92	1.68	0.57	0.22	0.14	0.10	0.10	
25	0.06	0.16	2.93	0.96	5.75	5.66	1.59	0.57	0.22	0.12	0.10	0.10	
26	0.06	0.14	2.15	1.71	8.20	5.39	1.53	0.57	0.20	0.12	0.10	0.14	
27	0.06	0.14	1.32	1.32	7.82	5.66	1.44	0.57	0.20	0.10	0.10	0.14	
28	0.12	0.14	1.35	1.17	16.68	4.58	1.56	0.54	0.20	0.10	0.10	0.12	
29	0.12	0.14	1.05	1.14	9.10	3.77	1.44	0.54	0.22	0.10	0.10	0.10	
30	0.12	0.14	0.99	3.70	6.47	3.91	1.41	0.51	0.22	0.10		0.09	
31		0.12		3.07	6.20		1.35		0.22	0.10		0.09	
Total	2.95	4.22	38.14	56.73	174.16	265.71	102.53	23.64	9.77	5.38	3.37	3.10	689.70 CMSDAY
Mean	0.10	0.14	1.27	1.83	5.62	8.86	3.31	0.79	0.32	0.17	0.12	0.10	1.88 CMS
Max	0.22	0.24	2.93	7.37	21.78	46.06	9.40	1.29	0.48	0.22	0.18	0.14	46.06 CMS
Min	0.06	0.10	0.20	0.93	1.32	3.77	1.35	0.51	0.20	0.10	0.09	0.08	0.06 CMS
Runoff	0.255	0.365	3.295	4.901	15.047	22.957	8.859	2.042	0.844	0.465	0.291	0.268	59.590 MCM

Momentary Peak 69.85 CMS, at 15.57 M (MSL), at 6.00 Hours, on Sep 3, 1995
Runoff Yield 41.88 Liters/Second/Square KM, Momentary Peak Yield 1552.222 Liters/Second/Square KM

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

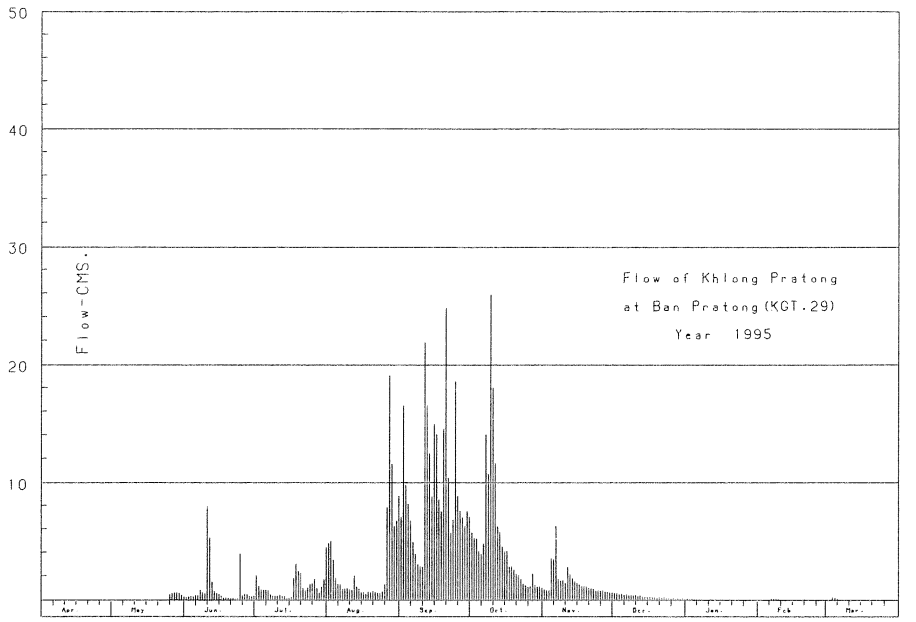
Khlong Pratong at Ban Pratong, Chanthaburi (Kgt.29)

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 by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.23	0.01	0.27	0.50	0.38	0.33	0.06	0.09	-0.03	-0.07	-0.16	
2	0.15	0.23	0.03	0.18	0.51	0.63	0.31	0.05	0.08	-0.03	-0.07	-0.10	
3	0.14	0.27	0.03	0.13	0.39	0.47	0.31	0.05	0.07	-0.03	-0.07	0.01	
4	0.15	0.27	0.03	0.13	0.25	0.42	0.26	0.40	0.07	-0.03	-0.07	0.01	
5	0.14	0.25	0.05	0.13	0.20	0.37	0.25	0.39	0.06	-0.03	-0.05	-0.01	
6	0.17	0.28	0.04	0.12	0.19	0.30	0.29	0.59	0.06	-0.04	-0.03	-0.02	
7	0.17	0.30	0.13	0.06	0.14	0.25	0.58	0.24	0.05	-0.04	-0.02	-0.09	
8	0.14	0.17	0.09	0.03	0.14	0.21	0.50	0.23	0.05	-0.05	-0.03	-0.19	
9	0.16	0.05	0.08	0.04	0.15	0.20	0.80	0.23	0.05	-0.05	-0.03	-0.20	
10	0.19	0.05	0.66	0.03	0.13	0.20	0.66	0.21	0.05	-0.05	-0.03	-0.20	
11	0.21	0.07	0.53	0.05	0.13	0.73	0.52	0.34	0.04	-0.05	-0.06	-0.20	
12	0.26	-0.05	0.22	0.04	0.27	0.63	0.35	0.28	0.04	-0.05	-0.12	-0.19	
13	0.24	-0.06	0.11	0.03	0.17	0.54	0.33	0.25	0.03	-0.06	-0.11	-0.21	
14	0.20	0.33	0.09	0.00	0.14	0.44	0.28	0.22	0.02	-0.05	-0.07	-0.20	
15	0.22	0.13	0.07	0.00	0.10	0.60	0.26	0.21	0.02	-0.05	-0.07	-0.21	
16	0.27	0.03	0.03	0.02	0.09	0.58	0.26	0.19	0.02	-0.06	-0.11	-0.22	
17	0.27	0.01	0.01	0.25	0.07	0.43	0.20	0.18	0.02	-0.07	-0.14	-0.22	
18	0.26	-0.03	0.00	0.36	0.10	0.40	0.20	0.17	0.01	-0.07	-0.14	-0.22	
19	0.23	0.00	0.00	0.31	0.10	0.59	0.18	0.17	0.01	-0.05	-0.07	-0.22	
20	0.20	0.12	0.00	0.29	0.11	0.78	0.16	0.15	0.01	-0.06	-0.02	-0.25	
21	0.16	0.09	-0.01	0.15	0.10	0.49	0.15	0.15	0.01	-0.07	-0.05	-0.26	
22	0.19	-0.04	-0.02	0.12	0.09	0.33	0.13	0.14	0.01	-0.07	-0.05	-0.26	
23	0.18	-0.05	-0.02	0.15	0.08	0.37	0.10	0.12	0.00	-0.07	-0.09	-0.25	
24	0.22	-0.06	0.43	0.20	0.11	0.67	0.09	0.12	-0.01	-0.08	-0.14	-0.22	
25	0.25	0.07	0.05	0.20	0.20	0.44	0.08	0.12	-0.01	-0.08	-0.15	-0.20	
26	0.22	0.08	0.07	0.24	0.41	0.40	0.08	0.12	-0.01	-0.08	-0.16	-0.19	
27	0.21	0.09	0.07	0.15	0.68	0.38	0.16	0.11	-0.02	-0.08	-0.10	-0.27	
28	0.26	0.09	0.03	0.09	0.52	0.35	0.09	0.10	-0.02	-0.07	-0.07	-0.25	
29	0.30	0.09	0.03	0.16	0.35	0.40	0.08	0.10	-0.02	-0.06	-0.06	-0.23	
30	0.24	0.05	0.03	0.24	0.37	0.38	0.08	0.09	-0.02	-0.06		-0.14	
31		0.03		0.47	0.44		0.07		-0.03	-0.07		-0.18	
Mean	0.20	0.10	0.10	0.15	0.23	0.45	0.26	0.19	0.02	-0.06	-0.08	-0.18	
Max	0.30	0.33	0.66	0.47	0.68	0.78	0.80	0.59	0.09	-0.03	-0.02	0.01	0.80
Min	0.14	-0.06	-0.02	0.00	0.07	0.20	0.07	0.05	-0.03	-0.08	-0.16	-0.27	-0.27

Annual Max Momentary Gage Height 1.20 M (AD), at 18.00 Hours, on Sep 11, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.62 M (AD)
Left Bank Elevation 5.77 M (AD)
Right Bank Elevation 5.80 M (AD), Drainage Area 52 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.05	0.25	2.10	4.90	7.08	5.78	0.96	0.65	0.14	0.06	0.00	
2	0.02	0.05	0.35	1.26	5.06	16.56	5.26	0.85	0.60	0.14	0.06	0.00	
3	0.02	0.05	0.35	0.91	3.48	9.84	5.26	0.85	0.55	0.14	0.06	0.25	
4	0.02	0.05	0.35	0.91	1.90	8.24	4.16	3.60	0.55	0.14	0.06	0.25	
5	0.02	0.05	0.45	0.91	1.40	6.82	3.95	3.48	0.50	0.14	0.10	0.18	
6	0.02	0.05	0.40	0.84	1.33	5.00	4.79	6.34	0.50	0.12	0.14	0.16	
7	0.03	0.05	0.91	0.50	0.98	3.95	14.16	1.80	0.45	0.12	0.16	0.02	
8	0.03	0.05	0.65	0.35	0.98	3.11	10.80	1.70	0.45	0.10	0.14	0.00	
9	0.03	0.06	0.60	0.40	1.05	2.90	26.00	1.70	0.45	0.10	0.14	0.00	
10	0.03	0.06	8.00	0.35	0.91	2.90	18.12	1.50	0.45	0.10	0.14	0.00	
11	0.03	0.06	5.38	0.45	0.91	21.94	11.64	2.88	0.40	0.10	0.08	0.00	
12	0.03	0.06	1.60	0.40	2.10	16.56	6.30	2.20	0.40	0.10	0.00	0.00	
13	0.03	0.06	0.77	0.35	1.19	12.48	5.78	1.90	0.35	0.08	0.00	0.00	
14	0.03	0.06	0.65	0.20	0.98	8.88	4.58	1.60	0.30	0.10	0.06	0.00	
15	0.03	0.06	0.55	0.20	0.70	15.00	4.16	1.50	0.30	0.10	0.06	0.00	
16	0.03	0.07	0.35	0.30	0.65	14.16	4.16	1.33	0.30	0.08	0.00	0.00	
17	0.03	0.07	0.25	1.90	0.55	8.56	2.90	1.26	0.30	0.06	0.00	0.00	
18	0.03	0.07	0.20	3.12	0.70	7.60	2.90	1.19	0.25	0.06	0.00	0.00	
19	0.03	0.07	0.20	2.52	0.70	14.58	2.60	1.19	0.25	0.10	0.06	0.00	
20	0.04	0.07	0.20	2.30	0.77	24.84	2.30	1.05	0.25	0.08	0.16	0.00	
21	0.04	0.07	0.18	1.05	0.70	10.48	2.15	1.05	0.25	0.06	0.10	0.00	
22	0.04	0.08	0.16	0.84	0.65	5.78	1.85	0.98	0.25	0.06	0.10	0.00	
23	0.04	0.08	0.16	1.05	0.60	6.82	1.40	0.84	0.20	0.06	0.02	0.00	
24	0.04	0.08	3.99	1.40	0.77	18.64	1.29	0.84	0.18	0.04	0.00	0.00	
25	0.04	0.55	0.45	1.40	1.40	8.88	1.18	0.84	0.18	0.04	0.00	0.00	
26	0.04	0.60	0.55	1.80	7.92	7.60	1.18	0.84	0.18	0.04	0.00	0.00	
27	0.04	0.65	0.55	1.05	19.16	7.08	2.30	0.77	0.16	0.04	0.00	0.00	
28	0.04	0.65	0.35	0.65	11.64	6.30	1.29	0.70	0.16	0.06	0.06	0.00	
29	0.04	0.65	0.35	1.12	6.30	7.60	1.18	0.70	0.16	0.08	0.08	0.00	
30	0.04	0.45	0.35	1.80	6.82	7.08	1.18	0.65	0.16	0.08		0.00	
31		0.35		4.51	8.88		1.07		0.14	0.06		0.00	
Total	0.95	5.38	29.55	36.94	96.08	297.26	161.67	47.09	10.27	2.72	1.84	0.86	690.61 CMSDAY
Mean	0.03	0.17	0.99	1.19	3.10	9.91	5.22	1.57	0.33	0.09	0.06	0.03	1.89 CMS
Max	0.04	0.65	8.00	4.51	19.16	24.84	26.00	6.34	0.65	0.14	0.16	0.25	26.00 CMS
Min	0.02	0.05	0.16	0.20	0.55	2.90	1.07	0.65	0.14	0.04	0.00	0.00	0.00 CMS
Runoff	0.082	0.465	2.553	3.192	8.301	25.683	13.968	4.069	0.887	0.235	0.159	0.074	59.669 MCM

Momentary Peak 54.00 CMS, at 1.20 M (AD), at 18.00 Hours, on Sep 11, 1995

Runoff Yield 36.29 Liters/Second/Square KM, Momentary Peak Yield 1038.462 Liters/Second/Square KM

WATER YEAR 1995

EAST COAST-GULF BASIN

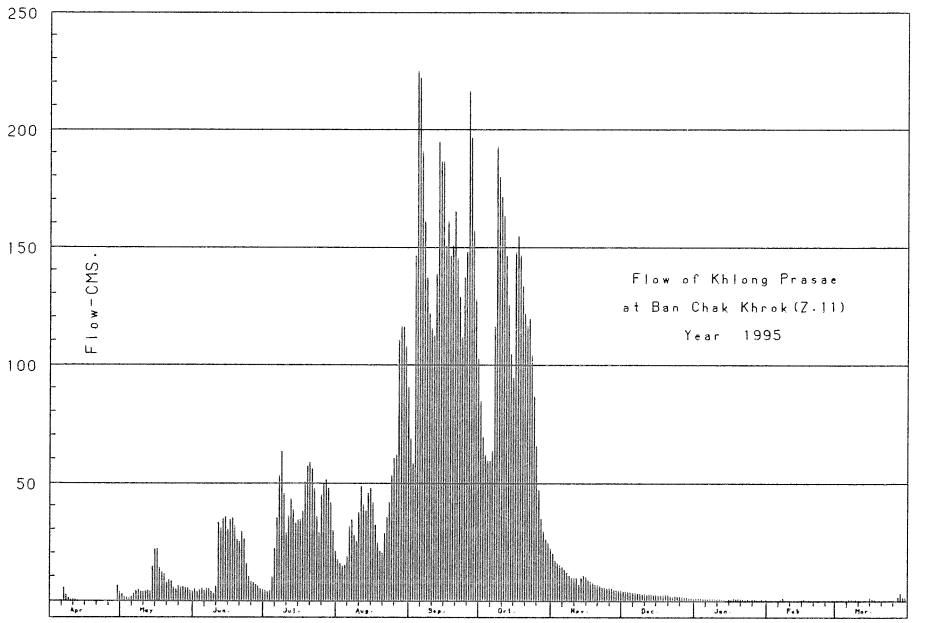
Khlong Prasae at Ban Chak Khrok, Rayong (Z.11)

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	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 75 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.70	3.27	3.51	3.43	4.80	7.71	8.05	5.00	3.39	3.00	2.89	2.87	
2	2.69	3.10	3.39	3.40	4.68	7.30	7.73	4.76	3.38	3.02	2.87	2.87	
3	2.68	3.08	3.46	3.43	4.58	8.74	7.45	4.69	3.37	3.00	2.87	2.89	
4	2.67	3.02	3.56	4.17	4.63	9.10	7.34	4.61	3.33	3.00	2.85	2.87	
5	2.67	3.12	3.44	5.17	4.90	9.09	7.35	4.56	3.33	2.99	2.83	2.89	
6	3.60	3.27	3.54	6.17	5.88	8.97	7.52	4.47	3.31	2.98	2.87	2.96	
7	3.20	3.43	3.55	7.06	6.11	8.83	8.49	4.34	3.28	2.97	3.02	2.93	
8	3.04	3.48	3.37	7.52	5.59	8.67	8.98	4.23	3.26	2.98	2.83	2.92	
9	2.96	3.40	3.29	6.74	5.40	8.54	8.92	4.11	3.24	2.97	2.89	2.92	
10	2.94	3.35	3.67	5.66	6.31	8.48	8.88	4.10	3.24	2.97	2.87	2.92	
11	2.95	3.41	6.02	6.20	6.88	8.45	8.84	4.10	3.22	2.96	2.86	2.90	
12	2.89	3.46	5.82	6.64	6.52	8.68	8.74	3.77	3.23	2.96	2.94	2.90	
13	2.82	3.38	6.12	6.39	6.37	8.99	8.57	4.12	3.22	2.89	2.89	2.88	
14	2.80	4.58	6.19	6.01	6.74	8.95	8.36	4.21	3.20	2.89	2.82	2.89	
15	2.77	5.15	5.79	6.10	6.84	8.95	8.21	4.17	3.19	2.96	2.89	3.04	
16	2.76	5.14	6.10	6.10	6.56	8.77	8.75	4.01	3.19	2.96	2.91	2.98	
17	2.76	4.52	6.16	6.35	5.95	8.83	8.80	3.91	3.17	2.99	2.90	2.92	
18	2.74	4.37	5.91	6.95	5.35	8.74	8.74	3.85	3.18	2.99	2.89	2.89	
19	2.70	4.27	5.46	7.25	5.08	8.77	8.64	3.75	3.22	2.97	2.89	2.84	
20	2.72	3.88	5.38	7.31	5.01	8.85	8.54	3.74	3.18	2.97	2.87	2.82	
21	2.77	4.00	5.72	7.20	5.65	8.73	8.49	3.69	3.14	2.95	2.86	2.82	
22	2.76	3.96	5.48	6.83	6.18	8.60	8.52	3.62	3.11	2.95	2.86	2.87	
23	2.73	3.61	4.68	6.20	6.57	8.44	8.35	3.59	3.13	2.94	2.86	2.82	
24	2.71	3.53	4.18	5.67	7.07	8.67	8.09	3.55	3.11	2.92	2.89	2.81	
25	2.71	3.68	3.94	6.71	7.39	8.75	7.61	3.56	3.09	2.97	2.85	2.79	
26	2.69	3.61	3.88	6.93	7.46	9.07	6.81	3.52	3.08	2.96	2.85	2.82	
27	2.69	3.65	3.79	7.00	8.43	9.00	6.14	3.47	3.07	2.92	2.88	3.10	
28	2.83	3.57	3.67	6.84	8.49	8.81	5.72	3.45	3.05	2.92	2.90	3.29	
29	3.72	3.59	3.56	6.56	8.49	8.59	5.46	3.43	3.03	2.94	2.89	3.08	
30	3.37	3.44	3.48	5.77	8.40	8.33	5.33	3.45	3.02	2.92		3.05	
31		3.41		5.08	8.15		5.16		3.01	2.91		3.01	
Mean	2.87	3.70	4.54	6.09	6.34	8.68	7.83	3.99	3.19	2.96	2.88	2.92	
Max	3.72	5.15	6.19	7.52	8.49	9.10	8.98	5.00	3.39	3.02	3.02	3.29	9.10
Min	2.67	3.02	3.29	3.40	4.58	7.30	5.16	3.43	3.01	2.89	2.82	2.79	2.67

Annual Max Momentary Gage Height 9.14 M (MSL), at 20.00 Hours, on Sep 26, 1995
Zero Gage at Bottom Elevation 2.63 M (MSL), River Bed 2.17 M (MSL)
Left Bank Elevation 10.69 M (MSL)
Right Bank Elevation 10.71 M (MSL), Drainage Area 1280 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	3.11	4.98	4.35	17.60	68.90	84.75	20.20	4.04	1.00	0.47	0.41	
2	0.00	1.78	4.04	4.12	16.04	58.60	69.70	17.08	3.96	1.16	0.41	0.41	
3	0.00	1.62	4.59	4.35	14.74	146.60	62.05	16.17	3.89	1.00	0.41	0.41	
4	0.00	1.16	5.37	10.25	15.39	225.00	59.52	15.13	3.57	1.00	0.35	0.41	
5	0.00	1.94	4.43	22.41	18.90	222.20	59.75	14.48	3.57	0.95	0.29	0.47	
6	5.68	3.11	5.21	35.58	31.64	190.70	63.66	13.37	3.42	0.90	0.41	0.80	
7	2.56	4.35	5.29	53.08	34.74	161.30	116.55	11.94	3.18	0.85	1.16	0.65	
8	1.31	4.74	3.89	63.66	27.87	137.40	192.80	10.80	3.03	0.90	0.29	0.60	
9	0.80	4.12	3.26	45.72	25.40	122.10	180.20	9.74	2.87	0.85	0.47	0.60	
10	0.70	3.73	6.23	28.78	37.55	115.60	171.80	9.65	2.87	0.85	0.41	0.60	
11	0.75	4.20	33.48	36.00	48.94	112.75	163.40	9.65	2.72	0.80	0.38	0.50	
12	0.47	4.59	30.86	43.42	40.90	138.60	146.60	7.01	2.79	0.80	0.70	0.50	
13	0.26	3.96	34.88	38.75	38.45	194.90	125.55	9.82	2.72	0.47	0.47	0.44	
14	0.20	14.74	35.86	33.34	45.72	186.50	105.00	10.60	2.56	0.47	0.26	0.47	
15	0.14	22.15	30.47	34.60	48.02	186.50	94.65	10.25	2.48	0.80	0.47	1.31	
16	0.12	22.02	34.60	34.60	41.70	150.80	148.00	8.89	2.48	0.80	0.55	0.90	
17	0.12	13.96	35.44	38.15	32.55	161.30	155.00	8.10	2.33	0.95	0.50	0.60	
18	0.08	12.27	32.03	50.55	24.75	146.60	146.60	7.63	2.40	0.95	0.47	0.47	
19	0.00	11.20	26.18	57.45	21.24	150.80	133.80	6.85	2.72	0.85	0.47	0.32	
20	0.04	7.86	25.14	58.83	20.33	165.50	122.10	6.77	2.40	0.85	0.41	0.26	
21	0.14	8.80	29.56	56.30	28.65	145.20	116.55	6.38	2.09	0.75	0.38	0.26	
22	0.12	8.49	26.44	47.79	35.72	129.00	119.80	5.84	1.86	0.75	0.38	0.41	
23	0.06	5.76	16.04	36.00	41.90	111.80	104.25	5.60	2.01	0.70	0.38	0.26	
24	0.02	5.13	10.33	28.91	53.31	137.40	86.95	5.29	1.86	0.60	0.47	0.23	
25	0.02	6.30	8.33	45.03	60.67	148.00	65.80	5.37	1.70	0.85	0.35	0.18	
26	0.00	5.76	7.86	50.09	62.28	216.60	47.33	5.06	1.62	0.80	0.35	0.26	
27	0.00	6.07	7.16	51.70	110.85	197.00	35.16	4.67	1.55	0.60	0.44	1.78	
28	0.29	5.45	6.23	48.02	116.55	157.10	29.56	4.51	1.39	0.60	0.50	3.26	
29	6.62	5.60	5.37	41.70	116.55	127.85	26.18	4.35	1.23	0.70	0.47	1.62	
30	3.89	4.43	4.74	30.21	108.00	102.75	24.49	4.51	1.16	0.60		1.39	
31		4.20		21.24	90.75		22.28		1.08	0.55		1.08	
Total	24.39	212.60	488.29	1154.98	1427.70	4515.35	3079.83	275.71	77.55	24.70	13.07	21.92	11316.09 CMSDAY
Mean	0.81	6.86	16.28	37.26	46.05	150.51	99.35	9.19	2.50	0.80	0.45	0.71	30.92 CMS
Max	6.62	22.15	35.86	63.66	116.55	225.00	192.80	20.20	4.04	1.16	1.16	3.26	225.00 CMS
Min	0.00	1.16	3.26	4.12	14.74	58.60	22.28	4.35	1.08	0.47	0.26	0.18	0.00 CMS
Runoff	2.107	18.369	42.188	99.790	123.353	390.126	266.097	23.821	6.700	2.134	1.129	1.894	977.710 MCM

Momentary Peak 255.00 CMS, at 9.14 M (MSL), at 20.00 Hours, on Sep 26, 1995
Runoff Yield 24.15 Liters/Second/Square KM, Momentary Peak Yield 199.219 Liters/Second/Square KM

WATER YEAR 1995

EAST COAST-GULF BASIN

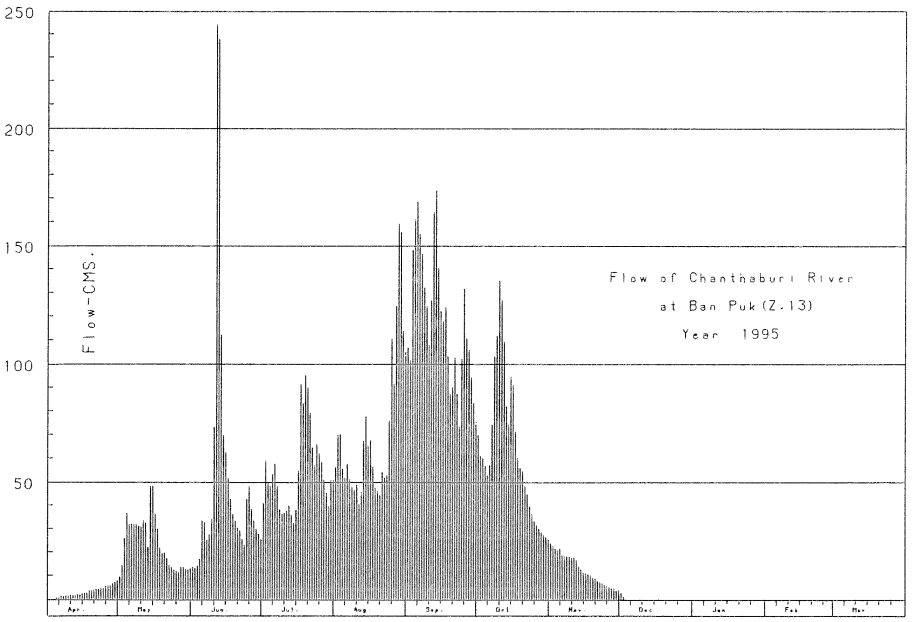
Chanthaburi River at Ban Puk, Chanthaburi (Z.13)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by the local weir during Apr.1-May1, discharge estimated by recession equation. Stage-discharge relation defined by 32 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.70	6.89	6.91	7.81	8.21	9.45	8.57	7.28	6.52	6.24	6.20	6.16	
2	7.72	6.94	6.90	8.28	8.57	9.32	8.33	7.24	6.45	6.24	6.20	6.16	
3	7.71	7.35	6.93	8.03	8.58	10.32	8.31	7.20	6.41	6.24	6.20	6.16	
4	7.71	7.68	7.04	8.00	8.19	10.59	8.22	7.17	6.35	6.24	6.20	6.16	
5	7.73	7.54	7.59	8.13	8.09	10.75	8.12	7.20	6.33	6.24	6.19	6.16	
6	7.75	7.54	7.56	8.25	8.25	10.46	8.23	7.10	6.32	6.24	6.19	6.16	
7	7.75	7.54	7.33	7.99	8.07	10.28	8.68	7.08	6.32	6.23	6.19	6.16	
8	7.74	7.53	7.40	7.73	7.99	9.99	9.36	7.08	6.32	6.23	6.19	6.16	
9	7.74	7.52	7.61	7.67	7.95	9.82	9.56	7.07	6.32	6.23	6.19	6.16	
10	7.75	7.50	8.66	7.68	8.01	9.47	10.05	7.06	6.32	6.23	6.19	6.16	
11	7.77	7.59	12.30	7.71	7.80	9.87	9.87	7.06	6.32	6.23	6.18	6.16	
12	7.77	7.56	12.18	7.78	7.93	10.65	9.50	7.02	6.32	6.23	6.18	6.17	
13	7.75	7.22	9.57	7.66	8.50	10.85	8.87	6.93	6.31	6.23	6.18	6.18	
14	7.74	7.99	8.56	7.56	8.77	10.16	8.68	6.88	6.30	6.22	6.18	6.20	
15	7.68	8.00	8.37	7.73	8.45	9.78	9.16	6.84	6.29	6.22	6.18	6.21	
16	7.59	7.68	8.09	8.17	8.51	9.69	9.08	6.82	6.28	6.21	6.18	6.21	
17	7.49	7.47	7.85	9.08	8.21	9.81	8.60	6.81	6.27	6.21	6.18	6.17	
18	7.37	7.21	7.67	8.90	7.98	9.36	8.31	6.79	6.28	6.21	6.18	6.14	
19	7.32	7.13	7.58	9.18	7.94	8.99	8.20	6.76	6.28	6.21	6.18	6.13	
20	7.30	7.13	7.49	9.05	7.90	9.05	8.16	6.74	6.27	6.21	6.18	6.11	
21	7.29	7.05	7.46	8.80	8.16	9.34	7.99	6.71	6.26	6.21	6.18	6.10	
22	7.25	6.95	7.34	8.43	8.09	8.99	7.91	6.69	6.25	6.21	6.18	6.10	
23	7.18	6.91	7.25	8.23	8.12	8.66	7.77	6.67	6.25	6.21	6.17	6.10	
24	7.09	6.88	7.86	8.46	8.72	9.33	7.67	6.65	6.25	6.20	6.17	6.10	
25	7.01	6.85	7.99	8.37	9.53	9.98	7.58	6.63	6.24	6.20	6.17	6.10	
26	6.93	6.83	7.73	8.27	9.09	9.54	7.52	6.61	6.24	6.20	6.16	6.10	
27	6.88	6.92	7.59	8.07	9.83	9.42	7.48	6.60	6.25	6.20	6.16	6.10	
28	6.86	6.91	7.47	7.92	10.55	9.15	7.43	6.59	6.25	6.20	6.16	6.08	
29	6.87	6.89	7.41	7.77	10.48	8.90	7.40	6.56	6.24	6.19	6.16	6.08	
30	6.88	6.87	7.33	8.06	9.60	8.71	7.36	6.56	6.24	6.19		6.09	
31		6.90		8.06	9.40		7.33		6.24	6.19		6.09	
Mean	7.44	7.26	7.97	8.16	8.56	9.69	8.36	6.88	6.30	6.22	6.18	6.14	
Max	7.77	8.00	12.30	9.18	10.55	10.85	10.05	7.28	6.52	6.24	6.20	6.21	12.30
Min	6.86	6.83	6.90	7.56	7.80	8.66	7.33	6.56	6.24	6.19	6.16	6.08	6.08

Annual Max Momentary Gage Height 12.94 M (MSL), at 3.00 Hours, on Jun 12, 1995
Zero Gage at Bottom Elevation 6.30 M (MSL), River Bed 4.96 M (MSL)
Left Bank Elevation 14.36 M (MSL)
Right Bank Elevation 14.15 M (MSL), Drainage Area 671 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	9.80	13.68	41.38	56.58	107.45	70.26	24.12	3.00	0.00	0.00	0.00	
2	0.20	14.52	13.40	59.24	70.26	101.86	61.14	22.96	1.25	0.00	0.00	0.00	
3	0.50	26.25	14.24	49.74	70.64	148.56	60.38	21.80	0.25	0.00	0.00	0.00	
4	0.80	36.84	17.32	48.60	55.82	161.52	56.96	20.96	0.00	0.00	0.00	0.00	
5	1.00	32.28	33.88	53.54	52.02	169.20	53.16	21.80	0.00	0.00	0.00	0.00	
6	1.50	32.28	32.92	58.10	58.10	155.28	57.34	19.00	0.00	0.00	0.00	0.00	
7	1.60	32.28	25.63	48.22	51.26	146.64	74.44	18.44	0.00	0.00	0.00	0.00	
8	1.60	31.96	27.80	38.55	48.22	132.72	103.58	18.44	0.00	0.00	0.00	0.00	
9	1.80	31.64	34.53	36.51	46.70	124.56	112.24	18.16	0.00	0.00	0.00	0.00	
10	1.90	31.00	73.68	36.84	48.98	108.31	135.60	17.88	0.00	0.00	0.00	0.00	
11	2.00	33.88	244.40	37.85	41.00	126.96	126.96	17.88	0.00	0.00	0.00	0.00	
12	2.00	32.92	238.30	40.30	45.94	164.40	109.60	16.76	0.00	0.00	0.00	0.00	
13	2.10	22.38	112.68	36.18	67.60	174.00	82.51	14.24	0.00	0.00	0.00	0.00	
14	2.20	48.22	69.88	32.92	78.21	140.88	74.44	12.84	0.00	0.00	0.00	0.00	
15	2.40	48.60	62.66	38.55	65.70	122.64	94.98	11.72	0.00	0.00	0.00	0.00	
16	2.80	36.84	52.02	55.06	67.98	118.32	91.54	11.16	0.00	0.00	0.00	0.00	
17	3.00	30.04	42.90	91.54	56.58	124.08	71.40	10.88	0.00	0.00	0.00	0.00	
18	3.80	22.09	36.51	83.80	47.84	103.58	60.38	10.32	0.00	0.00	0.00	0.00	
19	4.00	19.84	33.56	95.84	46.32	87.67	56.20	9.48	0.00	0.00	0.00	0.00	
20	4.20	19.84	30.68	90.25	44.80	90.25	54.68	8.92	0.00	0.00	0.00	0.00	
21	4.40	17.60	29.72	79.50	54.68	102.72	48.22	8.08	0.00	0.00	0.00	0.00	
22	4.60	14.80	25.94	64.94	52.02	87.67	45.18	7.52	0.00	0.00	0.00	0.00	
23	4.80	13.68	23.25	57.34	53.16	73.68	39.95	6.96	0.00	0.00	0.00	0.00	
24	5.00	12.84	43.28	66.08	76.06	102.29	36.51	6.40	0.00	0.00	0.00	0.00	
25	5.80	12.00	48.22	62.66	110.92	132.24	33.56	5.84	0.00	0.00	0.00	0.00	
26	6.00	11.44	38.55	58.86	91.97	111.36	31.64	5.28	0.00	0.00	0.00	0.00	
27	6.20	13.96	33.88	51.26	125.04	106.16	30.36	5.00	0.00	0.00	0.00	0.00	
28	6.80	13.68	30.04	45.56	159.60	94.55	28.76	4.75	0.00	0.00	0.00	0.00	
29	7.60	13.12	28.12	39.95	156.24	83.80	27.80	4.00	0.00	0.00	0.00	0.00	
30	8.00	12.56	25.63	50.88	114.00	75.63	26.56	4.00	0.00	0.00		0.00	
31		13.40		50.88	105.30		25.63		0.00	0.00		0.00	
Total	98.60	742.58	1537.30	1700.92	2219.54	3578.98	1981.96	385.59	4.50	0.00	0.00	0.00	12249.97 CMSDAY
Mean	3.29	23.95	51.24	54.87	71.60	119.30	63.93	12.85	0.15	0.00	0.00	0.00	33.47 CMS
Max	8.00	48.60	244.40	95.84	159.60	174.00	135.60	24.12	3.00	0.00	0.00	0.00	244.40 CMS
Min	0.00	9.80	13.40	32.92	41.00	73.68	25.63	4.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	8.519	64.159	132.823	146.960	191.768	309.224	171.241	33.315	0.389	0.000	0.000	0.000	1058.397 MCM

Momentary Peak 278.12 CMS, at 12.94 M (MSL), at 3.00 Hours, on Jun 12, 1995

Runoff Yield 49.88 Liters/Second/Square KM, Momentary Peak Yield 414.49 Liters/Second/Square KM

WATER YEAR 1995

EAST COAST-GULF BASIN

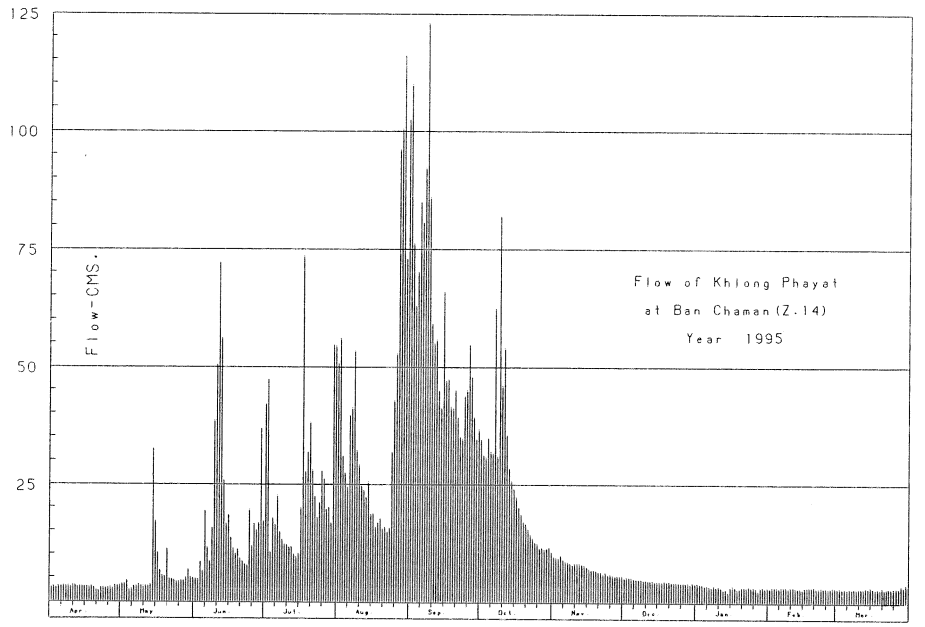
Khlong Phayat at Ban Chaman, Chanthaburi (Z.14)

Location	Lat. 12-44-25 N., Long. 102-12-39 E., on left bank at the bridge of Khlong Phayat near Wat Chaman, Amphoe Makham, Chanthaburi.
Drainage Area	245 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 30 meters from the top staff gage.
Elevation	+8.170 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1968 to date.
Rating Operation	
Period of Rating	1986 to date.
Rated by Float	-
Rated by Current Meter	1986 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.82	0.89	0.99	3.05	3.42	5.41	2.72	1.36	1.02	0.91	0.81	0.81	
2	0.83	0.88	0.98	3.28	3.63	4.39	2.58	1.34	1.03	0.90	0.82	0.81	
3	0.81	0.96	1.27	1.42	2.57	3.91	2.55	1.34	1.03	0.88	0.84	0.80	
4	0.83	0.75	1.13	1.84	2.37	4.17	2.74	1.37	1.02	0.86	0.83	0.80	
5	0.85	0.79	1.93	1.76	2.21	4.66	2.61	1.32	1.01	0.87	0.81	0.79	
6	0.85	0.83	1.47	2.11	2.95	4.53	2.60	1.28	0.98	0.83	0.83	0.79	
7	0.85	0.85	1.29	1.68	3.02	4.88	3.89	1.28	0.99	0.83	0.83	0.79	
8	0.85	0.87	1.72	1.58	3.53	5.78	2.56	1.25	0.98	0.85	0.83	0.79	
9	0.83	0.85	2.90	1.53	2.62	4.69	4.57	1.23	0.98	0.83	0.81	0.79	
10	0.86	0.84	3.41	1.51	2.47	3.75	3.22	1.25	0.96	0.84	0.82	0.79	
11	0.86	0.84	4.25	1.48	2.22	3.59	3.55	1.26	0.97	0.81	0.84	0.80	
12	0.83	0.85	3.63	1.49	2.17	3.62	2.77	1.25	0.96	0.78	0.81	0.80	
13	0.83	0.87	2.29	1.39	2.09	3.18	2.43	1.24	0.96	0.77	0.81	0.81	
14	0.84	2.64	1.77	1.35	2.27	3.02	2.29	1.22	0.94	0.73	0.80	0.81	
15	0.82	1.81	1.88	1.40	1.89	4.02	2.19	1.20	0.94	0.83	0.79	0.83	
16	0.82	1.41	1.61	1.96	1.89	3.26	2.09	1.16	0.94	0.85	0.81	0.80	
17	0.82	1.14	1.46	4.30	1.74	3.28	1.97	1.15	0.94	0.83	0.83	0.80	
18	0.83	1.05	1.39	2.39	1.78	3.03	1.88	1.14	0.95	0.78	0.82	0.79	
19	0.81	1.04	1.46	2.61	1.84	3.02	1.80	1.14	0.94	0.80	0.83	0.79	
20	0.76	1.45	1.32	2.89	1.72	3.18	1.77	1.11	0.94	0.82	0.83	0.82	
21	0.73	0.99	1.29	2.41	1.73	2.93	1.71	1.12	0.94	0.82	0.81	0.79	
22	0.81	0.99	1.24	2.10	1.68	2.75	1.65	1.08	0.93	0.82	0.81	0.80	
23	0.80	0.96	1.21	1.85	1.72	2.73	1.60	1.10	0.92	0.83	0.82	0.80	
24	0.80	0.94	1.94	2.02	2.61	3.13	1.55	1.07	0.92	0.82	0.81	0.80	
25	0.80	0.93	1.50	2.39	3.09	3.18	1.53	1.07	0.90	0.82	0.80	0.80	
26	0.81	0.95	1.77	2.31	3.50	3.58	1.47	1.06	0.91	0.80	0.80	0.81	
27	0.80	0.96	1.70	1.94	5.00	3.30	1.48	1.05	0.91	0.75	0.81	0.81	
28	0.85	1.02	1.78	1.97	5.13	2.93	1.45	1.05	0.91	0.82	0.82	0.86	
29	0.85	1.15	2.83	1.78	5.60	2.73	1.47	1.05	0.89	0.82	0.82	0.84	
30	0.85	1.02	1.80	3.58	4.28	2.82	1.48	1.05	0.91	0.80		0.89	
31		1.01		3.57	5.19		1.42		0.91	0.81		0.83	
Mean	0.82	1.05	1.84	2.16	2.84	3.65	2.24	1.19	0.95	0.82	0.82	0.81	
Max	0.86	2.64	4.25	4.30	5.60	5.78	4.57	1.37	1.03	0.91	0.84	0.89	5.78
Min	0.73	0.75	0.98	1.35	1.68	2.73	1.42	1.05	0.89	0.73	0.79	0.79	0.73

Annual Max Momentary Gage Height 6.39 M (A.D), at 6.00 Hours, on Sep 1, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.25 M (A.D)
Left Bank Elevation 8.40 M (A.D)
Right Bank Elevation 8.14 M (A.D), Drainage Area 245 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	3.90	4.90	42.06	50.90	109.93	34.54	9.80	5.26	4.10	3.10	3.10	
2	3.30	3.80	4.80	47.52	56.15	76.31	31.40	9.50	5.39	4.00	3.20	3.10	
3	3.10	4.60	8.51	10.72	31.20	63.17	30.80	9.50	5.39	3.80	3.40	3.00	
4	3.30	2.50	6.69	17.92	27.46	70.19	34.99	9.95	5.26	3.60	3.30	3.00	
5	3.50	2.90	19.54	16.48	24.58	85.18	32.03	9.20	5.13	3.70	3.10	2.90	
6	3.50	3.30	11.52	22.78	39.78	80.89	31.80	8.64	4.80	3.30	3.30	2.90	
7	3.50	3.50	8.77	15.04	41.38	92.44	62.65	8.64	4.90	3.30	3.30	2.90	
8	3.50	3.70	15.76	13.28	53.65	123.10	31.00	8.25	4.80	3.50	3.30	2.90	
9	3.30	3.50	38.64	12.48	32.26	86.17	82.21	7.99	4.80	3.30	3.10	2.90	
10	3.60	3.40	50.65	12.16	29.26	59.15	46.08	8.25	4.60	3.40	3.20	2.90	
11	3.60	3.40	72.35	11.68	24.76	55.15	54.15	8.38	4.70	3.10	3.40	3.00	
12	3.30	3.50	56.15	11.84	23.86	55.90	35.68	8.25	4.60	2.80	3.10	3.00	
13	3.30	3.70	26.02	10.25	22.42	45.12	28.54	8.12	4.60	2.70	3.10	3.10	
14	3.40	32.71	16.66	9.65	25.66	41.38	26.02	7.86	4.40	2.30	3.00	3.10	
15	3.20	17.38	18.64	10.40	18.82	66.14	24.22	7.60	4.40	3.30	2.90	3.30	
16	3.20	10.56	13.78	20.08	18.82	47.04	22.42	7.08	4.40	3.50	3.10	3.00	
17	3.20	6.82	11.36	73.70	16.12	47.52	20.26	6.95	4.40	3.30	3.30	3.00	
18	3.30	5.65	10.25	27.82	16.84	41.60	18.64	6.82	4.50	2.80	3.20	2.90	
19	3.10	5.52	11.36	32.03	17.92	41.38	17.20	6.82	4.40	3.00	3.30	2.90	
20	2.60	11.20	9.20	38.41	15.76	45.12	16.66	6.43	4.40	3.20	3.30	3.20	
21	2.30	4.90	8.77	28.18	15.94	39.32	15.58	6.56	4.40	3.20	3.10	2.90	
22	3.10	4.90	8.12	22.60	15.04	35.22	14.50	6.04	4.30	3.20	3.10	3.00	
23	3.00	4.60	7.73	18.10	15.76	34.76	13.60	6.30	4.20	3.30	3.20	3.00	
24	3.00	4.40	19.72	21.16	32.03	43.92	12.80	5.91	4.20	3.20	3.10	3.00	
25	3.00	4.30	12.00	27.82	42.97	45.12	12.48	5.91	4.00	3.20	3.00	3.00	
26	3.10	4.50	16.66	26.38	52.90	54.90	11.52	5.78	4.10	3.00	3.00	3.10	
27	3.00	4.60	15.40	19.72	96.40	48.00	11.68	5.65	4.10	2.50	3.10	3.10	
28	3.50	5.26	16.84	20.26	100.69	39.32	11.20	5.65	4.10	3.20	3.20	3.60	
29	3.50	6.95	37.04	16.84	116.20	34.76	11.52	5.65	3.90	3.20	3.20	3.40	
30	3.50	5.26	17.20	54.90	73.16	36.82	11.68	5.65	4.10	3.00		3.90	
31		5.13		54.65	102.67		10.72		4.10	3.10		3.30	
Total	97.00	190.34	575.03	766.91	1251.36	1745.02	818.57	223.13	140.63	100.10	92.00	95.40	6095.49 CMSDAY
Mean	3.23	6.14	19.17	24.74	40.37	58.17	26.41	7.44	4.54	3.23	3.17	3.08	16.65 CMS
Max	3.60	32.71	72.35	73.70	116.20	123.10	82.21	9.95	5.39	4.10	3.40	3.90	123.10 CMS
Min	2.30	2.50	4.80	9.65	15.04	34.76	10.72	5.65	3.90	2.30	2.90	2.90	2.30 CMS
Runoff	8.381	16.445	49.683	66.261	108.118	150.770	70.724	19.278	12.150	8.649	7.949	8.243	526.650 MCM

Momentary Peak 147.77 CMS, at 6.39 M (A.D), at 6.00 Hours, on Sep 1, 1995

Runoff Yield 67.98 Liters/Second/Square KM, Momentary Peak Yield 603.143 Liters/Second/Square KM

WATER YEAR 1995

EAST COAST-GULF BASIN

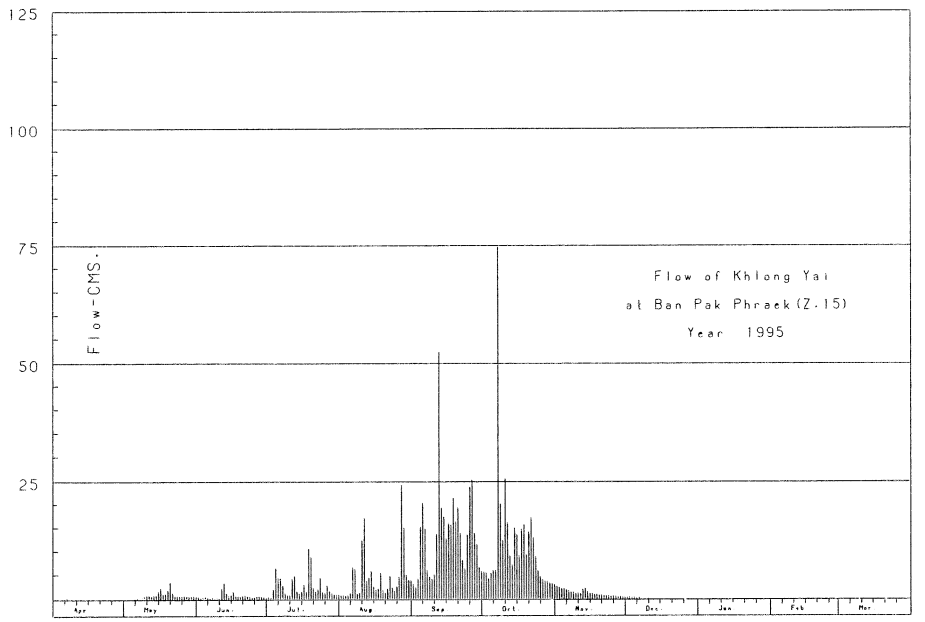
Khlong Yai at Ban Pak Phraek, Rayong (Z.15)

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	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 58 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.99	28.91	29.14	29.11	29.36	30.09	30.74	30.00	29.12	28.83	28.75	28.72	
2	28.98	28.95	29.10	29.14	29.33	29.94	30.70	29.91	29.12	28.83	28.75	28.83	
3	28.98	28.99	29.10	29.83	29.33	30.39	30.41	29.88	29.11	28.83	28.74	28.94	
4	28.98	28.99	29.18	30.97	29.30	31.66	30.70	29.85	29.08	28.83	28.74	28.82	
5	28.97	29.00	29.11	30.45	29.60	31.86	30.84	29.82	29.05	28.83	28.74	28.78	
6	29.09	29.01	29.08	30.40	31.01	31.65	30.82	29.73	29.04	28.83	28.74	28.76	
7	29.03	29.03	29.06	30.04	30.89	30.83	32.79	29.67	29.03	28.85	28.74	28.76	
8	29.00	29.07	29.04	29.54	29.52	30.50	31.86	29.63	29.02	28.85	28.73	28.75	
9	28.99	29.25	29.03	29.39	29.56	30.35	31.53	29.56	29.01	28.84	28.72	28.74	
10	28.98	29.29	29.03	29.32	31.52	30.62	32.02	29.55	29.00	28.84	28.71	28.73	
11	28.97	29.31	29.86	30.36	31.75	31.59	31.70	29.53	28.98	28.84	28.71	28.72	
12	28.96	29.26	30.19	30.55	30.27	32.55	31.29	29.81	28.95	28.83	28.70	28.72	
13	28.95	29.29	29.56	29.71	30.46	31.83	31.06	29.89	28.95	28.83	28.70	28.71	
14	28.94	29.39	29.27	29.50	30.81	31.76	31.65	29.65	28.95	28.82	28.70	28.71	
15	28.94	29.68	29.39	29.70	29.98	31.55	31.59	29.56	28.95	28.82	28.70	28.71	
16	28.93	29.88	29.65	30.06	29.78	31.70	31.28	29.48	28.95	28.86	28.70	28.70	
17	28.93	29.49	29.28	29.69	29.88	31.68	31.64	29.44	28.95	28.84	28.70	28.70	
18	28.92	29.46	29.21	31.42	30.69	31.90	31.69	29.40	28.95	28.83	28.70	28.70	
19	28.92	29.79	29.23	31.25	29.75	31.72	31.31	29.37	28.91	28.83	28.70	28.69	
20	28.92	30.25	29.26	29.90	29.61	31.83	31.61	29.35	28.91	28.80	28.70	28.69	
21	28.91	29.56	29.34	29.66	29.85	31.60	31.75	29.32	28.91	28.78	28.72	28.69	
22	28.91	29.28	29.26	29.84	30.55	31.20	31.56	29.30	28.91	28.76	28.70	28.69	
23	28.91	29.25	29.17	30.46	29.92	30.90	31.26	29.27	28.91	28.74	28.70	28.69	
24	28.91	29.25	29.13	29.61	29.71	31.59	30.82	29.24	28.91	28.74	28.70	28.69	
25	28.91	29.25	29.12	29.58	30.00	31.97	30.49	29.22	28.89	28.78	28.71	28.69	
26	28.91	29.24	29.24	30.02	30.47	32.01	30.36	29.19	28.88	28.76	28.72	28.68	
27	28.91	29.23	29.25	29.73	31.98	31.60	30.28	29.17	28.86	28.76	28.70	28.68	
28	28.91	29.23	29.16	29.52	31.66	31.48	30.24	29.17	28.85	28.75	28.70	28.68	
29	28.93	29.23	29.12	29.44	30.59	31.00	30.18	29.15	28.83	28.74	28.70	28.68	
30	28.93	29.23	29.11	29.39	30.34	30.77	30.10	29.10	28.83	28.74		28.68	
31		29.23		29.37	30.29		30.06		28.83	28.74		28.68	
Mean	28.95	29.30	29.26	29.90	30.25	31.34	31.11	29.51	28.96	28.80	28.71	28.72	
Max	29.09	30.25	30.19	31.42	31.98	32.55	32.79	30.00	29.12	28.86	28.75	28.94	32.79
Min	28.91	28.91	29.03	29.11	29.30	29.94	30.06	29.10	28.83	28.74	28.70	28.68	28.68

Annual Max Momentary Gage Height 33.12 M (MSL), at 6.00 Hours, on Oct 7, 1995
Zero Gage at Bottom Elevation 29.00 M (MSL), River Bed 28.65 M (MSL)
Left Bank Elevation 33.13 M (MSL)
Right Bank Elevation 33.15 M (MSL), Drainage Area 244 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.02	0.48	0.42	0.92	3.16	5.76	2.80	0.44	0.00	0.00	0.00	
2	0.16	0.10	0.40	0.48	0.86	2.56	5.60	2.44	0.44	0.00	0.00	0.00	
3	0.16	0.18	0.40	2.12	0.86	4.36	4.44	2.32	0.42	0.00	0.00	0.08	
4	0.16	0.18	0.56	6.68	0.80	15.32	5.60	2.20	0.36	0.00	0.00	0.00	
5	0.14	0.20	0.42	4.60	1.40	20.36	6.16	2.08	0.30	0.00	0.00	0.00	
6	0.38	0.22	0.36	4.40	6.87	15.10	6.08	1.79	0.28	0.00	0.00	0.00	
7	0.26	0.26	0.32	2.96	6.36	6.12	75.08	1.61	0.26	0.00	0.00	0.00	
8	0.20	0.34	0.28	1.28	1.24	4.80	20.36	1.49	0.24	0.00	0.00	0.00	
9	0.18	0.70	0.26	0.98	1.32	4.20	12.60	1.32	0.22	0.00	0.00	0.00	
10	0.16	0.78	0.26	0.84	12.40	5.28	25.68	1.30	0.20	0.00	0.00	0.00	
11	0.14	0.82	2.24	4.24	17.35	13.80	16.20	1.26	0.16	0.00	0.00	0.00	
12	0.12	0.72	3.56	5.00	3.88	52.60	9.30	2.04	0.10	0.00	0.00	0.00	
13	0.10	0.78	1.32	1.73	4.64	19.43	7.22	2.36	0.10	0.00	0.00	0.00	
14	0.08	0.98	0.74	1.20	6.04	17.58	15.10	1.55	0.10	0.00	0.00	0.00	
15	0.08	1.64	0.98	1.70	2.72	13.00	13.80	1.32	0.10	0.00	0.00	0.00	
16	0.06	2.32	1.55	3.04	1.94	16.20	9.20	1.16	0.10	0.00	0.00	0.00	
17	0.06	1.18	0.76	1.67	2.32	15.76	14.88	1.08	0.10	0.00	0.00	0.00	
18	0.04	1.12	0.62	10.88	5.56	21.60	15.98	1.00	0.10	0.00	0.00	0.00	
19	0.04	1.97	0.66	8.90	1.85	16.66	9.52	0.94	0.02	0.00	0.00	0.00	
20	0.04	3.80	0.72	2.40	1.43	19.43	14.22	0.90	0.02	0.00	0.00	0.00	
21	0.02	1.32	0.88	1.58	2.20	14.00	17.35	0.84	0.02	0.00	0.00	0.00	
22	0.02	0.76	0.72	2.16	5.00	8.40	13.20	0.80	0.02	0.00	0.00	0.00	
23	0.02	0.70	0.54	4.64	2.48	6.40	9.00	0.74	0.02	0.00	0.00	0.00	
24	0.02	0.70	0.46	1.43	1.73	13.80	6.08	0.68	0.02	0.00	0.00	0.00	
25	0.02	0.70	0.44	1.36	2.80	23.98	4.76	0.64	0.00	0.00	0.00	0.00	
26	0.02	0.68	0.68	2.88	4.68	25.34	4.24	0.58	0.00	0.00	0.00	0.00	
27	0.02	0.66	0.70	1.79	24.32	14.00	3.92	0.54	0.00	0.00	0.00	0.00	
28	0.02	0.66	0.52	1.24	15.32	11.72	3.76	0.54	0.00	0.00	0.00	0.00	
29	0.06	0.66	0.44	1.08	5.16	6.80	3.52	0.50	0.00	0.00	0.00	0.00	
30	0.06	0.66	0.42	0.98	4.16	5.88	3.20	0.40	0.00	0.00		0.00	
31		0.66		0.94	3.96		3.04		0.00	0.00		0.00	
Total	3.02	26.47	22.69	85.60	152.57	417.64	364.85	39.22	4.14	0.00	0.00	0.08	1116.28 CMSDAY
Mean	0.10	0.85	0.76	2.76	4.92	13.92	11.77	1.31	0.13	0.00	0.00	0.00	3.05 CMS
Max	0.38	3.80	3.56	10.88	24.32	52.60	75.08	2.80	0.44	0.00	0.00	0.08	75.08 CMS
Min	0.02	0.02	0.26	0.42	0.80	2.56	3.04	0.40	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.261	2.287	1.960	7.396	13.182	36.084	31.523	3.389	0.358	0.000	0.000	0.007	96.447 MCM

Momentary Peak 152.00 CMS, at 33.12 M (MSL), at 6.00 Hours, on Oct 7, 1995
Runoff Yield 12.50 Liters/Second/Squáre KM, Momentary Peak Yield 622.951 Liters/Second/Square KM

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.1-10, Nov.22,95-Mar.31,96,discharge estimated by recession equation. Stage-discharge relation defined by 60 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

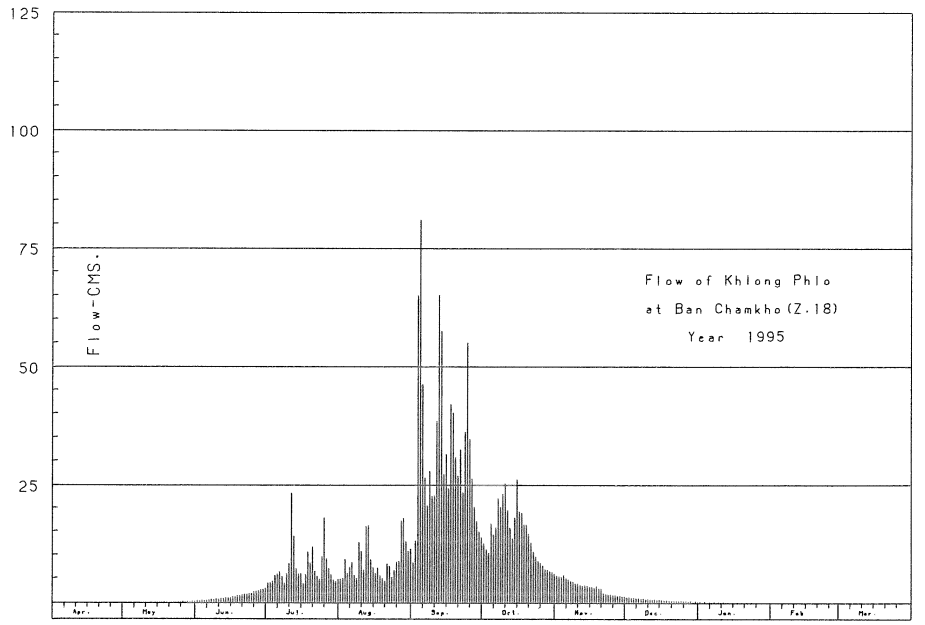
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.66	28.89	29.93	29.15	29.65	30.13	30.58	29.76	30.55	30.82	30.36	29.99	
2	28.65	28.83	29.91	29.19	29.69	30.64	30.45	29.73	31.03	30.83	30.34	30.01	
3	28.63	28.85	30.02	29.16	30.21	33.23	30.36	29.72	29.38	30.82	30.31	30.03	
4	28.61	30.35	30.31	29.77	29.82	33.63	31.00	29.77	29.19	30.83	30.29	30.03	
5	28.62	30.33	30.28	29.82	30.01	32.60	30.79	29.69	30.33	30.81	30.27	30.03	
6	28.59	30.15	30.28	29.87	30.12	31.70	30.92	29.64	30.77	30.80	30.25	30.00	
7	28.55	29.75	30.05	29.74	29.78	31.32	31.43	29.60	30.94	30.80	30.23	29.98	
8	28.52	29.66	29.99	29.51	29.67	31.78	31.30	29.57	30.90	30.79	30.18	29.95	
9	28.53	29.61	29.99	29.81	30.62	31.46	31.49	29.52	30.89	30.79	30.16	29.91	
10	28.53	29.60	30.38	30.09	30.39	31.47	31.64	29.50	30.84	30.79	30.13	29.89	
11	28.49	29.61	30.32	31.51	29.92	32.31	31.24	29.46	30.83	30.77	30.10	29.88	
12	28.39	29.61	30.63	30.76	30.95	33.23	30.92	29.42	30.83	30.75	30.07	29.85	
13	28.31	29.62	30.36	29.97	30.96	32.99	30.71	29.45	30.88	30.71	30.05	29.87	
14	28.35	29.89	30.32	29.80	30.21	31.74	31.11	29.42	30.82	30.69	30.03	29.90	
15	28.29	30.08	30.51	29.83	30.00	31.97	31.68	29.40	30.81	30.67	29.99	29.89	
16	28.28	30.06	30.31	29.50	29.83	31.58	31.22	29.37	30.81	30.64	29.98	29.89	
17	28.30	30.08	30.30	29.80	29.98	32.45	31.21	29.36	30.83	30.62	29.94	29.85	
18	28.25	29.92	30.54	30.38	29.77	32.39	30.98	29.41	30.84	30.60	29.93	29.82	
19	28.25	29.87	30.26	30.12	29.67	31.93	30.98	29.33	30.84	30.58	29.98	29.79	
20	28.25	29.89	30.31	30.50	29.61	31.72	30.80	29.31	30.71	30.56	30.03	29.76	
21	28.27	29.87	30.76	29.89	30.09	32.02	30.60	29.12	30.71	30.54	30.03	29.73	
22	28.25	29.83	30.37	29.75	30.04	31.52	30.40	30.17	30.75	30.51	30.04	29.70	
23	28.19	29.83	30.22	29.65	29.71	32.21	30.27	30.55	30.80	30.51	30.00	29.65	
24	28.19	29.84	30.13	30.28	29.93	32.90	30.17	30.61	30.84	30.48	30.02	29.64	
25	28.17	29.82	30.05	31.11	30.14	32.14	30.11	30.57	30.83	30.47	29.96	29.61	
26	28.16	29.79	29.95	30.22	30.17	31.69	30.05	30.56	30.83	30.47	29.95	29.63	
27	28.15	29.80	29.80	29.98	31.06	31.30	29.95	30.55	30.83	30.45	29.95	29.71	
28	28.61	30.16	29.66	29.78	31.10	31.04	29.93	30.54	30.82	30.43	29.97	29.73	
29	28.86	30.11	29.42	29.64	30.64	30.85	29.90	30.57	30.82	30.41	29.98	29.74	
30	28.84	29.99	29.20	29.57	30.40	30.72	29.86	30.56	30.82	30.39		29.75	
31		29.94		29.66	30.45		29.81		30.82	30.36		29.75	
Mean	28.42	29.79	30.15	29.93	30.15	31.89	30.71	29.81	30.71	30.64	30.09	29.84	
Max	28.86	30.35	30.76	31.51	31.10	33.63	31.68	30.61	31.03	30.83	30.36	30.03	33.63
Min	28.15	28.83	29.20	29.15	29.61	30.13	29.81	29.12	29.19	30.36	29.93	29.61	28.15

Annual Max Momentary Gage Height — 33.83 M (MSL), at 12.00 Hours, on Sep 4, 1995

Zero Gage at Bottom Elevation — 28.14 M (MSL), River Bed — 28.05 M (MSL)

Left Bank Elevation — 34.44 M (MSL)

Right Bank Elevation — 34.96 M (MSL), Drainage Area — 167 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.03	0.41	4.06	4.95	8.54	12.52	5.72	1.20	0.24	0.05	0.01	
2	0.00	0.05	0.43	4.28	5.23	13.06	11.35	5.51	1.14	0.23	0.05	0.01	
3	0.00	0.06	0.45	4.50	9.19	65.20	10.54	5.44	1.08	0.22	0.04	0.01	
4	0.00	0.06	0.48	5.79	6.14	81.20	16.80	5.79	1.03	0.21	0.04	0.01	
5	0.00	0.06	0.50	6.14	7.58	46.40	14.50	5.23	0.98	0.20	0.04	0.01	
6	0.00	0.07	0.62	6.49	8.46	26.50	15.92	4.88	0.93	0.19	0.04	0.01	
7	0.00	0.07	0.65	5.58	5.86	20.68	22.22	4.60	0.88	0.18	0.04	0.01	
8	0.00	0.07	0.69	4.06	5.09	28.02	20.40	4.42	0.84	0.17	0.03	0.01	
9	0.00	0.08	0.72	6.07	12.88	22.64	23.06	4.12	0.79	0.16	0.03	0.01	
10	0.00	0.08	0.76	8.22	10.81	22.78	25.36	4.00	0.75	0.15	0.03	0.01	
11	0.00	0.10	0.80	23.34	6.86	38.53	19.56	3.76	0.72	0.15	0.03	0.01	
12	0.00	0.10	0.94	14.20	16.25	65.20	15.92	3.52	0.68	0.14	0.03	0.01	
13	0.00	0.11	0.99	7.26	16.36	57.71	13.70	3.70	0.65	0.13	0.03	0.01	
14	0.00	0.12	1.05	6.00	9.19	27.26	18.01	3.52	0.61	0.13	0.03	0.01	
15	0.00	0.13	1.10	6.21	7.50	31.63	26.12	3.40	0.58	0.12	0.02	0.01	
16	0.01	0.13	1.24	4.00	6.21	24.32	19.28	3.25	0.55	0.11	0.02	0.00	
17	0.01	0.14	1.30	6.00	7.34	42.05	19.14	3.20	0.53	0.11	0.02	0.00	
18	0.02	0.15	1.47	10.72	5.79	40.37	16.58	3.46	0.50	0.10	0.02	0.00	
19	0.02	0.15	1.55	8.46	5.09	30.87	16.58	3.05	0.48	0.10	0.02	0.00	
20	0.02	0.16	1.63	11.80	4.67	26.88	14.60	2.95	0.45	0.09	0.02	0.00	
21	0.02	0.17	1.71	6.63	8.22	32.58	12.70	2.00	0.43	0.09	0.02	0.00	
22	0.02	0.18	1.81	5.65	7.82	23.48	10.90	1.90	0.41	0.08	0.02	0.00	
23	0.02	0.19	1.90	4.95	5.37	36.23	9.73	1.81	0.39	0.08	0.02	0.00	
24	0.02	0.20	2.00	9.82	6.94	55.10	8.86	1.71	0.37	0.08	0.02	0.00	
25	0.02	0.22	2.32	18.01	8.62	34.86	8.38	1.63	0.35	0.07	0.01	0.00	
26	0.02	0.23	2.44	9.28	8.86	26.31	7.90	1.55	0.33	0.07	0.01	0.00	
27	0.02	0.24	2.57	7.34	17.46	20.40	7.10	1.47	0.32	0.06	0.01	0.00	
28	0.03	0.26	2.71	5.86	17.90	17.24	6.94	1.40	0.30	0.06	0.01	0.00	
29	0.03	0.27	2.85	4.88	13.06	15.15	6.70	1.33	0.28	0.06	0.01	0.00	
30	0.03	0.29	3.00	4.42	10.90	13.80	6.42	1.26	0.27	0.06		0.00	
31		0.30		5.02	11.35		6.07		0.26	0.05		0.00	
Total	0.31	4.47	41.09	235.04	277.95	994.99	443.86	99.58	19.08	3.89	0.76	0.15	2121.17 CMSDAY
Mean	0.01	0.14	1.37	7.58	8.97	33.17	14.32	3.32	0.62	0.13	0.03	0.00	5.80 CMS
Max	0.03	0.30	3.00	23.34	17.90	81.20	26.12	5.79	1.20	0.24	0.05	0.01	81.20 CMS
Min	0.00	0.03	0.41	4.00	4.67	8.54	6.07	1.26	0.26	0.05	0.01	0.00	0.00 CMS
Runoff	0.027	0.386	3.550	20.307	24.015	85.967	38.350	8.604	1.649	0.336	0.066	0.013	183.269 MCM

Momentary Peak 89.29 CMS, at 33.83 M (MSL), at 12.00 Hours, on Sep 4, 1995

Runoff Yield 34.70 Liters/Second/Square KM, Momentary Peak Yield 534.67 Liters/Second/Square KM

WATER YEAR 1995

CHANTHABURI RIVER BASIN

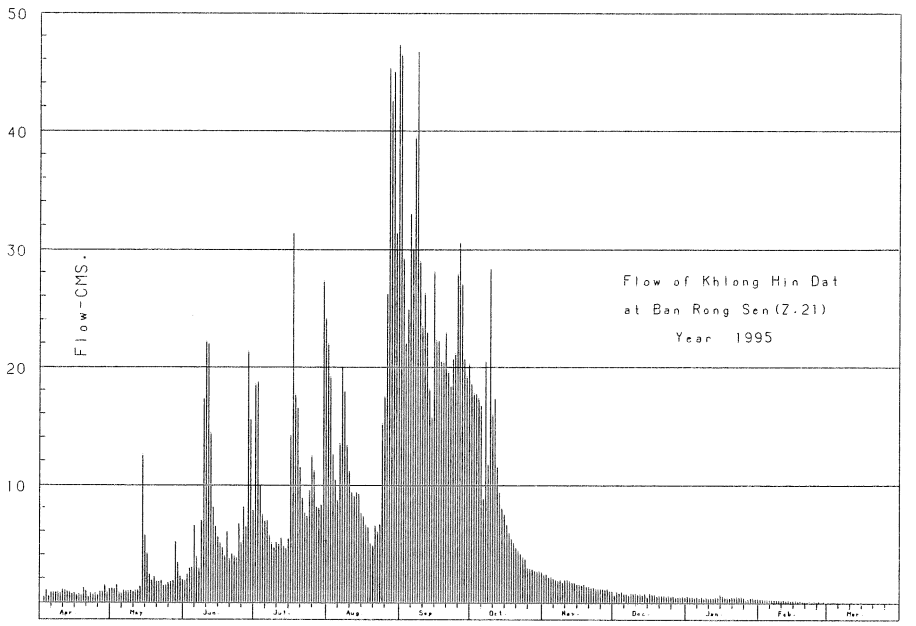
Khlong Hin Dat at Ban Rong Sen, Chanthaburi (Z.21)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir during Feb.1-Mar.31,96, discharge estimated by recession equation. Stage-discharge relation defined by 41 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.69	21.99	22.08	23.13	23.29	24.19	23.13	22.13	21.90	21.87	21.83	21.98	
2	21.85	21.98	22.13	23.14	23.16	23.57	23.09	22.13	21.94	21.86	21.99	21.97	
3	21.96	22.03	22.19	22.67	22.82	23.29	23.09	22.11	21.93	21.85	21.94	21.96	
4	21.87	21.93	22.19	22.53	22.70	23.41	23.07	22.11	21.94	21.85	21.93	21.97	
5	21.94	21.92	22.47	22.50	22.60	23.71	23.04	22.10	21.92	21.85	22.01	21.95	
6	21.94	21.96	22.28	22.50	22.87	23.60	22.61	22.08	21.91	21.84	21.97	21.95	
7	21.94	21.96	22.19	22.42	23.20	23.94	23.22	22.08	21.90	21.85	21.99	21.95	
8	21.94	21.95	22.50	22.37	23.10	24.20	22.77	22.08	21.92	21.83	21.98	21.96	
9	21.93	21.96	23.07	22.34	22.86	23.56	23.54	22.06	21.92	21.84	22.00	21.97	
10	21.97	21.96	23.30	22.37	22.74	23.35	23.00	22.08	21.92	21.83	22.00	21.97	
11	21.97	21.96	23.29	22.36	22.64	23.46	23.07	22.09	21.91	21.83	21.99	21.97	
12	21.95	21.97	22.92	22.40	22.62	23.33	22.76	22.07	21.91	21.84	21.97	21.97	
13	21.94	22.02	22.57	22.35	22.64	23.11	22.64	22.06	21.90	21.84	21.96	22.07	
14	21.92	22.82	22.47	22.33	22.63	22.99	22.56	22.05	21.91	21.85	21.96	22.03	
15	21.92	22.42	22.41	22.40	22.54	23.53	22.53	22.04	21.86	21.90	21.97	21.95	
16	21.90	22.30	22.37	22.91	22.52	23.30	22.48	22.03	21.92	21.87	21.96	21.97	
17	21.91	22.13	22.34	23.65	22.48	23.30	22.43	22.03	21.91	21.85	21.98	21.95	
18	21.90	22.08	22.28	23.09	22.46	23.22	22.40	22.03	21.90	21.84	22.00	22.02	
19	21.99	22.11	22.44	23.03	22.37	23.22	22.37	22.02	21.88	21.84	22.03	21.98	
20	21.96	22.07	22.26	22.76	22.35	23.33	22.34	22.01	21.88	21.85	22.01	21.95	
21	21.86	22.06	22.30	22.61	22.47	23.18	22.32	22.00	21.89	21.85	22.00	21.94	
22	21.92	22.08	22.28	22.54	22.44	23.12	22.30	22.00	21.88	21.86	22.01	21.94	
23	21.91	22.02	22.27	22.52	22.48	23.23	22.27	21.99	21.87	21.86	22.00	21.94	
24	21.92	22.03	22.48	22.65	22.96	23.25	22.26	21.98	21.88	21.86	21.98	21.95	
25	21.90	22.05	22.37	22.81	23.08	23.52	22.19	21.99	21.87	21.85	21.97	21.99	
26	21.94	22.06	22.57	22.74	23.46	23.62	22.18	21.98	21.87	21.77	21.98	21.98	
27	21.95	22.08	22.47	22.57	24.15	23.49	22.18	21.98	21.85	21.80	21.98	21.98	
28	22.03	22.38	23.26	22.56	24.05	23.23	22.16	21.98	21.85	21.84	21.98	21.95	
29	21.95	22.23	22.98	22.58	24.14	23.16	22.16	21.96	21.86	21.83	21.99	21.99	
30	21.98	22.12	22.55	23.50	23.65	23.21	22.16	21.95	21.86	21.82		22.06	
31		22.08		23.38	24.22		22.15		21.86	21.82		22.00	
Mean	21.93	22.09	22.51	22.70	22.96	23.42	22.60	22.04	21.89	21.84	21.98	21.97	
Max	22.03	22.82	23.30	23.65	24.22	24.20	23.54	22.13	21.94	21.90	22.03	22.07	24.22
Min	21.69	21.92	22.08	22.33	22.35	22.99	22.15	21.95	21.85	21.77	21.83	21.94	21.69

Annual Max Momentary Gage Height 25.18 M (MSL), at 18.00 Hours, on Aug 2, 1995
Zero Gage at Bottom Elevation 21.20 M (MSL), River Bed 20.85 M (MSL)
Left Bank Elevation 29.61 M (MSL)
Right Bank Elevation 29.68 M (MSL), Drainage Area 66 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	1.24	1.94	18.63	22.08	46.52	18.63	2.40	0.70	0.58	0.37	0.12	
2	0.50	1.18	2.40	18.84	19.26	29.29	17.80	2.40	0.94	0.54	0.35	0.11	
3	1.06	1.54	3.00	9.96	12.66	22.08	17.80	2.20	0.88	0.50	0.34	0.11	
4	0.58	0.88	3.00	7.51	10.50	24.97	17.40	2.20	0.94	0.50	0.32	0.10	
5	0.94	0.82	6.55	7.00	8.70	33.08	16.80	2.10	0.82	0.50	0.31	0.10	
6	0.94	1.06	3.98	7.00	13.56	30.10	8.88	1.94	0.76	0.46	0.30	0.09	
7	0.94	1.06	3.00	5.80	20.10	39.52	20.54	1.94	0.70	0.50	0.29	0.09	
8	0.94	1.00	7.00	5.11	18.00	46.80	11.76	1.94	0.82	0.42	0.28	0.09	
9	0.88	1.06	17.40	4.72	13.38	29.02	28.48	1.78	0.82	0.46	0.27	0.08	
10	1.12	1.06	22.30	5.11	11.22	23.50	16.00	1.94	0.82	0.42	0.26	0.08	
11	1.12	1.06	22.08	4.98	9.42	26.32	17.40	2.02	0.76	0.42	0.25	0.08	
12	1.00	1.12	14.48	5.50	9.06	23.02	11.58	1.86	0.76	0.46	0.24	0.07	
13	0.94	1.46	8.19	4.85	9.42	18.21	9.42	1.78	0.70	0.46	0.23	0.07	
14	0.82	12.66	6.55	4.59	9.24	15.81	8.02	1.70	0.76	0.50	0.22	0.07	
15	0.82	5.80	5.65	5.50	7.68	28.21	7.51	1.62	0.54	0.70	0.21	0.07	
16	0.70	4.20	5.11	14.29	7.34	22.30	6.70	1.54	0.82	0.58	0.20	0.06	
17	0.76	2.40	4.72	31.45	6.70	22.30	5.95	1.54	0.76	0.50	0.19	0.06	
18	0.70	1.94	3.98	17.80	6.40	20.54	5.50	1.54	0.70	0.46	0.19	0.06	
19	1.24	2.20	6.10	16.60	5.11	20.54	5.11	1.46	0.62	0.46	0.18	0.06	
20	1.06	1.86	3.76	11.58	4.85	23.02	4.72	1.38	0.62	0.50	0.17	0.05	
21	0.54	1.78	4.20	8.88	6.55	19.68	4.46	1.30	0.66	0.50	0.16	0.05	
22	0.82	1.94	3.98	7.68	6.10	18.42	4.20	1.30	0.62	0.54	0.16	0.05	
23	0.76	1.46	3.87	7.34	6.70	20.76	3.87	1.24	0.58	0.54	0.15	0.05	
24	0.82	1.54	6.70	9.60	15.24	21.20	3.76	1.18	0.62	0.54	0.15	0.05	
25	0.70	1.70	5.11	12.48	17.60	27.94	3.00	1.24	0.58	0.50	0.14	0.04	
26	0.94	1.78	8.19	11.22	26.32	30.64	2.90	1.18	0.58	0.24	0.14	0.04	
27	1.00	1.94	6.55	8.19	45.40	27.13	2.90	1.18	0.50	0.30	0.13	0.04	
28	1.54	5.24	21.42	8.02	42.60	20.76	2.70	1.18	0.50	0.46	0.12	0.04	
29	1.00	3.43	15.62	8.36	45.12	19.26	2.70	1.06	0.54	0.42	0.12	0.04	
30	1.18	2.30	7.85	27.40	31.45	20.32	2.70	1.00	0.54	0.38		0.04	
31		1.94		24.22	47.36		2.60		0.54	0.38		0.03	
Total	26.45	70.65	234.68	340.21	515.12	771.26	291.79	49.14	21.50	14.72	6.44	2.09	2344.05 CMSDAY
Mean	0.88	2.28	7.82	10.97	16.62	25.71	9.41	1.64	0.69	0.47	0.22	0.07	6.40 CMS
Max	1.54	12.66	22.30	31.45	47.36	46.80	28.48	2.40	0.94	0.70	0.37	0.12	47.36 CMS
Min	0.09	0.82	1.94	4.59	4.85	15.81	2.60	1.00	0.50	0.24	0.12	0.03	0.03 CMS
Runoff	2.285	6.104	20.276	29.394	44.506	66.637	25.211	4.246	1.858	1.272	0.556	0.181	202.526 MCM

Momentary Peak 79.70 CMS, at 25.18 M (MSL), at 18.00 Hours, on Aug 2, 1995
Runoff Yield 97.04 Liters/Second/Square KM, Momentary Peak Yield 1207.576 Liters/Second/Square KM

WATER YEAR 1995

EAST COAST-GULF BASIN

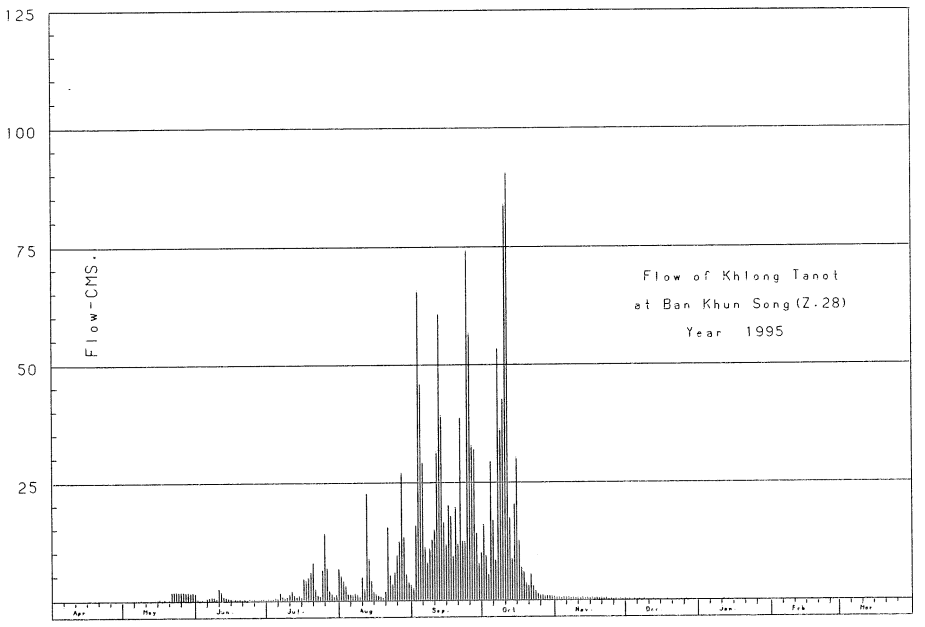
Khlong Tanot at Ban Khun Song, Chanthaburi (Z.28)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir during Apr.1-May 8, Jan.8-Mar.31,96,discharge estimated by recession equation. Stage-discharge relation defined by 47 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.44	33.35	33.34	33.36	34.29	33.93	35.39	33.50	33.34	33.25	33.65	33.59	
2	33.43	33.19	33.30	33.36	34.17	35.38	34.73	33.47	33.33	33.23	33.64	33.60	
3	33.42	33.18	33.29	33.35	34.00	38.72	34.33	33.46	33.32	33.22	33.65	33.60	
4	33.42	33.17	33.25	33.45	33.71	37.58	36.51	33.48	33.32	33.22	33.66	33.66	
5	33.42	33.16	33.46	33.42	33.70	36.49	35.49	33.51	33.31	33.22	33.65	33.72	
6	33.41	33.16	33.48	33.77	33.65	34.91	34.64	33.49	33.31	33.22	33.65	33.77	
7	33.41	33.15	33.58	33.54	33.74	34.59	38.02	33.45	33.30	33.22	33.65	33.80	
8	33.40	33.16	33.49	33.50	33.67	34.88	36.99	33.44	33.30	33.66	33.65	33.80	
9	33.39	33.22	33.44	33.50	33.56	35.08	37.39	33.44	33.30	33.70	33.64	33.79	
10	33.37	33.23	33.94	33.71	34.27	35.28	39.63	33.43	33.30	33.70	33.63	33.79	
11	33.36	33.19	33.80	33.83	33.91	36.65	39.97	33.43	33.29	33.71	33.62	33.79	
12	33.36	33.18	33.59	33.64	35.99	38.45	35.53	33.46	33.29	33.72	33.61	33.78	
13	33.35	33.19	33.50	33.56	34.67	37.18	34.66	33.44	33.29	33.73	33.60	33.80	
14	33.33	33.32	33.46	33.62	34.18	35.45	35.80	33.43	33.29	33.73	33.60	33.79	
15	33.32	33.36	33.41	33.55	33.83	34.96	36.56	33.43	33.29	33.74	33.60	33.78	
16	33.30	33.34	33.37	34.23	33.69	35.78	35.06	33.43	33.28	33.76	33.60	33.76	
17	33.29	33.32	33.35	34.16	33.64	35.57	34.48	33.43	33.27	33.67	33.63	33.77	
18	33.28	33.29	33.35	34.26	33.54	34.73	34.38	33.41	33.27	33.64	33.63	33.73	
19	33.28	33.22	33.34	34.37	33.50	35.73	34.10	33.41	33.27	33.60	33.62	33.70	
20	33.43	33.18	33.34	34.60	33.80	34.97	34.00	33.43	33.27	33.62	33.62	33.68	
21	33.41	33.27	33.35	33.91	35.35	37.15	34.34	33.41	33.27	33.67	33.61	33.66	
22	33.40	33.27	33.34	33.66	34.32	35.05	34.01	33.39	33.27	33.64	33.60	33.66	
23	33.39	33.25	33.34	33.55	34.06	35.03	33.83	33.36	33.27	33.62	33.60	33.65	
24	33.37	33.24	33.34	34.44	34.37	39.15	33.73	33.38	33.27	33.75	33.60	33.64	
25	33.37	33.23	33.35	35.21	34.76	38.21	33.66	33.37	33.27	33.73	33.60	33.78	
26	33.37	33.23	33.34	34.47	35.03	36.74	33.62	33.36	33.26	33.73	33.60	33.66	
27	33.38	33.23	33.36	33.86	36.33	36.69	33.60	33.35	33.26	33.73	33.60	33.41	
28	33.37	33.23	33.37	33.69	35.14	35.22	33.59	33.35	33.26	33.72	33.59	33.38	
29	33.37	33.25	33.35	33.59	34.33	34.56	33.60	33.35	33.25	33.71	33.59	33.37	
30	33.37	33.30	33.33	33.66	34.12	34.80	33.57	33.34	33.25	33.65		33.35	
31		33.33		34.47	34.03		33.53		33.25	33.65		33.32	
Mean	33.37	33.24	33.42	33.85	34.24	35.96	35.12	33.42	33.28	33.59	33.62	33.66	
Max	33.44	33.36	33.94	35.21	36.33	39.15	39.97	33.51	33.34	33.76	33.66	33.80	39.97
Min	33.28	33.15	33.25	33.35	33.50	33.93	33.53	33.34	33.25	33.22	33.59	33.32	33.15

Annual Max Momentary Gage Height 40.22 M (MSL), at 6.00 Hours, on Oct 11, 1995
Zero Gage at Bottom Elevation 32.60 M (MSL), River Bed 32.24 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.11	0.19	0.38	0.42	5.22	2.61	16.10	0.70	0.38	0.25	0.14	0.09	
2	0.12	0.20	0.30	0.42	4.29	16.00	9.50	0.64	0.36	0.23	0.14	0.09	
3	0.12	0.20	0.29	0.40	3.10	65.78	5.57	0.62	0.34	0.22	0.14	0.08	
4	0.12	0.20	0.25	0.60	1.45	46.06	29.64	0.66	0.34	0.22	0.14	0.08	
5	0.12	0.21	0.62	0.54	1.40	29.36	17.10	0.73	0.32	0.22	0.13	0.08	
6	0.12	0.21	0.66	1.75	1.20	11.30	8.60	0.68	0.32	0.22	0.13	0.08	
7	0.13	0.21	0.94	0.82	1.60	8.10	53.54	0.60	0.30	0.22	0.13	0.08	
8	0.13	0.22	0.68	0.70	1.28	11.00	36.45	0.58	0.30	0.22	0.13	0.08	
9	0.13	0.22	0.58	0.70	0.88	13.00	42.83	0.58	0.30	0.21	0.12	0.08	
10	0.13	0.23	2.68	1.45	5.06	15.00	83.90	0.56	0.30	0.21	0.12	0.07	
11	0.14	0.19	1.90	2.05	2.47	31.60	90.70	0.56	0.29	0.21	0.12	0.07	
12	0.14	0.18	0.97	1.16	22.88	60.85	17.50	0.62	0.29	0.20	0.12	0.07	
13	0.14	0.19	0.70	0.88	8.90	39.30	8.80	0.58	0.29	0.20	0.12	0.07	
14	0.14	0.34	0.62	1.08	4.36	16.70	20.60	0.56	0.29	0.20	0.11	0.07	
15	0.15	0.42	0.52	0.85	2.05	11.80	30.34	0.56	0.29	0.19	0.11	0.07	
16	0.15	0.38	0.44	4.74	1.36	20.36	12.80	0.56	0.28	0.19	0.11	0.07	
17	0.15	0.34	0.40	4.22	1.16	17.90	7.00	0.56	0.27	0.19	0.11	0.07	
18	0.15	0.29	0.40	4.98	0.82	9.50	6.02	0.52	0.27	0.18	0.11	0.07	
19	0.16	0.22	0.38	5.93	0.70	19.76	3.80	0.52	0.27	0.18	0.11	0.06	
20	0.16	0.18	0.38	8.20	1.90	11.90	3.10	0.56	0.27	0.18	0.10	0.06	
21	0.16	2.00	0.40	2.47	15.70	38.85	5.66	0.52	0.27	0.17	0.10	0.06	
22	0.16	1.97	0.38	1.24	5.48	12.70	3.17	0.48	0.27	0.17	0.10	0.06	
23	0.17	1.93	0.38	0.85	3.52	12.50	2.05	0.42	0.27	0.17	0.10	0.06	
24	0.17	1.90	0.38	6.60	5.93	74.30	1.55	0.46	0.27	0.16	0.10	0.06	
25	0.17	1.87	0.40	14.30	9.80	56.77	1.24	0.44	0.27	0.16	0.09	0.06	
26	0.18	1.84	0.38	6.90	12.50	32.86	1.08	0.42	0.26	0.16	0.09	0.06	
27	0.18	1.80	0.42	2.20	27.12	32.16	1.00	0.40	0.26	0.16	0.09	0.06	
28	0.18	1.77	0.44	1.36	13.60	14.40	0.97	0.40	0.26	0.15	0.09	0.05	
29	0.19	1.74	0.40	0.97	5.57	7.80	1.00	0.40	0.25	0.15	0.09	0.05	
30	0.19	1.71	0.36	1.24	3.94	10.20	0.91	0.38	0.25	0.15		0.05	
31		1.71		6.90	3.31		0.79		0.25	0.15		0.05	
Total	4.46	25.06	18.03	86.92	178.55	750.42	523.31	16.27	8.95	5 89	3.29	2.11	1623.26 CMSDAY
Mean	0.15	0.81	0.60	2.80	5.76	25.01	16.88	0.54	0.29	0.19	0.11	0.07	4.44 CMS
Max	0.19	2.00	2.68	14.30	27.12	74.30	90.70	0.73	0.38	0.25	0.14	0.09	90.70 CMS
Min	0.11	0.18	0.25	0.40	0.70	2.61	0.79	0.38	0.25	0.15	0.09	0.05	0.05 CMS
Runoff	0.385	2.165	1.558	7.510	15.427	64.836	45.214	1.406	0.773	0.509	0.284	0.182	140.250 MCM

Momentary Peak 95.70 CMS, at 40.22 M (MSL), at 6.00 Hours, on Oct 11, 1995
Runoff Yield 16.61 Liters/Second/Square KM, Momentary Peak Yield 358.427 Liters/Second/Square KM

WATER YEAR 1995

EAST COAST-GULF BASIN

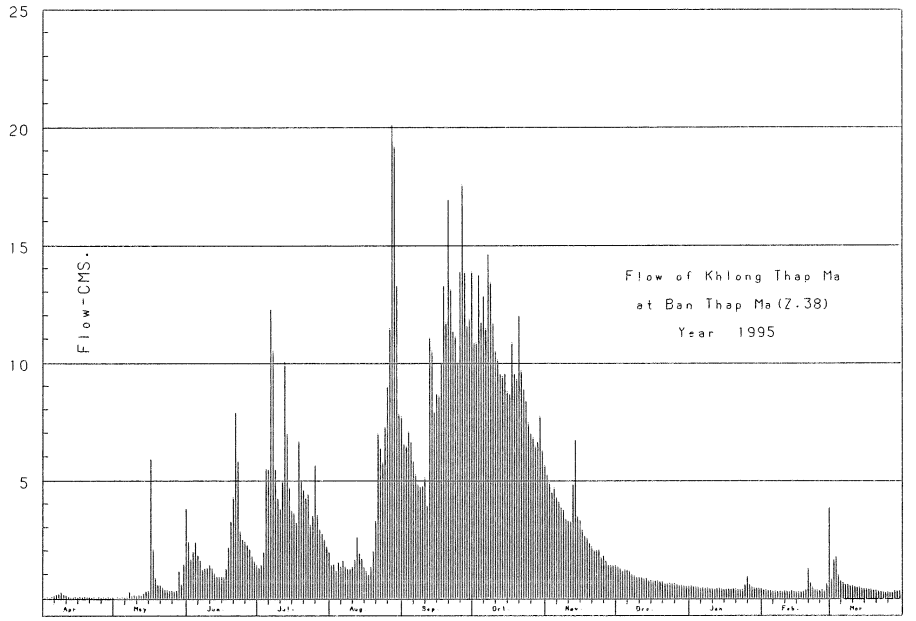
Khlong Thap Ma at Ban Thap Ma, Rayong (Z.38)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.27	1.12	0.86	0.90	1.72	2.14	1.57	0.88	0.58	0.50	0.72	
2	0.27	0.27	0.96	0.89	0.90	1.71	2.14	1.52	0.85	0.57	0.50	0.95	
3	0.27	0.27	1.03	1.03	0.83	1.78	2.35	1.46	0.83	0.56	0.49	0.99	
4	0.28	0.27	1.12	1.60	0.92	1.73	2.21	1.49	0.84	0.56	0.48	0.77	
5	0.35	0.27	1.00	1.60	0.88	1.64	2.29	1.43	0.84	0.53	0.47	0.69	
6	0.38	0.30	0.94	2.25	0.94	1.57	2.19	1.40	0.82	0.53	0.46	0.64	
7	0.41	0.45	0.84	2.11	0.88	1.51	2.41	1.37	0.78	0.53	0.46	0.61	
8	0.44	0.32	0.85	1.60	0.84	1.49	2.33	1.35	0.76	0.53	0.46	0.60	
9	0.39	0.37	0.86	1.42	0.85	1.50	2.21	1.30	0.74	0.52	0.46	0.58	
10	0.34	0.31	0.89	1.36	0.87	1.55	2.11	1.28	0.73	0.51	0.47	0.58	
11	0.30	0.37	0.86	1.53	0.95	1.38	2.08	1.28	0.74	0.50	0.46	0.57	
12	0.28	0.36	0.79	2.07	1.16	2.16	2.03	1.51	0.72	0.53	0.46	0.55	
13	0.29	0.41	0.75	1.77	1.02	2.11	2.02	1.74	0.72	0.53	0.48	0.55	
14	0.29	0.46	0.74	1.49	0.96	1.87	2.03	1.31	0.69	0.52	0.47	0.53	
15	0.28	0.47	0.75	1.35	0.87	1.95	1.96	1.29	0.69	0.50	0.45	0.51	
16	0.29	1.65	0.74	1.33	0.82	1.94	1.95	1.21	0.68	0.50	0.45	0.51	
17	0.29	1.06	0.85	1.27	0.78	2.07	2.14	1.17	0.69	0.51	0.45	0.51	
18	0.29	0.73	1.07	1.73	0.87	2.32	2.03	1.15	0.68	0.50	0.46	0.50	
19	0.29	0.60	1.28	1.54	1.04	2.21	2.01	1.11	0.67	0.52	0.50	0.49	
20	0.28	0.59	1.43	1.47	1.28	2.56	2.23	1.08	0.66	0.51	0.85	0.48	
21	0.28	0.54	1.87	1.42	1.77	2.31	2.04	1.05	0.63	0.50	0.65	0.47	
22	0.27	0.50	1.64	1.45	1.70	2.18	1.97	1.05	0.63	0.50	0.55	0.46	
23	0.27	0.49	1.20	1.25	1.63	2.16	1.92	1.05	0.63	0.50	0.50	0.44	
24	0.27	0.48	1.14	1.32	1.80	2.07	1.82	0.98	0.63	0.60	0.49	0.44	
25	0.27	0.47	1.12	1.62	1.98	2.36	1.77	0.99	0.63	0.76	0.48	0.44	
26	0.27	0.46	1.09	1.32	2.19	2.60	1.75	0.94	0.60	0.60	0.49	0.44	
27	0.27	0.47	1.06	1.22	2.74	2.36	1.71	0.90	0.59	0.56	0.47	0.44	
28	0.27	0.82	0.99	1.18	2.69	2.20	1.73	0.89	0.59	0.53	0.61	0.47	
29	0.27	0.61	0.93	1.14	2.32	2.22	1.85	0.89	0.58	0.53	1.37	0.47	
30	0.27	0.90	0.89	1.08	1.86	2.36	1.69	0.89	0.56	0.52		0.46	
31		1.36		1.03	1.85		1.62		0.58	0.52		0.46	
Mean	0.30	0.55	1.03	1.43	1.33	1.99	2.02	1.22	0.70	0.54	0.53	0.56	
Max	0.44	1.65	1.87	2.25	2.74	2.60	2.41	1.74	0.88	0.76	1.37	0.99	2.74
Min	0.27	0.27	0.74	0.86	0.78	1.38	1.62	0.89	0.56	0.50	0.45	0.44	0.27

Annual Max Momentary Gage Height 2.88 M (A.D), at 18.00 Hours, on Sep 26, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.25 M (A.D)
Left Bank Elevation 4.69 M (A.D)
Right Bank Elevation 4.70 M (A.D), Drainage Area 151 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.07	2.41	1.31	1.45	6.58	10.88	5.29	1.38	0.56	0.40	0.86	
2	0.07	0.07	1.69	1.42	1.45	6.49	10.88	4.94	1.28	0.54	0.40	1.65	
3	0.07	0.07	1.98	1.98	1.20	7.12	13.75	4.52	1.20	0.52	0.38	1.81	
4	0.08	0.07	2.41	5.50	1.53	6.67	11.74	4.73	1.24	0.52	0.36	1.01	
5	0.15	0.07	1.85	5.50	1.38	5.86	12.86	4.31	1.24	0.46	0.34	0.78	
6	0.18	0.10	1.61	12.30	1.61	5.29	11.48	4.10	1.17	0.46	0.32	0.68	
7	0.22	0.30	1.24	10.52	1.38	4.87	14.65	3.89	1.04	0.46	0.32	0.62	
8	0.28	0.12	1.28	5.50	1.24	4.73	13.45	3.75	0.98	0.46	0.32	0.60	
9	0.19	0.17	1.31	4.24	1.28	4.80	11.74	3.40	0.92	0.44	0.32	0.56	
10	0.14	0.11	1.42	3.82	1.35	5.15	10.52	3.29	0.89	0.42	0.34	0.56	
11	0.10	0.17	1.31	5.01	1.65	3.96	10.16	3.29	0.92	0.40	0.32	0.54	
12	0.08	0.16	1.07	10.04	2.63	11.12	9.56	4.87	0.86	0.46	0.32	0.50	
13	0.09	0.22	0.95	7.03	1.94	10.52	9.44	6.76	0.86	0.46	0.36	0.50	
14	0.09	0.32	0.92	4.73	1.69	7.93	9.56	3.47	0.78	0.44	0.34	0.46	
15	0.08	0.34	0.95	3.75	1.35	8.70	8.80	3.35	0.78	0.40	0.30	0.42	
16	0.09	5.95	0.92	3.61	1.17	8.60	8.70	2.91	0.76	0.40	0.30	0.42	
17	0.09	2.12	1.28	3.24	1.04	10.04	10.88	2.68	0.78	0.42	0.30	0.42	
18	0.09	0.89	2.17	6.67	1.35	13.30	9.56	2.57	0.76	0.40	0.32	0.40	
19	0.09	0.60	3.29	5.08	2.03	11.74	9.32	2.36	0.74	0.44	0.40	0.38	
20	0.08	0.58	4.31	4.59	3.29	16.96	12.02	2.21	0.72	0.42	1.28	0.36	
21	0.08	0.48	7.93	4.24	7.03	13.15	9.68	2.07	0.66	0.40	0.70	0.34	
22	0.07	0.40	5.86	4.45	6.40	11.36	8.90	2.07	0.66	0.40	0.50	0.32	
23	0.07	0.38	2.85	3.13	5.77	11.12	8.40	2.07	0.66	0.40	0.40	0.28	
24	0.07	0.36	2.52	3.54	7.30	10.04	7.48	1.77	0.66	0.60	0.38	0.28	
25	0.07	0.34	2.41	5.68	9.00	13.90	7.03	1.81	0.66	0.98	0.36	0.28	
26	0.07	0.32	2.26	3.54	11.48	17.60	6.85	1.61	0.60	0.60	0.38	0.28	
27	0.07	0.34	2.12	2.96	20.12	13.90	6.49	1.45	0.58	0.52	0.34	0.28	
28	0.07	1.17	1.81	2.74	19.22	11.60	6.67	1.42	0.58	0.46	0.62	0.34	
29	0.07	0.62	1.57	2.52	13.30	11.88	7.75	1.42	0.56	0.46	3.89	0.34	
30	0.07	1.45	1.42	2.21	7.84	13.90	6.31	1.42	0.52	0.44		0.32	
31		3.82		1.98	7.75		5.68		0.56	0.44		0.32	
Total	3.04	22.18	65.12	142.83	147.22	288.88	301.19	93.80	26.00	14.78	15.31	16.91	1137.26 CMSDAY
Mean	0.10	0.72	2.17	4.61	4.75	9.63	9.72	3.13	0.84	0.48	0.53	0.55	3.11 CMS
Max	0.28	5.95	7.93	12.30	20.12	17.60	14.65	6.76	1.38	0.98	3.89	1.81	20.12 CMS
Min	0.07	0.07	0.92	1.31	1.04	3.96	5.68	1.42	0.52	0.40	0.30	0.28	0.07 CMS
Runoff	0.263	1.916	5.626	12.341	12.720	24.959	26.023	8.104	2.246	1.277	1.323	1.461	98.259 MCM

Momentary Peak 22.64 CMS, at 2.88 M (A.D), at 18.00 Hours, on Sep 26, 1995
Runoff Yield 20.58 Liters/Second/Square KM, Momentary Peak Yield 149.934 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

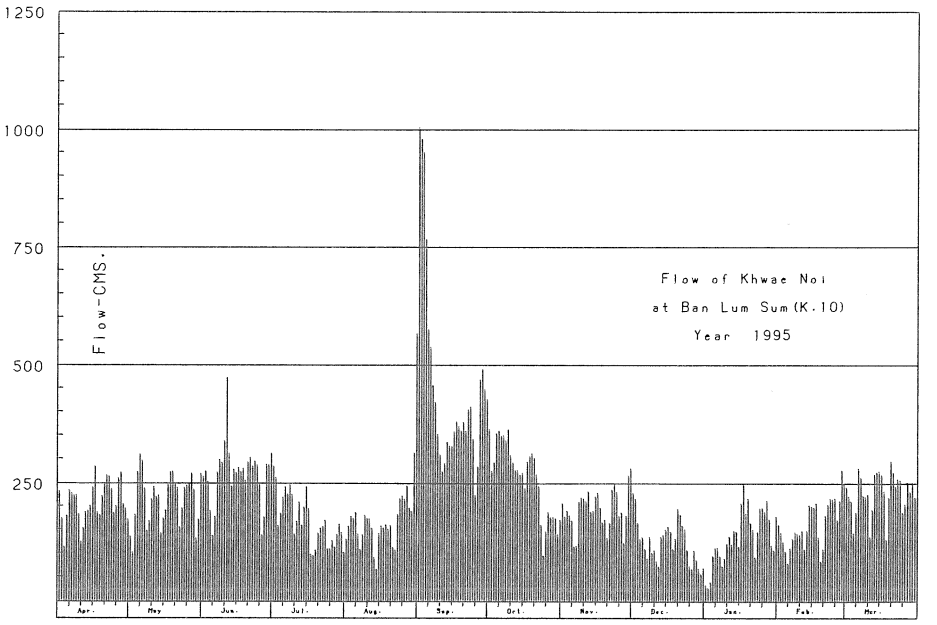
Khwae Noi River at Ban Lum Sum, Kanchanaburi (K.10)

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	No overbank flow.
General Description	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 287 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.59	32.42	33.93	34.19	32.35	40.45	34.98	33.30	33.56	31.12	32.73	33.69	
2	32.91	31.99	34.07	33.91	32.68	40.27	34.06	32.93	33.41	31.06	32.51	33.47	
3	32.14	32.99	33.82	32.70	32.94	40.04	34.27	33.10	32.78	31.21	32.26	33.36	
4	32.95	34.05	33.10	33.04	32.91	38.60	34.89	32.97	32.34	31.89	32.02	32.50	
5	33.62	34.46	32.45	33.44	33.06	37.00	34.96	32.84	32.40	32.11	31.71	33.05	
6	33.54	34.31	32.94	33.69	32.48	36.66	34.85	32.15	32.09	32.11	32.09	34.13	
7	33.50	33.66	34.04	33.53	32.07	35.92	34.85	32.16	31.83	31.89	32.36	33.92	
8	33.50	32.58	34.33	33.75	32.46	35.55	34.74	33.34	32.40	31.64	32.54	33.49	
9	33.02	32.82	34.26	33.51	32.98	34.88	34.99	33.44	31.98	31.82	32.48	33.46	
10	32.27	33.41	34.74	32.48	32.90	34.45	34.43	33.41	32.04	32.21	32.45	33.51	
11	32.64	33.69	36.08	32.81	32.88	34.06	34.27	33.34	31.75	32.42	32.56	32.40	
12	33.06	33.47	34.47	33.32	32.64	34.24	34.09	33.60	31.62	32.20	32.08	33.13	
13	33.11	33.49	33.71	32.73	31.85	34.72	34.08	33.07	32.41	32.56	32.57	33.99	
14	33.23	32.51	34.10	33.20	31.55	34.63	33.98	33.08	32.45	32.55	33.24	34.05	
15	33.69	32.90	34.03	33.70	32.50	34.63	34.02	33.47	32.60	32.15	33.22	34.06	
16	34.18	33.10	34.14	33.15	32.69	34.93	33.65	33.55	32.67	33.30	33.19	33.99	
17	33.06	33.76	34.05	31.94	32.65	35.15	34.28	33.18	32.55	33.75	33.30	33.59	
18	32.99	34.05	34.12	31.91	32.73	35.04	34.42	32.79	32.09	33.02	32.39	32.32	
19	33.47	34.05	33.84	32.05	32.60	34.96	34.47	32.85	32.35	33.42	31.76	33.45	
20	33.78	33.78	34.28	32.51	32.70	35.14	34.38	32.38	33.15	32.78	32.07	34.29	
21	33.96	33.67	34.38	32.63	32.13	34.94	33.98	32.78	33.01	32.60	32.96	34.04	
22	33.93	32.67	34.18	32.69	32.05	35.41	33.71	33.64	32.71	31.86	33.27	33.71	
23	33.65	33.16	34.30	32.84	33.01	35.46	32.72	33.78	32.60	32.54	33.43	33.87	
24	33.04	33.68	34.20	32.09	33.42	34.78	31.91	33.57	32.06	33.16	33.40	33.85	
25	33.22	33.72	33.78	32.08	33.48	33.49	32.54	32.95	31.62	33.18	33.42	33.06	
26	33.89	33.77	32.46	32.30	33.40	34.18	33.05	33.06	31.56	33.06	32.86	33.27	
27	34.04	34.02	32.94	32.14	33.72	36.03	32.92	32.24	32.04	33.36	33.37	33.81	
28	33.28	33.63	34.22	32.48	33.17	36.24	32.92	32.96	31.79	32.88	34.09	33.59	
29	33.15	32.36	34.21	32.74	33.07	35.83	32.90	33.97	31.56	32.17	33.74	33.79	
30	32.86	32.88	34.49	32.52	34.49	35.63	32.46	34.13	31.42	32.05		33.46	
31		34.00		32.00	36.91		32.84		31.57	32.94		33.43	
Mean	33.31	33.39	33.99	32.84	32.92	35.78	33.89	33.13	32.27	32.42	32.76	33.54	
Max	34.18	34.46	36.08	34.19	36.91	40.45	34.99	34.13	33.56	33.75	34.09	34.29	40.45
Min	32.14	31.99	32.45	31.91	31.55	33.49	31.91	32.15	31.42	31.06	31.71	32.32	31.06

Annual Max Momentary Gage Height 40.99 M (MSL), at 20.00 Hours, on Sep 1, 1995
Zero Gage at Bottom Elevation 30.40 M (MSL), River Bed 29.96 M (MSL)
Left Bank Elevation 47.12 M (MSL)
Right Bank Elevation 46.65 M (MSL), Drainage Area 7008 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	233.1	137.6	263.7	287.1	132.0	1004.5	364.0	208.0	230.4	33.6	162.4	242.1	
2	176.8	103.2	276.3	261.9	158.4	981.1	275.4	178.4	216.9	28.8	144.8	222.3	
3	115.2	183.2	253.8	160.0	179.2	951.2	294.3	192.0	166.4	40.8	124.8	212.8	
4	180.0	274.5	192.0	187.2	176.8	768.0	355.0	181.6	131.2	95.2	105.6	144.0	
5	235.8	312.0	140.0	219.6	188.8	576.0	362.0	171.2	136.0	112.8	80.8	188.0	
6	228.6	297.9	179.2	242.1	142.4	538.6	351.0	116.0	111.2	112.8	111.2	281.7	
7	225.0	239.4	273.6	227.7	109.6	458.0	351.0	116.8	90.4	95.2	132.8	262.8	
8	225.0	150.4	299.7	247.5	140.8	421.0	340.0	211.2	136.0	75.2	147.2	224.1	
9	185.6	169.6	293.4	225.9	182.4	354.0	365.0	219.6	102.4	89.6	142.4	221.4	
10	125.6	216.9	340.0	142.4	176.0	311.0	309.0	216.9	107.2	120.8	140.0	225.9	
11	155.2	242.1	474.8	168.8	174.4	275.4	294.3	211.2	84.0	137.6	148.8	136.0	
12	188.8	222.3	313.0	209.6	155.2	291.6	278.1	234.0	73.6	120.0	110.4	194.4	
13	192.8	224.1	243.9	162.4	92.0	338.0	277.2	189.6	136.8	148.8	149.6	269.1	
14	202.4	144.8	279.0	200.0	68.0	329.0	268.2	190.4	140.0	148.0	203.2	274.5	
15	242.1	176.0	272.7	243.0	144.0	329.0	271.8	222.3	152.0	116.0	201.6	275.4	
16	286.2	192.0	282.6	196.0	159.2	359.0	238.5	229.5	157.6	208.0	199.2	269.1	
17	188.8	248.4	274.5	99.2	156.0	381.0	295.2	198.4	148.0	247.5	208.0	233.1	
18	183.2	274.5	280.8	96.8	162.4	370.0	308.0	167.2	111.2	185.6	135.2	129.6	
19	222.3	274.5	255.6	108.0	152.0	362.0	313.0	172.0	132.0	217.8	84.8	220.5	
20	250.2	250.2	295.2	144.8	160.0	380.0	304.2	134.4	196.0	166.4	109.6	296.1	
21	266.4	240.3	304.2	154.4	114.4	360.0	268.2	166.4	184.8	152.0	180.8	273.6	
22	263.7	157.6	286.2	159.2	108.0	407.0	243.9	237.6	160.8	92.8	205.6	243.9	
23	238.5	196.8	297.0	171.2	184.8	412.0	161.6	250.2	152.0	147.2	218.7	258.3	
24	187.2	241.2	288.0	111.2	217.8	344.0	96.8	231.3	108.8	196.8	216.0	256.5	
25	201.6	244.8	250.2	110.4	223.2	224.1	147.2	180.0	73.6	198.4	217.8	188.8	
26	260.1	249.3	140.8	128.0	216.0	286.2	188.0	188.8	68.8	188.8	172.8	205.6	
27	273.6	271.8	179.2	115.2	244.8	469.3	177.6	123.2	107.2	212.8	213.6	252.9	
28	206.4	236.7	289.8	142.4	197.6	492.4	177.6	180.8	87.2	174.4	278.1	233.1	
29	196.0	132.8	288.9	163.2	189.6	449.0	176.0	267.3	68.8	117.6	246.6	251.1	
30	172.8	174.4	315.0	145.6	315.0	429.0	140.8	281.7	57.6	108.0		221.4	
31		270.0		104.0	566.1		171.2		69.6	179.2		218.7	
Total	6309.0	6749.3	8123.1	5334.8	5586.9	13651.4	8164.1	5868.0	3898.5	4268.5	4792.4	7126.8	79872.8 CMSDAY
Mean	210.3	217.7	270.8	172.1	180.2	455.0	263.4	195.6	125.8	137.7	165.3	229.9	218.2 CMS
Max	286.2	312.0	474.8	287.1	566.1	1004.5	365.0	281.7	230.4	247.5	278.1	296.1	1004.5 CMS
Min	115.2	103.2	140.0	96.8	68.0	224.1	96.8	116.0	57.6	28.8	80.8	129.6	28.8 CMS
Runoff	545.10	583.14	701.84	460.93	482.71	1179.48	705.38	507.00	336.83	368.80	414.06	615.76	6901.01 MCM

Momentary Peak 1074.70 CMS, at 40.99 M (MSL), at 20.00 Hours, on Sep 1, 1995
Runoff Yield 31.14 Liters/Second/Square KM, Momentary Peak Yield 153.353 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

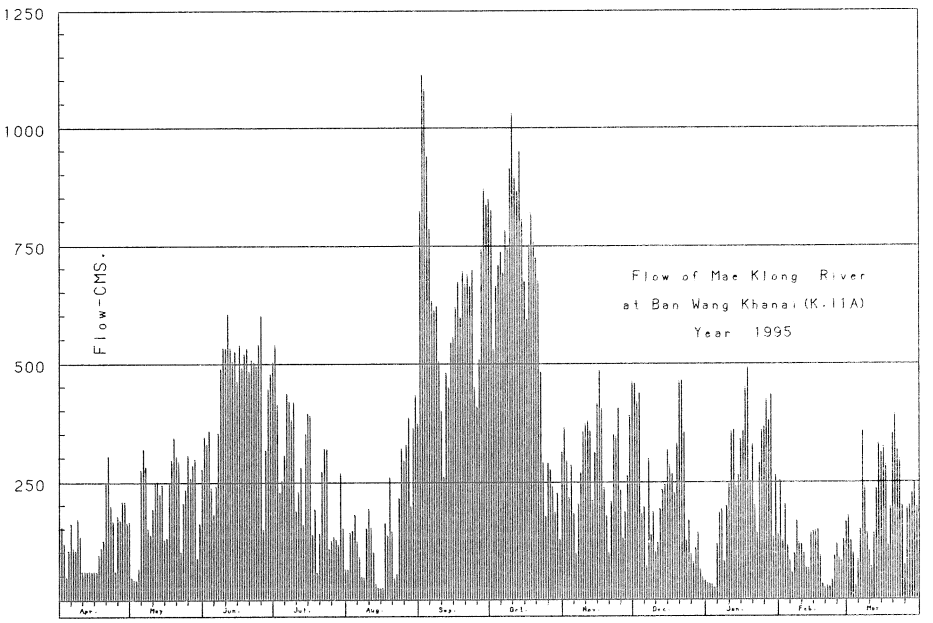
Mae Klong River at Ban Wang Khanai, Kanchanaburi (K.11A)

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	No overbank flow.
General Description	Records good. Flow regulated by Vachiralongkorn Diversion Dam. Stage-discharge relation defined by 61 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.98	11.27	12.84	13.50	11.41	14.32	14.33	12.91	13.24	11.15	12.46	12.10	
2	11.78	11.22	12.79	13.08	11.91	15.09	13.47	12.65	13.10	11.14	11.81	11.81	
3	11.28	11.22	12.89	12.35	11.94	15.01	13.87	12.29	13.17	11.12	12.23	11.64	
4	11.68	11.42	12.39	12.46	12.12	14.64	14.00	12.61	12.12	11.06	11.75	11.10	
5	12.03	12.56	12.12	12.69	11.80	14.22	14.08	12.13	12.20	11.76	11.53	11.55	
6	11.71	12.75	12.41	13.17	11.59	13.78	13.95	11.64	11.45	12.14	11.35	11.95	
7	11.69	12.60	12.87	13.11	11.28	13.72	14.21	12.23	12.66	12.17	11.64	12.89	
8	12.07	11.96	13.34	12.97	11.26	13.75	14.10	12.54	11.89	11.53	12.05	12.40	
9	11.87	11.89	13.48	13.10	11.97	13.39	14.57	12.88	12.14	12.21	11.78	11.91	
10	11.37	12.18	13.48	12.16	12.18	13.04	14.88	12.94	11.66	12.43	11.77	11.68	
11	11.37	12.44	13.70	12.35	11.97	12.50	14.52	12.96	11.78	12.88	11.64	11.44	
12	11.37	12.45	13.48	12.59	11.66	13.31	14.44	12.89	12.18	12.90	11.43	11.90	
13	11.37	12.33	13.39	12.01	11.14	13.21	14.67	12.26	12.37	12.40	11.42	12.38	
14	11.37	12.42	13.46	12.87	11.07	13.52	14.27	12.72	12.42	12.51	11.90	12.79	
15	11.37	11.82	13.25	13.02	11.05	13.55	13.90	13.09	12.74	12.82	11.93	12.72	
16	11.37	11.85	13.50	13.00	11.05	13.74	13.67	13.33	12.61	12.89	11.93	12.76	
17	11.62	12.45	13.35	11.89	12.03	13.90	14.12	13.05	12.53	13.21	11.95	12.61	
18	11.72	12.65	13.44	12.18	11.88	13.68	14.31	12.39	12.34	13.35	11.61	11.75	
19	11.81	12.84	13.48	11.36	12.50	13.96	14.14	12.11	12.79	12.46	11.14	12.19	
20	12.45	12.69	13.32	11.90	11.92	13.88	14.04	11.64	13.25	12.78	11.05	12.87	
21	12.69	12.64	13.40	12.55	11.24	13.94	13.90	12.25	13.26	12.21	11.09	13.01	
22	12.21	11.66	13.39	12.75	11.33	13.87	13.32	12.86	12.88	11.91	11.08	12.74	
23	12.05	12.24	13.36	12.75	12.29	13.97	12.63	12.84	11.81	12.63	11.22	12.66	
24	11.38	12.37	13.50	11.71	12.75	13.21	12.10	13.06	12.06	12.89	11.61	12.21	
25	12.10	12.69	13.69	11.81	12.65	13.07	12.63	12.37	11.63	12.92	11.77	11.48	
26	12.06	12.49	11.95	11.86	12.78	13.41	12.57	11.84	11.51	13.12	11.57	12.18	
27	12.25	12.61	12.74	11.83	12.99	14.09	12.40	12.14	11.71	12.97	11.54	12.21	
28	12.25	12.66	13.20	11.76	12.20	14.45	12.14	12.51	11.91	13.16	11.82	12.34	
29	12.03	11.58	13.30	12.53	12.91	14.36	12.34	13.00	11.41	11.85	12.04	12.45	
30	12.04	12.02	13.39	11.97	13.15	14.39	11.83	13.25	11.26	12.51		12.20	
31		12.57		11.41	12.94		12.72		11.21	11.89		11.61	
Mean	11.81	12.21	13.16	12.41	11.97	13.83	13.62	12.58	12.24	12.35	11.66	12.18	
Max	12.69	12.84	13.70	13.50	13.15	15.09	14.88	13.33	13.26	13.35	12.46	13.01	15.09
Min	11.28	11.22	11.95	11.36	11.05	12.50	11.83	11.64	11.21	11.06	11.05	11.10	11.05

Annual Max Momentary Gage Height 15.35 M (MSL), at 13.00 Hours, on Sep 2, 1995
Zero Gage at Bottom Elevation 10.00 M (MSL), River Bed 9.19 M (MSL)
Left Bank Elevation 23.25 M (MSL)
Right Bank Elevation 22.07 M (MSL), Drainage Area 26449 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	154.6	48.4	345.2	540.0	65.4	823.2	826.8	364.8	460.0	35.0	253.2	178.0	
2	120.8	42.4	331.5	413.2	142.7	1114.0	530.4	296.5	419.0	34.0	125.7	125.7	
3	49.6	42.4	359.2	229.5	147.8	1082.0	664.5	216.9	439.3	32.0	204.3	98.4	
4	104.8	66.8	237.9	253.2	182.0	940.8	710.0	286.5	182.0	26.0	116.0	30.0	
5	164.0	275.2	182.0	306.5	124.0	787.2	738.0	184.0	198.0	117.6	82.2	85.0	
6	109.6	321.5	242.2	439.3	90.6	633.2	692.5	98.4	71.0	186.0	58.0	149.5	
7	106.4	284.0	353.6	421.9	49.6	612.8	783.6	204.3	299.0	192.0	98.4	359.2	
8	172.0	151.2	490.0	381.6	47.2	623.0	745.0	270.8	139.3	82.2	168.0	240.0	
9	135.9	139.3	533.6	419.0	152.9	505.0	914.9	356.4	186.0	200.1	120.8	142.7	
10	60.4	194.0	533.6	190.0	194.0	401.6	1031.2	373.2	101.6	246.6	119.2	104.8	
11	60.4	248.8	606.0	229.5	152.9	262.0	896.4	378.8	120.8	356.4	98.4	69.6	
12	60.4	251.0	533.6	281.8	101.6	481.0	866.8	359.2	194.0	362.0	68.2	141.0	
13	60.4	225.3	505.0	160.0	34.0	451.0	951.9	210.6	233.7	240.0	66.8	235.8	
14	60.4	244.4	527.2	353.6	27.0	546.4	805.2	314.0	244.4	264.2	141.0	331.5	
15	60.4	127.4	463.0	395.8	25.0	556.0	675.0	416.1	319.0	339.6	146.1	314.0	
16	60.4	132.5	540.0	390.0	25.0	619.6	595.8	487.0	286.5	359.2	146.1	324.0	
17	95.2	251.0	493.0	139.3	164.0	675.0	752.0	404.5	268.6	451.0	149.5	286.5	
18	111.2	296.5	520.8	194.0	137.6	599.2	819.6	237.9	227.4	493.0	93.6	116.0	
19	125.7	345.2	533.6	59.2	262.0	696.0	759.0	180.0	331.5	253.2	34.0	196.0	
20	251.0	306.5	484.0	141.0	144.4	668.0	724.0	98.4	463.0	329.0	25.0	353.6	
21	306.5	294.0	508.0	273.0	44.8	689.0	675.0	208.5	466.0	200.1	29.0	392.9	
22	200.1	101.6	505.0	321.5	55.6	664.5	484.0	350.8	356.4	142.7	28.0	319.0	
23	168.0	206.4	496.0	321.5	216.9	699.5	291.5	345.2	125.7	291.5	42.4	299.0	
24	61.6	233.7	540.0	109.6	321.5	451.0	178.0	407.4	170.0	359.2	93.6	200.1	
25	178.0	306.5	602.6	125.7	296.5	410.3	291.5	233.7	96.8	367.6	119.2	75.2	
26	170.0	259.8	149.5	134.2	329.0	511.2	277.4	130.8	79.4	424.8	87.8	194.0	
27	208.5	286.5	319.0	129.1	387.2	741.5	240.0	186.0	109.6	381.6	83.6	200.1	
28	208.5	299.0	448.0	117.6	198.0	870.5	186.0	264.2	142.7	436.4	127.4	227.4	
29	164.0	89.2	478.0	268.6	364.8	837.6	227.4	390.0	65.4	132.5	166.0	251.0	
30	166.0	162.0	505.0	152.9	433.5	848.4	129.1	463.0	47.2	264.2		198.0	
31		277.4		65.4	373.2		314.0		41.2	139.3		93.6	
Total	3954.8	6509.9	13366.1	7957.5	5290.7	19800.5	18776.5	8717.9	6884.5	7739.0	3091.5	6331.6	108420.5 CMSDAY
Mean	131.8	210.0	445.5	256.7	170.7	660.0	605.7	290.6	222.1	249.6	106.6	204.2	296.2 CMS
Max	306.5	345.2	606.0	540.0	433.5	1114.0	1031.2	487.0	466.0	493.0	253.2	392.9	1114.0 CMS
Min	49.6	42.4	149.5	59.2	25.0	262.0	129.1	98.4	41.2	26.0	25.0	30.0	25.0 CMS
Runoff	341.69	562.46	1154.83	687.53	457.12	1710.76	1622.29	753.23	594.82	668.65	267.11	547.05	9367.53 MCM

Momentary Peak 1218.00 CMS, at 15.35 M (MSL), at 13.00 Hours, on Sep 2, 1995
Runoff Yield 11.20 Liters/Second/Square KM, Momentary Peak Yield 46.051 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

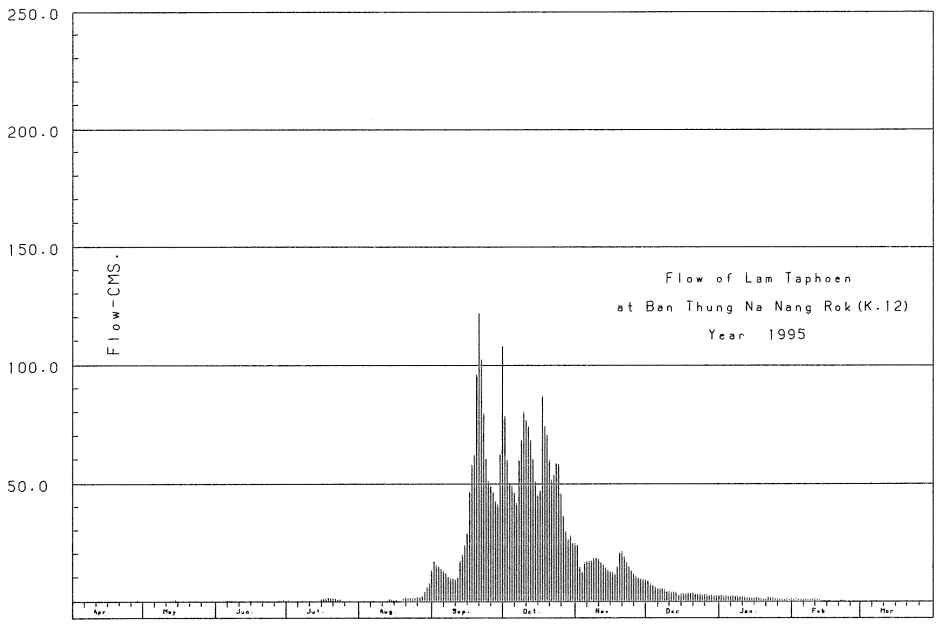
Lam Taphoen at Ban Thung Na Nang Rok, Kanchanaburi (K.12)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 133 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.76	0.76	0.76	0.90	0.77	2.95	5.13	3.38	2.22	1.33	1.04	0.89	
2	0.76	0.76	0.76	0.90	0.81	2.82	4.69	2.74	2.08	1.33	1.04	0.89	
3	0.75	0.73	0.76	0.90	0.80	2.77	4.44	2.58	2.00	1.33	1.04	0.89	
4	0.76	0.74	0.83	0.88	0.81	2.69	4.39	2.90	1.91	1.30	1.04	0.85	
5	0.76	0.76	0.93	0.86	0.83	2.63	4.30	2.94	1.82	1.29	1.04	0.87	
6	0.81	0.75	0.93	0.88	0.82	2.55	4.15	2.94	1.81	1.29	1.04	0.88	
7	0.79	0.75	0.88	0.89	0.81	2.42	4.69	2.97	1.80	1.29	1.04	0.86	
8	0.78	0.75	0.84	0.88	0.79	2.32	4.90	3.02	1.75	1.28	1.04	0.87	
9	0.78	0.75	0.83	0.91	0.75	2.33	5.17	3.05	1.64	1.25	1.07	0.86	
10	0.78	0.76	0.83	0.87	0.74	2.26	5.10	3.01	1.64	1.22	1.06	0.86	
11	0.78	0.76	0.84	0.86	0.76	2.38	5.04	2.91	1.60	1.21	1.03	0.84	
12	0.77	0.81	0.82	0.85	0.85	2.96	4.91	2.82	1.63	1.18	1.02	0.84	
13	0.76	0.97	0.81	0.90	1.06	3.13	4.70	2.74	1.54	1.16	0.94	0.84	
14	0.76	0.94	0.80	0.98	0.99	3.37	4.46	2.66	1.40	1.16	0.89	0.83	
15	0.77	0.90	0.92	1.05	0.95	3.63	4.26	2.61	1.48	1.15	0.87	0.84	
16	0.77	0.88	0.86	1.08	0.93	4.31	4.32	2.58	1.51	1.15	0.86	0.83	
17	0.78	0.85	0.85	1.12	0.89	4.64	5.31	2.53	1.52	1.16	0.86	0.83	
18	0.78	0.83	0.90	1.16	1.04	4.75	5.04	2.76	1.53	1.10	0.86	0.83	
19	0.78	0.82	0.93	1.09	1.13	5.50	4.97	3.18	1.52	1.04	0.86	0.82	
20	0.78	0.82	0.88	1.10	1.19	5.99	4.69	3.21	1.50	1.06	0.92	0.81	
21	0.78	0.80	0.83	1.06	1.13	5.62	4.48	3.08	1.46	1.22	0.99	0.80	
22	0.75	0.79	0.81	1.02	1.14	5.16	4.54	2.91	1.46	1.22	0.90	0.79	
23	0.77	0.79	0.80	1.00	1.16	4.71	4.66	2.76	1.44	1.14	0.89	0.79	
24	0.76	0.79	0.78	0.92	1.14	4.46	4.65	2.63	1.41	1.11	0.87	0.79	
25	0.75	0.76	0.76	0.91	1.19	4.39	4.28	2.52	1.39	1.08	0.86	0.78	
26	0.75	0.75	0.82	0.91	1.18	4.30	3.96	2.43	1.39	1.07	0.85	0.78	
27	0.76	0.75	0.93	0.85	1.32	4.18	3.67	2.37	1.36	1.05	0.88	0.77	
28	0.95	0.79	0.94	0.82	1.64	4.13	3.51	2.32	1.35	1.05	0.89	0.77	
29	0.81	0.82	0.94	0.78	1.91	4.76	3.58	2.27	1.35	1.06	0.89	0.77	
30	0.79	0.76	0.91	0.77	2.11	5.73	3.44	2.25	1.33	1.07		0.77	
31		0.76		0.76	2.65		3.42		1.33	1.06		0.77	
Mean	0.78	0.80	0.85	0.93	1.11	3.79	4.48	2.77	1.59	1.17	0.95	0.83	
Max	0.95	0.97	0.94	1.16	2.65	5.99	5.31	3.38	2.22	1.33	1.07	0.89	5.99
Min	0.75	0.73	0.76	0.76	0.74	2.26	3.42	2.25	1.33	1.04	0.85	0.77	0.73

Annual Max Momentary Gage Height 6.04 M (A.D), at 10.00 Hours, on Sep 20, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.14 M (A.D)
Left Bank Elevation 9.00 M (A.D)
Right Bank Elevation 6.75 M (A.D), Drainage Area 2340 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.03	0.03	0.45	0.06	17.10	78.43	24.02	8.73	2.40	0.95	0.42	
2	0.03	0.03	0.03	0.45	0.18	15.41	59.85	14.37	7.47	2.40	0.95	0.42	
3	0.00	0.00	0.03	0.45	0.15	14.76	50.45	12.29	6.75	2.40	0.95	0.42	
4	0.03	0.00	0.24	0.39	0.18	13.72	48.95	16.45	6.12	2.25	0.95	0.30	
5	0.03	0.03	0.54	0.33	0.24	12.94	46.25	16.97	5.49	2.20	0.95	0.36	
6	0.18	0.00	0.54	0.39	0.21	11.90	41.75	16.97	5.42	2.20	0.95	0.39	
7	0.12	0.00	0.39	0.42	0.18	10.53	59.85	17.36	5.35	2.20	0.95	0.33	
8	0.09	0.00	0.27	0.39	0.12	9.63	68.25	18.08	5.00	2.15	0.95	0.36	
9	0.09	0.00	0.24	0.48	0.00	9.72	80.33	18.57	4.23	2.00	1.10	0.33	
10	0.09	0.03	0.24	0.36	0.00	9.09	77.00	17.91	4.23	1.85	1.05	0.33	
11	0.09	0.03	0.27	0.33	0.03	10.17	74.15	16.58	3.95	1.80	0.90	0.27	
12	0.06	0.18	0.21	0.30	0.30	17.23	68.65	15.41	4.16	1.65	0.85	0.27	
13	0.03	0.66	0.18	0.45	1.05	19.90	60.25	14.37	3.53	1.55	0.57	0.27	
14	0.03	0.57	0.15	0.69	0.72	23.85	51.05	13.33	2.75	1.55	0.42	0.24	
15	0.06	0.45	0.51	1.00	0.60	28.93	45.05	12.68	3.15	1.50	0.36	0.27	
16	0.06	0.39	0.33	1.15	0.54	46.55	46.85	12.29	3.32	1.50	0.33	0.24	
17	0.09	0.30	0.30	1.35	0.42	57.85	86.97	11.64	3.39	1.55	0.33	0.24	
18	0.09	0.24	0.45	1.55	0.95	62.25	74.15	14.63	3.46	1.25	0.33	0.24	
19	0.09	0.21	0.54	1.20	1.40	96.00	71.05	20.72	3.39	0.95	0.33	0.21	
20	0.09	0.21	0.39	1.25	1.70	122.21	59.85	21.21	3.25	1.05	0.51	0.18	
21	0.09	0.15	0.24	1.05	1.40	102.42	51.65	19.07	3.05	1.85	0.72	0.15	
22	0.00	0.12	0.18	0.85	1.45	79.85	53.85	16.58	3.05	1.85	0.45	0.12	
23	0.06	0.12	0.15	0.75	1.55	60.65	58.65	14.63	2.95	1.45	0.42	0.12	
24	0.03	0.12	0.09	0.51	1.45	51.05	58.25	12.94	2.80	1.30	0.36	0.12	
25	0.00	0.03	0.03	0.48	1.70	48.95	45.65	11.51	2.70	1.15	0.33	0.09	
26	0.00	0.00	0.21	0.48	1.65	46.25	36.35	10.62	2.70	1.10	0.30	0.09	
27	0.03	0.00	0.54	0.30	2.35	42.65	29.83	10.08	2.55	1.00	0.39	0.06	
28	0.60	0.12	0.57	0.21	4.23	41.15	26.22	9.63	2.50	1.00	0.42	0.06	
29	0.18	0.21	0.57	0.09	6.12	62.65	27.80	9.18	2.50	1.05	0.42	0.06	
30	0.12	0.03	0.48	0.06	7.74	108.30	25.01	9.00	2.40	1.10		0.06	
31		0.03		0.03	13.20		24.68		2.40	1.05		0.06	
Total	2.49	4.29	8.94	18.19	51.87	1253.66	1687.07	449.09	122.74	50.30	18.49	7.08	3674.21 CMSDAY
Mean	0.08	0.14	0.30	0.59	1.67	41.79	54.42	14.97	3.96	1.62	0.64	0.23	10.04 CMS
Max	0.60	0.66	0.57	1.55	13.20	122.21	86.97	24.02	8.73	2.40	1.10	0.42	122.21 CMS
Min	0.00	0.00	0.03	0.03	0.00	9.09	24.68	9.00	2.40	0.95	0.30	0.06	0.00 CMS
Runoff	0.215	0.371	0.772	1.572	4.482	108.316	145.763	38.801	10.605	4.346	1.598	0.612	317.452 MCM

Momentary Peak 124.95 CMS, at 6.04 M (A.D), at 10.00 Hours, on Sep 20, 1995
Runoff Yield 4.29 Liters/Second/Square KM, Momentary Peak Yield 53.397 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

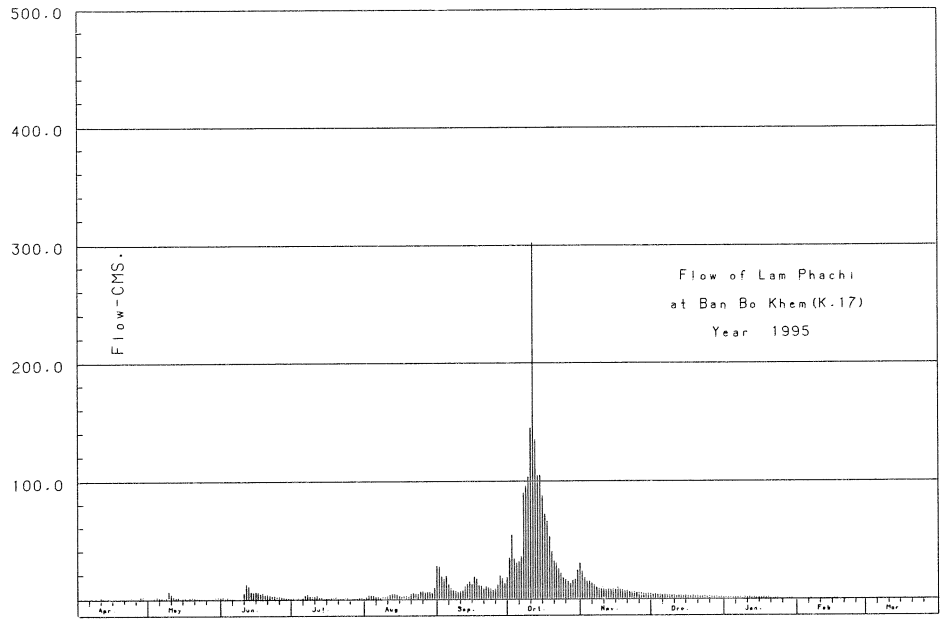
Lam Phachi at Ban Bo Khem, Ratchaburi (K.17)

Location	Lat. 13-32-41 N., Long. 99-21-22 E., on left bank opposite to the 'Sai Ngam' frontier police station, Amphoe Suan Phung, Ratchaburi.
Drainage Area	1,355 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Along the measuring line.
Elevation	+11.799 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1966 to date.
Rating Operation	
Period of Rating	1966 - 1988, 1993 to date.
Rated by Float	-
Rated by Current Meter	1966 - 1988, 1993 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 181 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.16	0.25	0.20	0.31	1.78	2.02	1.65	0.52	0.27	0.20	0.13	
2	0.15	0.23	0.23	0.20	0.42	1.52	2.42	1.45	0.51	0.28	0.19	0.14	
3	0.09	0.23	0.23	0.20	0.43	1.40	2.01	1.33	0.49	0.27	0.17	0.11	
4	0.09	0.27	0.22	0.21	0.37	1.53	1.88	1.30	0.48	0.27	0.19	0.11	
5	0.11	0.25	0.18	0.23	0.32	1.20	1.94	1.24	0.46	0.26	0.18	0.12	
6	0.16	0.19	0.10	0.45	0.28	1.00	2.04	1.15	0.45	0.27	0.17	0.13	
7	0.15	0.22	0.09	0.49	0.26	0.87	3.08	1.06	0.44	0.26	0.19	0.14	
8	0.19	0.22	0.16	0.37	0.28	0.77	3.17	0.98	0.43	0.25	0.19	0.10	
9	0.22	0.78	0.24	0.32	0.31	0.71	3.29	0.99	0.42	0.24	0.15	0.08	
10	0.23	0.47	0.65	0.36	0.35	0.74	3.86	0.94	0.42	0.27	0.14	0.11	
11	0.22	0.33	1.17	0.38	0.44	0.85	5.43	0.92	0.41	0.27	0.17	0.12	
12	0.21	0.27	1.11	0.28	0.58	1.08	3.73	0.93	0.40	0.27	0.18	0.09	
13	0.20	0.25	0.73	0.23	0.57	1.21	3.30	0.94	0.39	0.27	0.17	0.07	
14	0.12	0.24	0.65	0.20	0.49	1.28	3.31	0.94	0.38	0.26	0.14	0.07	
15	0.07	0.21	0.75	0.21	0.42	1.20	3.03	0.97	0.38	0.25	0.13	0.13	
16	0.10	0.21	0.69	0.22	0.29	1.51	2.77	1.04	0.36	0.27	0.16	0.13	
17	0.11	0.23	0.58	0.21	0.39	1.40	2.64	0.93	0.36	0.25	0.18	0.13	
18	0.10	0.22	0.62	0.26	0.37	1.14	2.39	0.87	0.36	0.25	0.14	0.13	
19	0.09	0.27	0.48	0.26	0.35	1.10	2.12	0.82	0.35	0.24	0.12	0.10	
20	0.09	0.24	0.49	0.19	0.52	1.00	1.96	0.79	0.35	0.24	0.14	0.07	
21	0.10	0.22	0.43	0.16	0.64	1.08	1.88	0.75	0.34	0.22	0.13	0.06	
22	0.16	0.20	0.38	0.21	0.59	1.05	1.73	0.72	0.33	0.23	0.16	0.10	
23	0.26	0.18	0.36	0.25	0.51	0.96	1.59	0.69	0.33	0.22	0.17	0.06	
24	0.15	0.15	0.33	0.26	0.79	0.89	1.46	0.66	0.31	0.22	0.15	0.03	
25	0.14	0.15	0.31	0.20	0.74	0.96	1.37	0.63	0.31	0.22	0.10	0.06	
26	0.26	0.12	0.31	0.17	0.66	1.17	1.29	0.61	0.30	0.20	0.13	0.07	
27	0.31	0.13	0.28	0.22	0.73	1.54	1.22	0.59	0.30	0.19	0.14	0.12	
28	0.29	0.16	0.24	0.21	0.70	1.42	1.36	0.58	0.29	0.21	0.11	0.11	
29	0.18	0.27	0.18	0.22	0.65	1.23	1.38	0.56	0.28	0.18	0.10	0.14	
30	0.12	0.24	0.20	0.25	1.02	1.47	1.69	0.54	0.28	0.20		0.14	
31		0.27		0.28	1.82		1.90		0.28	0.19		0.09	
Mean	0.16	0.24	0.42	0.25	0.54	1.17	2.36	0.92	0.38	0.24	0.15	0.10	
Max	0.31	0.78	1.17	0.49	1.82	1.78	5.43	1.65	0.52	0.28	0.20	0.14	5.43
Min	0.07	0.12	0.09	0.16	0.26	0.71	1.22	0.54	0.28	0.18	0.10	0.03	0.03

Annual Max Momentary Gage Height 6.02 M (A.D), at 6.00 Hours, on Oct 11, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.00 M (A.D)
Left Bank Elevation 9.55 M (A.D)
Right Bank Elevation 8.70 M (A.D), Drainage Area 1355 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.60	1.50	1.00	2.10	27.40	35.00	23.50	4.20	1.70	1.00	0.30	
2	0.50	1.30	1.30	1.00	3.20	19.60	55.00	18.00	4.10	1.80	0.90	0.40	
3	0.00	1.30	1.30	1.00	3.30	17.00	34.50	15.60	3.90	1.70	0.70	0.10	
4	0.00	1.70	1.20	1.10	2.70	19.90	30.40	15.00	3.80	1.70	0.90	0.10	
5	0.10	1.50	0.80	1.30	2.20	13.00	32.20	13.80	3.60	1.60	0.80	0.20	
6	0.60	0.90	0.00	3.50	1.80	9.00	36.00	12.00	3.50	1.70	0.70	0.30	
7	0.50	1.20	0.00	3.90	1.60	7.70	90.80	10.20	3.40	1.60	0.90	0.40	
8	0.90	1.20	0.60	2.70	1.80	6.70	96.20	8.80	3.30	1.50	0.90	0.00	
9	1.20	6.80	1.40	2.20	2.10	6.10	104.30	8.90	3.20	1.40	0.50	0.00	
10	1.30	3.70	5.50	2.60	2.50	6.40	145.80	8.40	3.20	1.70	0.40	0.10	
11	1.20	2.30	12.40	2.80	3.40	7.50	302.60	8.20	3.10	1.70	0.70	0.20	
12	1.10	1.70	11.20	1.80	4.80	10.60	135.40	8.30	3.00	1.70	0.80	0.00	
13	1.00	1.50	6.30	1.30	4.70	13.20	105.00	8.40	2.90	1.70	0.70	0.00	
14	0.20	1.40	5.50	1.00	3.90	14.60	105.70	8.40	2.80	1.60	0.40	0.00	
15	0.00	1.10	6.50	1.10	3.20	13.00	87.80	8.70	2.80	1.50	0.30	0.30	
16	0.00	1.10	5.90	1.20	1.90	19.30	72.50	9.80	2.60	1.70	0.60	0.30	
17	0.10	1.30	4.80	1.10	2.90	17.00	66.00	8.30	2.60	1.50	0.80	0.30	
18	0.00	1.20	5.20	1.60	2.70	11.80	53.50	7.70	2.60	1.50	0.40	0.30	
19	0.00	1.70	3.80	1.60	2.50	11.00	40.00	7.20	2.50	1.40	0.20	0.00	
20	0.00	1.40	3.90	0.90	4.20	9.00	32.80	6.90	2.50	1.40	0.40	0.00	
21	0.00	1.20	3.30	0.60	5.40	10.60	30.40	6.50	2.40	1.20	0.30	0.00	
22	0.60	1.00	2.80	1.10	4.90	10.00	25.90	6.20	2.30	1.30	0.60	0.00	
23	1.60	0.80	2.60	1.50	4.10	8.60	21.70	5.90	2.30	1.20	0.70	0.00	
24	0.50	0.50	2.30	1.60	6.90	7.90	18.20	5.60	2.10	1.20	0.50	0.00	
25	0.40	0.50	2.10	1.00	6.40	8.60	16.40	5.30	2.10	1.20	0.00	0.00	
26	1.60	0.20	2.10	0.70	5.60	12.40	14.80	5.10	2.00	1.00	0.30	0.00	
27	2.10	0.30	1.80	1.20	6.30	20.20	13.40	4.90	2.00	0.90	0.40	0.20	
28	1.90	0.60	1.40	1.10	6.00	17.40	16.20	4.80	1.90	1.10	0.10	0.10	
29	0.80	1.70	0.80	1.20	5.50	13.60	16.60	4.60	1.80	0.80	0.00	0.40	
30	0.20	1.40	1.00	1.50	9.40	18.40	24.70	4.40	1.80	1.00		0.40	
31		1.70		1.80	28.60		31.00		1.80	0.90		0.00	
Total	18.40	44.80	99.30	48.00	146.60	387.50	1890.80	269.40	86.10	43.90	15.90	4.40	3055.10 CMSDAY
Mean	0.61	1.45	3.31	1.55	4.73	12.92	60.99	8.98	2.78	1.42	0.55	0.14	8.35 CMS
Max	2.10	6.80	12.40	3.90	28.60	27.40	302.60	23.50	4.20	1.80	1.00	0.40	302.60 CMS
Min	0.00	0.20	0.00	0.60	1.60	6.10	13.40	4.40	1.80	0.80	0.00	0.00	0.00 CMS
Runoff	1.590	3.871	8.580	4.147	12.666	33.480	163.365	23.276	7.439	3.793	1.374	0.380	263.961 MCM

Momentary Peak 374.60 CMS, at 6.02 M (A.D), at 6.00 Hours, on Oct 11, 1995
Runoff Yield 6.16 Liters/Second/Square KM, Momentary Peak Yield 276.458 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

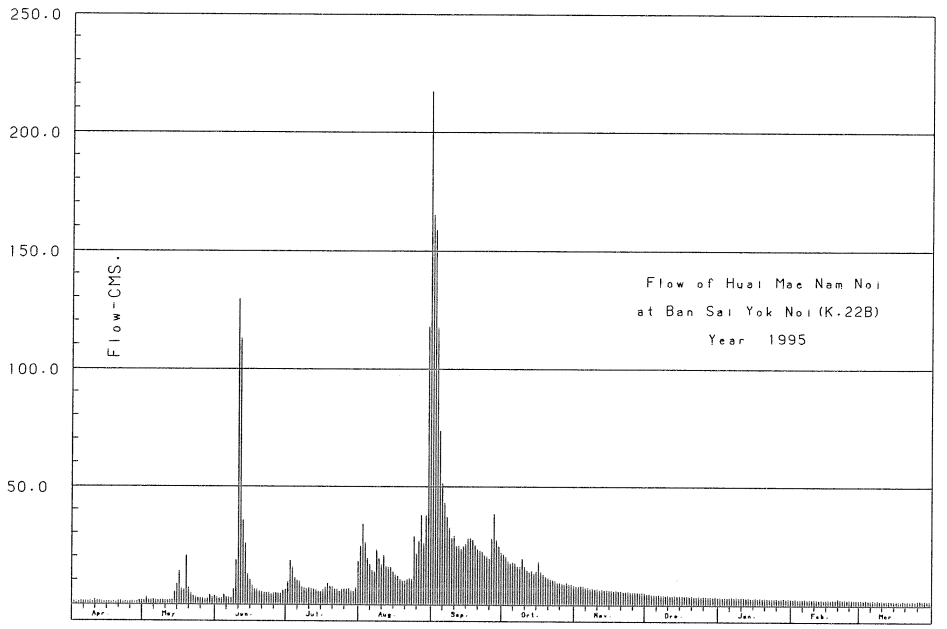
Huai Mae Nam Noi at Ban Sai Yok Noi, Kanchanaburi (K.22B)

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	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 93 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.94	67.98	68.11	68.53	69.09	71.66	68.98	68.45	68.25	68.13	68.06	68.01	
2	67.93	68.10	68.07	68.89	69.38	71.57	68.95	68.44	68.24	68.13	68.06	68.01	
3	67.92	67.99	68.07	68.79	69.15	70.93	68.88	68.46	68.23	68.13	68.05	68.02	
4	67.93	67.98	68.22	68.62	68.92	70.20	68.86	68.44	68.22	68.13	68.05	68.01	
5	67.95	68.02	68.13	68.57	68.84	69.77	68.87	68.42	68.22	68.13	68.05	68.01	
6	67.93	67.98	68.09	68.54	68.74	69.58	68.85	68.41	68.21	68.12	68.05	68.00	
7	67.94	67.98	68.10	68.43	68.72	69.45	68.81	68.39	68.21	68.12	68.04	68.00	
8	67.95	67.98	68.36	68.38	69.04	69.33	68.80	68.39	68.20	68.12	68.04	68.00	
9	67.92	68.00	68.90	68.39	68.92	69.21	68.92	68.38	68.20	68.11	68.04	67.99	
10	67.99	67.98	71.12	68.40	68.83	69.23	68.80	68.38	68.20	68.11	68.04	67.99	
11	67.97	67.99	70.86	68.38	68.96	69.10	68.75	68.37	68.19	68.11	68.03	67.99	
12	67.97	68.00	69.42	68.38	68.81	69.10	68.72	68.37	68.19	68.11	68.03	67.98	
13	67.93	67.98	69.13	68.34	68.79	69.06	68.73	68.36	68.19	68.11	68.03	67.98	
14	67.92	68.30	68.67	68.32	68.80	69.09	68.69	68.35	68.19	68.10	68.03	67.98	
15	67.91	68.49	68.58	68.32	68.72	69.13	68.72	68.35	68.18	68.10	68.03	67.98	
16	67.91	68.72	68.45	68.35	68.66	69.20	68.87	68.34	68.18	68.10	68.03	67.97	
17	67.91	68.37	68.38	68.42	68.65	69.21	68.72	68.33	68.18	68.09	68.02	67.97	
18	67.91	68.36	68.36	68.49	68.58	69.18	68.67	68.33	68.17	68.09	68.02	67.97	
19	67.91	68.96	68.32	68.44	68.56	69.11	68.64	68.33	68.17	68.09	68.04	67.97	
20	67.96	68.40	68.29	68.42	68.55	69.05	68.61	68.32	68.17	68.08	68.07	67.97	
21	67.94	68.25	68.27	68.36	68.58	69.03	68.59	68.31	68.16	68.08	68.05	67.97	
22	67.91	68.16	68.28	68.37	68.61	69.02	68.58	68.31	68.16	68.08	68.04	67.97	
23	67.91	68.12	68.27	68.32	68.58	68.97	68.55	68.31	68.16	68.08	68.04	67.97	
24	67.90	68.09	68.24	68.36	69.23	68.95	68.52	68.30	68.15	68.08	68.03	67.97	
25	67.94	68.06	68.26	68.38	68.99	68.92	68.51	68.29	68.15	68.07	68.03	67.98	
26	67.92	68.05	68.27	68.37	69.16	69.20	68.51	68.29	68.15	68.07	68.03	68.01	
27	67.92	68.03	68.26	68.39	69.47	69.48	68.49	68.29	68.15	68.07	68.02	67.99	
28	67.92	68.04	68.24	68.32	69.13	69.18	68.51	68.28	68.15	68.07	68.02	67.98	
29	67.99	68.21	68.34	68.32	69.46	69.10	68.49	68.28	68.14	68.06	68.02	67.98	
30	67.97	68.10	68.35	68.40	70.94	69.00	68.48	68.27	68.14	68.06		67.98	
31		68.18		68.88	72.38		68.46		68.14	68.06		67.97	
Mean	67.93	68.16	68.55	68.45	69.07	69.43	68.69	68.35	68.18	68.10	68.04	67.99	
Max	67.99	68.96	71.12	68.89	72.38	71.66	68.98	68.46	68.25	68.13	68.07	68.02	72.38
Min	67.90	67.98	68.07	68.32	68.55	68.92	68.46	68.27	68.14	68.06	68.02	67.97	67.90

Annual Max Momentary Gage Height 72.81 M (MSL), at 15.00 Hours, on Aug 31, 1995
Zero Gage at Bottom Elevation 67.00 M (MSL), River Bed 67.40 M (MSL)
Left Bank Elevation 75.85 M (MSL)
Right Bank Elevation 73.44 M (MSL), Drainage Area 320 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	1.80	3.10	9.60	24.70	165.20	21.40	8.00	4.75	3.30	2.60	2.10	
2	1.30	3.00	2.70	18.70	34.30	159.05	20.50	7.80	4.60	3.30	2.60	2.10	
3	1.20	1.90	2.70	15.75	26.50	117.45	18.40	8.20	4.45	3.30	2.50	2.20	
4	1.30	1.80	4.30	11.50	19.60	74.00	17.80	7.80	4.30	3.30	2.50	2.10	
5	1.50	2.20	3.30	10.40	17.20	51.65	18.10	7.40	4.30	3.30	2.50	2.10	
6	1.30	1.80	2.90	9.80	14.50	43.10	17.50	7.20	4.15	3.20	2.50	2.00	
7	1.40	1.80	3.00	7.60	14.00	37.25	16.30	6.85	4.15	3.20	2.40	2.00	
8	1.50	1.80	6.40	6.70	23.20	32.55	16.00	6.85	4.00	3.20	2.40	2.00	
9	1.20	2.00	19.00	6.85	19.60	28.35	19.60	6.70	4.00	3.10	2.40	1.90	
10	1.90	1.80	129.80	7.00	16.90	29.05	16.00	6.70	4.00	3.10	2.40	1.90	
11	1.70	1.90	112.90	6.70	20.80	25.00	14.75	6.55	3.90	3.10	2.30	1.90	
12	1.70	2.00	35.90	6.70	16.30	25.00	14.00	6.55	3.90	3.10	2.30	1.80	
13	1.30	1.80	25.90	6.10	15.75	23.80	14.25	6.40	3.90	3.10	2.30	1.80	
14	1.20	5.50	12.75	5.80	16.00	24.70	13.25	6.25	3.90	3.00	2.30	1.80	
15	1.10	8.80	10.60	5.80	14.00	25.90	14.00	6.25	3.80	3.00	2.30	1.80	
16	1.10	14.00	8.00	6.25	12.50	28.00	18.10	6.10	3.80	3.00	2.30	1.70	
17	1.10	6.55	6.70	7.40	12.25	28.35	14.00	5.95	3.80	2.90	2.20	1.70	
18	1.10	6.40	6.40	8.80	10.60	27.40	12.75	5.95	3.70	2.90	2.20	1.70	
19	1.10	20.80	5.80	7.80	10.20	25.30	12.00	5.95	3.70	2.90	2.40	1.70	
20	1.60	7.00	5.35	7.40	10.00	23.50	11.25	5.80	3.70	2.80	2.70	1.70	
21	1.40	4.75	5.05	6.40	10.60	22.90	10.80	5.65	3.60	2.80	2.50	1.70	
22	1.10	3.60	5.20	6.55	11.25	22.60	10.60	5.65	3.60	2.80	2.40	1.70	
23	1.10	3.20	5.05	5.80	10.60	21.10	10.00	5.65	3.60	2.80	2.40	1.70	
24	1.00	2.90	4.60	6.40	29.05	20.50	9.40	5.50	3.50	2.80	2.30	1.70	
25	1.40	2.60	4.90	6.70	21.70	19.60	9.20	5.35	3.50	2.70	2.30	1.80	
26	1.20	2.50	5.05	6.55	26.80	28.00	9.20	5.35	3.50	2.70	2.30	2.10	
27	1.20	2.30	4.90	6.85	38.15	38.60	8.80	5.35	3.50	2.70	2.20	1.90	
28	1.20	2.40	4.60	5.80	25.90	27.40	9.20	5.20	3.50	2.70	2.20	1.80	
29	1.90	4.15	6.10	5.80	37.70	25.00	8.80	5.20	3.40	2.60	2.20	1.80	
30	1.70	3.00	6.25	7.00	118.10	22.00	8.60	5.05	3.40	2.60		1.80	
31		3.80		18.40	217.40		8.20		3.40	2.60		1.70	
Total	40.20	129.85	459.20	254.90	896.15	1242.30	422.75	189.20	119.30	91.90	68.90	57.70	3972.35 CMSDAY
Mean	1.34	4.19	15.31	8.22	28.91	41.41	13.64	6.31	3.85	2.96	2.38	1.86	10.85 CMS
Max	1.90	20.80	129.80	18.70	217.40	165.20	21.40	8.20	4.75	3.30	2.70	2.20	217.40 CMS
Min	1.00	1.80	2.70	5.80	10.00	19.60	8.20	5.05	3.40	2.60	2.20	1.70	1.00 CMS
Runoff	3.473	11.219	39.675	22.023	77.427	107.335	36.526	16.347	10.308	7.940	5.953	4.985	343.211 MCM

Momentary Peak 251.80 CMS, at 72.81 M (MSL), at 15.00 Hours, on Aug 31, 1995
Runoff Yield 33.92 Liters/Second/Square KM, Momentary Peak Yield 786.875 Liters/Second/Square KM

WATER YEAR 1995

MAE KHLONG RIVER BASIN

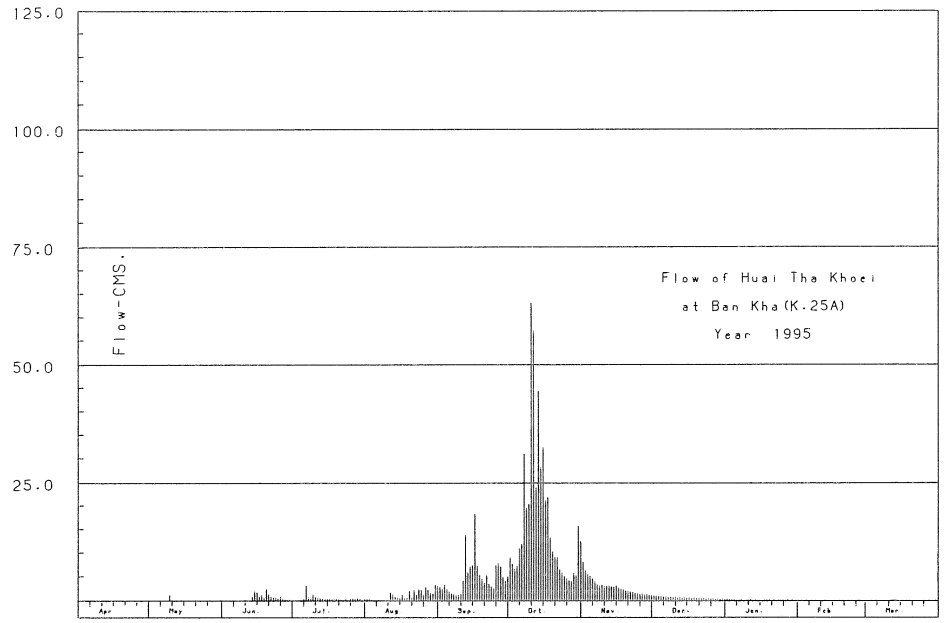
Huai Tha Khoei at Ban Kha, Ratchaburi (K.25A)

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	No overbank flow.
General Description	Records fair. K.25 is located at K.25A one kilometer upstream from the previous station. Stage-discharge relation defined by 153 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.15	0.18	0.41	0.49	0.96	1.53	1.47	0.68	0.47	0.41	0.35	
2	0.14	0.38	0.18	0.39	0.46	0.91	1.44	1.32	0.66	0.47	0.42	0.37	
3	0.15	0.19	0.19	0.39	0.43	1.02	1.35	1.26	0.65	0.46	0.41	0.39	
4	0.14	0.17	0.27	0.40	0.40	0.91	1.41	1.22	0.63	0.45	0.41	0.37	
5	0.14	0.16	0.21	0.47	0.37	0.83	1.66	1.18	0.62	0.44	0.41	0.37	
6	0.15	0.17	0.20	1.01	0.35	0.77	1.71	1.10	0.62	0.44	0.40	0.36	
7	0.14	0.21	0.19	0.61	0.35	0.72	2.52	1.04	0.61	0.44	0.40	0.35	
8	0.14	0.18	0.18	0.51	0.36	0.68	2.10	1.00	0.60	0.43	0.40	0.35	
9	0.14	0.68	0.20	0.71	0.35	0.70	2.14	1.03	0.60	0.43	0.39	0.34	
10	0.13	0.25	0.44	0.61	0.35	0.76	3.34	0.98	0.59	0.44	0.40	0.35	
11	0.13	0.21	0.38	0.57	0.81	1.12	3.21	1.00	0.58	0.44	0.39	0.35	
12	0.13	0.17	0.25	0.53	0.72	1.82	2.27	1.00	0.57	0.44	0.38	0.44	
13	0.13	0.16	0.62	0.48	0.61	1.30	2.90	0.99	0.56	0.43	0.38	0.38	
14	0.14	0.17	0.84	0.49	0.55	1.39	2.42	0.96	0.56	0.43	0.38	0.36	
15	0.13	0.17	0.82	0.49	0.53	1.42	2.56	1.01	0.56	0.43	0.38	0.35	
16	0.14	0.17	0.62	0.47	0.69	2.05	2.17	0.94	0.55	0.42	0.38	0.34	
17	0.14	0.16	0.68	0.45	0.54	1.40	2.20	0.92	0.55	0.42	0.38	0.34	
18	0.14	0.17	0.55	0.48	0.51	1.25	1.80	0.89	0.54	0.45	0.38	0.33	
19	0.14	0.16	0.91	0.46	0.86	1.15	1.61	0.87	0.54	0.44	0.38	0.34	
20	0.17	0.15	0.71	0.45	0.54	1.06	1.54	0.85	0.53	0.43	0.41	0.34	
21	0.14	0.13	0.61	0.42	0.87	1.24	1.53	0.84	0.53	0.43	0.40	0.35	
22	0.15	0.13	0.57	0.42	0.71	1.05	1.35	0.82	0.52	0.43	0.39	0.40	
23	0.14	0.12	0.54	0.43	0.90	0.97	1.28	0.80	0.51	0.43	0.38	0.37	
24	0.14	0.11	0.51	0.43	0.87	0.93	1.22	0.77	0.50	0.43	0.38	0.35	
25	0.14	0.11	0.60	0.47	0.71	1.42	1.17	0.75	0.50	0.42	0.37	0.33	
26	0.13	0.12	0.49	0.53	0.95	1.44	1.13	0.75	0.49	0.43	0.37	0.33	
27	0.14	0.11	0.45	0.48	0.89	1.40	1.10	0.73	0.48	0.43	0.36	0.32	
28	0.13	0.24	0.44	0.52	0.76	1.20	1.27	0.73	0.47	0.43	0.36	0.37	
29	0.13	0.19	0.42	0.45	0.77	1.12	1.24	0.71	0.48	0.42	0.36	0.41	
30	0.14	0.18	0.41	0.42	1.02	1.21	1.92	0.68	0.48	0.42		0.37	
31		0.19		0.44	0.99		1.75		0.47	0.41		0.36	
Mean	0.14	0.19	0.46	0.50	0.64	1.14	1.83	0.95	0.56	0.43	0.39	0.36	
Max	0.17	0.68	0.91	1.01	1.02	2.05	3.34	1.47	0.68	0.47	0.42	0.44	3.34
Min	0.13	0.11	0.18	0.39	0.35	0.68	1.10	0.68	0.47	0.41	0.36	0.32	0.11

Annual Max Momentary Gage Height 4.00 M (A.D), at 21.00 Hours, on Oct 10, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.02 M (A.D)
Left Bank Elevation 6.94 M (A.D)
Right Bank Elevation 6.95 M (A.D), Drainage Area 250 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.03	0.04	0.24	0.48	2.91	9.19	8.33	1.17	0.42	0.24	0.17	
2	0.02	0.19	0.04	0.20	0.39	2.54	7.89	6.39	1.08	0.42	0.27	0.19	
3	0.03	0.04	0.04	0.20	0.30	3.39	6.74	5.70	1.03	0.39	0.24	0.20	
4	0.02	0.04	0.11	0.21	0.21	2.54	7.46	5.24	0.94	0.36	0.24	0.19	
5	0.02	0.03	0.06	0.42	0.19	1.93	11.20	4.83	0.90	0.33	0.24	0.19	
6	0.03	0.04	0.05	3.30	0.17	1.57	12.03	4.11	0.90	0.33	0.21	0.18	
7	0.02	0.06	0.04	0.85	0.17	1.35	31.27	3.57	0.85	0.33	0.21	0.17	
8	0.02	0.04	0.04	0.54	0.18	1.17	19.66	3.21	0.81	0.30	0.21	0.17	
9	0.02	1.17	0.05	1.30	0.17	1.26	20.60	3.48	0.81	0.30	0.20	0.16	
10	0.01	0.09	0.33	0.85	0.17	1.53	63.25	3.06	0.78	0.33	0.21	0.17	
11	0.01	0.06	0.19	0.72	1.79	4.29	57.27	3.21	0.75	0.33	0.20	0.17	
12	0.01	0.04	0.09	0.60	1.35	13.89	23.97	3.21	0.72	0.33	0.19	0.33	
13	0.01	0.03	0.90	0.45	0.85	6.16	44.61	3.14	0.69	0.30	0.19	0.19	
14	0.02	0.04	2.01	0.48	0.66	7.20	28.22	2.91	0.69	0.30	0.19	0.18	
15	0.01	0.04	1.86	0.48	0.60	7.60	32.49	3.30	0.69	0.30	0.19	0.17	
16	0.02	0.04	0.90	0.42	1.21	18.48	21.30	2.76	0.66	0.27	0.19	0.16	
17	0.02	0.03	1.17	0.36	0.63	7.31	22.01	2.61	0.66	0.27	0.19	0.16	
18	0.02	0.04	0.66	0.45	0.54	5.59	13.51	2.39	0.63	0.36	0.19	0.15	
19	0.02	0.03	2.54	0.39	2.16	4.56	10.38	2.24	0.63	0.33	0.19	0.16	
20	0.04	0.03	1.30	0.36	0.63	3.75	9.34	2.09	0.60	0.30	0.24	0.16	
21	0.02	0.01	0.85	0.27	2.24	5.47	9.19	2.01	0.60	0.30	0.21	0.17	
22	0.03	0.01	0.72	0.27	1.30	3.66	6.74	1.86	0.57	0.30	0.20	0.21	
23	0.02	0.01	0.63	0.30	2.46	2.99	5.93	1.71	0.54	0.30	0.19	0.19	
24	0.02	0.01	0.54	0.30	2.24	2.69	5.24	1.57	0.51	0.30	0.19	0.17	
25	0.02	0.01	0.81	0.42	1.30	7.60	4.74	1.49	0.51	0.27	0.19	0.15	
26	0.01	0.01	0.48	0.60	2.84	7.89	4.38	1.49	0.48	0.30	0.19	0.15	
27	0.02	0.01	0.36	0.45	2.39	7.31	4.11	1.40	0.45	0.30	0.18	0.15	
28	0.01	0.08	0.33	0.57	1.53	5.01	5.81	1.40	0.42	0.30	0.18	0.19	
29	0.01	0.04	0.27	0.36	1.57	4.29	5.47	1.30	0.45	0.27	0.18	0.24	
30	0.02	0.04	0.24	0.27	3.39	5.13	15.79	1.17	0.45	0.27		0.19	
31		0.04		0.33	3.14		12.69		0.42	0.24		0.18	
Total	0.59	2.38	17.65	16.96	37.25	151.06	532.48	91.18	21.39	9.75	5.94	5.61	892.24 CMSDAY
Mean	0.02	0.08	0.59	0.55	1.20	5.04	17.18	3.04	0.69	0.31	0.20	0.18	2.44 CMS
Max	0.04	1.17	2.54	3.30	3.39	18.48	63.25	8.33	1.17	0.42	0.27	0.33	63.25 CMS
Min	0.01	0.01	0.04	0.20	0.17	1.17	4.11	1.17	0.42	0.24	0.18	0.15	0.01 CMS
Runoff	0.051	0.206	1.525	1.465	3.218	13.052	46.006	7.878	1.848	0.842	0.513	0.485	77.090 MCM

Momentary Peak 97.01 CMS, at 4.00 M (A.D), at 21.00 Hours, on Oct 10, 1995
Runoff Yield 9.75 Liters/Second/Square KM, Momentary Peak Yield 388.040 Liters/Second/Square KM

WATER YEAR 1995

MAE KHLONG RIVER BASIN

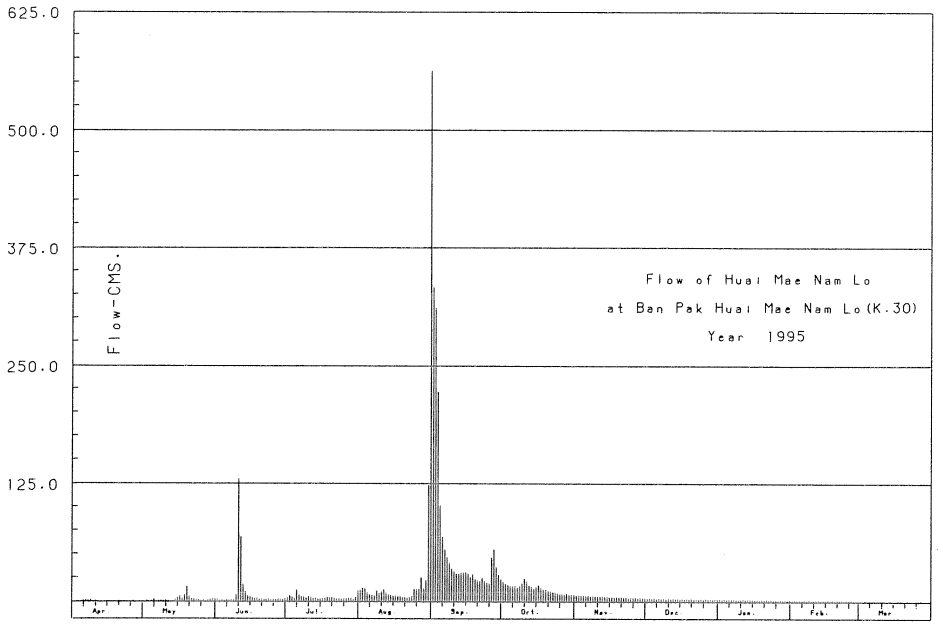
Huai Mae Nam Lo at Ban Pak Huai Mae Nam Lo, Kanchanaburi (K.30)

Location	Lat. 14°-26'-27" N., Long. 98°-47'-53" E., on left bank about 1 kilometer downstream from station K.22 A, Amphoe Sai Yok, Kanchanaburi.
Drainage Area	435 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+68.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 30 meters from the top staff gage.
Elevation	+77.305 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	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records poor. Stage-discharge relation defined by 87 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.83	68.85	68.96	69.06	69.38	72.09	69.58	69.20	69.05	68.98	68.90	68.86	
2	68.82	68.89	68.92	69.19	69.42	71.94	69.52	69.19	69.05	68.97	68.90	68.86	
3	68.82	68.85	68.91	69.10	69.42	71.35	69.50	69.19	69.04	68.97	68.90	68.86	
4	68.82	68.83	68.90	69.05	69.29	70.54	69.47	69.19	69.04	68.97	68.90	68.86	
5	68.91	68.97	68.90	69.38	69.22	70.26	69.47	69.18	69.03	68.97	68.90	68.86	
6	68.87	68.89	68.91	69.20	69.18	70.10	69.47	69.16	69.03	68.97	68.90	68.85	
7	68.91	68.88	68.92	69.16	69.19	69.99	69.44	69.16	69.03	68.97	68.90	68.85	
8	68.91	68.86	68.94	69.09	69.36	69.90	69.46	69.15	69.02	68.97	68.90	68.85	
9	68.86	68.88	69.22	69.07	69.26	69.82	69.54	69.15	69.02	68.96	68.89	68.84	
10	68.85	68.89	70.73	69.13	69.31	69.76	69.64	69.14	69.02	68.96	68.89	68.84	
11	68.85	68.87	70.27	69.09	69.40	69.72	69.58	69.14	69.02	68.96	68.89	68.84	
12	68.82	68.85	69.52	69.06	69.28	69.73	69.49	69.14	69.02	68.96	68.88	68.83	
13	68.83	68.85	69.31	69.04	69.23	69.74	69.45	69.13	69.01	68.96	68.88	68.83	
14	68.83	68.95	69.18	69.02	69.21	69.75	69.41	69.12	69.01	68.96	68.88	68.83	
15	68.82	69.09	69.11	69.01	69.17	69.76	69.44	69.11	69.01	68.95	68.88	68.82	
16	68.82	69.14	69.07	69.02	69.15	69.72	69.50	69.10	69.01	68.95	68.88	68.82	
17	68.81	69.04	69.04	69.05	69.14	69.67	69.43	69.10	69.01	68.94	68.88	68.82	
18	68.81	69.19	69.02	69.07	69.11	69.71	69.40	69.10	69.01	68.94	68.88	68.82	
19	68.84	69.47	68.99	69.08	69.10	69.63	69.38	69.10	69.01	68.94	68.90	68.82	
20	68.85	69.12	68.98	69.07	69.09	69.60	69.35	69.09	69.01	68.94	68.92	68.81	
21	68.83	69.03	68.97	69.04	69.08	69.59	69.33	69.09	69.00	68.94	68.90	68.81	
22	68.82	68.98	68.97	69.02	69.10	69.65	69.31	69.08	69.00	68.93	68.89	68.81	
23	68.83	68.94	68.96	69.01	69.12	69.59	69.29	69.08	69.00	68.93	68.88	68.81	
24	68.81	68.91	68.95	69.01	69.40	69.55	69.27	69.07	68.99	68.92	68.88	68.81	
25	68.81	68.89	68.95	69.00	69.39	69.52	69.25	69.07	68.99	68.92	68.87	68.81	
26	68.81	68.88	68.98	69.04	69.40	69.98	69.24	69.06	68.99	68.91	68.87	68.85	
27	68.81	68.87	68.99	69.06	69.66	70.10	69.23	69.06	68.99	68.91	68.87	68.84	
28	68.81	68.87	68.97	69.03	69.42	69.84	69.25	69.06	68.98	68.91	68.87	68.82	
29	68.81	68.97	68.97	69.02	69.60	69.70	69.23	69.06	68.98	68.91	68.87	68.82	
30	68.81	68.97	69.01	69.08	70.69	69.62	69.22	69.05	68.98	68.91		68.81	
31		69.01		69.34	73.45		69.21		68.98	68.90		68.81	
Mean	68.83	68.96	69.12	69.08	69.46	70.00	69.40	69.12	69.01	68.94	68.89	68.83	
Max	68.91	69.47	70.73	69.38	73.45	72.09	69.64	69.20	69.05	68.98	68.92	68.86	73.45
Min	68.81	68.83	68.90	69.00	69.08	69.52	69.21	69.05	68.98	68.90	68.87	68.81	68.81

Annual Max Momentary Gage Height 73.95 M (MSL), at 14.00 Hours, on Aug 31, 1995
Zero Gage at Bottom Elevation 68.00 M (MSL), River Bed 68.00 M (MSL)
Left Bank Elevation 74.07 M (MSL)
Right Bank Elevation 74.65 M (MSL), Drainage Area 435 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.1	1.3	2.6	4.2	12.8	333.7	21.6	7.0	4.0	2.8	1.9	1.5	
2	1.0	1.8	2.1	6.8	14.4	311.2	18.9	6.8	4.0	2.7	1.9	1.5	
3	1.0	1.3	2.0	5.0	14.4	222.8	18.0	6.8	3.8	2.7	1.9	1.5	
4	1.0	1.1	1.9	4.0	9.9	101.5	16.7	6.8	3.8	2.7	1.9	1.5	
5	2.0	2.7	1.9	12.8	7.7	68.6	16.7	6.6	3.6	2.7	1.9	1.5	
6	1.6	1.8	2.0	7.0	6.6	55.7	16.7	6.2	3.6	2.7	1.9	1.3	
7	2.0	1.7	2.1	6.2	6.8	47.3	15.3	6.2	3.6	2.7	1.9	1.3	
8	2.0	1.5	2.3	4.8	12.2	41.0	16.2	6.0	3.4	2.7	1.9	1.3	
9	1.5	1.7	7.7	4.4	9.0	35.4	19.8	6.0	3.4	2.6	1.8	1.2	
10	1.3	1.8	129.9	5.6	10.6	31.7	24.8	5.8	3.4	2.6	1.8	1.2	
11	1.3	1.6	69.4	4.8	13.5	29.4	21.6	5.8	3.4	2.6	1.8	1.2	
12	1.0	1.3	18.9	4.2	9.6	30.0	17.5	5.8	3.4	2.6	1.7	1.1	
13	1.1	1.3	10.6	3.8	8.0	30.5	15.7	5.6	3.2	2.6	1.7	1.1	
14	1.1	2.4	6.6	3.4	7.3	31.1	14.0	5.4	3.2	2.6	1.7	1.1	
15	1.0	4.8	5.2	3.2	6.4	31.7	15.3	5.2	3.2	2.4	1.7	1.0	
16	1.0	5.8	4.4	3.4	6.0	29.4	18.0	5.0	3.2	2.4	1.7	1.0	
17	0.9	3.8	3.8	4.0	5.8	26.5	14.8	5.0	3.2	2.3	1.7	1.0	
18	0.9	6.8	3.4	4.4	5.2	28.8	13.5	5.0	3.2	2.3	1.7	1.0	
19	1.2	16.7	2.9	4.6	5.0	24.2	12.8	5.0	3.2	2.3	1.9	1.0	
20	1.3	5.4	2.8	4.4	4.8	22.5	11.9	4.8	3.2	2.3	2.1	0.9	
21	1.1	3.6	2.7	3.8	4.6	22.0	11.2	4.8	3.0	2.3	1.9	0.9	
22	1.0	2.8	2.7	3.4	5.0	25.4	10.6	4.6	3.0	2.2	1.8	0.9	
23	1.1	2.3	2.6	3.2	5.4	22.0	9.9	4.6	3.0	2.2	1.7	0.9	
24	0.9	2.0	2.4	3.2	13.5	20.3	9.3	4.4	2.9	2.1	1.7	0.9	
25	0.9	1.8	2.4	3.0	13.2	18.9	8.6	4.4	2.9	2.1	1.6	0.9	
26	0.9	1.7	2.8	3.8	13.5	46.6	8.3	4.2	2.9	2.0	1.6	1.3	
27	0.9	1.6	2.9	4.2	26.0	55.7	8.0	4.2	2.9	2.0	1.6	1.2	
28	0.9	1.6	2.7	3.6	14.4	36.8	8.6	4.2	2.8	2.0	1.6	1.0	
29	0.9	2.7	2.7	3.4	22.5	28.2	8.0	4.2	2.8	2.0	1.6	1.0	
30	0.9	2.7	3.2	4.6	123.9	23.7	7.7	4.0	2.8	2.0		0.9	
31		3.2		11.5	562.5		7.3		2.8	1.9		0.9	
Total	34.8	92.6	309.6	148.7	980.5	1832.6	437.3	160.4	100.8	74.1	51.6	35.0	4258.0 CMSDAY
Mean	1.2	3.0	10.3	4.8	31.6	61.1	14.1	5.3	3.3	2.4	1.8	1.1	11.6 CMS
Max	2.0	16.7	129.9	12.8	562.5	333.7	24.8	7.0	4.0	2.8	2.1	1.5	562.5 CMS
Min	0.9	1.1	1.9	3.0	4.6	18.9	7.3	4.0	2.8	1.9	1.6	0.9	0.9 CMS
Runoff	3.01	8.00	26.75	12.85	84.72	158.34	37.78	13.86	8.71	6.40	4.46	3.02	367.89 MCM

Momentary Peak 687.50 CMS, at 73.95 M (MSL), at 14.00 Hours, on Aug 31, 1995
Runoff Yield 26.74 Liters/Second/Square KM, Momentary Peak Yield 1580.460 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

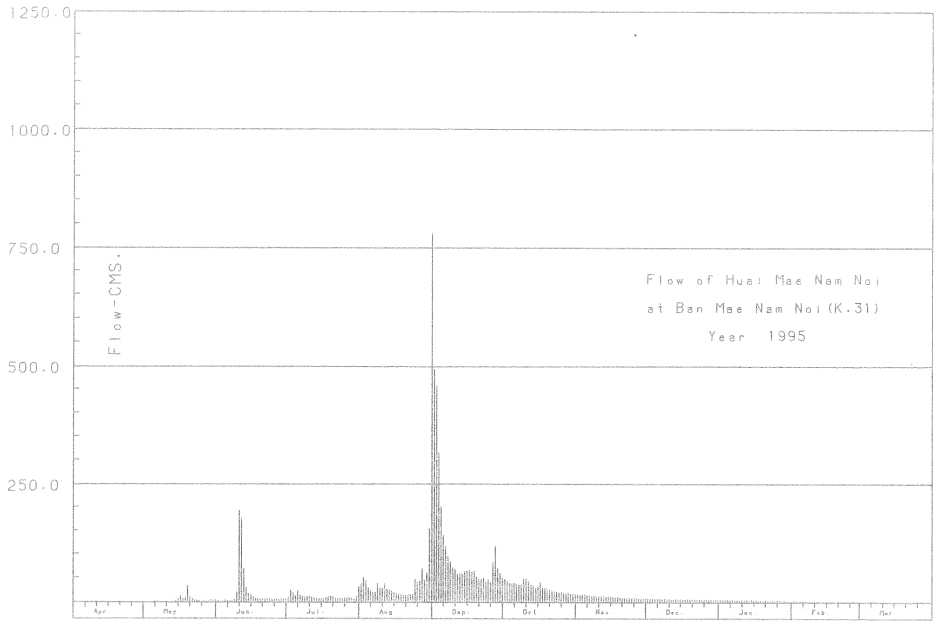
Huai Mae Nam Noi at Ban Mae Nam Noi, Kanchanaburi (K.31)

Location	Lat. 14-26-21 N., Long. 98-49-21 E., on right bank about 2 kilometers downstream from station K.22A, Amphoe Sai Yok, Kanchanaburi.
Drainage Area	777 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+62.72 m.(M.S.L)
Bench Mark	B.M.-H.D.
Location	On right bank about 5 meters from the top staff gage.
Elevation	+70.537 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	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date.
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records poor. Stage-discharge relation defined by 106 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.79	65.79	65.99	66.26	66.79	69.85	66.93	66.39	66.18	66.04	65.94	65.87	
2	65.78	65.88	65.94	66.59	66.97	69.70	66.85	66.38	66.17	66.04	65.93	65.87	
3	65.77	65.81	65.90	66.47	66.87	69.02	66.81	66.40	66.17	66.04	65.93	65.88	
4	65.78	65.80	66.00	66.35	66.66	68.34	66.78	66.38	66.16	66.03	65.93	65.88	
5	65.84	65.90	65.95	66.56	66.57	67.88	66.81	66.37	66.16	66.03	65.92	65.87	
6	65.81	65.82	65.93	66.40	66.51	67.67	66.78	66.34	66.15	66.03	65.92	65.86	
7	65.84	65.83	65.92	66.34	66.51	67.47	66.76	66.33	66.15	66.03	65.92	65.86	
8	65.84	65.81	66.10	66.26	66.79	67.36	66.76	66.33	66.14	66.02	65.92	65.85	
9	65.81	65.83	66.52	66.31	66.66	67.23	66.92	66.32	66.14	66.02	65.91	65.84	
10	65.83	65.82	68.28	66.30	66.66	67.18	66.93	66.31	66.14	66.02	65.91	65.84	
11	65.82	65.82	68.16	66.27	66.79	67.07	66.86	66.31	66.13	66.01	65.91	65.83	
12	65.81	65.81	67.20	66.24	66.62	67.08	66.76	66.30	66.13	66.01	65.90	65.82	
13	65.79	65.80	66.66	66.21	66.57	67.07	66.73	66.30	66.13	66.01	65.90	65.81	
14	65.78	65.97	66.45	66.19	66.56	67.11	66.66	66.29	66.12	66.01	65.90	65.80	
15	65.77	66.18	66.37	66.17	66.50	67.14	66.72	66.28	66.12	66.00	65.90	65.79	
16	65.77	66.33	66.28	66.20	66.45	67.16	66.84	66.27	66.11	66.00	65.89	65.79	
17	65.76	66.13	66.22	66.25	66.44	67.12	66.67	66.26	66.11	65.99	65.89	65.79	
18	65.76	66.24	66.18	66.31	66.38	67.14	66.66	66.26	66.10	65.99	65.89	65.79	
19	65.77	66.73	66.15	66.31	66.38	67.00	66.64	66.25	66.10	65.99	65.91	65.78	
20	65.81	66.26	66.12	66.28	66.35	66.92	66.60	66.24	66.09	65.98	65.95	65.78	
21	65.79	66.17	66.11	66.22	66.38	66.92	66.57	66.23	66.09	65.98	65.92	65.78	
22	65.78	66.03	66.11	66.21	66.41	66.96	66.54	66.23	66.09	65.98	65.91	65.77	
23	65.77	65.98	66.11	66.18	66.40	66.85	66.52	66.22	66.08	65.97	65.90	65.77	
24	65.75	65.92	66.08	66.17	66.92	66.90	66.49	66.21	66.08	65.97	65.90	65.77	
25	65.77	65.92	66.09	66.22	66.81	66.83	66.48	66.21	66.07	65.97	65.89	65.77	
26	65.76	65.91	66.12	66.23	66.87	67.33	66.47	66.20	66.07	65.96	65.89	65.82	
27	65.75	65.88	66.11	66.25	67.20	67.68	66.45	66.20	66.06	65.96	65.88	65.80	
28	65.75	65.88	66.11	66.20	66.89	67.22	66.48	66.20	66.06	65.95	65.88	65.79	
29	65.79	66.06	66.13	66.18	67.09	67.08	66.44	66.19	66.06	65.95	65.88	65.78	
30	65.77	65.98	66.18	66.30	68.00	66.95	66.43	66.18	66.06	65.95		65.77	
31		66.05		66.71	70.91		66.41		66.04	65.95		65.77	
Mean	65.79	65.98	66.32	66.29	66.84	67.44	66.67	66.28	66.11	66.00	65.91	65.81	
Max	65.84	66.73	68.28	66.71	70.91	69.85	66.93	66.40	66.18	66.04	65.95	65.88	70.91
Min	65.75	65.79	65.90	66.17	66.35	66.83	66.41	66.18	66.04	65.95	65.88	65.77	65.75

Annual Max Momentary Gage Height 72.22 M (MSL), at 15.00 Hours, on Aug 31, 1995
Zero Gage at Bottom Elevation 62.72 M (MSL), River Bed 62.50 M (MSL)
Left Bank Elevation 80.00 M (MSL)
Right Bank Elevation 79.00 M (MSL), Drainage Area 777 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.9	0.9	3.8	10.4	39.3	494.7	49.1	15.6	7.6	4.8	3.1	2.1	
2	0.8	2.2	3.1	25.5	51.9	460.5	43.5	15.2	7.4	4.8	2.9	2.1	
3	0.7	1.1	2.5	19.5	44.9	317.9	40.7	16.0	7.4	4.8	2.9	2.2	
4	0.8	1.0	4.0	14.0	30.2	203.3	38.6	15.2	7.2	4.6	2.9	2.2	
5	1.6	2.5	3.2	24.0	24.5	141.6	40.7	14.8	7.2	4.6	2.8	2.1	
6	1.1	1.3	2.9	16.0	21.5	117.7	38.6	13.6	7.0	4.6	2.8	1.9	
7	1.6	1.4	2.8	13.6	21.5	97.0	37.2	13.2	7.0	4.6	2.8	1.9	
8	1.6	1.1	6.0	10.4	39.3	86.2	37.2	13.2	6.8	4.4	2.8	1.7	
9	1.1	1.4	22.0	12.4	30.2	73.9	48.4	12.8	6.8	4.4	2.7	1.6	
10	1.4	1.3	194.6	12.0	30.2	69.3	49.1	12.4	6.8	4.4	2.7	1.6	
11	1.3	1.3	177.6	10.8	39.3	60.0	44.2	12.4	6.6	4.2	2.7	1.4	
12	1.1	1.1	71.0	9.6	27.4	60.8	37.2	12.0	6.6	4.2	2.5	1.3	
13	0.9	1.0	30.2	8.4	24.5	60.0	35.1	12.0	6.6	4.2	2.5	1.1	
14	0.8	3.6	18.5	7.8	24.0	63.4	30.2	11.6	6.4	4.2	2.5	1.0	
15	0.7	7.5	14.8	7.4	21.0	65.9	34.4	11.2	6.4	4.0	2.5	0.9	
16	0.7	13.2	11.2	8.0	18.5	67.6	42.8	10.8	6.2	4.0	2.3	0.9	
17	0.6	6.6	8.8	10.0	18.0	64.2	30.9	10.4	6.2	3.8	2.3	0.9	
18	0.6	9.6	7.6	12.4	15.2	65.9	30.2	10.4	6.0	3.8	2.3	0.9	
19	0.7	35.1	7.0	12.4	15.2	54.0	28.8	10.0	6.0	3.8	2.7	0.8	
20	1.1	10.4	6.4	11.2	14.0	48.4	26.0	9.6	5.8	3.7	3.2	0.8	
21	0.9	7.4	6.2	8.8	15.2	48.4	24.5	9.2	5.8	3.7	2.8	0.8	
22	0.8	4.6	6.2	8.4	16.5	51.2	23.0	9.2	5.8	3.7	2.7	0.7	
23	0.7	3.7	6.2	7.6	16.0	43.5	22.0	8.8	5.6	3.6	2.5	0.7	
24	0.5	2.8	5.6	7.4	48.4	47.0	20.5	8.4	5.6	3.6	2.5	0.7	
25	0.7	2.8	5.8	8.8	40.7	42.1	20.0	8.4	5.4	3.6	2.3	0.7	
26	0.6	2.7	6.4	9.2	44.9	83.4	19.5	8.0	5.4	3.4	2.3	1.3	
27	0.5	2.2	6.2	10.0	71.0	118.8	18.5	8.0	5.2	3.4	2.2	1.0	
28	0.5	2.2	6.2	8.0	46.3	72.9	20.0	8.0	5.2	3.2	2.2	0.9	
29	0.9	5.2	6.6	7.6	61.6	60.8	18.0	7.8	5.2	3.2	2.2	0.8	
30	0.7	3.7	7.6	12.0	156.0	50.5	17.5	7.6	5.2	3.2		0.7	
31		5.0		33.7	780.4		16.5		4.8	3.2		0.7	
Total	26.9	146.0	661.0	377.3	1847.6	3290.9	982.9	335.8	193.2	123.7	75.6	38.4	8099.3 CMSDAY
Mean	0.9	4.7	22.0	12.2	59.6	109.7	31.7	11.2	6.2	4.0	2.6	1.2	22.1 CMS
Max	1.6	35.1	194.6	33.7	780.4	494.7	49.1	16.0	7.6	4.8	3.2	2.2	780.4 CMS
Min	0.5	0.9	2.5	7.4	14.0	42.1	16.5	7.6	4.8	3.2	2.2	0.7	0.5 CMS
Runoff	2.32	12.61	57.11	32.60	159.63	284.33	84.92	29.01	16.69	10.69	6.53	3.32	699.78 MCM

Momentary Peak 1155.00 CMS, at 72.22 M (MSL), at 15.00 Hours, on Aug 31, 1995
Runoff Yield 28.48 Liters/Second/Square KM, Momentary Peak Yield 1486.486 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

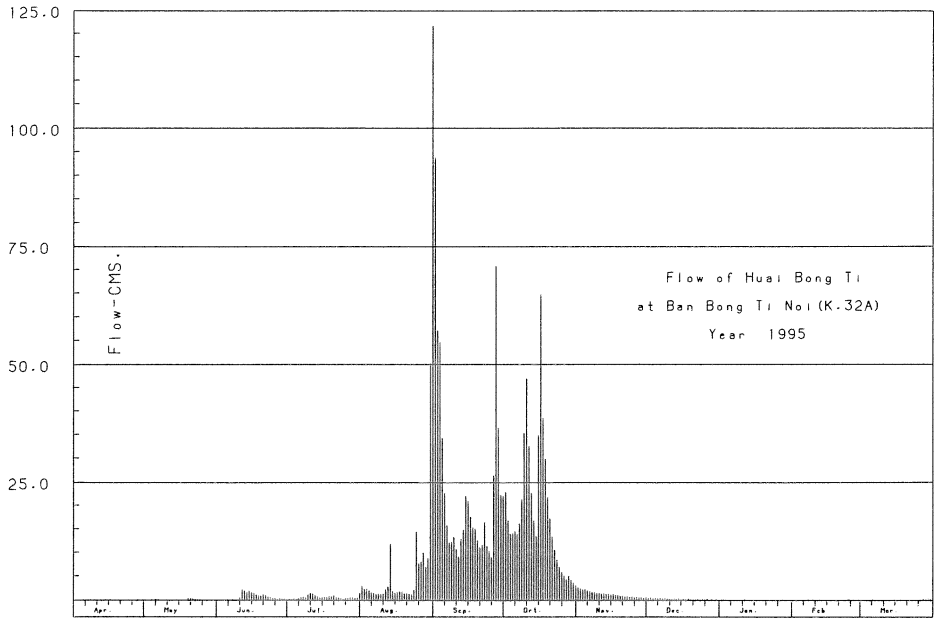
Huai Bong Ti at Ban Bong Ti Noi, Kanchanaburi (K.32A)

Location	Lat. 14-16-25 N., Long. 98-56-04 E., on right bank at Ban Bong Ti Noi,Amphoe Sai Yok, Kanchanaburi.
Drainage Area	512 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 6.50 meters from the top staff gage.
Elevation	+6.055 m.(A.D.)
Gage Reading Frequency	16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 16 readings.
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Float	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 214 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.63	0.79	0.86	1.48	4.82	2.78	1.45	0.99	0.82	0.78	0.77	
2	0.65	0.63	0.78	0.86	1.41	4.01	2.47	1.41	0.97	0.82	0.77	0.77	
3	0.64	0.62	0.77	0.89	1.41	3.94	2.32	1.39	0.96	0.82	0.77	0.76	
4	0.64	0.74	0.76	0.89	1.36	3.27	2.32	1.38	0.96	0.81	0.77	0.76	
5	0.64	0.83	0.80	0.91	1.28	2.76	2.35	1.36	0.95	0.81	0.77	0.76	
6	0.64	0.77	0.83	1.03	1.22	2.42	2.31	1.32	0.95	0.81	0.77	0.76	
7	0.64	0.72	0.82	1.02	1.19	2.20	2.44	1.29	0.94	0.80	0.76	0.75	
8	0.64	0.70	0.81	1.01	1.19	2.21	2.70	1.27	0.93	0.80	0.76	0.75	
9	0.64	0.68	0.82	1.13	1.19	2.28	3.31	1.25	0.92	0.79	0.76	0.74	
10	0.64	0.68	1.03	1.24	1.19	2.12	3.71	1.23	0.91	0.79	0.76	0.74	
11	0.64	0.70	1.37	1.19	1.38	2.02	3.20	1.22	0.91	0.78	0.76	0.74	
12	0.64	0.72	1.35	1.13	1.47	2.25	2.77	1.21	0.90	0.78	0.75	0.74	
13	0.64	0.73	1.27	1.05	2.19	2.36	2.47	1.21	0.90	0.78	0.75	0.75	
14	0.64	0.75	1.35	1.01	1.32	2.74	2.29	1.19	0.90	0.78	0.75	0.74	
15	0.64	0.77	1.29	1.01	1.26	2.68	3.29	1.17	0.89	0.78	0.75	0.73	
16	0.64	0.78	1.23	1.01	1.26	2.52	4.20	1.18	0.89	0.78	0.75	0.73	
17	0.64	0.77	1.16	1.03	1.32	2.39	3.42	1.15	0.88	0.78	0.74	0.73	
18	0.64	0.84	1.09	1.05	1.30	2.38	3.09	1.12	0.88	0.77	0.76	0.72	
19	0.63	0.90	1.10	1.07	1.22	2.23	2.72	1.10	0.87	0.77	0.82	0.72	
20	0.63	0.93	1.16	1.09	1.19	2.14	2.50	1.09	0.87	0.77	0.79	0.72	
21	0.63	0.91	1.11	1.02	1.16	2.17	2.28	1.07	0.86	0.77	0.77	0.71	
22	0.64	0.87	1.05	0.97	1.17	2.45	2.11	1.07	0.86	0.77	0.77	0.71	
23	0.64	0.84	1.00	0.93	1.38	2.16	1.97	1.06	0.86	0.76	0.76	0.71	
24	0.63	0.81	0.96	0.91	2.34	2.09	1.86	1.04	0.85	0.77	0.76	0.71	
25	0.63	0.78	0.94	0.89	1.92	2.01	1.77	1.03	0.85	0.78	0.76	0.72	
26	0.63	0.76	0.91	0.98	1.94	2.94	1.70	1.02	0.84	0.78	0.76	0.78	
27	0.63	0.75	0.92	1.01	2.07	4.34	1.63	1.02	0.84	0.78	0.76	0.89	
28	0.63	0.76	0.89	0.98	1.86	3.35	1.69	1.01	0.84	0.78	0.77	0.86	
29	0.63	0.76	0.87	0.95	1.99	2.75	1.62	1.00	0.83	0.78	0.77	0.92	
30	0.63	0.78	0.86	1.00	3.81	2.73	1.55	1.00	0.83	0.78		0.88	
31		0.79		1.25	5.34		1.49		0.83	0.78		0.84	
Mean	0.64	0.76	1.00	1.01	1.67	2.69	2.46	1.18	0.89	0.79	0.76	0.76	
Max	0.65	0.93	1.37	1.25	5.34	4.82	4.20	1.45	0.99	0.82	0.82	0.92	5.34
Min	0.63	0.62	0.76	0.86	1.16	2.01	1.49	1.00	0.83	0.76	0.74	0.71	0.62

Annual Max Momentary Gage Height 6.11 M (A.D), at 17.00 Hours, on Aug 31, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.55 M (A.D)
Left Bank Elevation 9.00 M (A.D)
Right Bank Elevation 10.35 M (A.D), Drainage Area 512 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.03	0.19	0.32	3.04	93.84	23.00	2.80	0.58	0.24	0.18	0.17	
2	0.05	0.03	0.18	0.32	2.48	57.38	16.86	2.48	0.54	0.24	0.17	0.17	
3	0.04	0.02	0.17	0.38	2.48	54.72	14.16	2.34	0.52	0.24	0.17	0.16	
4	0.04	0.14	0.16	0.38	2.16	34.42	14.16	2.28	0.52	0.22	0.17	0.16	
5	0.04	0.26	0.20	0.42	1.72	22.60	14.70	2.16	0.50	0.22	0.17	0.16	
6	0.04	0.17	0.26	0.72	1.48	15.96	13.98	1.92	0.50	0.22	0.17	0.16	
7	0.04	0.12	0.24	0.68	1.36	12.20	16.32	1.76	0.48	0.20	0.16	0.15	
8	0.04	0.10	0.22	0.64	1.36	12.36	21.40	1.68	0.46	0.20	0.16	0.15	
9	0.04	0.08	0.24	1.12	1.36	13.48	35.48	1.60	0.44	0.19	0.16	0.14	
10	0.04	0.08	0.72	1.56	1.36	10.92	47.12	1.52	0.42	0.19	0.16	0.14	
11	0.04	0.10	2.22	1.36	2.28	9.32	32.60	1.48	0.42	0.18	0.16	0.14	
12	0.04	0.12	2.10	1.12	2.96	13.00	22.80	1.44	0.40	0.18	0.15	0.14	
13	0.04	0.13	1.68	0.80	12.04	14.88	16.86	1.44	0.40	0.18	0.15	0.15	
14	0.04	0.15	2.10	0.64	1.92	22.20	13.64	1.36	0.40	0.18	0.15	0.14	
15	0.04	0.17	1.76	0.64	1.64	21.00	34.94	1.28	0.38	0.18	0.15	0.13	
16	0.04	0.18	1.52	0.64	1.64	17.80	64.80	1.32	0.38	0.18	0.15	0.13	
17	0.04	0.17	1.24	0.72	1.92	15.42	38.56	1.20	0.36	0.18	0.14	0.13	
18	0.04	0.28	0.96	0.80	1.80	15.24	29.96	1.08	0.36	0.17	0.16	0.12	
19	0.03	0.40	1.00	0.88	1.48	12.68	21.80	1.00	0.34	0.17	0.24	0.12	
20	0.03	0.46	1.24	0.96	1.36	11.24	17.40	0.96	0.34	0.17	0.19	0.12	
21	0.03	0.42	1.04	0.68	1.24	11.72	13.48	0.88	0.32	0.17	0.17	0.11	
22	0.04	0.34	0.80	0.54	1.28	16.50	10.76	0.88	0.32	0.17	0.17	0.11	
23	0.04	0.28	0.60	0.46	2.28	11.56	8.58	0.84	0.32	0.16	0.16	0.11	
24	0.03	0.22	0.52	0.42	14.52	10.44	7.12	0.76	0.30	0.17	0.16	0.11	
25	0.03	0.18	0.48	0.38	7.88	9.16	6.04	0.72	0.30	0.18	0.16	0.12	
26	0.03	0.16	0.42	0.56	8.16	26.36	5.20	0.68	0.28	0.18	0.16	0.18	
27	0.03	0.15	0.44	0.64	10.12	70.96	4.50	0.68	0.28	0.18	0.16	0.38	
28	0.03	0.16	0.38	0.56	7.12	36.60	5.10	0.64	0.28	0.18	0.17	0.32	
29	0.03	0.16	0.34	0.50	8.86	22.40	4.40	0.60	0.26	0.18	0.17	0.44	
30	0.03	0.18	0.32	0.60	50.32	22.00	3.70	0.60	0.26	0.18		0.36	
31		0.19		1.60	121.84		3.12		0.26	0.18		0.28	
Total	1.12	5.63	23.74	22.04	281.46	718.36	582.54	40.38	11.92	5.86	4.79	5.40	1703.24 CMSDAY
Mean	0.04	0.18	0.79	0.71	9.08	23.95	18.79	1.35	0.38	0.19	0.17	0.17	4.65 CMS
Max	0.05	0.46	2.22	1.60	121.84	93.84	64.80	2.80	0.58	0.24	0.24	0.44	121.84 CMS
Min	0.03	0.02	0.16	0.32	1.24	9.16	3.12	0.60	0.26	0.16	0.14	0.11	0.02 CMS
Runoff	0.097	0.486	2.051	1.904	24.318	62.066	50.331	3.489	1.030	0.506	0.414	0.467	147.160 MCM

Momentary Peak 170.50 CMS, at 6.11 M (A.D), at 17.00 Hours, on Aug 31, 1995
Runoff Yield 9.09 Liters/Second/Square KM, Momentary Peak Yield 333.008 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

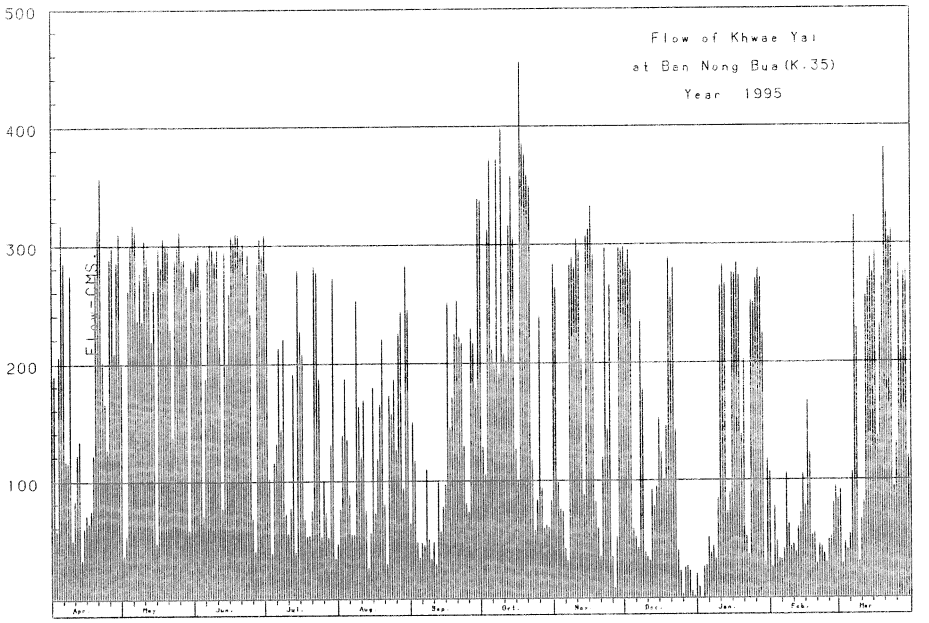
Khwae Yai River at Ban Nong Bua, Kanchanaburi (K.35)

Location	Lat. 14°-03'-22" N., Long. 99°-27'-35" E., on left bank at Ban Nong Bua, Amphoe Muang, Kanchanaburi.
Drainage Area	14,528 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 3 meters from the third staff gage.
Elevation	+7.667 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 - 1985, 1987 to date
Rated by Float	-
Rated by Current Meter	1984 - 1985, 1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow..
General Description	Records fair. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 51 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.60	2.04	4.32	4.24	2.56	3.28	3.10	4.14	4.29	1.54	1.87	2.73	
2	2.34	2.28	4.36	2.84	3.19	2.99	2.87	2.81	4.37	1.22	2.57	1.91	
3	3.72	4.13	4.14	2.08	3.58	2.22	4.49	2.55	4.25	1.87	2.22	2.20	
4	4.52	4.40	2.49	2.98	3.16	2.01	4.86	2.53	2.35	1.90	1.98	2.11	
5	4.30	4.52	3.58	3.13	2.69	2.21	3.76	2.13	2.27	2.26	1.98	2.29	
6	2.99	4.48	4.33	3.77	2.29	2.17	3.66	1.96	2.13	2.06	2.11	2.88	
7	2.98	3.95	4.41	3.23	2.30	2.92	4.86	4.28	3.94	2.15	2.88	4.56	
8	4.22	4.23	4.38	3.83	4.07	2.24	3.61	4.32	3.50	1.99	2.40	3.89	
9	2.24	3.94	4.30	2.51	3.39	2.00	4.98	4.26	2.08	2.65	2.14	1.94	
10	2.64	4.43	4.38	2.31	3.02	2.21	3.73	4.43	2.01	4.15	2.18	2.44	
11	3.04	4.33	3.78	2.57	3.43	1.92	3.69	4.37	1.97	4.28	2.07	2.62	
12	3.15	4.22	2.57	3.61	2.54	2.82	4.51	3.70	2.73	4.16	2.36	4.09	
13	1.99	3.82	4.36	2.08	1.87	2.33	4.79	2.69	2.58	2.52	2.51	4.19	
14	2.36	4.13	3.68	4.25	2.32	2.58	4.44	4.45	2.76	2.71	2.87	4.32	
15	2.50	2.21	4.11	3.88	3.52	2.79	3.08	4.49	3.30	4.23	2.58	4.23	
16	2.42	4.38	4.45	3.73	2.52	4.05	2.83	4.62	3.05	4.22	3.42	4.35	
17	2.54	4.27	4.42	2.45	3.01	3.24	5.25	4.34	2.83	4.29	3.04	3.18	
18	3.04	4.44	4.47	2.28	3.40	3.45	4.92	2.62	3.25	4.21	2.28	3.91	
19	4.23	4.40	4.46	2.28	3.83	3.86	4.88	2.36	4.32	3.19	2.30	4.20	
20	4.49	4.39	4.39	2.55	2.60	4.07	4.79	2.02	4.08	3.69	1.92	4.90	
21	4.78	3.89	4.41	4.27	1.93	3.84	4.73	3.01	4.26	2.27	2.17	4.58	
22	3.69	3.18	4.23	4.24	3.46	3.80	3.00	4.38	3.22	2.05	2.15	4.44	
23	3.41	4.32	4.35	3.58	3.34	3.11	2.33	3.23	2.10	4.06	2.06	4.48	
24	3.08	4.39	3.99	2.27	3.57	2.61	2.64	4.16	1.82	4.05	1.93	2.76	
25	4.32	4.48	2.46	2.83	3.08	2.53	3.97	2.02	1.38	4.19	2.23	3.12	
26	4.39	4.31	2.10	2.52	3.86	3.89	2.75	1.52	1.86	4.25	2.26	4.28	
27	3.74	4.32	4.29	2.27	4.00	3.80	2.36	2.26	1.88	4.20	2.61	3.74	
28	4.30	4.16	4.44	3.12	2.75	3.51	2.39	4.38	1.82	3.86	2.76	4.23	
29	4.47	2.35	4.34	4.20	4.28	4.66	2.37	4.37	1.44	1.93	2.64	4.24	
30	3.68	4.27	4.46	2.01	4.01	4.65	2.64	4.39	1.29	3.00		3.02	
31		4.25		2.19	2.42		4.29		1.76	2.89		2.31	
Mean	3.44	3.96	4.02	3.04	3.10	3.06	3.76	3.43	2.74	3.10	2.36	3.49	
Max	4.78	4.52	4.47	4.27	4.28	4.66	5.25	4.62	4.37	4.29	3.42	4.90	5.25
Min	1.99	2.04	2.10	2.01	1.87	1.92	2.33	1.52	1.29	1.22	1.87	1.91	1.22

Annual Max Momentary Gage Height 5.69 M (A.D), at 6.00 Hours, on Mar 20, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.47 M (A.D)
Left Bank Elevation 8.55 M (A.D)
Right Bank Elevation 8.30 M (A.D), Drainage Area 14528 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.00	36.60	288.80	277.60	76.60	150.00	129.00	263.60	284.60	9.60	26.20	91.70	
2	58.20	53.40	294.40	102.00	138.90	117.00	105.00	99.00	295.80	0.40	77.45	28.60	
3	206.20	262.20	263.60	39.20	187.50	48.60	313.50	75.75	279.00	26.20	48.60	47.00	
4	318.00	300.00	70.65	116.00	135.60	34.65	372.67	74.05	59.00	28.00	32.80	41.15	
5	286.00	318.00	187.50	132.30	88.10	47.80	211.60	42.45	52.60	51.80	32.80	54.20	
6	117.00	312.00	290.20	212.95	54.20	45.05	198.10	31.60	42.45	37.90	41.15	106.00	
7	116.00	237.25	301.50	143.75	55.00	110.00	372.67	283.20	235.90	43.75	106.00	324.00	
8	274.80	276.20	297.20	221.05	253.80	50.20	191.35	288.80	177.50	33.40	63.00	229.15	
9	50.20	235.90	286.00	72.35	163.75	34.00	398.00	280.40	39.20	84.50	43.10	30.40	
10	83.60	304.50	297.20	55.80	120.20	47.80	207.55	304.50	34.65	265.00	45.70	66.40	
11	122.40	290.20	214.30	77.45	168.75	29.20	202.15	295.80	32.20	283.20	38.55	81.80	
12	134.50	274.80	77.45	191.35	74.90	100.00	316.50	203.50	91.70	266.40	59.80	256.60	
13	33.40	219.70	294.40	39.20	26.20	57.40	358.50	88.10	78.30	73.20	72.35	270.60	
14	59.80	262.20	200.80	279.00	56.60	78.30	306.00	307.50	94.40	89.90	105.00	288.80	
15	71.50	47.80	259.40	227.80	180.00	97.10	126.80	313.50	152.50	276.20	78.30	276.20	
16	64.70	297.20	307.50	207.55	73.20	251.00	101.00	333.00	123.50	274.80	167.50	293.00	
17	74.90	281.80	303.00	67.25	119.10	145.00	455.00	291.60	101.00	284.60	122.40	137.80	
18	122.40	306.00	310.50	53.40	165.00	171.25	385.33	81.80	146.25	273.40	53.40	231.85	
19	276.20	300.00	309.00	53.40	221.05	225.10	376.89	59.80	288.80	138.90	55.00	272.00	
20	313.50	298.60	298.60	75.75	80.00	253.80	358.50	35.30	255.20	202.15	29.20	381.11	
21	357.00	229.15	301.50	281.80	29.80	222.40	349.50	119.10	280.40	52.60	45.05	327.00	
22	202.15	137.80	276.20	277.60	172.50	217.00	118.00	297.20	142.50	37.25	43.75	306.00	
23	166.25	288.80	293.00	187.50	157.50	130.10	57.40	143.75	40.50	252.40	37.90	312.00	
24	126.80	298.60	242.65	52.60	186.25	80.90	83.60	266.40	23.20	251.00	29.80	94.40	
25	288.80	312.00	68.10	101.00	126.80	74.05	239.95	35.30	3.60	270.60	49.40	131.20	
26	298.60	287.40	40.50	73.20	225.10	229.15	93.50	8.80	25.60	279.00	51.80	283.20	
27	208.90	288.80	284.60	52.60	244.00	217.00	59.80	51.80	26.80	272.00	80.90	208.90	
28	286.00	266.40	306.00	131.20	93.50	178.75	62.20	297.20	23.20	225.10	94.40	276.20	
29	310.50	59.00	291.60	272.00	283.20	339.00	60.60	295.80	5.60	29.80	83.60	277.60	
30	200.80	281.80	309.00	34.65	245.40	337.50	83.60	298.60	1.80	118.00		120.20	
31		279.00		46.35	64.70		284.60		20.09	107.00		55.80	
Total	5419.10	7643.10	7565.15	4155.65	4267.20	4119.10	6978.86	5567.20	3457.75	4638.05	1814.90	5900.86	61526.92 CMSDAY
Mean	180.64	246.55	252.17	134.05	137.65	137.30	225.12	185.57	111.54	149.61	62.58	190.35	168.11 CMS
Max	357.00	318.00	310.50	281.80	283.20	339.00	455.00	333.00	295.80	284.60	167.50	381.11	455.00 CMS
Min	33.40	36.60	40.50	34.65	26.20	29.20	57.40	8.80	1.80	0.40	26.20	28.60	0.40 CMS
Runoff	468.210	660.364	653.629	359.048	368.686	355.890	602.974	481.006	298.750	400.728	156.807	509.834	5315.926 MCM

Momentary Peak 547.89 CMS, at 5.69 M (A.D), at 6.00 Hours, on Mar 20, 1995
Runoff Yield 11.57 Liters/Second/Square KM, Momentary Peak Yield 37.713 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

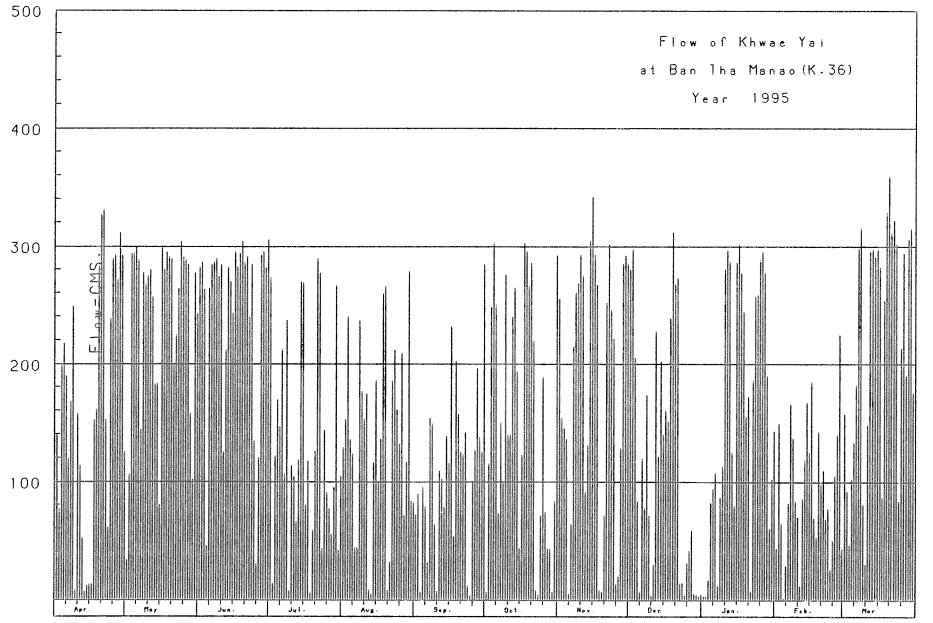
Khwae Yai River at Ban Tha Manao, Kanchanaburi (K.36)

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 fair. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 38 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.36	2.23	4.41	4.35	3.27	2.70	1.68	4.23	4.40	1.55	2.35	3.51	
2	2.76	3.06	4.44	1.87	3.47	2.90	3.15	3.48	4.51	1.57	3.44	2.92	
3	3.82	4.49	4.28	3.21	4.12	1.69	4.18	3.41	3.87	1.92	2.63	2.40	
4	3.96	4.49	2.39	3.61	3.33	2.95	4.55	3.33	2.83	2.82	1.55	3.03	
5	3.76	4.53	4.29	3.42	3.23	2.78	4.19	1.65	1.69	2.94	2.15	3.31	
6	3.19	4.45	4.43	3.92	2.36	2.20	2.72	2.62	3.19	3.08	2.81	3.70	
7	3.60	3.40	4.44	3.07	2.37	3.48	3.45	3.94	2.77	1.83	3.58	4.52	
8	4.18	4.38	4.46	4.10	4.10	3.44	2.99	4.26	3.64	2.87	3.34	4.63	
9	1.72	4.31	4.36	1.72	3.66	2.61	4.37	4.32	2.70	3.13	2.83	2.81	
10	3.51	4.36	4.43	3.14	3.47	1.69	3.36	4.48	1.60	4.40	2.69	2.18	
11	3.14	4.40	3.24	3.05	3.65	3.09	3.36	4.36	2.17	4.51	1.83	3.43	
12	2.47	4.24	3.92	2.64	1.73	3.03	4.12	2.91	4.03	4.44	2.86	4.50	
13	1.69	3.71	4.41	3.18	1.64	2.78	4.29	3.29	3.21	3.24	3.18	4.51	
14	1.82	3.71	4.33	4.33	3.16	3.35	3.79	4.56	3.85	2.79	3.59	4.47	
15	1.84	2.80	4.14	4.32	3.73	3.16	2.36	4.81	3.36	4.44	3.24	4.51	
16	1.85	4.53	4.50	2.80	3.01	4.06	3.22	4.48	3.53	4.54	3.72	4.41	
17	3.47	4.40	4.41	3.17	3.33	2.49	4.55	4.31	3.46	4.38	2.68	2.87	
18	3.54	4.50	4.49	1.67	4.26	3.85	4.50	1.72	4.11	4.15	2.48	4.22	
19	4.42	4.47	4.56	2.55	4.30	3.51	4.30	1.69	4.61	3.49	3.38	4.72	
20	4.71	4.46	4.44	3.25	1.73	3.24	4.44	2.70	4.31	3.63	2.98	4.92	
21	4.74	3.83	4.47	4.46	2.20	3.22	3.97	4.20	4.35	1.71	3.10	4.60	
22	3.47	4.01	4.12	4.38	3.73	3.38	1.73	4.54	1.86	3.73	2.67	4.68	
23	2.58	4.29	4.43	2.35	3.92	1.82	1.61	4.16	1.88	4.24	2.76	4.54	
24	4.11	4.56	3.32	3.39	3.54	1.60	2.70	3.99	1.62	4.25	2.09	2.83	
25	4.46	4.47	2.17	2.91	3.30	3.00	3.75	1.86	2.20	4.45	2.45	3.93	
26	4.48	4.45	3.20	2.77	3.90	3.25	2.73	1.98	2.33	4.50	3.05	4.49	
27	4.34	4.43	4.48	2.51	2.70	3.81	2.36	3.27	2.55	4.38	3.36	3.76	
28	4.61	3.51	4.50	2.96	3.16	3.34	2.35	4.43	1.65	3.76	4.01	4.57	
29	4.48	3.02	4.41	4.31	4.39	3.24	1.70	4.48	1.61	2.57	2.35	4.63	
30	3.24	4.38	4.57	2.34	2.83	4.43	2.83	4.43	1.59	3.03		3.65	
31		4.14		3.05	2.82		4.48		1.62	3.39		1.68	
Mean	3.44	4.06	4.13	3.19	3.24	3.00	3.35	3.60	2.94	3.41	2.87	3.84	
Max	4.74	4.56	4.57	4.46	4.39	4.43	4.55	4.81	4.61	4.54	4.01	4.92	4.92
Min	1.69	2.23	2.17	1.67	1.64	1.60	1.61	1.65	1.59	1.55	1.55	1.68	1.55

Annual Max Momentary Gage Height 5.75 M (A.D), at 18.00 Hours, on Mar 19, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.55 M (A.D)
Left Bank Elevation 12.90 M (A.D)
Right Bank Elevation 7.10 M (A.D), Drainage Area 11787 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.20	34.25	282.50	273.75	129.40	72.00	6.80	256.35	281.00	3.00	43.25	158.20	
2	77.40	106.30	287.00	14.50	153.40	90.50	115.75	154.60	297.50	3.40	149.80	92.40	
3	198.80	294.50	263.60	122.20	240.80	7.15	249.20	146.20	205.80	17.00	65.70	47.00	
4	218.40	294.50	46.25	170.35	136.60	95.25	303.50	136.60	83.85	82.90	3.00	103.15	
5	190.60	300.50	265.05	147.40	124.60	79.20	250.60	5.75	7.15	94.30	29.25	134.20	
6	119.95	288.50	285.50	212.80	44.00	32.00	73.80	64.80	119.95	108.40	81.95	182.50	
7	169.00	145.00	287.00	107.35	44.75	154.60	151.00	215.60	78.30	12.50	166.60	299.00	
8	249.20	278.10	290.00	238.00	238.00	149.80	99.05	260.70	174.40	87.65	137.80	315.50	
9	8.20	267.95	275.20	8.20	177.10	63.90	276.65	269.40	72.00	113.65	83.85	81.95	
10	158.20	275.20	285.50	114.70	153.40	7.15	140.20	293.00	4.00	281.00	71.10	30.90	
11	114.70	281.00	125.80	105.25	175.75	109.45	140.20	275.20	30.35	297.50	12.50	148.60	
12	52.60	257.80	212.80	66.60	8.55	103.15	240.80	91.45	228.20	287.00	86.70	296.00	
13	7.15	183.85	282.50	118.90	5.40	79.20	265.05	131.80	122.20	125.80	118.90	297.50	
14	12.00	183.85	270.85	270.85	116.80	139.00	194.65	305.00	203.00	80.10	167.80	291.50	
15	13.00	81.00	243.60	269.40	186.55	116.80	44.00	342.50	140.20	287.00	125.80	297.50	
16	13.50	300.50	296.00	81.00	101.05	232.40	123.40	293.00	160.60	302.00	185.20	282.50	
17	153.40	281.00	282.50	117.85	136.60	54.20	303.50	267.95	152.20	278.10	70.20	87.65	
18	161.80	296.00	294.50	6.45	260.70	203.00	296.00	8.20	239.40	245.00	53.40	254.90	
19	284.00	291.50	305.00	59.00	266.50	158.20	266.50	7.15	312.50	155.80	142.60	329.00	
20	327.50	290.00	287.00	127.00	8.55	125.80	287.00	72.00	267.95	173.05	98.10	359.80	
21	332.00	200.20	291.50	290.00	32.00	123.40	219.80	252.00	273.75	7.85	110.50	311.00	
22	153.40	225.40	240.80	278.10	186.55	142.60	8.55	302.00	14.00	186.55	69.30	323.00	
23	61.40	265.05	285.50	43.25	212.80	12.00	4.35	246.40	15.00	257.80	77.40	302.00	
24	239.40	305.00	135.40	143.80	161.80	4.00	72.00	222.60	4.70	259.25	25.95	83.85	
25	290.00	291.50	30.35	91.45	133.00	100.00	189.25	14.00	32.00	288.50	51.00	214.20	
26	293.00	288.50	121.00	78.30	210.00	127.00	74.70	20.00	41.75	296.00	105.25	294.50	
27	272.30	285.50	293.00	55.80	72.00	197.40	44.00	129.40	59.00	278.10	140.20	190.60	
28	312.50	158.20	296.00	96.20	116.80	137.80	43.25	285.50	5.75	190.60	225.40	306.50	
29	293.00	102.10	282.50	267.95	279.55	125.80	7.50	293.00	4.35	60.60	43.25	315.50	
30	125.80	278.10	306.50	42.50	83.85	285.50	83.85	285.50	3.80	103.15		175.75	
31		243.60		105.25	82.90		293.00		4.70	143.80		6.80	
Total	5042.40	7374.45	7450.70	4124.15	4279.75	3328.25	4867.90	5647.65	3639.35	5107.35	2741.75	6613.45	60217.15 CMSDAY
Mean	168.08	237.89	248.36	133.04	138.06	110.94	157.03	188.25	117.40	164.75	94.54	213.34	164.53 CMS
Max	332.00	305.00	306.50	290.00	279.55	285.50	303.50	342.50	312.50	302.00	225.40	359.80	359.80 CMS
Min	7.15	34.25	30.35	6.45	5.40	4.00	4.35	5.75	3.80	3.00	3.00	6.80	3.00 CMS
Runoff	435.663	637.153	643.741	356.327	369.770	287.561	420.587	487.957	314.440	441.275	236.887	571.402	5202.762 MCM

Momentary Peak 516.56 CMS, at 5.75 M (A.D), at 18.00 Hours, on Mar 19, 1995
Runoff Yield 13.96 Liters/Second/Square KM, Momentary Peak Yield 43.825 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

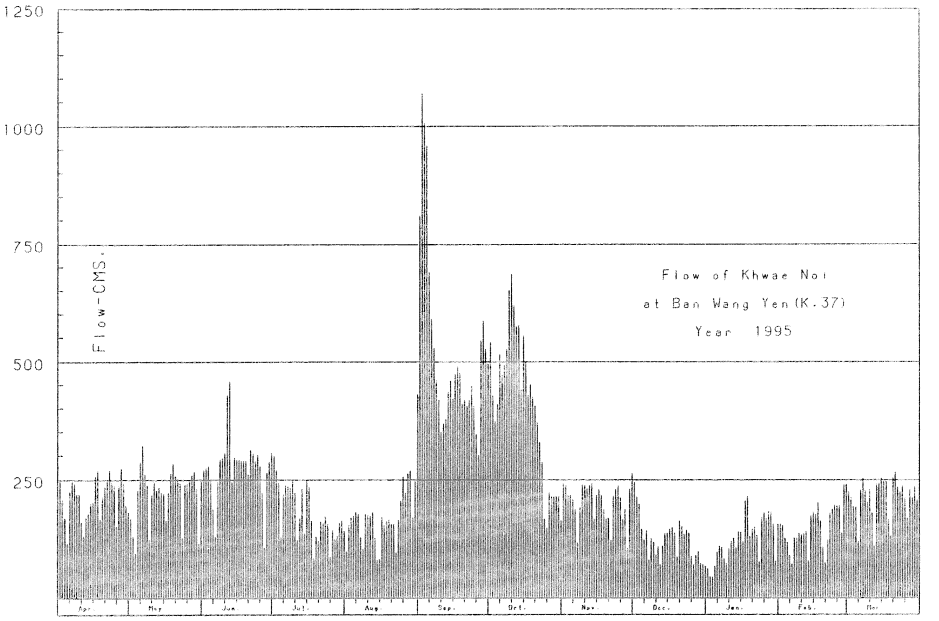
Khwae Noi River at Ban Wang Yen, Kanchanaburi (K.37)

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	No overbank flow.
General Description	Records fair. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 37 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.26	3.75	4.40	4.58	3.24	7.13	5.86	4.23	4.25	2.89	3.68	4.13	
2	4.02	3.48	4.42	4.40	3.66	8.26	5.27	4.20	4.07	2.71	3.65	4.05	
3	3.77	3.21	4.45	4.24	3.78	7.98	4.98	4.08	3.97	2.69	3.46	3.94	
4	3.36	4.14	4.28	3.46	3.80	7.78	5.18	4.08	3.60	2.96	3.38	3.92	
5	4.13	4.50	3.90	4.10	3.86	6.60	5.73	4.03	3.43	3.23	3.17	3.39	
6	4.25	4.70	3.48	4.20	3.83	6.10	5.50	3.89	3.57	3.32	2.99	4.15	
7	4.23	4.34	4.25	4.20	3.47	5.80	5.61	3.38	3.09	3.30	3.46	4.29	
8	4.09	4.21	4.53	4.17	3.27	5.44	5.78	3.93	3.44	3.11	3.45	4.14	
9	4.10	3.42	4.55	4.28	3.84	5.23	6.41	4.21	3.39	3.00	3.53	3.99	
10	3.70	4.09	4.61	4.12	3.81	4.85	6.58	4.21	3.17	3.29	3.50	4.15	
11	3.48	4.25	5.28	3.42	3.80	4.95	6.24	4.16	3.31	3.40	3.53	3.85	
12	3.78	4.15	5.43	3.76	3.86	5.01	6.02	4.21	2.99	3.46	3.56	3.33	
13	3.83	4.18	4.25	4.16	3.46	5.31	6.03	4.23	3.33	3.30	3.07	4.22	
14	3.98	4.12	4.55	3.53	3.07	5.44	5.34	3.75	3.52	3.55	3.80	4.24	
15	4.00	4.10	4.53	4.28	3.10	5.24	5.92	4.08	3.54	3.55	3.86	4.30	
16	4.32	3.72	4.52	4.18	3.78	5.51	5.64	4.16	3.59	3.39	3.82	4.27	
17	4.39	4.12	4.52	3.73	3.65	5.60	5.27	4.09	3.63	4.02	4.00	4.26	
18	3.75	4.35	4.51	3.11	3.72	5.52	5.40	3.90	3.53	4.07	3.74	3.74	
19	4.06	4.48	4.52	3.48	3.74	5.18	5.25	3.75	3.14	3.48	3.30	3.48	
20	4.19	4.33	4.34	3.40	3.68	5.22	5.16	3.77	3.73	3.59	3.03	4.31	
21	4.29	4.28	4.65	3.71	3.67	5.15	4.96	3.42	3.63	3.62	3.42	4.37	
22	4.39	4.23	4.60	3.69	3.22	5.22	4.74	4.07	3.52	3.50	3.84	4.19	
23	4.24	3.46	4.51	3.80	3.73	5.38	4.49	4.16	3.58	3.05	3.91	4.13	
24	4.21	4.22	4.59	3.67	4.02	5.15	3.76	4.20	3.54	3.77	3.95	4.20	
25	3.64	4.22	4.44	3.14	4.31	4.83	3.61	4.06	3.14	3.85	3.95	4.05	
26	4.20	4.27	4.12	3.58	4.11	4.59	4.11	3.74	2.98	3.76	3.94	3.77	
27	4.42	4.33	3.30	3.44	4.36	5.87	4.07	3.90	3.17	3.87	3.54	4.15	
28	4.23	4.38	4.37	3.48	4.39	6.08	4.06	3.29	3.23	3.86	4.21	4.06	
29	3.95	4.16	4.50	3.70	3.78	5.78	4.07	4.16	3.02	3.68	4.22	4.19	
30	3.85	3.36	4.61	3.72	4.26	5.63	4.06	4.36	2.98	3.05		4.03	
31		4.28		3.57	5.29		3.73		2.96	3.67		3.98	
Mean	4.04	4.09	4.43	3.82	3.79	5.73	5.12	3.99	3.42	3.42	3.62	4.04	
Max	4.42	4.70	5.43	4.58	5.29	8.26	6.58	4.36	4.25	4.07	4.22	4.37	8.26
Min	3.36	3.21	3.30	3.11	3.07	4.59	3.61	3.29	2.96	2.69	2.99	3.33	2.69

Annual Max Momentary Gage Height 8.30 M (A.D), at 9.00 Hours, on Sep 2, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.14 M (A.D)
Left Bank Elevation 13.03 M (A.D)
Right Bank Elevation 9.83 M (A.D), Drainage Area 10603 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	248.2	167.3	272.0	302.6	99.2	811.9	544.0	243.1	246.5	62.1	157.8	226.1	
2	207.4	130.8	275.4	272.0	155.1	1071.8	429.3	238.0	215.9	45.9	153.8	212.5	
3	170.0	95.3	280.5	244.8	171.3	1007.4	374.4	217.6	199.5	44.1	128.1	195.0	
4	114.8	227.8	251.6	128.1	174.0	961.4	412.2	217.6	147.0	68.4	117.4	192.0	
5	226.1	289.0	189.0	221.0	183.0	692.0	518.0	209.1	124.0	97.9	90.7	118.7	
6	246.5	324.0	130.8	238.0	178.5	592.0	473.0	187.5	142.9	109.6	71.1	229.5	
7	243.1	261.8	246.5	238.0	129.5	532.0	494.0	117.4	81.9	107.0	128.1	253.3	
8	219.3	239.7	294.1	232.9	103.1	461.6	528.0	193.5	125.4	84.1	126.7	227.8	
9	221.0	122.7	297.5	251.6	180.0	421.7	654.0	239.7	118.7	72.0	137.5	202.5	
10	160.5	219.3	307.8	224.4	175.5	351.0	688.0	239.7	90.7	105.7	133.5	229.5	
11	130.8	246.5	431.2	122.7	174.0	369.0	620.0	231.2	108.3	120.0	137.5	181.5	
12	171.3	229.5	459.7	168.6	183.0	379.9	576.0	239.7	71.1	128.1	141.6	110.9	
13	178.5	234.6	246.5	231.2	128.1	436.9	578.0	243.1	110.9	107.0	79.7	241.4	
14	201.0	224.4	297.5	137.5	79.7	461.6	442.6	167.3	136.2	140.2	174.0	244.8	
15	204.0	221.0	294.1	251.6	83.0	423.6	556.0	217.6	138.9	140.2	183.0	255.0	
16	258.4	163.2	292.4	234.6	171.3	474.9	500.0	231.2	145.6	118.7	177.0	249.9	
17	270.3	224.4	292.4	164.6	153.8	492.0	429.3	219.3	151.1	207.4	204.0	248.2	
18	167.3	263.5	290.7	84.1	163.2	476.8	454.0	189.0	137.5	215.9	165.9	165.9	
19	214.2	285.6	292.4	130.8	165.9	412.2	425.5	167.3	87.4	130.8	107.0	130.8	
20	236.3	260.1	261.8	120.0	157.8	419.8	408.4	170.0	164.6	145.6	75.3	256.7	
21	253.3	251.6	315.0	161.9	156.5	406.5	370.8	122.7	151.1	149.7	122.7	266.9	
22	270.3	243.1	306.0	159.2	96.6	419.8	331.2	215.9	136.2	133.5	180.0	236.3	
23	244.8	128.1	290.7	174.0	164.6	450.2	287.3	231.2	144.3	77.5	190.5	226.1	
24	239.7	241.4	304.3	156.5	207.4	406.5	168.6	238.0	138.9	170.0	196.5	238.0	
25	152.4	241.4	278.8	87.4	256.7	347.4	148.3	214.2	87.4	181.5	196.5	212.5	
26	238.0	249.9	224.4	144.3	222.7	304.3	222.7	165.9	70.2	168.6	195.0	170.0	
27	275.4	260.1	107.0	125.4	265.2	546.0	215.9	189.0	90.7	184.5	138.9	229.5	
28	243.1	268.6	266.9	130.8	270.3	588.0	214.2	105.7	97.9	183.0	239.7	214.2	
29	196.5	231.2	289.0	160.5	171.3	528.0	215.9	231.2	74.2	157.8	241.4	236.3	
30	181.5	114.8	307.8	163.2	248.2	498.0	214.2	265.2	70.2	77.5		209.1	
31		251.6		142.9	433.1		164.6		68.4	156.5		201.0	
Total	6384.0	6912.3	8393.8	5605.2	5501.6	15744.2	12658.4	6157.9	3873.6	3890.8	4390.9	6611.9	86124.6 CMSDAY
Mean	212.8	223.0	279.8	180.8	177.5	524.8	408.3	205.3	125.0	125.5	151.4	213.3	235.3 CMS
Max	275.4	324.0	459.7	302.6	433.1	1071.8	688.0	265.2	246.5	215.9	241.4	266.9	1071.8 CMS
Min	114.8	95.3	107.0	84.1	79.7	304.3	148.3	105.7	68.4	44.1	71.1	110.9	44.1 CMS
Runoff	551.58	597.22	725.22	484.29	475.34	1360.30	1093.69	532.04	334.68	336.17	379.37	571.27	7441.17 MCM

Momentary Peak 1081.00 CMS, at 8.30 M (A.D), at 9.00 Hours, on Sep 2, 1995
Runoff Yield 22.19 Liters/Second/Square KM, Momentary Peak Yield 101.952 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

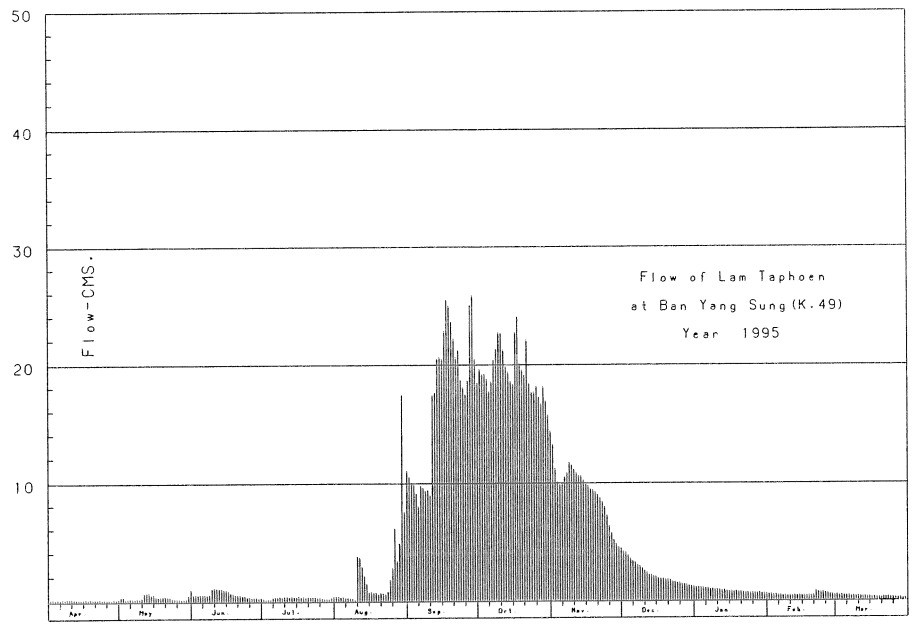
Lam Taphoen at Ban Yang Sung, Kanchanaburi (K.49)

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	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 36 discharge measurements made during 1994-1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	1.90	1.98	1.80	1.92	3.81	4.80	4.13	2.84	2.19	1.99	1.96	
2	1.80	1.88	1.98	1.79	1.91	3.74	4.76	3.89	2.82	2.18	1.98	1.95	
3	1.79	1.80	1.98	1.78	1.89	3.72	4.76	3.75	2.78	2.18	1.97	1.94	
4	1.79	1.80	1.99	1.79	1.89	3.62	4.72	3.71	2.72	2.17	1.96	1.94	
5	1.80	1.83	1.99	1.88	1.87	3.46	4.61	3.73	2.68	2.17	1.95	1.94	
6	1.80	1.82	1.99	1.88	1.85	3.70	4.69	3.80	2.65	2.16	1.94	1.93	
7	1.80	1.82	1.99	1.89	1.85	3.68	4.88	3.85	2.62	2.14	1.93	1.90	
8	1.82	1.82	1.99	1.90	1.83	3.65	4.97	3.95	2.59	2.13	1.93	1.90	
9	1.82	1.82	2.18	1.90	1.79	3.65	5.10	3.93	2.56	2.13	1.92	1.90	
10	1.83	1.85	2.18	1.90	2.77	3.60	5.10	3.88	2.51	2.12	1.92	1.90	
11	1.81	2.05	2.17	1.90	2.74	4.57	4.96	3.84	2.49	2.11	1.92	1.90	
12	1.80	2.05	2.17	1.90	2.59	4.60	4.83	3.82	2.45	2.10	1.92	1.89	
13	1.80	2.06	2.16	1.90	2.44	4.89	4.78	3.81	2.44	2.10	1.92	1.88	
14	1.78	2.00	2.14	1.90	2.27	4.90	4.70	3.77	2.43	2.09	1.92	1.87	
15	1.80	2.00	2.13	1.90	2.07	4.89	4.67	3.73	2.41	2.08	1.92	1.87	
16	1.80	1.90	2.10	1.92	2.07	5.11	5.10	3.70	2.39	2.08	1.92	1.86	
17	1.80	1.89	2.05	1.90	2.06	5.36	5.23	3.67	2.38	2.07	1.93	1.85	
18	1.80	1.93	2.02	1.89	2.04	5.31	4.85	3.65	2.37	2.07	1.93	1.85	
19	1.80	1.93	2.00	1.89	2.01	5.19	4.80	3.64	2.36	2.06	1.94	1.84	
20	1.80	1.91	1.97	1.89	2.03	5.05	4.75	3.60	2.35	2.05	1.94	1.84	
21	1.80	1.91	1.96	1.90	2.02	4.90	5.04	3.56	2.34	2.04	2.07	1.86	
22	1.80	1.91	1.95	1.90	2.01	4.96	4.68	3.52	2.32	2.04	2.06	1.87	
23	1.79	1.83	1.93	1.88	2.09	4.71	4.60	3.46	2.30	2.03	2.05	1.86	
24	1.78	1.82	1.90	1.88	2.35	4.64	4.60	3.35	2.29	2.03	2.04	1.85	
25	1.78	1.81	1.89	1.86	2.56	4.58	4.65	3.23	2.28	2.03	2.03	1.84	
26	1.77	1.80	1.88	1.85	3.20	4.70	4.56	3.12	2.27	2.03	2.01	1.84	
27	1.78	1.80	1.87	1.82	2.69	5.32	4.50	3.02	2.26	2.03	2.00	1.83	
28	1.80	1.79	1.86	1.80	2.96	5.39	4.65	2.95	2.24	2.03	1.98	1.82	
29	1.80	1.83	1.85	1.80	4.58	4.89	4.52	2.91	2.23	2.02	1.96	1.81	
30	1.80	1.94	1.85	1.87	3.40	4.68	4.40	2.88	2.21	2.01		1.80	
31		2.14		1.90	3.87		4.25		2.20	2.00		1.80	
Mean	1.80	1.89	2.00	1.87	2.37	4.51	4.76	3.60	2.44	2.09	1.96	1.87	
Max	1.83	2.14	2.18	1.92	4.58	5.39	5.23	4.13	2.84	2.19	2.07	1.96	5.39
Min	1.77	1.79	1.85	1.78	1.79	3.46	4.25	2.88	2.20	2.00	1.92	1.80	1.77

Annual Max Momentary Gage Height 5.40 M (A.D), at 6.00 Hours, on Sep 28, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 1.08 M (A.D)
Left Bank Elevation 7.54 M (A.D)
Right Bank Elevation 7.87 M (A.D), Drainage Area 1372 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.40	0.56	0.20	0.44	10.58	19.60	13.27	4.22	1.17	0.58	0.52	
2	0.20	0.36	0.56	0.18	0.42	10.05	19.22	11.22	4.11	1.14	0.56	0.50	
3	0.18	0.20	0.56	0.16	0.38	9.90	19.22	10.13	3.90	1.14	0.54	0.48	
4	0.18	0.20	0.58	0.18	0.38	9.15	18.84	9.83	3.60	1.11	0.52	0.48	
5	0.20	0.26	0.58	0.36	0.34	8.02	17.79	9.98	3.40	1.11	0.50	0.48	
6	0.20	0.24	0.58	0.36	0.30	9.75	18.55	10.50	3.25	1.08	0.48	0.46	
7	0.20	0.24	0.58	0.38	0.30	9.60	20.44	10.90	3.10	1.02	0.46	0.40	
8	0.24	0.24	0.58	0.40	0.26	9.38	21.38	11.70	2.95	0.99	0.46	0.40	
9	0.24	0.24	1.14	0.40	0.18	9.38	22.75	11.54	2.80	0.99	0.44	0.40	
10	0.26	0.30	1.14	0.40	3.85	9.00	22.75	11.14	2.55	0.96	0.44	0.40	
11	0.22	0.75	1.11	0.40	3.70	17.42	21.28	10.82	2.45	0.93	0.44	0.40	
12	0.20	0.75	1.11	0.40	2.95	17.70	19.91	10.66	2.25	0.90	0.44	0.38	
13	0.20	0.78	1.08	0.40	2.20	20.54	19.41	10.58	2.20	0.90	0.44	0.36	
14	0.16	0.60	1.02	0.40	1.48	20.65	18.65	10.28	2.15	0.87	0.44	0.34	
15	0.20	0.60	0.99	0.40	0.81	20.54	18.36	9.98	2.05	0.84	0.44	0.34	
16	0.20	0.40	0.90	0.44	0.81	22.86	22.75	9.75	1.96	0.84	0.44	0.32	
17	0.20	0.38	0.75	0.40	0.78	25.56	24.13	9.53	1.92	0.81	0.46	0.30	
18	0.20	0.46	0.66	0.38	0.72	25.01	20.12	9.38	1.88	0.81	0.46	0.30	
19	0.20	0.46	0.60	0.38	0.63	23.70	19.60	9.30	1.84	0.78	0.48	0.28	
20	0.20	0.42	0.54	0.38	0.69	22.23	19.12	9.00	1.80	0.75	0.48	0.28	
21	0.20	0.42	0.52	0.40	0.66	20.65	22.12	8.72	1.76	0.72	0.81	0.32	
22	0.20	0.42	0.50	0.40	0.63	21.28	18.46	8.44	1.68	0.72	0.78	0.34	
23	0.18	0.26	0.46	0.36	0.87	18.74	17.70	8.02	1.60	0.69	0.75	0.32	
24	0.16	0.24	0.40	0.36	1.80	18.08	17.70	7.25	1.56	0.69	0.72	0.30	
25	0.16	0.22	0.38	0.32	2.80	17.51	18.18	6.41	1.52	0.69	0.69	0.28	
26	0.14	0.20	0.36	0.30	6.20	18.65	17.32	5.76	1.48	0.69	0.63	0.28	
27	0.16	0.20	0.34	0.24	3.45	25.12	16.75	5.21	1.44	0.69	0.60	0.26	
28	0.20	0.18	0.32	0.20	4.88	25.89	18.18	4.83	1.36	0.69	0.56	0.24	
29	0.20	0.26	0.30	0.20	17.51	20.54	16.94	4.61	1.32	0.66	0.52	0.22	
30	0.20	0.48	0.30	0.34	7.60	18.46	15.80	4.44	1.24	0.63		0.20	
31		1.02		0.40	11.06		14.38		1.20	0.60		0.20	
Total	5.88	12.18	19.50	10.52	79.08	515.94	597.40	273.18	70.54	26.61	15.56	10.78	1637.17 CMSDAY
Mean	0.20	0.39	0.65	0.34	2.55	17.20	19.27	9.11	2.28	0.86	0.54	0.35	4.47 CMS
Max	0.26	1.02	1.14	0.44	17.51	25.89	24.13	13.27	4.22	1.17	0.81	0.52	25.89 CMS
Min	0.14	0.18	0.30	0.16	0.18	8.02	14.38	4.44	1.20	0.60	0.44	0.20	0.14 CMS
Runoff	0.508	1.052	1.685	0.909	6.833	44.577	51.615	23.603	6.095	2.299	1.344	0.931	141.452 MCM

Momentary Peak 26.00 CMS, at 5.40 M (A.D), at 6.00 Hours, on Sep 28, 1995
Runoff Yield 3.26 Liters/Second/Square KM, Momentary Peak Yield 18.950 Liters/Second/Square KM

WATER YEAR 1995

MAE KLONG RIVER BASIN

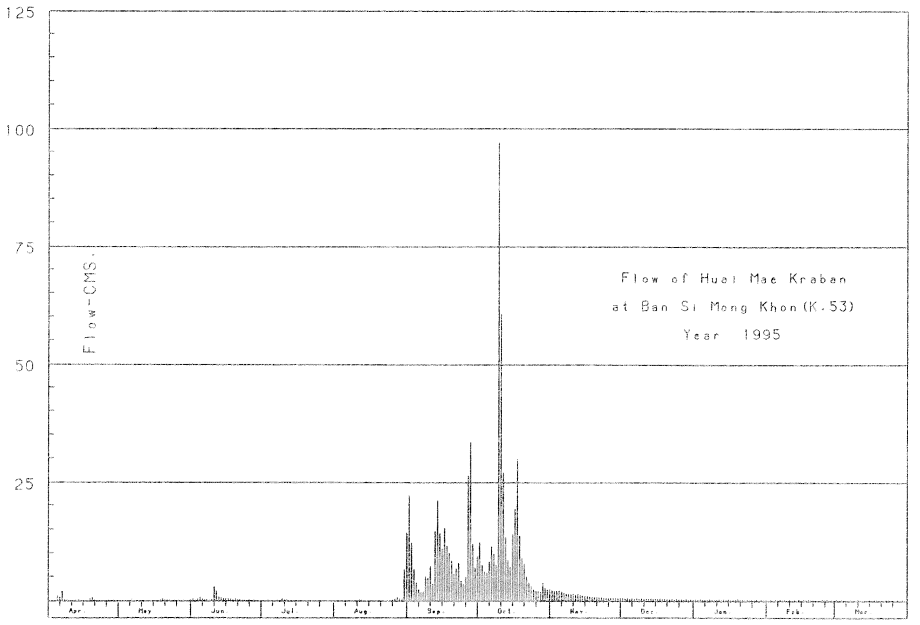
Huai Mae Kraban at Ban Si Mong Khon, Kanchanaburi (K.53)

Location	Lat. 14-01-39 N., Long. 99-13-31 E., on right bank at the bridge on road, Ban Nong Chik, Amphoe Sai Yok, Kanchanaburi.
Drainage Area	299 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	+6.300 m.(A.D.)
Gage Reading Frequency	16-time daily readings at 06.00 - 18.00, 21.00, 24.00 and 03.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 16 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	Overbank flow starts at elevation +3.01 m.(A.D.) and is included.
General Description	Records fair. Stage-discharge relation defined by 201 diacharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	0.57	0.78	0.63	0.60	2.72	2.17	1.19	0.82	0.72	0.69	0.67	
2	0.52	0.57	0.69	0.64	0.60	2.16	1.81	1.16	0.82	0.72	0.69	0.67	
3	0.59	0.56	0.75	0.64	0.60	1.73	1.67	1.17	0.82	0.72	0.69	0.67	
4	0.96	0.57	0.88	0.64	0.59	1.41	1.66	1.17	0.81	0.72	0.69	0.67	
5	0.91	0.58	0.78	0.63	0.59	1.22	1.85	1.15	0.81	0.72	0.68	0.67	
6	1.15	0.72	0.72	0.62	0.59	1.10	2.10	1.09	0.80	0.72	0.68	0.67	
7	0.70	0.62	0.68	0.64	0.59	1.14	1.99	1.07	0.80	0.71	0.68	0.67	
8	0.64	0.58	0.67	0.63	0.59	1.57	1.80	1.05	0.80	0.71	0.68	0.67	
9	0.62	0.60	0.69	0.86	0.59	1.54	5.13	1.06	0.79	0.71	0.68	0.67	
10	0.59	0.58	1.30	0.69	0.59	1.77	4.19	1.05	0.79	0.71	0.68	0.67	
11	0.58	0.58	1.15	0.65	0.72	1.37	2.96	1.04	0.79	0.71	0.68	0.67	
12	0.58	0.57	0.92	0.63	0.67	2.33	2.25	1.05	0.79	0.71	0.68	0.67	
13	0.71	0.57	0.84	0.62	0.62	2.67	1.87	1.03	0.79	0.71	0.68	0.67	
14	0.62	0.57	0.81	0.62	0.61	2.29	1.77	0.99	0.78	0.71	0.68	0.67	
15	0.59	0.57	0.78	0.64	0.60	2.06	2.28	0.99	0.78	0.71	0.68	0.66	
16	0.57	0.57	0.82	0.62	0.60	2.37	2.58	0.97	0.78	0.71	0.68	0.66	
17	0.56	0.57	0.73	0.61	0.59	2.12	3.09	0.94	0.78	0.71	0.68	0.66	
18	0.74	0.61	0.71	0.61	0.59	1.99	2.27	0.92	0.77	0.71	0.68	0.66	
19	0.89	0.79	0.76	0.61	0.59	1.88	1.91	0.91	0.77	0.71	0.68	0.66	
20	0.67	0.71	0.71	0.61	0.59	1.63	1.83	0.89	0.76	0.71	0.68	0.66	
21	0.62	0.66	0.69	0.61	0.60	1.73	1.57	0.88	0.75	0.71	0.68	0.66	
22	0.60	0.63	0.68	0.61	0.60	1.84	1.43	0.87	0.75	0.70	0.67	0.66	
23	0.59	0.61	0.66	0.60	0.59	1.45	1.30	0.86	0.74	0.70	0.67	0.66	
24	0.58	0.59	0.65	0.59	0.61	1.38	1.22	0.85	0.74	0.69	0.67	0.66	
25	0.57	0.58	0.70	0.59	0.71	1.58	1.17	0.84	0.74	0.69	0.67	0.67	
26	0.56	0.58	0.66	0.59	0.77	2.93	1.14	0.84	0.73	0.69	0.67	0.67	
27	0.56	0.62	0.64	0.59	0.89	3.25	1.14	0.83	0.73	0.69	0.67	0.66	
28	0.76	0.63	0.63	0.59	0.78	2.15	1.41	0.83	0.73	0.69	0.67	0.66	
29	0.61	0.62	0.63	0.59	0.80	1.75	1.25	0.83	0.73	0.69	0.67	0.66	
30	0.58	0.61	0.62	0.59	1.71	1.95	1.21	0.83	0.72	0.69		0.66	
31		0.69		0.60	2.31		1.21		0.72	0.69		0.66	
Mean	0.66	0.61	0.76	0.63	0.73	1.90	1.98	0.98	0.77	0.71	0.68	0.67	
Max	1.15	0.79	1.30	0.86	2.31	3.25	5.13	1.19	0.82	0.72	0.69	0.67	5.13
Min	0.52	0.56	0.62	0.59	0.59	1.10	1.14	0.83	0.72	0.69	0.67	0.66	0.52

Annual Max Momentary Gage Height 6.06 M (A.D), at 10.00 Hours, on Oct 9, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.40 M (A.D)
Left Bank Elevation 3.00 M (A.D)
Right Bank Elevation 3.65 M (A.D), Drainage Area 299 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.17	0.56	0.26	0.20	22.40	12.41	2.34	0.66	0.44	0.38	0.34	
2	0.12	0.17	0.36	0.28	0.20	12.28	7.73	2.16	0.66	0.44	0.38	0.34	
3	0.19	0.16	0.50	0.28	0.20	6.83	6.17	2.22	0.66	0.44	0.38	0.34	
4	1.08	0.17	0.84	0.28	0.19	3.88	5.06	2.22	0.63	0.44	0.38	0.34	
5	0.93	0.18	0.56	0.26	0.19	2.54	8.25	2.10	0.63	0.44	0.36	0.34	
6	2.10	0.44	0.44	0.24	0.19	1.80	11.50	1.74	0.60	0.44	0.36	0.34	
7	0.40	0.24	0.36	0.28	0.19	2.04	10.07	1.62	0.60	0.42	0.36	0.34	
8	0.28	0.18	0.34	0.26	0.19	5.16	7.60	1.50	0.60	0.42	0.36	0.34	
9	0.24	0.20	0.38	0.78	0.19	4.92	97.20	1.56	0.58	0.42	0.36	0.34	
10	0.19	0.18	3.10	0.38	0.19	7.27	60.86	1.50	0.58	0.42	0.36	0.34	
11	0.18	0.18	2.10	0.30	0.44	3.59	27.20	1.44	0.58	0.42	0.36	0.34	
12	0.18	0.17	0.96	0.26	0.34	14.88	13.60	1.50	0.58	0.42	0.36	0.34	
13	0.42	0.17	0.72	0.24	0.24	21.40	8.51	1.38	0.58	0.42	0.36	0.34	
14	0.24	0.17	0.63	0.24	0.22	14.24	7.27	1.17	0.56	0.42	0.36	0.34	
15	0.19	0.17	0.56	0.28	0.20	10.98	14.08	1.17	0.56	0.42	0.36	0.32	
16	0.17	0.17	0.66	0.24	0.20	15.52	19.60	1.11	0.56	0.42	0.36	0.32	
17	0.16	0.17	0.46	0.22	0.19	11.76	29.98	1.02	0.56	0.42	0.36	0.32	
18	0.48	0.22	0.42	0.22	0.19	10.07	13.92	0.96	0.54	0.42	0.36	0.32	
19	0.87	0.58	0.52	0.22	0.19	8.64	9.03	0.93	0.54	0.42	0.36	0.32	
20	0.34	0.42	0.42	0.22	0.19	5.73	7.99	0.87	0.52	0.42	0.36	0.32	
21	0.24	0.32	0.38	0.22	0.20	6.83	5.16	0.84	0.50	0.42	0.36	0.32	
22	0.20	0.26	0.36	0.22	0.20	8.12	4.04	0.81	0.50	0.40	0.34	0.32	
23	0.19	0.22	0.32	0.20	0.19	4.20	3.10	0.78	0.48	0.40	0.34	0.32	
24	0.18	0.19	0.30	0.19	0.22	3.66	2.54	0.75	0.48	0.38	0.34	0.32	
25	0.17	0.18	0.40	0.19	0.42	5.24	2.22	0.72	0.48	0.38	0.34	0.34	
26	0.16	0.18	0.32	0.19	0.54	26.60	2.04	0.72	0.46	0.38	0.34	0.34	
27	0.16	0.24	0.28	0.19	0.87	33.60	2.04	0.69	0.46	0.38	0.34	0.32	
28	0.52	0.26	0.26	0.19	0.56	12.15	3.88	0.69	0.46	0.38	0.34	0.32	
29	0.22	0.24	0.26	0.19	0.60	7.05	2.75	0.69	0.46	0.38	0.34	0.32	
30	0.18	0.22	0.24	0.19	6.61	9.55	2.47	0.69	0.44	0.38		0.32	
31		0.38		0.20	14.56		2.47		0.44	0.38		0.32	
Total	11.10	7.20	18.03	7.91	29.30	302.93	411.74	37.89	16.94	12.78	10.36	10.24	876.42 CMSDAY
Mean	0.37	0.23	0.60	0.26	0.95	10.10	13.28	1.26	0.55	0.41	0.36	0.33	2.39 CMS
Max	2.10	0.58	3.10	0.78	14.56	33.60	97.20	2.34	0.66	0.44	0.38	0.34	97.20 CMS
Min	0.12	0.16	0.24	0.19	0.19	1.80	2.04	0.69	0.44	0.38	0.34	0.32	0.12 CMS
Runoff	0.959	0.622	1.558	0.683	2.532	26.173	35.574	3.274	1.464	1.104	0.895	0.885	75.723 MCM

Momentary Peak 139.00 CMS, at 6.06 M (A.D), at 10.00 Hours, on Oct 9, 1995
Runoff Yield 8.01 Liters/Second/Square KM, Momentary Peak Yield 464.883 Liters/Second/Square KM

WATER YEAR 1995

PHETCHABURI RIVER BASIN

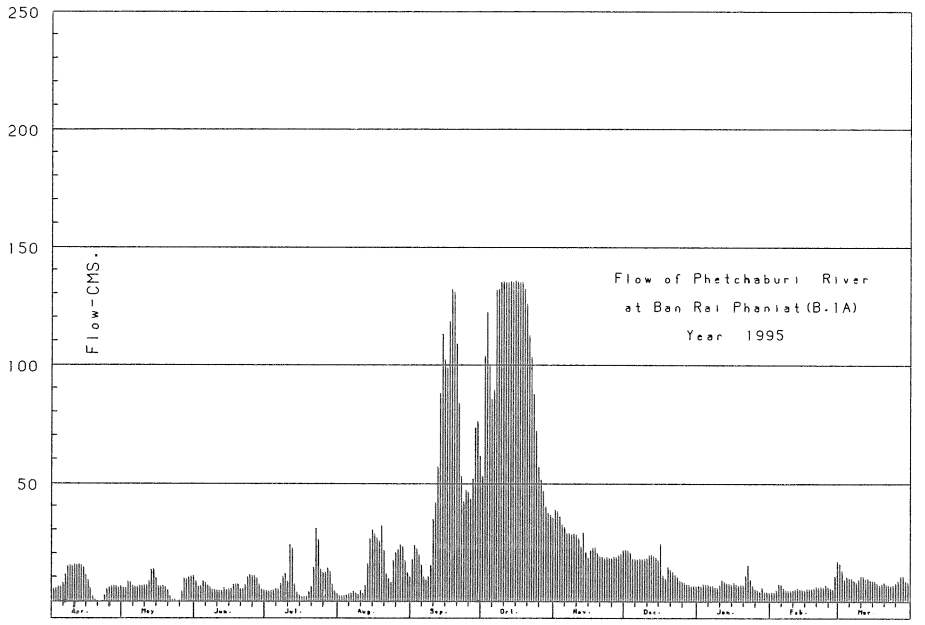
Phetchaburi River at Ban Rai Phaniat, Phetchaburi (B.1A)

Location	Lat. 13-04-22 N., Long. 99-56-37 E., on left bank, next to Muang Thamon Regulator, Ban Rai Phaniat, Amphoe Muang, Phetchaburi.
Drainage Area	4,188 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	-0.060 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank along the gage line.
Elevation	+4.667 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1961 to date.
Rating Operation	
Period of Rating	1965, 1967 - 1971, 1990 to date.
Rated by Float	-
Rated by Current Meter	1965, 1967 - 1971, 1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.81 m.(M.S.L.) and is included.
General Description	Records fair. Flow regulated by Kaeng Krachan Reservoir and Phet Diversion Dam. Stage-discharge relation defined by 48 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.99	1.01	1.14	0.95	0.84	1.53	2.77	2.29	1.69	1.05	0.92	1.47	
2	1.01	1.02	1.05	0.95	0.85	1.76	4.28	2.29	1.69	1.05	0.92	1.34	
3	1.03	1.13	1.05	0.95	0.84	1.71	4.82	2.20	1.64	1.08	0.96	1.18	
4	1.04	1.13	1.15	0.97	0.87	1.62	4.19	2.10	1.55	1.09	1.09	1.22	
5	1.10	1.05	1.11	0.99	0.88	1.44	3.77	2.05	1.54	1.07	1.07	1.21	
6	1.28	1.04	1.07	0.99	0.91	1.22	3.87	1.97	1.54	1.06	1.01	1.19	
7	1.43	1.04	1.02	1.09	0.93	1.17	5.08	1.96	1.54	1.05	0.97	1.16	
8	1.44	1.05	0.99	1.23	0.91	1.23	5.08	1.95	1.54	1.03	0.96	1.11	
9	1.44	1.06	0.97	1.29	0.87	1.44	5.16	1.95	1.54	1.01	0.95	1.18	
10	1.45	1.06	0.97	1.14	0.95	2.16	5.16	1.95	1.56	1.07	0.97	1.25	
11	1.45	1.07	0.95	1.78	0.90	2.41	5.16	1.88	1.60	1.17	0.99	1.23	
12	1.45	1.14	0.96	1.71	1.06	2.90	5.16	1.74	1.61	1.13	1.00	1.19	
13	1.45	1.37	1.01	1.09	1.46	3.84	5.16	1.98	1.60	1.11	0.99	1.19	
14	1.40	1.37	0.98	0.91	1.88	4.55	5.16	1.65	1.56	1.09	0.97	1.17	
15	1.27	1.21	0.98	0.85	2.01	4.24	5.17	1.57	1.53	1.08	0.97	1.14	
16	1.16	1.04	1.01	0.83	1.95	4.15	5.16	1.69	1.80	1.11	0.99	1.14	
17	1.01	1.05	1.07	0.82	1.89	4.71	5.16	1.72	1.25	1.08	1.00	1.11	
18	0.83	1.05	1.09	0.84	1.83	5.08	5.15	1.74	1.19	1.06	0.99	1.06	
19	0.77	1.04	1.08	0.92	2.08	5.06	5.09	1.64	1.41	1.06	1.01	1.10	
20	0.72	0.96	1.00	1.04	1.68	4.43	4.91	1.59	1.37	1.07	1.03	1.11	
21	0.68	0.85	0.99	1.40	1.29	3.71	4.53	1.57	1.32	1.24	1.03	1.09	
22	0.71	0.76	1.08	2.04	1.20	2.78	4.28	1.56	1.27	1.45	1.03	1.06	
23	0.86	0.76	1.22	1.85	1.11	2.41	3.83	1.57	1.22	1.18	1.03	1.06	
24	0.98	0.72	1.27	1.38	1.52	2.57	3.37	1.56	1.16	1.05	1.06	1.06	
25	1.03	0.75	1.25	1.31	1.65	2.56	2.91	1.56	1.14	1.00	1.04	1.11	
26	1.04	0.95	1.24	1.31	1.69	2.46	2.72	1.58	1.11	0.96	1.00	1.14	
27	1.06	1.19	1.21	1.40	1.78	2.73	2.57	1.58	1.09	0.94	0.99	1.24	
28	1.05	1.19	1.08	1.32	1.74	3.42	2.34	1.60	1.07	1.01	1.23	1.24	
29	1.03	1.21	0.99	1.09	1.52	3.49	2.26	1.63	1.05	0.93	1.50	1.15	
30	1.04	1.24	0.96	0.94	1.30	3.06	2.22	1.68	1.04	0.92		1.11	
31		1.24		0.90	1.23		2.19		1.05	0.92		1.08	
Mean	1.11	1.06	1.06	1.17	1.34	2.86	4.15	1.79	1.40	1.07	1.02	1.16	
Max	1.45	1.37	1.27	2.04	2.08	5.08	5.17	2.29	1.80	1.45	1.50	1.47	5.17
Min	0.68	0.72	0.95	0.82	0.84	1.17	2.19	1.56	1.04	0.92	0.92	1.06	0.68

Annual Max Momentary Gage Height 5.17 M (MSL), at 15.00 Hours, on Oct 10, 1995
Zero Gage at Bottom Elevation -0.06 M (MSL), River Bed -0.99 M (MSL)
Left Bank Elevation 5.00 M (MSL)
Right Bank Elevation 4.80 M (MSL), Drainage Area 4188 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.40	5.82	8.68	4.60	2.40	17.78	53.10	38.70	21.94	6.70	4.00	16.22	
2	5.82	6.04	6.70	4.60	2.60	23.76	103.80	38.70	21.94	6.70	4.00	13.08	
3	6.26	8.46	6.70	4.60	2.40	22.46	122.70	36.00	20.64	7.36	4.80	9.56	
4	6.48	8.46	8.90	5.00	3.00	20.12	100.65	33.00	18.30	7.58	7.58	10.44	
5	7.80	6.70	8.02	5.40	3.20	15.44	85.95	31.50	18.04	7.14	7.14	10.22	
6	11.76	6.48	7.14	5.40	3.80	10.44	89.45	29.22	18.04	6.92	5.82	9.78	
7	15.18	6.48	6.04	7.58	4.20	9.34	132.20	28.96	18.04	6.70	5.00	9.12	
8	15.44	6.70	5.40	10.66	3.80	10.66	132.20	28.70	18.04	6.26	4.80	8.02	
9	15.44	6.92	5.00	11.98	3.00	15.44	135.40	28.70	18.04	5.82	4.60	9.56	
10	15.70	6.92	5.00	8.68	4.60	34.80	135.40	28.70	18.56	7.14	5.00	11.10	
11	15.70	7.14	4.60	24.28	3.60	42.30	135.40	26.88	19.60	9.34	5.40	10.66	
12	15.70	8.68	4.80	22.46	6.92	57.00	135.40	23.24	19.86	8.46	5.60	9.78	
13	15.70	13.74	5.82	7.58	15.96	88.40	135.40	29.48	19.60	8.02	5.40	9.78	
14	14.40	13.74	5.20	3.80	26.88	113.25	135.40	20.90	18.56	7.58	5.00	9.34	
15	11.54	10.22	5.20	2.60	30.30	102.40	135.80	18.82	17.78	7.36	5.00	8.68	
16	9.12	6.48	5.82	2.20	28.70	99.25	135.40	21.94	24.80	8.02	5.40	8.68	
17	5.82	6.70	7.14	2.00	27.14	118.85	135.40	22.72	11.10	7.36	5.60	8.02	
18	2.20	6.70	7.58	2.40	25.58	132.20	135.00	23.24	9.78	6.92	5.40	6.92	
19	1.12	6.48	7.36	4.00	32.40	131.40	132.60	20.64	14.66	6.92	5.82	7.80	
20	0.32	4.80	5.60	6.48	21.68	109.05	125.85	19.34	13.74	7.14	6.26	8.02	
21	0.00	2.60	5.40	14.40	11.98	83.85	112.55	18.82	12.64	10.88	6.26	7.58	
22	0.16	0.96	7.36	31.20	10.00	53.40	103.80	18.56	11.54	15.70	6.26	6.92	
23	2.80	0.96	10.44	26.10	8.02	42.30	88.05	18.82	10.44	9.56	6.26	6.92	
24	5.20	0.32	11.54	13.96	17.52	47.10	72.18	18.56	9.12	6.70	6.92	6.92	
25	6.26	0.80	11.10	12.42	20.90	46.80	57.30	18.56	8.68	5.60	6.48	8.02	
26	6.48	4.60	10.88	12.42	21.94	43.80	51.60	19.08	8.02	4.80	5.60	8.68	
27	6.92	9.78	10.22	14.40	24.28	51.90	47.10	19.08	7.58	4.40	5.40	10.88	
28	6.70	9.78	7.36	12.64	23.24	73.88	40.20	19.60	7.14	5.82	10.66	10.88	
29	6.26	10.22	5.40	7.58	17.52	76.26	37.80	20.38	6.70	4.20	17.00	8.90	
30	6.48	10.88	4.80	4.40	12.20	61.92	36.60	21.68	6.48	4.00		8.02	
31		10.88		3.60	10.66		35.70		6.70	4.00		7.36	
Total	244.16	215.44	211.20	299.42	430.42	1755.55	3115.38	742.52	456.10	221.10	178.46	285.86	8155.61 CMSDAY
Mean	8.14	6.95	7.04	9.66	13.88	58.52	100.50	24.75	14.71	7.13	6.15	9.22	22.28 CMS
Max	15.70	13.74	11.54	31.20	32.40	132.20	135.80	38.70	24.80	15.70	17.00	16.22	135.80 CMS
Min	0.00	0.32	4.60	2.00	2.40	9.34	35.70	18.56	6.48	4.00	4.00	6.92	0.00 CMS
Runoff	21.095	18.614	18.248	25.870	37.188	151.680	269.169	64.154	39.407	19.103	15.419	24.698	704.645 MCM

Momentary Peak 135.80 CMS, at 5.17 M (MSL), at 15.00 Hours, on Oct 10, 1995
Runoff Yield 5.32 Liters/Second/Square KM, Momentary Peak Yield 32.426 Liters/Second/Square KM

WATER YEAR 1995

PHETCHABURI RIVER BASIN

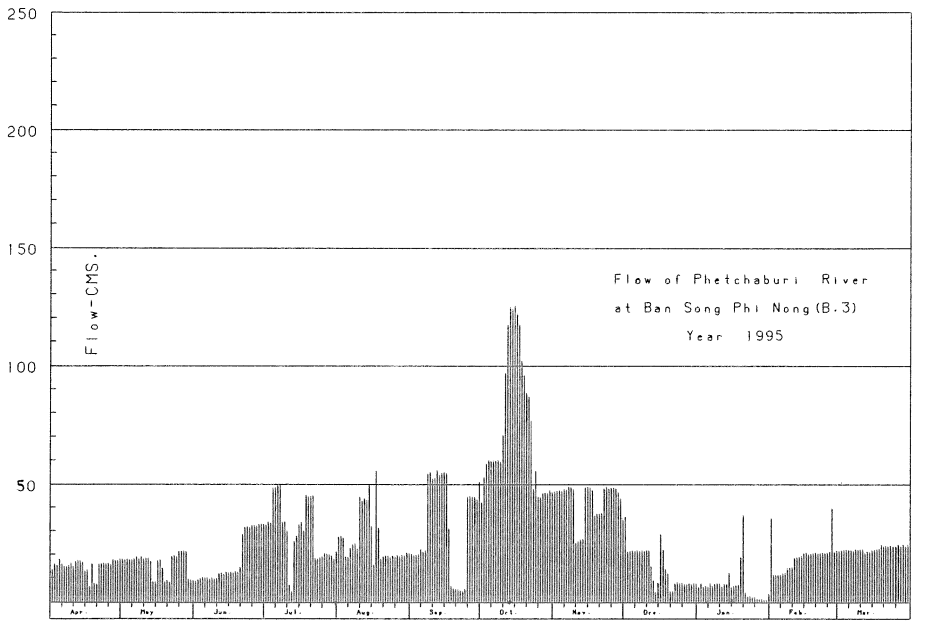
Phetchaburi River at Ban Song Phi Nong, Phetchaburi (B.3)

Location	Lat. 12°-52'-04" N., Long. 99°-40'-40" E., on left bank at Ban Song Phi Nong, Amphoe 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	No overbank flow.
General Description	Records fair. Flow regulated by Kaeng Krachan Reservoir. Stage-discharge relation defined by 36 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.23	42.35	42.07	42.66	42.56	42.41	42.85	42.94	42.73	41.98	42.72	42.44	
2	42.29	42.35	42.08	42.68	42.56	42.40	43.05	42.95	42.43	42.03	42.15	42.44	
3	42.28	42.35	42.11	42.68	42.55	42.40	43.15	42.95	42.44	41.99	42.16	42.45	
4	42.35	42.35	42.12	42.97	42.38	42.41	43.17	42.95	42.44	41.99	42.15	42.45	
5	42.30	42.35	42.12	42.98	42.38	42.45	43.17	42.96	42.44	41.99	42.16	42.45	
6	42.26	42.35	42.11	42.99	42.46	42.43	43.17	42.96	42.44	42.04	42.17	42.44	
7	42.27	42.39	42.10	43.00	42.50	42.44	43.17	42.98	42.44	41.99	42.19	42.44	
8	42.27	42.35	42.11	42.68	42.50	43.08	43.17	42.98	42.44	42.03	42.24	42.45	
9	42.31	42.39	42.10	42.69	42.46	43.09	43.16	42.96	42.44	42.03	42.25	42.45	
10	42.26	42.35	42.10	42.61	42.90	43.04	43.34	42.50	42.44	42.03	42.25	42.45	
11	42.32	42.36	42.18	42.01	42.86	43.05	43.69	42.52	42.44	41.99	42.37	42.45	
12	42.34	42.37	42.18	41.88	42.88	43.10	43.93	42.53	42.27	42.02	42.37	42.42	
13	42.33	42.33	42.17	42.52	42.87	43.07	44.01	42.54	42.08	42.03	42.39	42.43	
14	42.32	42.06	42.19	42.56	43.00	43.08	44.00	42.98	41.86	42.18	42.39	42.43	
15	42.21	42.05	42.19	42.66	42.65	43.09	44.02	42.98	42.04	41.97	42.42	42.44	
16	42.22	42.33	42.19	42.68	42.28	43.08	43.98	42.98	42.58	41.99	42.42	42.45	
17	41.99	42.35	42.19	42.61	43.10	42.63	43.93	42.95	42.45	42.01	42.41	42.45	
18	42.30	42.24	42.20	42.91	42.63	42.00	43.75	42.74	42.23	42.01	42.41	42.46	
19	42.03	42.06	42.20	42.90	42.36	41.94	43.68	42.75	42.18	42.38	42.42	42.49	
20	42.03	42.07	42.25	42.90	42.38	41.94	43.58	42.75	41.88	42.74	42.42	42.48	
21	42.29	42.05	42.58	42.91	42.40	41.92	43.56	42.76	41.89	41.87	42.42	42.48	
22	42.30	42.39	42.64	42.36	42.39	41.90	43.43	42.97	42.03	41.77	42.42	42.48	
23	42.30	42.39	42.64	42.36	42.38	41.88	42.96	42.98	42.05	41.77	42.42	42.48	
24	42.30	42.39	42.64	42.37	42.39	41.93	43.10	42.97	42.04	41.75	42.42	42.48	
25	42.30	42.43	42.65	42.39	42.39	42.90	42.90	42.97	42.04	41.74	42.42	42.48	
26	42.29	42.44	42.65	42.42	42.40	42.90	42.89	42.97	42.03	41.71	42.43	42.49	
27	42.35	42.44	42.65	42.41	42.39	42.90	42.93	42.97	42.03	41.70	42.80	42.48	
28	42.33	42.43	42.66	42.41	42.40	42.89	42.93	42.94	42.03	41.69	42.43	42.49	
29	42.34	42.10	42.67	42.39	42.40	42.87	42.93	42.88	42.03	41.67	42.44	42.48	
30	42.35	42.08	42.66	42.36	42.42	43.02	42.95	42.70	42.03	41.66		42.49	
31		42.07		42.43	42.42		42.94		42.03	41.83		42.49	
Mean	42.27	42.29	42.31	42.59	42.54	42.61	43.34	42.87	42.22	41.95	42.37	42.46	
Max	42.35	42.44	42.67	43.00	43.10	43.10	44.02	42.98	42.73	42.74	42.80	42.49	44.02
Min	41.99	42.05	42.07	41.88	42.28	41.88	42.85	42.50	41.86	41.66	42.15	42.42	41.66

Annual Max Momentary Gage Height 44.04 M (MSL), at 18.00 Hours, on Oct 11, 1995
Zero Gage at Bottom Elevation 41.00 M (MSL), River Bed 40.18 M (MSL)
Left Bank Elevation 47.50 M (MSL)
Right Bank Elevation 47.50 M (MSL), Drainage Area 2244 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.05	18.25	9.10	33.00	28.00	20.50	42.50	47.00	36.50	6.60	36.00	22.00	
2	16.15	18.25	9.40	34.00	28.00	20.00	53.00	47.50	21.50	7.90	11.50	22.00	
3	15.80	18.25	10.30	34.00	27.50	20.00	59.00	47.50	22.00	6.80	11.80	22.50	
4	18.25	18.25	10.60	48.50	19.30	20.50	60.20	47.50	22.00	6.80	11.50	22.50	
5	16.50	18.25	10.60	49.00	19.30	22.50	60.20	48.00	22.00	6.80	11.80	22.50	
6	15.10	18.25	10.30	49.50	23.00	21.50	60.20	48.00	22.00	8.20	12.10	22.00	
7	15.45	19.65	10.00	50.00	25.00	22.00	60.20	49.00	22.00	6.80	12.70	22.00	
8	15.45	18.25	10.30	34.00	25.00	54.80	60.20	49.00	22.00	7.90	14.40	22.50	
9	16.85	19.65	10.00	34.50	23.00	55.40	59.60	48.00	22.00	7.90	14.75	22.50	
10	15.10	18.25	10.00	30.50	45.00	52.40	71.10	25.00	22.00	7.90	14.75	22.50	
11	17.20	18.60	12.40	7.30	43.00	53.00	97.20	26.00	22.00	6.80	18.95	22.50	
12	17.90	18.95	12.40	4.60	44.00	56.00	117.70	26.50	15.45	7.60	18.95	21.00	
13	17.55	17.55	12.10	26.00	43.50	54.20	124.90	27.00	9.40	7.90	19.65	21.50	
14	17.20	8.80	12.70	28.00	50.00	54.80	124.00	49.00	4.20	12.40	19.65	21.50	
15	13.35	8.50	12.70	33.00	32.50	55.40	125.80	49.00	8.20	6.40	21.00	22.00	
16	13.70	17.55	12.70	34.00	15.80	54.80	122.20	49.00	29.00	6.80	21.00	22.50	
17	6.80	18.25	12.70	30.50	56.00	31.50	117.70	47.50	22.50	7.30	20.50	22.50	
18	16.50	14.40	13.00	45.50	31.50	7.00	102.00	37.00	14.05	7.30	20.50	23.00	
19	7.90	8.80	13.00	45.00	18.60	5.80	96.40	37.50	12.40	19.30	21.00	24.50	
20	7.90	9.10	14.75	45.00	19.30	5.80	88.50	37.50	4.60	37.00	21.00	24.00	
21	16.15	8.50	29.00	45.50	20.00	5.40	87.00	38.00	4.80	4.40	21.00	24.00	
22	16.50	19.65	32.00	18.60	19.65	5.00	77.25	48.50	7.90	2.55	21.00	24.00	
23	16.50	19.65	32.00	18.60	19.30	4.60	48.00	49.00	8.50	2.55	21.00	24.00	
24	16.50	19.65	32.00	18.95	19.65	5.60	56.00	48.50	8.20	2.25	21.00	24.00	
25	16.50	21.50	32.50	19.65	19.65	45.00	45.00	48.50	8.20	2.10	21.00	24.00	
26	16.15	22.00	32.50	21.00	20.00	45.00	44.50	48.50	7.90	1.65	21.50	24.50	
27	18.25	22.00	32.50	20.50	19.65	45.00	46.50	48.50	7.90	1.50	40.00	24.00	
28	17.55	21.50	33.00	20.50	20.00	44.50	46.50	47.00	7.90	1.35	21.50	24.50	
29	17.90	10.00	33.50	19.65	20.00	43.50	46.50	44.00	7.90	1.05	22.00	24.00	
30	18.25	9.40	33.00	18.60	21.00	51.20	47.50	35.00	7.90	0.90		24.50	
31		9.10		21.50	21.00		47.00		7.90	3.60		24.50	
Total	464.95	508.75	551.05	938.95	837.20	982.70	2294.35	1298.00	460.80	216.30	563.50	714.00	9830.55 CMSDAY
Mean	15.50	16.41	18.37	30.29	27.01	32.76	74.01	43.27	14.86	6.98	19.43	23.03	26.86 CMS
Max	18.25	22.00	33.50	50.00	56.00	56.00	125.80	49.00	36.50	37.00	40.00	24.50	125.80 CMS
Min	6.80	8.50	9.10	4.60	15.80	4.60	42.50	25.00	4.20	0.90	11.50	21.00	0.90 CMS
Runoff	40.172	43.956	47.611	81.125	72.334	84.905	198.232	112.147	39.813	18.688	48.686	61.690	849.359 MCM

Momentary Peak 127.60 CMS, at 44.04 M (MSL), at 18.00 Hours, on Oct 11, 1995
Runoff Yield 11.97 Liters/Second/Square KM, Momentary Peak Yield 56.863 Liters/Second/Square KM

WATER YEAR 1995

PHETCHABURI RIVER BASIN

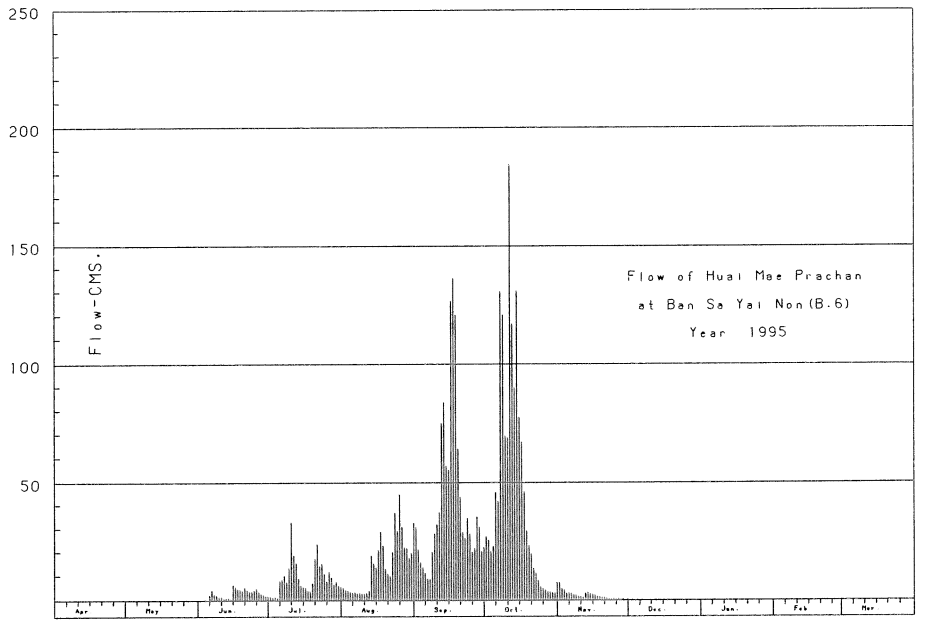
Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B.6)

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	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 49 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.80	21.80	21.80	22.41	22.73	23.57	23.47	22.85	22.26	22.10	21.98	21.87	
2	21.80	21.80	21.80	22.39	22.69	23.33	23.44	22.73	22.25	22.09	21.97	21.86	
3	21.80	21.80	21.80	22.38	22.66	23.17	23.30	22.68	22.25	22.09	21.97	21.86	
4	21.80	21.80	21.80	22.37	22.63	23.09	23.37	22.60	22.24	22.09	21.97	21.86	
5	21.80	21.80	22.52	22.89	22.62	23.02	23.91	22.61	22.23	22.08	21.97	21.86	
6	21.80	21.80	22.67	22.90	22.61	22.92	23.82	22.58	22.22	22.08	21.97	21.85	
7	21.80	21.80	22.55	22.98	22.59	22.92	25.27	22.54	22.21	22.08	21.96	21.85	
8	21.80	21.80	22.47	22.86	22.58	23.29	25.13	22.49	22.20	22.07	21.96	21.85	
9	21.80	21.80	22.42	23.08	22.58	23.51	24.36	22.45	22.19	22.07	21.96	21.85	
10	21.80	21.80	22.40	23.63	22.57	23.60	24.35	22.41	22.18	22.07	21.96	21.84	
11	21.80	21.80	22.37	23.26	22.57	23.72	25.98	22.40	22.18	22.06	21.95	21.84	
12	21.80	21.80	22.35	23.15	22.67	24.45	25.07	22.60	22.18	22.06	21.94	21.84	
13	21.80	21.80	22.33	22.93	23.26	24.60	24.69	22.61	22.18	22.05	21.94	21.84	
14	21.80	21.80	22.31	22.80	23.15	24.14	25.27	22.58	22.17	22.05	21.93	21.84	
15	21.80	21.80	22.82	22.77	23.10	24.11	24.49	22.54	22.17	22.05	21.93	21.83	
16	21.80	21.80	22.77	22.74	23.32	25.21	24.32	22.49	22.17	22.04	21.93	21.83	
17	21.80	21.80	22.72	22.67	23.53	25.35	23.91	22.45	22.16	22.03	21.92	21.83	
18	21.80	21.80	22.69	22.64	23.37	25.13	23.54	22.41	22.16	22.02	21.92	21.83	
19	21.80	21.80	22.67	22.85	23.08	24.27	23.37	22.39	22.13	22.02	21.91	21.83	
20	21.80	21.80	22.75	23.22	23.00	23.86	23.28	22.37	22.12	22.01	21.90	21.82	
21	21.80	21.80	22.69	23.39	22.97	23.52	23.08	22.34	22.12	22.01	21.90	21.81	
22	21.80	21.80	22.65	23.12	23.30	23.46	23.02	22.31	22.12	22.00	21.89	21.81	
23	21.80	21.80	22.63	23.14	23.71	23.66	22.89	22.29	22.12	22.00	21.88	21.79	
24	21.80	21.80	22.68	23.01	23.53	23.50	22.78	22.29	22.12	22.00	21.88	21.78	
25	21.80	21.80	22.72	22.87	23.89	23.30	22.72	22.29	22.11	22.00	21.88	21.78	
26	21.80	21.80	22.62	23.03	23.58	23.34	22.68	22.28	22.11	21.99	21.87	21.77	
27	21.80	21.80	22.58	22.95	23.35	23.68	22.64	22.28	22.11	21.99	21.87	21.77	
28	21.80	21.80	22.50	22.83	23.35	23.58	22.62	22.27	22.11	21.99	21.87	21.76	
29	21.80	21.80	22.46	22.86	23.22	23.31	22.61	22.27	22.11	21.99	21.87	21.75	
30	21.80	21.80	22.43	22.81	23.28	23.35	22.59	22.26	22.10	21.98		21.74	
31		21.80		22.76	23.62		22.86		22.10	21.98		21.73	
Mean	21.80	21.80	22.47	22.89	23.07	23.73	23.70	22.46	22.16	22.04	21.93	21.82	
Max	21.80	21.80	22.82	23.63	23.89	25.35	25.98	22.85	22.26	22.10	21.98	21.87	25.98
Min	21.80	21.80	21.80	22.37	22.57	22.92	22.59	22.26	22.10	21.98	21.87	21.73	21.73

Annual Max Momentary Gage Height 26.57 M (MSL), at 16.00 Hours, on Oct 11, 1995
Zero Gage at Bottom Elevation 22.71 M (MSL), River Bed 21.65 M (MSL)
Left Bank Elevation 29.16 M (MSL)
Right Bank Elevation 28.96 M (MSL), Drainage Area 1015 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	1.29	4.95	30.80	26.80	7.25	0.36	0.00	0.00	0.00	
2	0.00	0.00	0.00	1.14	4.35	21.55	25.60	4.95	0.30	0.00	0.00	0.00	
3	0.00	0.00	0.00	1.08	3.90	16.10	20.50	4.20	0.30	0.00	0.00	0.00	
4	0.00	0.00	0.00	1.02	3.45	13.70	22.95	3.00	0.24	0.00	0.00	0.00	
5	0.00	0.00	2.28	8.25	3.30	11.60	45.95	3.15	0.18	0.00	0.00	0.00	
6	0.00	0.00	4.05	8.50	3.15	9.00	41.90	2.82	0.12	0.00	0.00	0.00	
7	0.00	0.00	2.55	10.50	2.91	9.00	130.90	2.46	0.06	0.00	0.00	0.00	
8	0.00	0.00	1.83	7.50	2.82	20.15	121.10	2.01	0.00	0.00	0.00	0.00	
9	0.00	0.00	1.38	13.40	2.82	28.40	69.60	1.65	0.00	0.00	0.00	0.00	
10	0.00	0.00	1.20	33.35	2.73	32.00	69.00	1.29	0.00	0.00	0.00	0.00	
11	0.00	0.00	1.02	19.10	2.73	37.40	184.40	1.20	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.90	15.50	4.05	75.00	116.90	3.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.78	9.25	19.10	84.00	90.30	3.15	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.66	6.00	15.50	57.00	130.90	2.82	0.00	0.00	0.00	0.00	
15	0.00	0.00	6.50	5.55	14.00	55.50	77.40	2.46	0.00	0.00	0.00	0.00	
16	0.00	0.00	5.55	5.10	21.20	126.70	67.20	2.01	0.00	0.00	0.00	0.00	
17	0.00	0.00	4.80	4.05	29.20	136.50	45.95	1.65	0.00	0.00	0.00	0.00	
18	0.00	0.00	4.35	3.60	22.95	121.10	29.60	1.29	0.00	0.00	0.00	0.00	
19	0.00	0.00	4.05	7.25	13.40	64.20	22.95	1.14	0.00	0.00	0.00	0.00	
20	0.00	0.00	5.25	17.70	11.00	43.70	19.80	1.02	0.00	0.00	0.00	0.00	
21	0.00	0.00	4.35	23.65	10.25	28.80	13.40	0.84	0.00	0.00	0.00	0.00	
22	0.00	0.00	3.75	14.60	20.50	26.40	11.60	0.66	0.00	0.00	0.00	0.00	
23	0.00	0.00	3.45	15.20	36.95	34.70	8.25	0.54	0.00	0.00	0.00	0.00	
24	0.00	0.00	4.20	11.30	29.20	28.00	5.70	0.54	0.00	0.00	0.00	0.00	
25	0.00	0.00	4.80	7.75	45.05	20.50	4.80	0.54	0.00	0.00	0.00	0.00	
26	0.00	0.00	3.30	11.90	31.20	21.90	4.20	0.48	0.00	0.00	0.00	0.00	
27	0.00	0.00	2.82	9.75	22.25	35.60	3.60	0.48	0.00	0.00	0.00	0.00	
28	0.00	0.00	2.10	6.75	22.25	31.20	3.30	0.42	0.00	0.00	0.00	0.00	
29	0.00	0.00	1.74	7.50	17.70	20.85	3.15	0.42	0.00	0.00	0.00	0.00	
30	0.00	0.00	1.47	6.25	19.80	22.25	2.91	0.36	0.00	0.00		0.00	
31		0.00		5.40	32.90		7.50		0.00	0.00		0.00	
Total	0.00	0.00	79.13	299.18	475.56	1263.60	1428.11	57.80	1.56	0.00	0.00	0.00	3604.94 CMSDAY
Mean	0.00	0.00	2.64	9.65	15.34	42.12	46.07	1.93	0.05	0.00	0.00	0.00	9.85 CMS
Max	0.00	0.00	6.50	33.35	45.05	136.50	184.40	7.25	0.36	0.00	0.00	0.00	184.40 CMS
Min	0.00	0.00	0.00	1.02	2.73	9.00	2.91	0.36	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	6.837	25.849	41.088	109.175	123.389	4.994	0.135	0.000	0.000	0.000	311.467 MCM

Momentary Peak 233.30 CMS, at 26.57 M (MSL), at 16.00 Hours, on Oct 11, 1995
Runoff Yield 9.70 Liters/Second/Square KM, Momentary Peak Yield 229.852 Liters/Second/Square KM

WATER YEAR 1995

PHETCHABURI RIVER BASIN

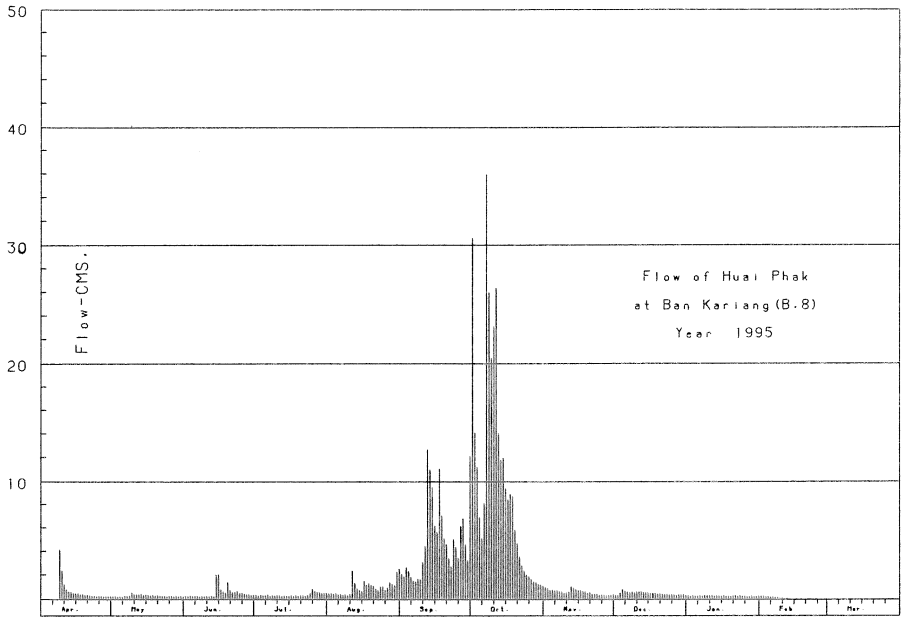
Huai Phak at Ban Kariang, Phetchaburi (B.8)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 62 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	1.56	1.56	1.61	1.68	2.06	4.46	1.85	1.63	1.59	1.59	1.30	
2	0.28	1.56	1.57	1.61	1.67	2.03	3.38	1.82	1.60	1.59	1.57	1.31	
3	0.25	1.54	1.58	1.61	1.67	2.19	3.11	1.79	1.71	1.59	1.56	1.34	
4	0.23	1.53	1.58	1.61	1.67	2.11	2.71	1.79	1.80	1.60	1.55	1.35	
5	0.25	1.55	1.58	1.62	1.65	2.02	2.50	1.78	1.77	1.60	1.54	1.37	
6	0.26	1.57	1.58	1.63	1.64	1.95	2.83	1.77	1.72	1.60	1.53	1.39	
7	0.48	1.58	1.56	1.60	1.63	1.94	4.78	1.75	1.72	1.60	1.52	1.37	
8	2.38	1.59	1.56	1.60	1.63	1.98	4.18	1.73	1.73	1.60	1.50	1.36	
9	2.12	1.71	1.57	1.60	1.62	1.98	3.83	1.70	1.72	1.61	1.48	1.37	
10	1.89	1.64	1.57	1.60	1.64	2.24	4.00	1.69	1.73	1.60	1.47	1.36	
11	1.81	1.65	1.57	1.59	2.13	2.41	4.20	1.74	1.73	1.60	1.46	1.34	
12	1.75	1.65	1.57	1.58	1.91	3.25	3.37	1.85	1.75	1.60	1.45	1.31	
13	1.72	1.65	1.58	1.58	1.83	3.09	3.17	1.83	1.72	1.59	1.43	1.29	
14	1.69	1.63	2.05	1.59	1.78	2.96	3.18	1.81	1.72	1.59	1.41	1.27	
15	1.67	1.62	2.07	1.59	1.76	2.63	2.95	1.79	1.69	1.59	1.40	1.25	
16	1.67	1.61	1.81	1.60	1.94	2.56	2.86	1.77	1.69	1.59	1.39	1.24	
17	1.65	1.61	1.73	1.59	1.89	3.10	2.90	1.75	1.69	1.58	1.38	1.22	
18	1.65	1.61	1.71	1.60	1.90	2.72	2.89	1.73	1.68	1.56	1.37	1.19	
19	1.63	1.60	1.92	1.60	1.89	2.50	2.59	1.70	1.67	1.57	1.37	1.16	
20	1.62	1.60	1.78	1.60	1.86	2.43	2.44	1.70	1.66	1.58	1.36	1.10	
21	1.60	1.60	1.73	1.59	1.81	2.28	2.30	1.67	1.67	1.59	1.35	1.05	
22	1.60	1.58	1.73	1.59	1.79	2.20	2.21	1.66	1.65	1.58	1.34	1.04	
23	1.57	1.57	1.75	1.61	1.86	2.49	2.12	1.65	1.64	1.60	1.32	1.02	
24	1.57	1.57	1.70	1.69	1.85	2.40	2.06	1.64	1.64	1.59	1.31	1.04	
25	1.56	1.57	1.69	1.81	1.80	2.29	2.02	1.61	1.63	1.56	1.32	0.99	
26	1.56	1.57	1.67	1.76	1.83	2.62	1.98	1.61	1.62	1.55	1.31	0.94	
27	1.56	1.57	1.65	1.73	1.93	2.70	1.94	1.61	1.62	1.56	1.31	0.93	
28	1.55	1.57	1.64	1.71	1.89	2.43	1.92	1.61	1.63	1.57	1.31	0.90	
29	1.57	1.57	1.63	1.69	1.88	2.26	1.90	1.63	1.64	1.56	1.30	0.84	
30	1.55	1.56	1.62	1.68	2.11	3.20	1.88	1.63	1.63	1.55		0.78	
31		1.56		1.68	2.15		1.86		1.62	1.57		0.76	
Mean	1.37	1.59	1.68	1.63	1.82	2.43	2.86	1.72	1.68	1.58	1.42	1.17	
Max	2.38	1.71	2.07	1.81	2.15	3.25	4.78	1.85	1.80	1.61	1.59	1.39	4.78
Min	0.23	1.53	1.56	1.58	1.62	1.94	1.86	1.61	1.60	1.55	1.30	0.76	0.23

Annual Max Momentary Gage Height 5.98 M (A.D), at 24.00 Hours, on Sep 30, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.20 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.24	0.24	0.33	0.50	2.10	30.62	1.05	0.37	0.29	0.29	0.00	
2	0.00	0.24	0.26	0.33	0.47	1.95	14.18	0.90	0.30	0.29	0.26	0.00	
3	0.00	0.21	0.27	0.33	0.47	2.75	11.21	0.78	0.58	0.29	0.24	0.00	
4	0.00	0.19	0.27	0.33	0.47	2.35	6.99	0.78	0.80	0.30	0.22	0.00	
5	0.00	0.22	0.27	0.35	0.42	1.90	5.20	0.75	0.73	0.30	0.21	0.00	
6	0.00	0.26	0.27	0.37	0.40	1.55	8.13	0.73	0.60	0.30	0.19	0.00	
7	0.00	0.27	0.24	0.30	0.37	1.50	36.06	0.68	0.60	0.30	0.18	0.00	
8	4.24	0.29	0.24	0.30	0.37	1.70	26.08	0.63	0.63	0.30	0.15	0.00	
9	2.40	0.58	0.26	0.30	0.35	1.70	20.48	0.55	0.60	0.33	0.12	0.00	
10	1.25	0.40	0.26	0.30	0.40	3.12	23.20	0.53	0.63	0.30	0.11	0.00	
11	0.85	0.42	0.26	0.29	2.45	4.48	26.40	0.65	0.63	0.30	0.09	0.00	
12	0.68	0.42	0.26	0.27	1.35	12.75	14.07	1.05	0.68	0.30	0.08	0.00	
13	0.60	0.42	0.27	0.27	0.95	10.99	11.87	0.95	0.60	0.29	0.04	0.00	
14	0.53	0.37	2.05	0.29	0.75	9.56	11.98	0.85	0.60	0.29	0.01	0.00	
15	0.47	0.35	2.15	0.29	0.70	6.27	9.45	0.78	0.53	0.29	0.00	0.00	
16	0.47	0.33	0.85	0.30	1.50	5.68	8.46	0.73	0.53	0.29	0.00	0.00	
17	0.42	0.33	0.63	0.29	1.25	11.10	8.90	0.68	0.53	0.27	0.00	0.00	
18	0.42	0.33	0.58	0.30	1.30	7.08	8.79	0.63	0.50	0.24	0.00	0.00	
19	0.37	0.30	1.40	0.30	1.25	5.20	5.92	0.55	0.47	0.26	0.00	0.00	
20	0.35	0.30	0.75	0.30	1.10	4.64	4.72	0.55	0.45	0.27	0.00	0.00	
21	0.30	0.30	0.63	0.29	0.85	3.44	3.60	0.47	0.47	0.29	0.00	0.00	
22	0.30	0.27	0.63	0.29	0.78	2.80	2.88	0.45	0.42	0.27	0.00	0.00	
23	0.26	0.26	0.68	0.33	1.10	5.12	2.40	0.42	0.40	0.30	0.00	0.00	
24	0.26	0.26	0.55	0.53	1.05	4.40	2.10	0.40	0.40	0.29	0.00	0.00	
25	0.24	0.26	0.53	0.85	0.80	3.52	1.90	0.33	0.37	0.24	0.00	0.00	
26	0.24	0.26	0.47	0.70	0.95	6.18	1.70	0.33	0.35	0.22	0.00	0.00	
27	0.24	0.26	0.42	0.63	1.45	6.90	1.50	0.33	0.35	0.24	0.00	0.00	
28	0.22	0.26	0.40	0.58	1.25	4.64	1.40	0.33	0.37	0.26	0.00	0.00	
29	0.26	0.26	0.37	0.53	1.20	3.28	1.30	0.37	0.40	0.24	0.00	0.00	
30	0.22	0.24	0.35	0.50	2.35	12.20	1.20	0.37	0.37	0.22		0.00	
31		0.24		0.50	2.55		1.10		0.35	0.26		0.00	
Total	15.59	9.34	16.81	11.87	31.15	150.85	313.79	18.60	15.61	8.63	2.19	0.00	594.43 CMSDAY
Mean	0.52	0.30	0.56	0.38	1.00	5.03	10.12	0.62	0.50	0.28	0.08	0.00	1.62 CMS
Max	4.24	0.58	2.15	0.85	2.55	12.75	36.06	1.05	0.80	0.33	0.29	0.00	36.06 CMS
Min	0.00	0.19	0.24	0.27	0.35	1.50	1.10	0.33	0.30	0.22	0.00	0.00	0.00 CMS
Runoff	1.347	0.807	1.452	1.026	2.691	13.033	27.111	1.607	1.349	0.746	0.189	0.000	51.359 MCM

Momentary Peak 62.50 CMS, at 5.98 M (A.D), at 24.00 Hours, on Sep 30, 1995
Runoff Yield 6.15 Liters/Second/Square KM, Momentary Peak Yield 236.742 Liters/Second/Square KM

WATER YEAR 1995

PHETCHABURI RIVER BASIN

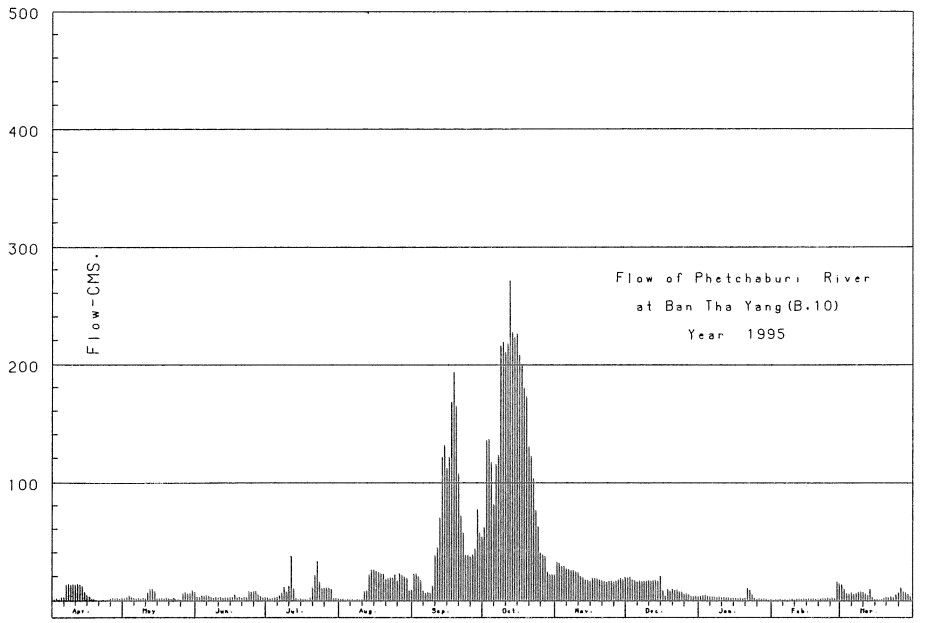
Phetchaburi River at Ban Tha Yang, Phetchaburi (B.10)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Phet Dam. Stage-discharge relation defined by 53 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	0.64	0.77	0.72	0.64	2.06	3.89	2.62	1.87	0.83	0.57	1.45	
2	0.64	0.78	0.79	0.69	0.62	2.06	6.10	2.55	1.88	0.90	0.58	1.25	
3	0.62	0.85	0.85	0.68	0.60	1.93	6.11	2.45	1.75	0.89	0.59	0.98	
4	0.72	0.79	0.86	0.77	0.60	1.69	5.65	2.42	1.69	0.87	0.60	0.98	
5	0.80	0.68	0.87	0.76	0.58	1.13	4.61	2.33	1.64	0.81	0.59	1.02	
6	1.46	0.67	0.86	0.88	0.57	0.98	5.59	2.27	1.67	0.83	0.58	0.97	
7	1.47	0.68	0.77	1.00	0.57	1.04	5.79	2.24	1.66	0.79	0.59	0.98	
8	1.45	0.66	0.75	1.29	0.60	0.99	7.64	2.23	1.64	0.80	0.64	1.07	
9	1.45	0.69	0.77	1.08	0.59	1.39	7.77	2.18	1.68	0.81	0.65	1.06	
10	1.45	0.68	0.77	1.40	0.62	2.89	7.54	2.11	1.68	0.79	0.63	1.07	
11	1.47	1.02	0.77	2.87	1.07	3.20	7.66	1.96	1.69	0.77	0.65	0.97	
12	1.47	1.16	0.73	1.22	1.14	4.23	8.49	1.84	1.69	0.77	0.64	0.90	
13	1.34	1.22	0.73	0.70	2.00	5.76	7.81	1.76	1.70	0.74	0.64	1.22	
14	1.07	1.06	0.75	0.63	2.27	5.99	7.75	1.71	1.68	0.72	0.65	0.76	
15	0.88	0.65	0.74	0.63	2.24	5.50	7.79	1.67	1.96	0.70	0.66	0.59	
16	0.83	0.68	0.80	0.62	2.20	5.74	7.51	1.83	1.12	0.69	0.66	0.59	
17	0.64	0.68	0.90	0.58	2.12	6.78	7.37	1.84	0.87	0.70	0.67	0.57	
18	0.59	0.68	0.78	0.60	2.07	7.26	7.02	1.79	1.20	0.70	0.65	0.60	
19	0.49	0.70	0.77	0.71	2.04	6.70	6.86	1.76	1.13	0.70	0.66	0.74	
20	0.48	0.66	0.75	1.30	1.77	5.38	5.98	1.68	1.19	0.70	0.66	0.77	
21	0.47	0.65	0.75	1.97	1.79	4.27	5.77	1.68	1.18	1.28	0.66	0.78	
22	0.48	0.62	0.79	2.65	1.87	3.73	5.27	1.58	1.16	1.15	0.67	0.79	
23	0.47	0.60	1.08	1.60	1.83	2.92	4.43	1.67	1.10	0.94	0.71	0.78	
24	0.48	0.58	1.08	1.27	2.04	2.87	3.94	1.65	1.06	0.73	0.72	0.90	
25	0.68	0.57	1.12	1.29	1.70	2.84	3.01	1.64	0.98	0.66	0.71	1.03	
26	0.66	1.00	1.09	1.26	2.08	2.90	2.90	1.65	0.97	0.65	0.71	1.26	
27	0.67	1.02	0.94	1.30	1.97	3.18	2.86	1.77	0.95	0.66	0.71	1.08	
28	0.66	0.98	0.83	1.18	1.92	4.45	2.14	1.80	0.84	0.65	1.65	1.00	
29	0.64	0.97	0.76	0.71	1.79	3.73	2.03	1.77	0.84	0.64	1.50	0.96	
30	0.66	1.16	0.75	0.66	1.14	3.56	2.01	1.86	0.84	0.58		0.79	
31		1.03		0.65	1.15		2.01		0.84	0.58		0.73	
Mean	0.86	0.80	0.83	1.09	1.43	3.57	5.53	1.94	1.36	0.78	0.71	0.92	
Max	1.47	1.22	1.12	2.87	2.27	7.26	8.49	2.62	1.96	1.28	1.65	1.45	8.49
Min	0.47	0.57	0.73	0.58	0.57	0.98	2.01	1.58	0.84	0.58	0.57	0.57	0.47

Annual Max Momentary Gage Height 8.52 M (A.D), at 9.00 Hours, on Oct 12, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.67 M (A.D)
Left Bank Elevation 8.65 M (A.D)
Right Bank Elevation 8.70 M (A.D), Drainage Area 4111 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	1.90	3.20	2.70	1.90	23.05	62.25	33.40	20.05	3.99	1.35	13.75	
2	1.90	3.30	3.40	2.40	1.70	23.05	136.50	32.00	20.20	5.12	1.40	10.75	
3	1.70	4.31	4.31	2.30	1.50	20.95	136.95	30.00	18.25	4.96	1.45	6.42	
4	2.70	3.40	4.48	3.20	1.50	17.35	118.00	29.40	17.35	4.64	1.50	6.42	
5	3.50	2.30	4.64	3.10	1.40	8.86	82.30	27.77	16.60	3.66	1.45	7.07	
6	13.90	2.20	4.48	4.80	1.35	6.42	115.65	26.72	17.05	3.99	1.40	6.26	
7	14.05	2.30	3.20	6.75	1.35	7.40	123.60	26.20	16.90	3.40	1.45	6.42	
8	13.75	2.10	3.00	11.35	1.50	6.59	216.60	26.02	16.60	3.50	1.90	7.89	
9	13.75	2.40	3.20	8.05	1.45	12.85	225.05	25.15	17.20	3.66	2.00	7.72	
10	13.75	2.30	3.20	13.00	1.70	38.80	210.40	23.92	17.20	3.40	1.80	7.89	
11	14.05	7.07	3.20	38.40	7.89	45.00	217.90	21.40	17.35	3.20	2.00	6.26	
12	14.05	9.35	2.80	10.30	9.02	70.90	271.85	19.60	17.35	3.20	1.90	5.12	
13	12.10	10.30	2.80	2.50	22.00	122.40	227.65	18.40	17.50	2.90	1.90	10.30	
14	7.89	7.72	3.00	1.80	26.72	131.60	223.75	17.65	17.20	2.70	2.00	3.10	
15	4.80	2.00	2.90	1.80	26.20	112.50	226.35	17.05	21.40	2.50	2.10	1.45	
16	3.99	2.30	3.50	1.70	25.50	121.60	208.60	19.45	8.70	2.40	2.10	1.45	
17	1.90	2.30	5.12	1.40	24.10	169.00	200.35	19.60	4.64	2.50	2.20	1.35	
18	1.45	2.30	3.30	1.50	23.22	194.30	181.10	18.85	10.00	2.50	2.00	1.50	
19	0.95	2.50	3.20	2.60	22.70	165.00	173.00	18.40	8.86	2.50	2.10	2.90	
20	0.90	2.10	3.00	11.50	18.55	108.30	131.20	17.20	9.84	2.50	2.10	3.20	
21	0.85	2.00	3.00	21.55	18.85	72.10	122.80	17.20	9.67	11.20	2.10	3.30	
22	0.90	1.70	3.40	34.00	20.05	58.25	104.45	15.70	9.35	9.19	2.20	3.40	
23	0.85	1.50	8.05	16.00	19.45	39.40	76.90	17.05	8.38	5.77	2.60	3.30	
24	0.90	1.40	8.05	11.05	22.70	38.40	63.50	16.75	7.72	2.80	2.70	5.12	
25	2.30	1.35	8.70	11.35	17.50	37.80	41.20	16.60	6.42	2.10	2.60	7.24	
26	2.10	6.75	8.21	10.90	23.40	39.00	39.00	16.75	6.26	2.00	2.60	10.90	
27	2.20	7.07	5.77	11.50	21.55	44.60	38.20	18.55	5.94	2.10	2.60	8.05	
28	2.10	6.42	3.99	9.67	20.80	77.50	24.45	19.00	4.15	2.00	16.75	6.75	
29	1.90	6.26	3.10	2.60	18.85	58.25	22.52	18.55	4.15	1.90	14.50	6.10	
30	2.10	9.35	3.00	2.10	9.02	54.00	22.17	19.90	4.15	1.40		3.40	
31		7.24		2.00	9.19		22.17		4.15	1.40		2.80	
Total	158.88	125.49	125.20	263.87	422.61	1925.22	4066.41	644.23	380.58	109.08	84.75	177.58	8483.90 CMSDAY
Mean	5.30	4.05	4.17	8.51	13.63	64.17	131.17	21.47	12.28	3.52	2.92	5.73	23.18 CMS
Max	14.05	10.30	8.70	38.40	26.72	194.30	271.85	33.40	21.40	11.20	16.75	13.75	271.85 CMS
Min	0.85	1.35	2.80	1.40	1.35	6.42	22.17	15.70	4.15	1.40	1.35	1.35	0.85 CMS
Runoff	13.727	10.842	10.817	22.798	36.514	166.339	351.338	55.661	32.882	9.425	7.322	15.343	733.009 MCM

Momentary Peak 273.80 CMS, at 8.52 M (A.D), at 9.00 Hours, on Oct 12, 1995
Runoff Yield 5.64 Liters/Second/Square KM, Momentary Peak Yield 66.602 Liters/Second/Square KM

WATER YEAR 1995

KHLONG KUI BASIN

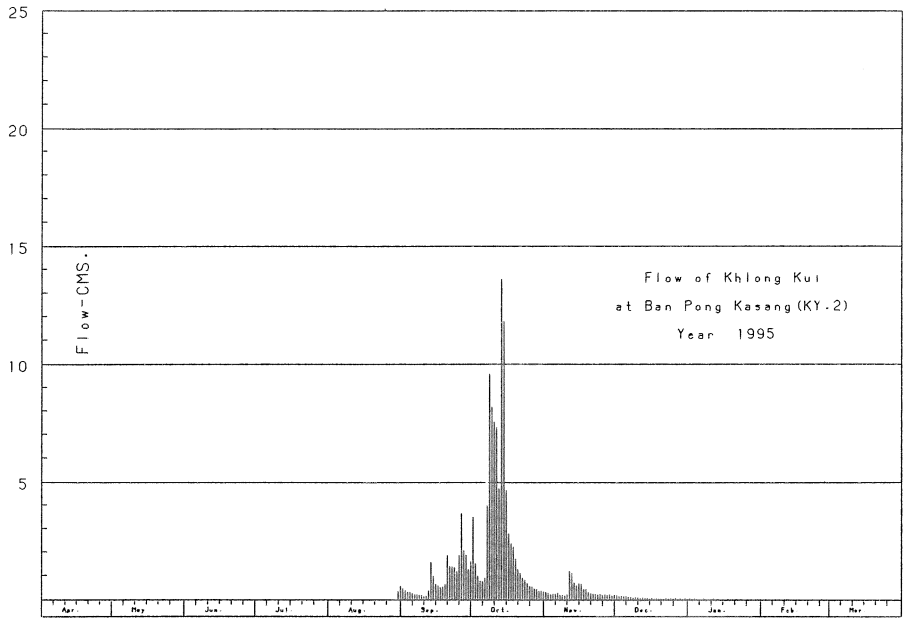
Khlong Kui at Ban Pong Kasang, Prachuap Khiri Khan (Ky.2)

Location	Lat. 12-06-55 N., Long. 99-44-20 E., on right bank at the culvert of the left irrigation canal of Yang Chum Project, Ban Pong Kasang, Amphoe Kui Buri, Prachuap Khiri Khan.
Drainage Area	92 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the measuring line.
Elevation	+8.405 m.(A.D.)
Gage Reading Frequency	16-time daily readings at 03.00 - 18.00, 21.00 and 24.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 16 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 64 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	0.66	0.59	0.46	0.46	0.95	1.52	0.90	0.84	0.73	0.69	0.69	
2	0.68	0.66	0.59	0.46	0.46	0.92	1.23	0.88	0.83	0.73	0.69	0.69	
3	0.68	0.66	0.58	0.46	0.46	0.90	1.11	0.86	0.83	0.73	0.69	0.69	
4	0.67	0.66	0.58	0.46	0.46	0.89	1.05	0.86	0.83	0.73	0.69	0.69	
5	0.67	0.66	0.58	0.46	0.46	0.88	1.05	0.87	0.83	0.72	0.69	0.69	
6	0.67	0.66	0.57	0.46	0.46	0.86	1.08	0.88	0.82	0.72	0.69	0.69	
7	0.67	0.66	0.57	0.46	0.46	0.85	1.58	0.85	0.81	0.72	0.69	0.69	
8	0.67	0.66	0.57	0.46	0.46	0.85	2.04	0.84	0.81	0.72	0.69	0.69	
9	0.67	0.66	0.56	0.46	0.46	0.84	1.94	0.84	0.81	0.72	0.69	0.69	
10	0.67	0.66	0.56	0.46	0.46	0.83	1.89	0.85	0.81	0.72	0.69	0.69	
11	0.67	0.67	0.57	0.46	0.46	0.83	1.87	1.16	0.80	0.72	0.69	0.69	
12	0.67	0.67	0.57	0.46	0.46	0.91	1.65	1.13	0.80	0.71	0.69	0.69	
13	0.66	0.67	0.58	0.46	0.46	1.24	2.29	1.04	0.79	0.71	0.69	0.69	
14	0.66	0.67	0.58	0.46	0.46	1.10	2.19	1.00	0.78	0.71	0.69	0.69	
15	0.66	0.66	0.58	0.46	0.46	1.02	1.64	1.03	0.77	0.71	0.69	0.69	
16	0.66	0.66	0.58	0.46	0.46	1.00	1.44	1.02	0.78	0.70	0.69	0.69	
17	0.66	0.66	0.57	0.46	0.46	0.98	1.38	0.95	0.77	0.70	0.69	0.69	
18	0.66	0.66	0.55	0.46	0.46	0.98	1.36	0.94	0.77	0.70	0.69	0.69	
19	0.66	0.66	0.53	0.46	0.46	1.02	1.26	0.90	0.77	0.70	0.69	0.68	
20	0.66	0.65	0.52	0.46	0.46	1.29	1.18	0.87	0.76	0.70	0.70	0.68	
21	0.66	0.65	0.51	0.46	0.46	1.21	1.13	0.87	0.76	0.70	0.70	0.68	
22	0.66	0.64	0.51	0.46	0.46	1.20	1.09	0.86	0.76	0.70	0.70	0.68	
23	0.66	0.64	0.50	0.46	0.46	1.20	1.06	0.86	0.76	0.69	0.70	0.68	
24	0.66	0.64	0.50	0.46	0.46	1.15	1.03	0.86	0.75	0.69	0.70	0.68	
25	0.66	0.63	0.50	0.46	0.46	1.29	1.00	0.85	0.75	0.69	0.70	0.68	
26	0.66	0.62	0.49	0.46	0.46	1.54	0.98	0.85	0.75	0.69	0.70	0.68	
27	0.66	0.62	0.49	0.46	0.46	1.33	0.96	0.85	0.74	0.69	0.69	0.68	
28	0.66	0.61	0.48	0.46	0.55	1.29	0.94	0.85	0.74	0.69	0.69	0.68	
29	0.66	0.61	0.47	0.46	0.64	1.18	0.92	0.84	0.73	0.69	0.69	0.68	
30	0.66	0.60	0.47	0.46	0.91	1.24	0.91	0.84	0.73	0.69		0.68	
31		0.60		0.46	1.00		0.90		0.73	0.69		0.68	
Mean	0.66	0.65	0.54	0.46	0.50	1.06	1.34	0.91	0.78	0.71	0.69	0.69	
Max	0.68	0.67	0.59	0.46	1.00	1.54	2.29	1.16	0.84	0.73	0.70	0.69	2.29
Min	0.66	0.60	0.47	0.46	0.46	0.83	0.90	0.84	0.73	0.69	0.69	0.68	0.46

Annual Max Momentary Gage Height 2.90 M (A.D), at 3.00 Hours, on Oct 14, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.42 M (A.D)
Left Bank Elevation 6.20 M (A.D)
Right Bank Elevation 9.34 M (A.D), Drainage Area 92 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.03	0.00	0.00	0.00	0.47	3.52	0.35	0.20	0.07	0.04	0.04	
2	0.04	0.03	0.00	0.00	0.00	0.40	1.56	0.30	0.17	0.07	0.04	0.04	
3	0.04	0.03	0.00	0.00	0.00	0.35	1.04	0.25	0.17	0.07	0.04	0.04	
4	0.04	0.03	0.00	0.00	0.00	0.32	0.80	0.25	0.17	0.07	0.04	0.04	
5	0.04	0.03	0.00	0.00	0.00	0.30	0.80	0.28	0.17	0.06	0.04	0.04	
6	0.04	0.03	0.00	0.00	0.00	0.25	0.92	0.30	0.15	0.06	0.04	0.04	
7	0.04	0.03	0.00	0.00	0.00	0.23	4.03	0.23	0.12	0.06	0.04	0.04	
8	0.04	0.03	0.00	0.00	0.00	0.23	9.60	0.20	0.12	0.06	0.04	0.04	
9	0.04	0.03	0.00	0.00	0.00	0.20	8.22	0.20	0.12	0.06	0.04	0.04	
10	0.04	0.03	0.00	0.00	0.00	0.17	7.57	0.23	0.12	0.06	0.04	0.04	
11	0.04	0.04	0.00	0.00	0.00	0.17	7.31	1.24	0.10	0.06	0.04	0.04	
12	0.04	0.04	0.00	0.00	0.00	0.38	4.75	1.12	0.10	0.05	0.04	0.04	
13	0.03	0.04	0.00	0.00	0.00	1.62	13.62	0.76	0.10	0.05	0.04	0.04	
14	0.03	0.04	0.00	0.00	0.00	1.00	11.85	0.60	0.09	0.05	0.04	0.04	
15	0.03	0.03	0.00	0.00	0.00	0.68	4.64	0.72	0.08	0.05	0.04	0.04	
16	0.03	0.03	0.00	0.00	0.00	0.60	2.84	0.68	0.09	0.05	0.04	0.04	
17	0.03	0.03	0.00	0.00	0.00	0.55	2.39	0.47	0.08	0.05	0.04	0.04	
18	0.03	0.03	0.00	0.00	0.00	0.55	2.28	0.45	0.08	0.05	0.04	0.04	
19	0.03	0.03	0.00	0.00	0.00	0.68	1.73	0.35	0.08	0.05	0.04	0.04	
20	0.03	0.02	0.00	0.00	0.00	1.89	1.32	0.28	0.08	0.05	0.05	0.04	
21	0.03	0.02	0.00	0.00	0.00	1.45	1.12	0.28	0.08	0.05	0.05	0.04	
22	0.03	0.02	0.00	0.00	0.00	1.40	0.96	0.25	0.08	0.05	0.05	0.04	
23	0.03	0.02	0.00	0.00	0.00	1.40	0.84	0.25	0.08	0.04	0.05	0.04	
24	0.03	0.02	0.00	0.00	0.00	1.20	0.72	0.25	0.08	0.04	0.05	0.04	
25	0.03	0.01	0.00	0.00	0.00	1.89	0.60	0.23	0.08	0.04	0.05	0.04	
26	0.03	0.01	0.00	0.00	0.00	3.69	0.55	0.23	0.08	0.04	0.05	0.04	
27	0.03	0.01	0.00	0.00	0.00	2.12	0.50	0.23	0.07	0.04	0.04	0.04	
28	0.03	0.00	0.00	0.00	0.00	1.89	0.45	0.23	0.07	0.04	0.04	0.04	
29	0.03	0.00	0.00	0.00	0.02	1.32	0.40	0.20	0.07	0.04	0.04	0.04	
30	0.03	0.00	0.00	0.00	0.38	1.62	0.38	0.20	0.07	0.04		0.04	
31		0.00		0.00	0.60		0.35		0.07	0.04		0.04	
Total	1.02	0.74	0.00	0.00	1.00	29.02	97.66	11.61	3.22	1.61	1.23	1.24	148.35 CMSDAY
Mean	0.03	0.02	0.00	0.00	0.03	0.97	3.15	0.39	0.10	0.05	0.04	0.04	0.41 CMS
Max	0.04	0.04	0.00	0.00	0.60	3.69	13.62	1.24	0.20	0.07	0.05	0.04	13.62 CMS
Min	0.03	0.00	0.00	0.00	0.00	0.17	0.35	0.20	0.07	0.04	0.04	0.04	0.00 CMS
Runoff	0.088	0.064	0.000	0.000	0.086	2.507	8.438	1.003	0.278	0.139	0.106	0.107	12.817 MCM

Momentary Peak 27.80 CMS, at 2.90 M (A.D), at 3.00 Hours, on Oct 14, 1995
Runoff Yield 4.41 Liters/Second/Square KM, Momentary Peak Yield 302.174 Liters/Second/Square KM

WATER YEAR 1995

WEST COAST-GULF BASIN

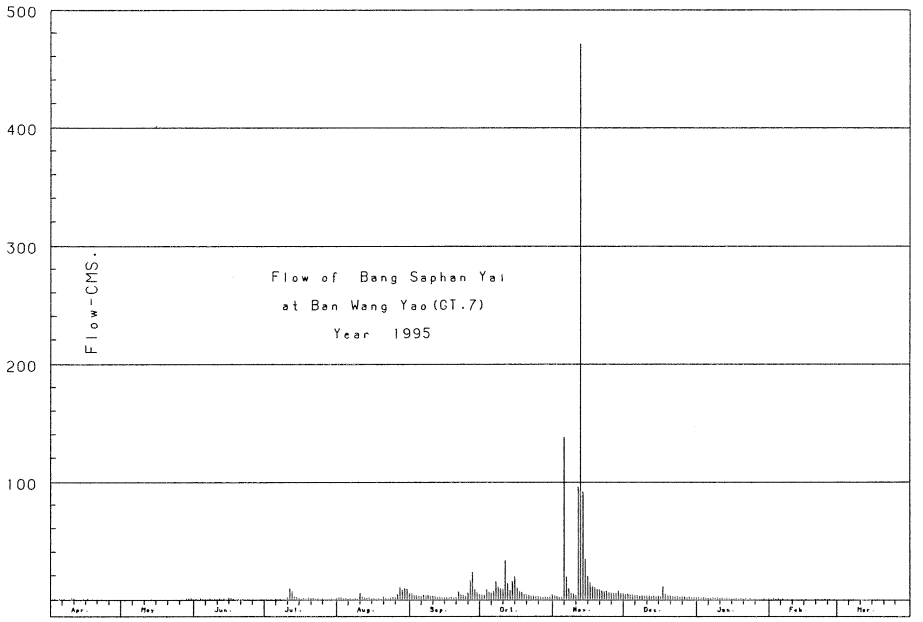
Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)

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	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +7.71 m.(A.D.) and is included.
General Description	Records fair. Stage-discharge relation defined by 52 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.39	1.26	1.36	1.33	1.48	1.64	1.59	1.57	1.65	1.45	1.39	1.33	
2	1.38	1.24	1.38	1.32	1.44	1.59	1.60	1.50	1.63	1.45	1.39	1.33	
3	1.37	1.21	1.38	1.36	1.42	1.56	1.85	1.48	1.62	1.45	1.40	1.36	
4	1.37	1.20	1.39	1.35	1.40	1.55	1.73	1.47	1.60	1.45	1.39	1.37	
5	1.38	1.18	1.39	1.40	1.40	1.55	1.71	4.25	1.59	1.44	1.38	1.36	
6	1.37	1.18	1.38	1.37	1.38	1.58	1.75	2.28	1.56	1.44	1.37	1.35	
7	1.36	1.20	1.38	1.36	1.41	1.58	2.15	1.86	1.55	1.44	1.37	1.34	
8	1.36	1.31	1.37	1.36	1.41	1.57	1.94	1.70	1.55	1.43	1.36	1.33	
9	1.44	1.31	1.37	1.41	1.40	1.55	1.89	1.64	1.55	1.43	1.36	1.32	
10	1.39	1.30	1.38	1.48	1.68	1.52	1.85	1.60	1.54	1.43	1.36	1.32	
11	1.37	1.33	1.38	1.89	1.51	1.50	2.64	3.74	1.54	1.42	1.35	1.32	
12	1.36	1.27	1.38	1.75	1.45	1.48	2.09	6.39	1.53	1.42	1.35	1.32	
13	1.35	1.22	1.38	1.52	1.44	1.48	1.82	3.68	1.53	1.42	1.35	1.31	
14	1.40	1.17	1.37	1.46	1.43	1.47	2.14	2.67	1.52	1.42	1.35	1.31	
15	1.38	1.19	1.47	1.43	1.41	1.47	2.27	2.29	1.52	1.41	1.34	1.31	
16	1.37	1.22	1.40	1.40	1.40	1.46	1.91	2.10	1.52	1.41	1.34	1.31	
17	1.36	1.23	1.38	1.41	1.40	1.47	1.77	1.99	1.97	1.41	1.34	1.30	
18	1.36	1.22	1.36	1.41	1.39	1.47	1.72	1.91	1.63	1.41	1.34	1.30	
19	1.36	1.20	1.37	1.43	1.40	1.46	1.65	1.87	1.57	1.40	1.33	1.30	
20	1.35	1.19	1.36	1.43	1.49	1.46	1.61	1.83	1.54	1.40	1.35	1.30	
21	1.35	1.18	1.36	1.41	1.43	1.74	1.58	1.78	1.53	1.40	1.39	1.30	
22	1.33	1.17	1.36	1.40	1.41	1.63	1.56	1.77	1.52	1.39	1.37	1.29	
23	1.30	1.16	1.35	1.39	1.45	1.58	1.54	1.76	1.51	1.39	1.37	1.29	
24	1.25	1.17	1.35	1.38	1.46	1.55	1.53	1.73	1.50	1.39	1.37	1.29	
25	1.23	1.16	1.36	1.39	1.48	1.68	1.51	1.69	1.49	1.39	1.37	1.29	
26	1.23	1.27	1.36	1.38	1.61	2.17	1.50	1.68	1.48	1.39	1.36	1.29	
27	1.23	1.26	1.36	1.38	1.94	2.39	1.49	1.69	1.47	1.39	1.36	1.28	
28	1.26	1.41	1.36	1.38	1.80	1.85	1.48	1.78	1.47	1.39	1.35	1.28	
29	1.31	1.42	1.34	1.39	1.90	1.70	1.48	1.69	1.46	1.39	1.34	1.28	
30	1.29	1.40	1.34	1.38	1.85	1.64	1.47	1.66	1.46	1.38		1.27	
31		1.38		1.42	1.69		1.60		1.46	1.38		1.27	
Mean	1.34	1.25	1.37	1.42	1.51	1.61	1.76	2.17	1.55	1.41	1.36	1.31	
Max	1.44	1.42	1.47	1.89	1.94	2.39	2.64	6.39	1.97	1.45	1.40	1.37	6.39
Min	1.23	1.16	1.34	1.32	1.38	1.46	1.47	1.47	1.46	1.38	1.33	1.27	1.16

Annual Max Momentary Gage Height 7.90 M (AD), at 15.00 Hours, on Nov 12, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.39 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, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.08	0.00	0.72	0.36	2.40	4.92	4.05	3.75	5.10	1.95	1.08	0.36	
2	0.96	0.00	0.96	0.24	1.80	4.05	4.20	2.70	4.74	1.95	1.08	0.36	
3	0.84	0.00	0.96	0.72	1.50	3.60	9.00	2.40	4.56	1.95	1.20	0.72	
4	0.84	0.00	1.08	0.60	1.20	3.45	6.60	2.25	4.20	1.95	1.08	0.84	
5	0.96	0.00	1.08	1.20	1.20	3.45	6.20	138.50	4.05	1.80	0.96	0.72	
6	0.84	0.00	0.96	0.84	0.96	3.90	7.00	19.80	3.60	1.80	0.84	0.60	
7	0.72	0.00	0.96	0.72	1.35	3.90	15.75	9.20	3.45	1.80	0.84	0.48	
8	0.72	0.12	0.84	0.72	1.35	3.75	10.80	6.00	3.45	1.65	0.72	0.36	
9	1.80	0.12	0.84	1.35	1.20	3.45	9.80	4.92	3.45	1.65	0.72	0.24	
10	1.08	0.00	0.96	2.40	5.64	3.00	9.00	4.20	3.30	1.65	0.72	0.24	
11	0.84	0.36	0.96	9.80	2.85	2.70	33.60	95.80	3.30	1.50	0.60	0.24	
12	0.72	0.00	0.96	7.00	1.95	2.40	14.25	471.60	3.15	1.50	0.60	0.24	
13	0.60	0.00	0.96	3.00	1.80	2.40	8.40	91.60	3.15	1.50	0.60	0.12	
14	1.20	0.00	0.84	2.10	1.65	2.25	15.50	34.80	3.00	1.50	0.60	0.12	
15	0.96	0.00	2.25	1.65	1.35	2.25	19.45	20.15	3.00	1.35	0.48	0.12	
16	0.84	0.00	1.20	1.20	1.20	2.10	10.20	14.50	3.00	1.35	0.48	0.12	
17	0.72	0.00	0.96	1.35	1.20	2.25	7.40	11.80	11.40	1.35	0.48	0.00	
18	0.72	0.00	0.72	1.35	1.08	2.25	6.40	10.20	4.74	1.35	0.48	0.00	
19	0.72	0.00	0.84	1.65	1.20	2.10	5.10	9.40	3.75	1.20	0.36	0.00	
20	0.60	0.00	0.72	1.65	2.55	2.10	4.38	8.60	3.30	1.20	0.60	0.00	
21	0.60	0.00	0.72	1.35	1.65	6.80	3.90	7.60	3.15	1.20	1.08	0.00	
22	0.36	0.00	0.72	1.20	1.35	4.74	3.60	7.40	3.00	1.08	0.84	0.00	
23	0.00	0.00	0.60	1.08	1.95	3.90	3.30	7.20	2.85	1.08	0.84	0.00	
24	0.00	0.00	0.60	0.96	2.10	3.45	3.15	6.60	2.70	1.08	0.84	0.00	
25	0.00	0.00	0.72	1.08	2.40	5.64	2.85	5.82	2.55	1.08	0.84	0.00	
26	0.00	0.00	0.72	0.96	4.38	16.25	2.70	5.64	2.40	1.08	0.72	0.00	
27	0.00	0.00	0.72	0.96	10.80	23.65	2.55	5.82	2.25	1.08	0.72	0.00	
28	0.00	1.35	0.72	0.96	8.00	9.00	2.40	7.60	2.25	1.08	0.60	0.00	
29	0.12	1.50	0.48	1.08	10.00	6.00	2.40	5.82	2.10	1.08	0.48	0.00	
30	0.00	1.20	0.48	0.96	9.00	4.92	2.25	5.28	2.10	0.96		0.00	
31		0.96		1.50	5.82		4.20		2.10	0.96		0.00	
Total	18.84	5.61	26.25	51.99	92.88	144.62	240.38	1026.95	109.14	43.71	21.48	5.88	1787.73 CMSDAY
Mean	0.63	0.18	0.87	1.68	3.00	4.82	7.75	34.23	3.52	1.41	0.74	0.19	4.88 CMS
Max	1.80	1.50	2.25	9.80	10.80	23.65	33.60	471.60	11.40	1.95	1.20	0.84	471.60 CMS
Min	0.00	0.00	0.48	0.24	0.96	2.10	2.25	2.25	2.10	0.96	0.36	0.00	0.00 CMS
Runoff	1.628	0.485	2.268	4.492	8.025	12.495	20.769	88.728	9.430	3.777	1.856	0.508	154.460 MCM

Momentary Peak 924.00 CMS, at 7.90 M (AD), at 15.00 Hours, on Nov 12, 1995
Runoff Yield 14.12 Liters/Second/Square KM, Momentary Peak Yield 2670.520 Liters/Second/Square KM

WATER YEAR 1995

WEST COAST-GULF BASIN

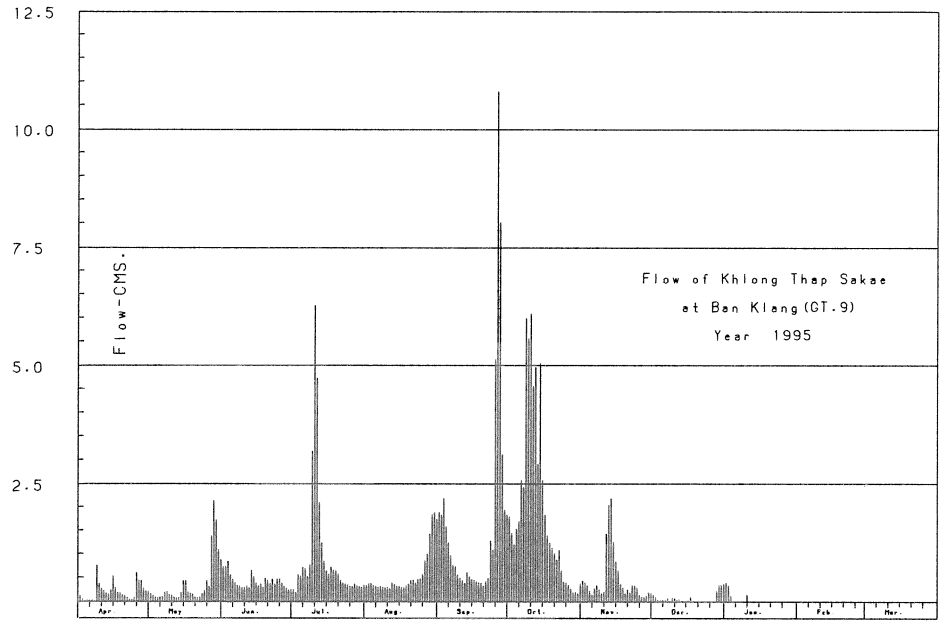
Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan (Gt.9)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 78 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.07	0.26	0.10	0.14	0.52	0.50	0.18	0.06	0.16	-0.11	0.50	
2	0.02	0.05	0.26	0.08	0.15	0.51	0.43	0.16	0.04	0.14	-0.12	0.52	
3	0.01	0.04	0.29	0.22	0.16	0.58	0.38	0.14	0.02	0.05	-0.12	0.49	
4	0.01	0.03	0.22	0.21	0.14	0.46	0.45	0.09	0.01	-0.01	-0.13	0.50	
5	0.01	0.04	0.19	0.26	0.13	0.39	0.48	0.06	0.02	-0.05	-0.15	0.50	
6	0.01	0.04	0.16	0.25	0.12	0.32	0.64	0.11	0.01	-0.05	-0.15	0.44	
7	0.01	0.08	0.14	0.21	0.13	0.27	0.62	0.14	0.03	-0.04	-0.15	0.46	
8	0.27	0.08	0.13	0.27	0.12	0.26	1.08	0.10	0.00	-0.07	-0.14	0.48	
9	0.15	0.06	0.12	0.73	0.12	0.22	1.03	0.07	0.03	-0.06	-0.10	0.49	
10	0.11	0.05	0.12	1.11	0.12	0.20	1.09	0.08	0.03	0.06	0.21	0.52	
11	0.09	0.04	0.13	0.93	0.11	0.18	0.91	0.43	0.02	0.00	0.27	0.51	
12	0.07	0.03	0.12	0.56	0.16	0.16	0.96	0.55	0.02	-0.06	0.24	0.52	
13	0.06	0.03	0.24	0.39	0.15	0.23	0.69	0.58	0.01	-0.05	0.73	0.50	
14	0.10	0.08	0.21	0.29	0.13	0.21	0.97	0.39	-0.01	-0.08	0.80	0.47	
15	0.21	0.18	0.16	0.24	0.13	0.19	0.64	0.29	0.00	-0.09	0.63	0.35	
16	0.12	0.18	0.13	0.22	0.12	0.18	0.51	0.24	0.01	-0.05	0.52	0.36	
17	0.08	0.08	0.15	0.26	0.12	0.17	0.42	0.15	0.04	-0.05	0.29	0.29	
18	0.07	0.07	0.12	0.24	0.13	0.16	0.39	0.12	0.01	-0.04	0.29	0.23	
19	0.06	0.06	0.20	0.24	0.15	0.16	0.36	0.07	-0.01	-0.06	0.33	0.11	
20	0.05	0.04	0.18	0.22	0.18	0.13	0.33	0.10	-0.01	-0.05	0.64	0.42	
21	0.03	0.03	0.15	0.18	0.18	0.17	0.30	0.08	-0.02	-0.08	0.40	0.46	
22	0.02	0.04	0.19	0.16	0.16	0.20	0.35	0.14	-0.04	-0.10	0.31	0.50	
23	0.02	0.07	0.15	0.15	0.19	0.40	0.24	0.14	-0.05	-0.11	0.48	0.51	
24	0.03	0.09	0.19	0.14	0.19	0.35	0.17	0.12	-0.05	-0.11	0.56	0.50	
25	0.23	0.18	0.19	0.13	0.22	0.98	0.16	0.06	-0.07	-0.11	0.53	0.52	
26	0.18	0.13	0.16	0.13	0.29	1.54	0.14	0.04	-0.08	-0.12	0.50	0.43	
27	0.18	0.42	0.13	0.15	0.33	1.29	0.11	0.04	-0.08	-0.13	0.50	0.36	
28	0.11	0.57	0.11	0.13	0.43	0.72	0.08	0.05	0.09	-0.09	0.49	0.42	
29	0.09	0.49	0.10	0.13	0.51	0.53	0.08	0.08	0.14	-0.09	0.49	0.46	
30	0.08	0.35	0.10	0.12	0.52	0.51	0.07	0.07	0.14	-0.10		0.44	
31		0.30		0.14	0.49		0.15		0.15	-0.12		0.39	
Mean	0.08	0.13	0.17	0.28	0.20	0.41	0.48	0.16	0.01	-0.05	0.28	0.44	
Max	0.27	0.57	0.29	1.11	0.52	1.54	1.09	0.58	0.15	0.16	0.80	0.52	1.54
Min	0.01	0.03	0.10	0.08	0.11	0.13	0.07	0.04	-0.08	-0.13	-0.15	0.11	-0.15

Annual Max Momentary Gage Height 1.71 M (AD), at 6.00 Hours, on Sep 26, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.32 M (AD)
Left Bank Elevation 3.82 M (AD)
Right Bank Elevation 3.92 M (AD), Drainage Area 120 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.18	0.74	0.25	0.35	1.90	1.80	0.45	0.15	0.40	0.00	0.00	
2	0.05	0.13	0.74	0.20	0.38	1.85	1.45	0.40	0.10	0.35	0.00	0.00	
3	0.03	0.10	0.86	0.58	0.40	2.20	1.22	0.35	0.05	0.13	0.00	0.00	
4	0.03	0.08	0.58	0.54	0.35	1.60	1.55	0.23	0.03	0.00	0.00	0.00	
5	0.03	0.10	0.48	0.74	0.33	1.26	1.70	0.15	0.05	0.00	0.00	0.00	
6	0.03	0.10	0.40	0.70	0.30	0.98	2.58	0.28	0.03	0.00	0.00	0.00	
7	0.03	0.20	0.35	0.54	0.33	0.78	2.44	0.35	0.08	0.00	0.00	0.00	
8	0.78	0.20	0.33	0.78	0.30	0.74	6.02	0.25	0.00	0.00	0.00	0.00	
9	0.38	0.15	0.30	3.21	0.30	0.58	5.57	0.18	0.08	0.00	0.00	0.00	
10	0.28	0.13	0.30	6.29	0.30	0.50	6.11	0.20	0.08	0.15	0.00	0.00	
11	0.23	0.10	0.33	4.74	0.28	0.45	4.58	1.45	0.05	0.00	0.00	0.00	
12	0.18	0.08	0.30	2.10	0.40	0.40	4.98	2.05	0.05	0.00	0.00	0.00	
13	0.15	0.08	0.66	1.26	0.38	0.62	2.93	2.20	0.03	0.00	0.00	0.00	
14	0.25	0.20	0.54	0.86	0.33	0.54	5.06	1.26	0.00	0.00	0.00	0.00	
15	0.54	0.45	0.40	0.66	0.33	0.48	2.58	0.86	0.00	0.00	0.00	0.00	
16	0.30	0.45	0.33	0.58	0.30	0.45	1.85	0.66	0.03	0.00	0.00	0.00	
17	0.20	0.20	0.38	0.74	0.30	0.43	1.40	0.38	0.10	0.00	0.00	0.00	
18	0.18	0.18	0.30	0.66	0.33	0.40	1.26	0.30	0.03	0.00	0.00	0.00	
19	0.15	0.15	0.50	0.66	0.38	0.40	1.14	0.18	0.00	0.00	0.00	0.00	
20	0.13	0.10	0.45	0.58	0.45	0.33	1.02	0.25	0.00	0.00	0.00	0.00	
21	0.08	0.08	0.38	0.45	0.45	0.43	0.90	0.20	0.00	0.00	0.00	0.00	
22	0.05	0.10	0.48	0.40	0.40	0.50	1.10	0.35	0.00	0.00	0.00	0.00	
23	0.05	0.18	0.38	0.38	0.48	1.30	0.66	0.35	0.00	0.00	0.00	0.00	
24	0.08	0.23	0.48	0.35	0.48	1.10	0.43	0.30	0.00	0.00	0.00	0.00	
25	0.62	0.45	0.48	0.33	0.58	5.14	0.40	0.15	0.00	0.00	0.00	0.00	
26	0.45	0.33	0.40	0.33	0.86	10.81	0.35	0.10	0.00	0.00	0.00	0.00	
27	0.45	1.40	0.33	0.38	1.02	8.04	0.28	0.10	0.00	0.00	0.00	0.00	
28	0.28	2.15	0.28	0.33	1.45	3.14	0.20	0.13	0.23	0.00	0.00	0.00	
29	0.23	1.75	0.25	0.33	1.85	1.95	0.20	0.20	0.35	0.00	0.00	0.00	
30	0.20	1.10	0.25	0.30	1.90	1.85	0.18	0.18	0.35	0.00		0.00	
31		0.90		0.35	1.75		0.38		0.38	0.00		0.00	
Total	6.57	12.03	12.98	30.60	18.04	51.15	62.32	14.49	2.25	1.03	0.00	0.00	211.46 CMSDAY
Mean	0.22	0.39	0.43	0.99	0.58	1.70	2.01	0.48	0.07	0.03	0.00	0.00	0.58 CMS
Max	0.78	2.15	0.86	6.29	1.90	10.81	6.11	2.20	0.38	0.40	0.00	0.00	10.81 CMS
Min	0.03	0.08	0.25	0.20	0.28	0.33	0.18	0.10	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.568	1.039	1.121	2.644	1.559	4.419	5.384	1.252	0.194	0.089	0.000	0.000	18.270 MCM

Momentary Peak 12.88 CMS, at 1.71 M (AD), at 6.00 Hours, on Sep 26, 1995
Runoff Yield 4.81 Liters/Second/Square KM, Momentary Peak Yield 107.333 Liters/Second/Square KM

WATER YEAR 1995

WEST COAST-GULF BASIN

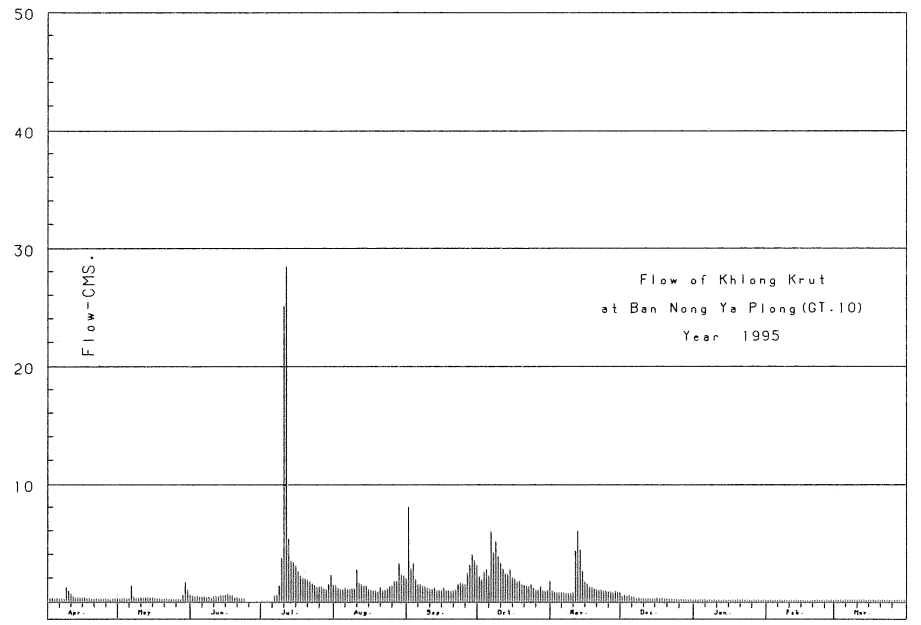
Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan (Gt.10)

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	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 70 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.60	-0.61	-0.54	-0.73	-0.33	0.28	-0.22	-0.42	-0.54	-0.65	-0.68	-0.66	
2	-0.61	-0.61	-0.55	-0.72	-0.38	-0.14	-0.26	-0.45	-0.53	-0.65	-0.68	-0.66	
3	-0.61	-0.60	-0.55	-0.72	-0.39	-0.08	-0.17	-0.46	-0.53	-0.65	-0.68	-0.66	
4	-0.60	-0.60	-0.56	-0.73	-0.40	-0.26	-0.14	-0.47	-0.53	-0.65	-0.68	-0.66	
5	-0.61	-0.60	-0.56	-0.73	-0.38	-0.32	-0.20	-0.45	-0.55	-0.65	-0.68	-0.66	
6	-0.61	-0.34	-0.57	-0.54	-0.39	-0.33	0.14	-0.47	-0.57	-0.66	-0.68	-0.66	
7	-0.62	-0.57	-0.58	-0.53	-0.39	-0.34	0.01	-0.48	-0.59	-0.66	-0.68	-0.66	
8	-0.36	-0.60	-0.58	-0.34	-0.39	-0.36	0.08	-0.49	-0.59	-0.66	-0.68	-0.66	
9	-0.44	-0.60	-0.59	-0.04	-0.39	-0.37	-0.02	-0.49	-0.60	-0.66	-0.68	-0.66	
10	-0.50	-0.59	-0.56	1.04	-0.14	-0.39	-0.08	-0.47	-0.60	-0.67	-0.68	-0.66	
11	-0.55	-0.58	-0.56	1.15	-0.30	-0.39	-0.14	0.02	-0.60	-0.67	-0.68	-0.66	
12	-0.58	-0.58	-0.55	0.10	-0.33	-0.38	-0.18	0.15	-0.60	-0.67	-0.68	-0.66	
13	-0.58	-0.59	-0.54	-0.06	-0.34	-0.41	-0.19	0.03	-0.60	-0.67	-0.68	-0.66	
14	-0.58	-0.59	-0.53	-0.08	-0.35	-0.42	-0.14	-0.16	-0.60	-0.67	-0.68	-0.67	
15	-0.59	-0.59	-0.52	-0.11	-0.39	-0.41	-0.23	-0.28	-0.60	-0.67	-0.69	-0.67	
16	-0.59	-0.60	-0.51	-0.16	-0.41	-0.38	-0.25	-0.32	-0.59	-0.67	-0.69	-0.67	
17	-0.59	-0.61	-0.52	-0.21	-0.42	-0.41	-0.28	-0.35	-0.59	-0.67	-0.69	-0.67	
18	-0.60	-0.62	-0.54	-0.23	-0.43	-0.43	-0.28	-0.37	-0.59	-0.66	-0.69	-0.67	
19	-0.61	-0.63	-0.59	-0.25	-0.44	-0.43	-0.32	-0.38	-0.59	-0.66	-0.69	-0.67	
20	-0.62	-0.64	-0.59	-0.26	-0.37	-0.43	-0.34	-0.40	-0.60	-0.66	-0.69	-0.67	
21	-0.62	-0.64	-0.59	-0.29	-0.41	-0.40	-0.34	-0.40	-0.61	-0.66	-0.66	-0.67	
22	-0.62	-0.64	-0.60	-0.31	-0.42	-0.33	-0.36	-0.41	-0.62	-0.66	-0.66	-0.67	
23	-0.62	-0.64	-0.60	-0.34	-0.38	-0.30	-0.32	-0.42	-0.63	-0.66	-0.67	-0.67	
24	-0.62	-0.64	-0.80	-0.36	-0.36	-0.32	-0.38	-0.43	-0.64	-0.67	-0.67	-0.67	
25	-0.62	-0.65	-0.80	-0.35	-0.34	-0.32	-0.40	-0.44	-0.64	-0.67	-0.67	-0.67	
26	-0.64	-0.65	-0.80	-0.36	-0.28	-0.18	-0.41	-0.45	-0.64	-0.67	-0.67	-0.67	
27	-0.65	-0.65	-0.80	-0.38	-0.28	-0.10	-0.35	-0.46	-0.64	-0.67	-0.67	-0.67	
28	-0.62	-0.52	-0.80	-0.40	-0.09	-0.01	-0.43	-0.45	-0.65	-0.67	-0.67	-0.67	
29	-0.60	-0.29	-0.80	-0.32	-0.19	-0.06	-0.43	-0.44	-0.65	-0.67	-0.67	-0.67	
30	-0.61	-0.41	-0.80	-0.20	-0.21	-0.10	-0.42	-0.47	-0.65	-0.68		-0.67	
31		-0.51		-0.34	-0.25		-0.28		-0.65	-0.68		-0.67	
Mean	-0.59	-0.58	-0.62	-0.25	-0.34	-0.28	-0.24	-0.37	-0.60	-0.66	-0.68	-0.67	
Max	-0.36	-0.29	-0.51	1.15	-0.09	0.28	0.14	0.15	-0.53	-0.65	-0.66	-0.66	1.15
Min	-0.65	-0.65	-0.80	-0.73	-0.44	-0.43	-0.43	-0.49	-0.65	-0.68	-0.69	-0.67	-0.80

Annual Max Momentary Gage Height 2.73 M (A.D), at 18.00 Hours, on Jul 10, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.80 M (A.D)
Left Bank Elevation 4.15 M (A.D)
Right Bank Elevation 3.79 M (A.D), Drainage Area 112 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.34	0.58	0.13	1.52	8.16	2.18	1.03	0.58	0.27	0.22	0.25	
2	0.34	0.34	0.55	0.14	1.22	2.84	1.94	0.92	0.62	0.27	0.22	0.25	
3	0.34	0.36	0.55	0.14	1.16	3.38	2.57	0.88	0.62	0.27	0.22	0.25	
4	0.36	0.36	0.51	0.13	1.10	1.94	2.84	0.84	0.62	0.27	0.22	0.25	
5	0.34	0.36	0.51	0.13	1.22	1.58	2.30	0.92	0.55	0.27	0.22	0.25	
6	0.34	1.46	0.47	0.58	1.16	1.52	5.99	0.84	0.47	0.25	0.22	0.25	
7	0.32	0.47	0.43	0.62	1.16	1.46	4.24	0.80	0.40	0.25	0.22	0.25	
8	1.34	0.36	0.43	1.46	1.16	1.34	5.18	0.77	0.40	0.25	0.22	0.25	
9	0.95	0.36	0.40	3.74	1.16	1.28	3.92	0.77	0.36	0.25	0.22	0.25	
10	0.73	0.40	0.51	25.20	2.84	1.16	3.38	0.84	0.36	0.23	0.22	0.25	
11	0.55	0.43	0.51	28.50	1.70	1.16	2.84	4.37	0.36	0.23	0.22	0.25	
12	0.43	0.43	0.55	5.45	1.52	1.22	2.48	6.13	0.36	0.23	0.22	0.25	
13	0.43	0.40	0.58	3.56	1.46	.06	2.39	4.51	0.36	0.23	0.22	0.25	
14	0.43	0.40	0.62	3.38	1.40	1.03	2.84	2.66	0.36	0.23	0.22	0.23	
15	0.40	0.40	0.66	3.11	1.16	1.06	2.12	1.82	0.36	0.23	0.20	0.23	
16	0.40	0.36	0.69	2.66	1.06	1.22	2.00	1.58	0.40	0.23	0.20	0.23	
17	0.40	0.34	0.66	2.24	1.03	1.06	1.82	1.40	0.40	0.23	0.20	0.23	
18	0.36	0.32	0.58	2.12	0.99	0.99	1.82	1.28	0.40	0.25	0.20	0.23	
19	0.34	0.31	0.40	2.00	0.95	0.99	1.58	1.22	0.40	0.25	0.20	0.23	
20	0.32	0.29	0.40	1.94	1.28	0.99	1.46	1.10	0.36	0.25	0.20	0.23	
21	0.32	0.29	0.40	1.76	1.06	1.10	1.46	1.10	0.34	0.25	0.25	0.23	
22	0.32	0.29	0.36	1.64	1.03	1.52	1.34	1.06	0.32	0.25	0.25	0.23	
23	0.32	0.29	0.36	1.46	1.22	1.70	1.58	1.03	0.31	0.25	0.23	0.23	
24	0.32	0.29	0.00	1.34	1.34	1.58	1.22	0.99	0.29	0.23	0.23	0.23	
25	0.32	0.27	0.00	1.40	1.46	1.58	1.10	0.95	0.29	0.23	0.23	0.23	
26	0.29	0.27	0.00	1.34	1.82	2.48	1.06	0.92	0.29	0.23	0.23	0.23	
27	0.27	0.27	0.00	1.22	1.82	3.20	1.40	0.88	0.29	0.23	0.23	0.23	
28	0.32	0.66	0.00	1.10	3.29	4.01	0.99	0.92	0.27	0.23	0.23	0.23	
29	0.36	1.76	0.00	1.58	2.39	3.56	0.99	0.95	0.27	0.23	0.23	0.23	
30	0.34	1.06	0.00	2.30	2.24	3.20	1.03	0.84	0.27	0.22		0.23	
31		0.69		1.46	2.00		1.82		0.27	0.22		0.23	
Total	12.66	14.63	11.71	103.83	45.92	59.37	69.88	44.32	11.95	7.51	6.39	7.39	395.56 CMSDAY
Mean	0.42	0.47	0.39	3.35	1.48	1.98	2.25	1.48	0.39	0.24	0.22	0.24	1.08 CMS
Max	1.34	1.76	0.69	28.50	3.29	8.16	5.99	6.13	0.62	0.27	0.25	0.25	28.50 CMS
Min	0.27	0.27	0.00	0.13	0.95	0.99	0.99	0.77	0.27	0.22	0.20	0.23	0.00 CMS
Runoff	1.094	1.264	1.012	8.971	3.967	5.130	6.038	3.829	1.032	0.649	0.552	0.638	34.176 MCM

Momentary Peak 100.52 CMS, at 2.73 M (A.D), at 18.00 Hours, on Jul 10, 1995
Runoff Yield 9.65 Liters/Second/Square KM, Momentary Peak Yield 897.500 Liters/Second/Square KM

WATER YEAR 1995

WEST COAST-GULF BASIN

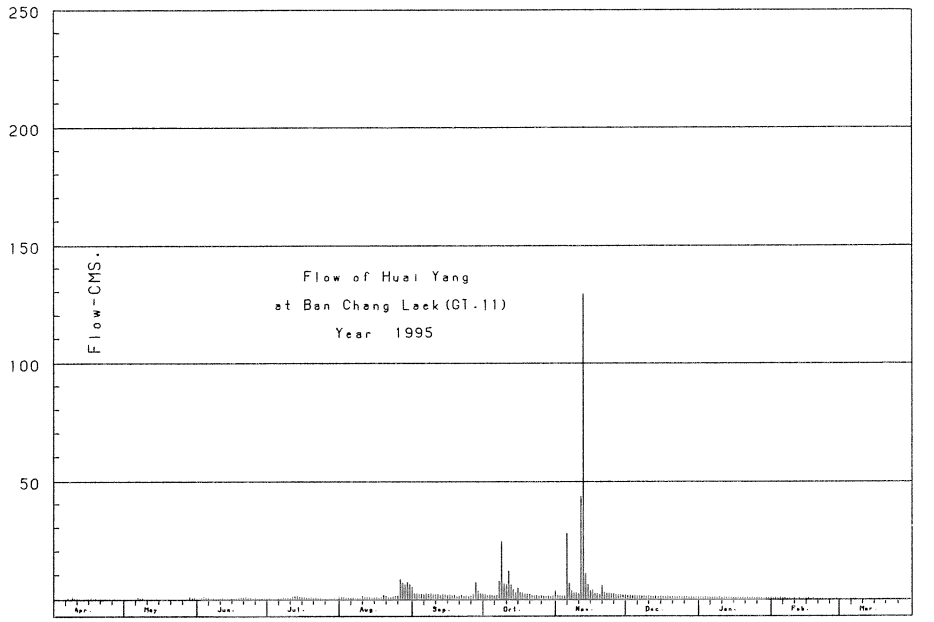
Huai Yang at Ban Chang Laek, Prachuap Khiri Khan (Gt.11)

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.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 54 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.37	0.43	0.41	0.57	0.95	0.82	0.76	0.72	0.54	0.48	0.41	
2	0.37	0.37	0.50	0.41	0.54	0.89	0.76	0.65	0.70	0.54	0.48	0.41	
3	0.35	0.36	0.56	0.42	0.49	0.85	0.74	0.65	0.69	0.54	0.48	0.40	
4	0.42	0.36	0.51	0.43	0.48	0.85	0.76	0.65	0.68	0.54	0.48	0.40	
5	0.40	0.36	0.46	0.43	0.48	0.86	0.70	2.51	0.68	0.54	0.47	0.40	
6	0.44	0.46	0.44	0 45	0.47	0.91	0.71	1.38	0.67	0.54	0.46	0.40	
7	0.43	0.46	0.43	0.50	0.46	0.90	1.45	1.07	0.67	0.54	0.46	0.40	
8	0.66	0.42	0.41	0.48	0.47	0.90	2.38	1.00	0.66	0.54	0.45	0.40	
9	0.49	0.40	0.40	0.46	0.46	0.88	1.34	0.95	0.66	0.53	0.45	0.40	
10	0.43	0.39	0.44	0.48	0.66	0.79	1.31	0.93	0.65	0.53	0.45	0.39	
11	0.41	0.38	0.44	0.58	0.58	0.85	1.77	3.01	0.64	0.52	0.44	0.39	
12	0.39	0.38	0.41	0.66	0.56	0.76	1.33	4.49	0.64	0.52	0.44	0.39	
13	0.41	0.38	0.42	0.64	0.55	0.84	1.15	1.68	0.63	0.52	0.44	0.39	
14	0.40	0.38	0.43	0.58	0.46	0.83	1.00	1.33	0.63	0.52	0.44	0.39	
15	0.46	0.38	0.44	0.56	0.50	0.78	1.19	1.10	0.63	0.52	0.44	0.39	
16	0.44	0.37	0.44	0.52	0.49	0.76	1.03	1.11	0.62	0.52	0.44	0.39	
17	0.44	0.37	0.40	0.50	0.51	0.75	0.98	0.95	0.62	0.51	0.44	0.39	
18	0.40	0.37	0.48	0.51	0.52	0.74	0.87	0.90	0.62	0.51	0.43	0.38	
19	0.40	0.36	0.48	0.51	0.79	0.64	0.85	0.85	0.60	0.50	0.43	0.38	
20	0.39	0.36	0.50	0.49	0.64	0.64	0.80	1.28	0.60	0.50	0.43	0.38	
21	0.38	0.36	0.53	0.49	0.52	0.75	0.76	1.00	0.59	0.50	0.43	0.38	
22	0.38	0.35	0.49	0.48	0.54	0.68	0.73	1.00	0.58	0.50	0.43	0.38	
23	0.37	0.35	0.45	0.47	0.63	0.67	0.70	0.95	0.58	0.50	0.43	0.38	
24	0.37	0.38	0.45	0.44	0.66	0.66	0.70	0.91	0.58	0.50	0.43	0.37	
25	0.37	0.38	0.44	0.44	0.72	0.64	0.68	0.86	0.57	0.50	0.43	0.37	
26	0.37	0.39	0.44	0.44	1.51	0.90	0.67	0.80	0.57	0.50	0.43	0.37	
27	0.37	0.38	0.44	0.44	1.40	1.41	0.66	0.80	0.56	0.50	0.43	0.37	
28	0.37	0.56	0.43	0.44	1.31	1.06	0.66	0.80	0.56	0.48	0.42	0.37	
29	0.38	0.49	0.42	0.44	1.42	0.96	0.65	0.75	0.55	0.48	0.42	0.37	
30	0.38	0.46	0.43	0.43	1.32	0.85	0.65	0.75	0.55	0.48		0.37	
31		0.43		0.62	1.23		1.07		0.55	0.48		0.37	
Mean	0.41	0.39	0.45	0.49	0.71	0.83	0.96	1.20	0.62	0.51	0.44	0.39	
Max	0.66	0.56	0.56	0.66	1.51	1.41	2.38	4.49	0.72	0.54	0.48	0.41	4.49
Min	0.35	0.35	0.40	0.41	0.46	0.64	0.65	0.65	0.55	0.48	0.42	0.37	0.35

Annual Max Momentary Gage Height 4.85 M (A.D), at 12.00 Hours, on Nov 12, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.18 M (A.D)
Left Bank Elevation 8.02 M (A.D)
Right Bank Elevation 8.67 M (A.D), Drainage Area 58 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.48	0.28	0.52	0.44	1.08	2.60	2.08	1.84	1.68	0.96	0.72	0.44	
2	0.28	0.28	0.80	0.44	0.96	2.36	1.84	1.40	1.60	0.96	0.72	0.44	
3	0.20	0.24	1.04	0.48	0.76	2.20	1.76	1.40	1.56	0.96	0.72	0.40	
4	0.48	0.24	0.84	0.52	0.72	2.20	1.84	1.40	1.52	0.96	0.72	0.40	
5	0.40	0.24	0.64	0.52	0.72	2.24	1.60	28.17	1.52	0.96	0.68	0.40	
6	0.56	0.64	0.56	0.60	0.68	2.44	1.64	6.96	1.48	0.96	0.64	0.40	
7	0.52	0.64	0.52	0.80	0.64	2.40	7.85	3.50	1.48	0.96	0.64	0.40	
8	1.44	0.48	0.44	0.72	0.68	2.40	24.74	2.80	1.44	0.96	0.60	0.40	
9	0.76	0.40	0.40	0.64	0.64	2.32	6.48	2.60	1.44	0.92	0.60	0.40	
10	0.52	0.36	0.56	0.72	1.44	1.96	6.12	2.52	1.40	0.92	0.60	0.36	
11	0.44	0.32	0.56	1.12	1.12	2.20	12.18	43.58	1.36	0.88	0.56	0.36	
12	0.36	0.32	0.44	1.44	1.04	1.84	6.36	129.53	1.36	0.88	0.56	0.36	
13	0.44	0.32	0.48	1.36	1.00	2.16	4.30	10.92	1.32	0.88	0.56	0.36	
14	0.40	0.32	0.52	1.12	0.64	2.12	2.80	6.36	1.32	0.88	0.56	0.36	
15	0.64	0.32	0.56	1.04	0.80	1.92	4.70	3.80	1.32	0.88	0.56	0.36	
16	0.56	0.28	0.56	0.88	0.76	1.84	3.10	3.90	1.28	0.88	0.56	0.36	
17	0.56	0.28	0.40	0.80	0.84	1.80	2.72	2.60	1.28	0.84	0.56	0.36	
18	0.40	0.28	0.72	0.84	0.88	1.76	2.28	2.40	1.28	0.84	0.52	0.32	
19	0.40	0.24	0.72	0.84	1.96	1.36	2.20	2.20	1.20	0.80	0.52	0.32	
20	0.36	0.24	0.80	0.76	1.36	1.36	2.00	5.76	1.20	0.80	0.52	0.32	
21	0.32	0.24	0.92	0.76	0.88	1.80	1.84	2.80	1.16	0.80	0.52	0.32	
22	0.32	0.20	0.76	0.72	0.96	1.52	1.72	2.80	1.12	0.80	0.52	0.32	
23	0.28	0.20	0.60	0.68	1.32	1.48	1.60	2.60	1.12	0.80	0.52	0.32	
24	0.28	0.32	0.60	0.56	1.44	1.44	1.60	2.44	1.12	0.80	0.52	0.28	
25	0.28	0.32	0.56	0.56	1.68	1.36	1.52	2.24	1.08	0.80	0.52	0.28	
26	0.28	0.36	0.56	0.56	8.63	2.40	1.48	2.00	1.08	0.80	0.52	0.28	
27	0.28	0.32	0.56	0.56	7.20	7.33	1.44	2.00	1.04	0.80	0.52	0.28	
28	0.28	1.04	0.52	0.56	6.12	3.40	1.44	2.00	1.04	0.72	0.48	0.28	
29	0.32	0.76	0.48	0.56	7.46	2.64	1.40	1.80	1.00	0.72	0.48	0.28	
30	0.32	0.64	0.52	0.52	6.24	2.20	1.40	1.80	1.00	0.72		0.28	
31		0.52		1.28	5.16		3.50		1.00	0.72		0.28	
Total	13.16	11.64	18.16	23.40	65.81	67.05	117.53	286.12	39.80	26.56	16.72	10.72	696.67 CMSDAY
Mean	0.44	0.38	0.61	0.75	2.12	2.24	3.79	9.54	1.28	0.86	0.58	0.35	1.90 CMS
Max	1.44	1.04	1.04	1.44	8.63	7.33	24.74	129.53	1.68	0.96	0.72	0.44	129.53 CMS
Min	0.20	0.20	0.40	0.44	0.64	1.36	1.40	1.40	1.00	0.72	0.48	0.28	0.20 CMS
Runoff	1.137	1.006	1.569	2.022	5.686	5.793	10.155	24.721	3.439	2.295	1.445	0.926	60.192 MCM

Momentary Peak 169.80 CMS, at 4.85 M (A.D), at 12.00 Hours, on Nov 12, 1995
Runoff Yield 32.82 Liters/Second/Square KM, Momentary Peak Yield 2927.586 Liters/Second/Square KM

WATER YEAR 1995

WEST COAST-GULF BASIN

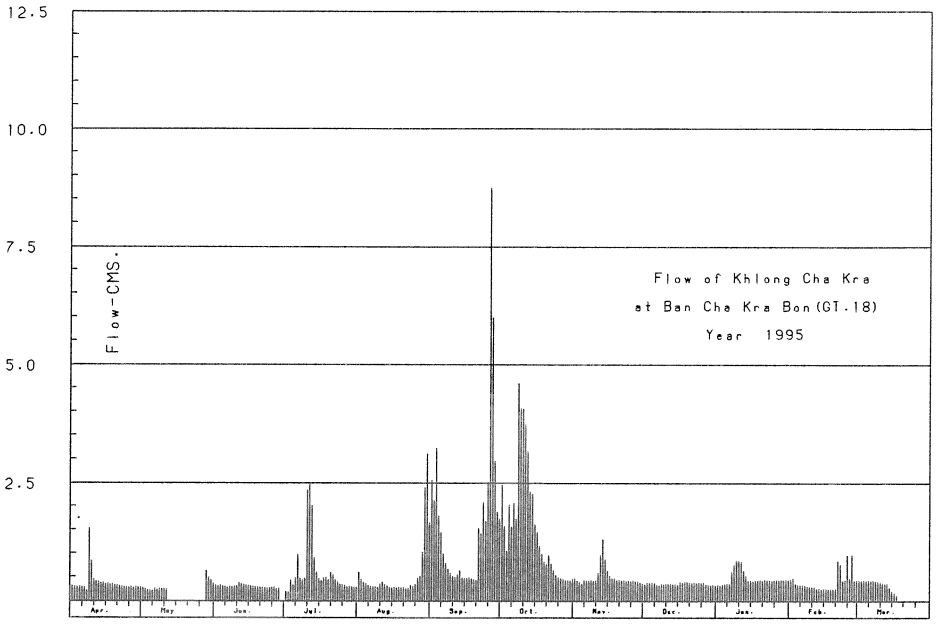
Khlong Cha Kra at Ban Cha Kra Bon, Prachuap Khiri Khan (Gt.18)

Location	Lat.11°-26'-46" N., Long. 99°-34'-10" E., on left bank at the bridge of Phet Kasem Highway near the guidepost 371, Amphoe Thap Sakae, Prachuap Khiri Khan.
Drainage Area	93 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+5.421 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 73 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.86	0.83	0.87	0.78	1.04	1.55	1.53	0.98	0.89	0.87	0.97	0.95	
2	0.85	0.81	0.86	0.78	0.97	1.46	1.33	0.95	0.91	0.87	0.98	0.95	
3	0.85	0.80	0.87	0.95	0.93	1.68	1.19	0.92	0.91	0.88	0.90	0.95	
4	0.85	0.79	0.86	0.88	0.90	1.39	1.44	0.90	0.91	0.90	0.88	0.95	
5	0.85	0.79	0.85	0.99	0.87	1.30	1.33	0.96	0.91	0.90	0.88	0.95	
6	0.83	0.82	0.84	1.16	0.85	1.17	1.45	0.94	0.87	0.90	0.87	0.95	
7	0.79	0.80	0.85	0.99	0.85	1.10	1.37	0.95	0.87	1.04	0.87	0.95	
8	1.32	0.81	0.85	0.95	0.84	1.06	1.92	0.95	0.89	1.09	0.85	0.94	
9	1.12	0.82	0.85	0.99	0.84	1.03	1.83	0.94	0.89	1.12	0.85	0.93	
10	0.97	0.82	0.86	1.51	0.89	1.01	1.83	0.94	0.89	1.12	0.85	0.92	
11	0.94	0.80	0.91	1.53	0.93	1.00	1.77	1.03	0.90	1.11	0.83	0.91	
12	0.93	0.69	0.90	1.44	0.88	1.02	1.67	1.16	0.90	1.05	0.82	0.90	
13	0.91	0.69	0.88	1.14	0.86	1.05	1.50	1.26	0.89	1.01	0.82	0.90	
14	0.91	0.69	0.87	1.04	0.83	1.00	1.49	1.13	0.89	0.95	0.81	0.83	
15	0.90	0.69	0.86	0.98	0.83	0.98	1.34	1.05	0.88	0.95	0.81	0.78	
16	0.90	0.69	0.86	0.95	0.83	0.99	1.30	1.01	0.92	0.94	0.81	0.77	
17	0.89	0.69	0.85	0.99	0.83	1.00	1.22	0.99	0.92	0.95	0.81	0.75	
18	0.89	0.69	0.85	1.00	0.83	0.98	1.17	0.98	0.93	0.96	0.81	0.70	
19	0.88	0.69	0.84	0.97	0.83	0.97	1.11	0.96	0.93	0.96	0.81	0.70	
20	0.87	0.69	0.84	1.04	0.83	0.96	1.09	0.96	0.91	0.95	0.81	0.70	
21	0.86	0.69	0.83	1.02	0.82	1.32	1.16	0.95	0.91	0.96	1.12	0.69	
22	0.85	0.69	0.83	0.97	0.82	1.29	1.10	0.95	0.91	0.96	1.09	0.69	
23	0.85	0.69	0.82	0.93	0.87	1.45	1.05	0.94	0.91	0.95	0.95	0.69	
24	0.84	0.69	0.83	0.90	0.85	1.36	1.02	0.94	0.91	0.95	0.95	0.69	
25	0.84	0.69	0.84	0.88	0.89	1.54	1.00	0.94	0.91	0.96	1.16	0.69	
26	0.84	0.69	0.84	0.86	0.98	2.55	0.99	0.94	0.91	0.96	0.99	0.69	
27	0.83	0.69	0.82	0.85	1.01	2.14	0.97	0.94	0.89	0.96	1.16	0.69	
28	0.84	1.05	0.82	0.85	1.18	1.63	0.96	0.93	0.87	0.96	0.95	0.69	
29	0.84	1.00	0.69	0.85	1.52	1.41	0.95	0.92	0.87	0.96	0.95	0.69	
30	0.84	0.97	0.69	0.83	1.66	1.37	0.95	0.90	0.87	0.96		0.69	
31		0.90		0.84	1.35		0.97		0.87	0.96		0.69	
Mean	0.89	0.77	0.84	0.99	0.95	1.29	1.29	0.98	0.90	0.97	0.91	0.81	
Max	1.32	1.05	0.91	1.53	1.66	2.55	1.92	1.26	0.93	1.12	1.16	0.95	2.55
Min	0.79	0.69	0.69	0.78	0.82	0.96	0.95	0.90	0.87	0.87	0.81	0.69	0.69

Annual Max Momentary Gage Height 2.76 M (A.D), at 6.00 Hours, on Sep 26, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.69 M (A.D)
Left Bank Elevation 4.44 M (A.D)
Right Bank Elevation 3.85 M (A.D), Drainage Area 93 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.33	0.29	0.34	0.20	0.62	2.56	2.47	0.48	0.36	0.34	0.46	0.44	
2	0.31	0.26	0.33	0.20	0.46	2.14	1.59	0.44	0.39	0.34	0.48	0.44	
3	0.31	0.25	0.34	0.44	0.41	3.24	1.07	0.40	0.39	0.35	0.37	0.44	
4	0.31	0.23	0.33	0.35	0.37	1.81	2.04	0.37	0.39	0.37	0.35	0.44	
5	0.31	0.23	0.31	0.49	0.34	1.47	1.59	0.45	0.39	0.37	0.35	0.44	
6	0.29	0.27	0.30	0.98	0.31	1.01	2.09	0.43	0.34	0.37	0.34	0.44	
7	0.23	0.25	0.31	0.49	0.31	0.80	1.74	0.44	0.34	0.62	0.34	0.44	
8	1.55	0.26	0.31	0.44	0.30	0.68	4.62	0.44	0.36	0.77	0.31	0.43	
9	0.86	0.27	0.31	0.49	0.30	0.59	4.08	0.43	0.36	0.86	0.31	0.41	
10	0.46	0.27	0.33	2.37	0.36	0.53	4.08	0.43	0.36	0.86	0.31	0.40	
11	0.43	0.25	0.39	2.47	0.41	0.50	3.74	0.59	0.37	0.83	0.29	0.39	
12	0.41	0.00	0.37	2.04	0.35	0.56	3.18	0.98	0.37	0.65	0.27	0.37	
13	0.39	0.00	0.35	0.92	0.33	0.65	2.33	1.32	0.36	0.53	0.27	0.37	
14	0.39	0.00	0.34	0.62	0.29	0.50	2.28	0.89	0.36	0.44	0.26	0.29	
15	0.37	0.00	0.33	0.48	0.29	0.48	1.63	0.65	0.35	0.44	0.26	0.20	
16	0.37	0.00	0.33	0.44	0.29	0.49	1.47	0.53	0.40	0.43	0.26	0.17	
17	0.36	0.00	0.31	0.49	0.29	0.50	1.17	0.49	0.40	0.44	0.26	0.13	
18	0.36	0.00	0.31	0.50	0.29	0.48	1.01	0.48	0.41	0.45	0.26	0.00	
19	0.35	0.00	0.30	0.46	0.29	0.46	0.83	0.45	0.41	0.45	0.26	0.00	
20	0.34	0.00	0.30	0.62	0.29	0.45	0.77	0.45	0.39	0.44	0.26	0.00	
21	0.33	0.00	0.29	0.56	0.27	1.55	0.98	0.44	0.39	0.45	0.86	0.00	
22	0.31	0.00	0.29	0.46	0.27	1.44	0.80	0.44	0.39	0.45	0.77	0.00	
23	0.31	0.00	0.27	0.41	0.34	2.09	0.65	0.43	0.39	0.44	0.44	0.00	
24	0.30	0.00	0.29	0.37	0.31	1.70	0.56	0.43	0.39	0.44	0.44	0.00	
25	0.30	0.00	0.30	0.35	0.36	2.52	0.50	0.43	0.39	0.45	0.98	0.00	
26	0.30	0.00	0.30	0.33	0.48	8.75	0.49	0.43	0.39	0.45	0.49	0.00	
27	0.29	0.00	0.27	0.31	0.53	6.01	0.46	0.43	0.36	0.45	0.98	0.00	
28	0.30	0.65	0.27	0.31	1.04	2.97	0.45	0.41	0.34	0.45	0.44	0.00	
29	0.30	0.50	0.00	0.31	2.42	1.90	0.44	0.40	0.34	0.45	0.44	0.00	
30	0.30	0.46	0.00	0.29	3.13	1.74	0.44	0.37	0.34	0.45		0.00	
31		0.37		0.30	1.66		0.46		0.34	0.45		0.00	
Total	11.77	4.81	8.82	19.49	17.71	50.57	50.01	15.35	11.56	15.28	12.11	6.24	223.72 CMSDAY
Mean	0.39	0.16	0.29	0.63	0.57	1.69	1.61	0.51	0.37	0.49	0.42	0.20	0.61 CMS
Max	1.55	0.65	0.39	2.47	3.13	8.75	4.62	1.32	0.41	0.86	0.98	0.44	8.75 CMS
Min	0.23	0.00	0.00	0.20	0.27	0.45	0.44	0.37	0.34	0.34	0.26	0.00	0.00 CMS
Runoff	1.017	0.416	0.762	1.684	1.530	4.369	4.321	1.326	0.999	1.320	1.046	0.539	19.329 MCM

Momentary Peak 10.30 CMS, at 2.76 M (A.D), at 6.00 Hours, on Sep 26, 1995
Runoff Yield 6.57 Liters/Second/Square KM, Momentary Peak Yield 110.753 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

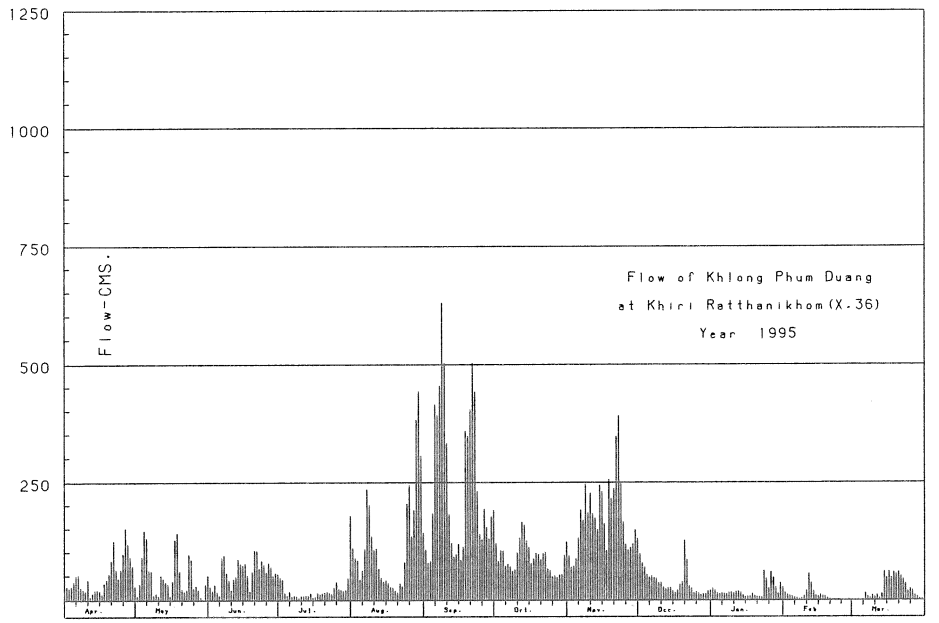
Khlong Phum Duang at Khiri Ratthanikhom, Surat Thani (X.36)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Ratcha Prapha Dam. Stage-discharge relation defined by 15 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.38	0.94	1.35	1.74	2.78	2.73	2.93	2.53	2.59	1.30	1.14	0.62	
2	1.29	1.48	1.18	1.68	2.45	2.30	2.35	2.16	2.32	1.24	1.04	0.60	
3	1.38	2.49	1.44	1.11	2.40	2.35	2.71	2.21	2.15	1.10	1.00	0.71	
4	1.56	3.27	1.13	0.94	1.68	3.72	2.68	2.45	1.90	1.08	0.93	0.64	
5	1.84	3.05	0.98	1.17	2.03	5.93	2.21	3.06	1.79	1.11	0.85	0.68	
6	1.86	2.03	2.46	0.87	2.73	5.73	2.26	3.79	1.82	1.07	0.77	1.11	
7	1.34	2.03	2.55	0.98	4.28	6.25	2.19	3.55	1.77	1.07	0.74	0.89	
8	1.24	0.99	1.95	0.90	3.91	7.41	2.01	4.38	1.72	1.12	0.76	0.81	
9	1.19	1.08	1.65	0.77	3.12	6.59	2.08	3.74	1.55	1.15	0.97	1.00	
10	1.67	0.90	1.23	0.96	2.72	5.21	2.64	4.18	1.55	1.10	1.20	0.89	
11	0.85	1.82	1.68	0.93	2.75	3.68	3.06	3.70	1.37	1.16	1.94	1.01	
12	1.09	1.72	1.79	0.99	2.12	2.91	3.50	3.60	1.29	1.19	1.55	0.82	
13	1.20	1.57	2.41	0.96	1.74	2.51	3.42	3.29	1.32	1.12	1.19	1.08	
14	1.24	1.46	2.28	1.10	1.60	2.57	2.98	4.37	1.34	1.02	1.00	2.02	
15	1.17	0.95	2.21	0.82	1.64	2.90	2.80	4.21	1.18	0.90	0.94	1.78	
16	1.03	1.60	2.27	0.85	1.54	2.41	2.28	3.46	1.11	0.89	1.03	2.01	
17	1.52	3.01	1.83	1.11	1.37	2.80	2.45	2.71	1.23	0.94	0.98	1.76	
18	1.64	3.21	1.19	1.03	1.33	5.45	2.61	4.48	1.48	1.07	0.93	2.00	
19	1.91	2.02	2.00	1.09	1.21	5.34	2.57	4.07	1.57	0.98	0.81	1.90	
20	2.38	1.26	2.71	1.11	1.12	5.83	2.43	4.28	2.99	0.87	0.69	2.01	
21	2.97	1.14	2.68	1.14	1.50	6.60	2.62	5.34	2.43	0.86	0.66	1.82	
22	2.07	1.24	2.12	1.11	1.40	6.15	2.64	5.72	1.41	0.86	0.69	1.71	
23	1.71	2.58	2.39	1.04	2.34	4.24	2.12	4.40	1.30	2.05	0.65	1.52	
24	2.06	2.40	2.23	1.34	3.94	3.17	2.04	3.49	1.12	1.71	0.68	1.19	
25	2.60	1.31	1.98	1.55	4.36	3.03	1.81	2.88	1.15	1.32	0.63	1.28	
26	3.34	1.39	2.30	1.26	3.12	3.82	1.83	2.71	1.09	1.98	0.62	1.22	
27	2.90	1.24	2.17	1.24	3.80	3.37	1.79	2.80	1.03	1.77	0.68	1.02	
28	2.48	0.81	1.81	1.17	5.66	3.04	1.86	2.91	1.05	1.35	0.68	0.88	
29	2.20	0.63	1.95	1.24	6.15	3.64	1.89	3.30	1.08	1.10	0.63	0.74	
30	1.40	1.48	1.89	1.72	4.96	3.79	2.55	3.05	1.18	1.52		0.76	
31		1.85		3.64	3.21		2.97		1.23	1.35		0.66	
Mean	1.75	1.71	1.93	1.21	2.74	4.18	2.46	3.56	1.55	1.20	0.91	1.20	
Max	3.34	3.27	2.71	3.64	6.15	7.41	3.50	5.72	2.99	2.05	1.94	2.02	7.41
Min	0.85	0.63	0.98	0.77	1.12	2.30	1.79	2.16	1.03	0.86	0.62	0.60	0.60

Annual Max Momentary Gage Height 7.47 M (MSL), at 18.00 Hours, on Sep 8, 1995
Zero Gage at Bottom Elevation 0.45 M (MSL), River Bed -0.54 M (MSL)
Left Bank Elevation 10.80 M (MSL)
Right Bank Elevation 10.15 M (MSL), Drainage Area 3012 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.84	13.20	27.70	46.94	111.20	107.70	121.96	93.84	97.92	25.80	19.90	5.40	
2	25.42	33.68	21.30	43.88	88.40	78.70	81.85	69.96	79.96	23.52	16.40	5.00	
3	28.84	91.12	31.64	18.85	85.00	81.85	106.30	73.03	69.35	18.50	15.00	7.20	
4	37.76	147.73	19.55	13.20	43.88	185.20	104.20	88.40	55.10	17.80	12.90	5.80	
5	52.04	130.80	14.40	20.95	62.03	416.60	73.03	131.56	49.49	18.85	10.50	6.60	
6	53.06	62.03	89.08	11.10	107.70	392.60	76.18	191.15	51.02	17.45	8.40	18.85	
7	27.32	62.03	95.20	14.40	236.60	456.50	71.79	170.75	48.47	17.45	7.80	11.70	
8	23.52	14.70	57.65	12.00	201.90	631.70	60.81	246.10	45.92	19.20	8.20	9.30	
9	21.65	17.80	42.35	8.40	136.12	503.55	65.08	186.90	37.25	20.25	14.10	15.00	
10	43.37	12.00	23.14	13.80	107.00	334.10	101.40	227.10	37.25	18.50	22.00	11.70	
11	10.50	51.02	43.88	12.90	109.10	181.80	131.56	183.50	28.46	20.60	57.14	15.35	
12	18.15	45.92	49.49	14.70	67.52	120.52	166.50	175.00	25.42	21.65	37.25	9.60	
13	22.00	38.27	85.68	13.80	46.94	92.48	159.70	149.31	26.56	19.20	21.65	17.80	
14	23.52	32.66	77.44	18.50	39.80	96.56	125.56	245.15	27.32	15.70	15.00	61.42	
15	20.95	13.50	73.03	9.60	41.84	119.80	112.60	229.95	21.30	12.00	13.20	48.98	
16	16.05	39.80	76.81	10.50	36.74	85.68	77.44	163.10	18.85	11.70	16.05	60.81	
17	35.72	127.76	51.53	18.85	28.46	112.60	88.40	106.30	23.14	13.20	14.40	47.96	
18	41.84	142.99	21.65	16.05	26.94	360.50	99.30	256.00	33.68	17.45	12.90	60.20	
19	55.61	61.42	60.20	18.15	22.38	348.40	96.56	216.65	38.27	14.40	9.30	55.10	
20	83.74	24.28	106.30	18.85	19.20	404.60	87.04	236.60	126.28	11.10	6.80	60.81	
21	124.84	19.90	104.20	19.90	34.70	505.00	100.00	348.40	87.04	10.80	6.20	51.02	
22	64.47	23.52	67.52	18.85	29.60	443.75	101.40	391.40	30.11	10.80	6.80	45.41	
23	45.41	97.24	84.37	16.40	81.22	232.80	67.52	248.00	25.80	63.25	6.00	35.72	
24	63.86	85.00	74.29	27.32	204.60	139.92	62.64	165.65	19.20	45.41	6.60	21.65	
25	98.60	26.18	59.18	37.25	244.20	129.28	50.51	118.36	20.25	26.56	5.60	25.04	
26	153.26	29.22	78.70	24.28	136.12	193.80	51.53	106.30	18.15	59.18	5.40	22.76	
27	119.80	23.52	70.57	23.52	192.00	155.63	49.49	112.60	16.05	48.47	6.60	15.70	
28	90.44	9.30	50.51	20.95	384.20	130.04	53.06	120.52	16.75	27.70	6.60	11.40	
29	72.40	5.60	57.65	23.52	443.75	178.40	54.59	150.10	17.80	18.50	5.60	7.80	
30	29.60	33.68	54.59	45.92	306.60	191.15	95.20	130.80	21.30	35.72		8.20	
31		52.55		178.40	142.99		124.84		23.14	27.70		6.20	
Total	1532.58	1568.42	1769.60	791.73	3818.73	7411.21	2818.04	5332.48	1236.60	728.41	394.29	785.48	28187.57 CMSDAY
Mean	51.09	50.59	58.99	25.54	123.18	247.04	90.90	177.75	39.89	23.50	13.60	25.34	77.02 CMS
Max	153.26	147.73	106.30	178.40	443.75	631.70	166.50	391.40	126.28	63.25	57.14	61.42	631.70 CMS
Min	10.50	5.60	14.40	8.40	19.20	78.70	49.49	69.96	16.05	10.80	5.40	5.00	5.00 CMS
Runoff	132.415	135.512	152.893	68.405	329.938	640.328	243.479	460.726	106.842	62.935	34.067	67.865	2435.406 MCM

Momentary Peak 641.90 CMS, at 7.47 M (MSL), at 18.00 Hours, on Sep 8, 1995
Runoff Yield 25.57 Liters/Second/Square KM, Momentary Peak Yield 213.114 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

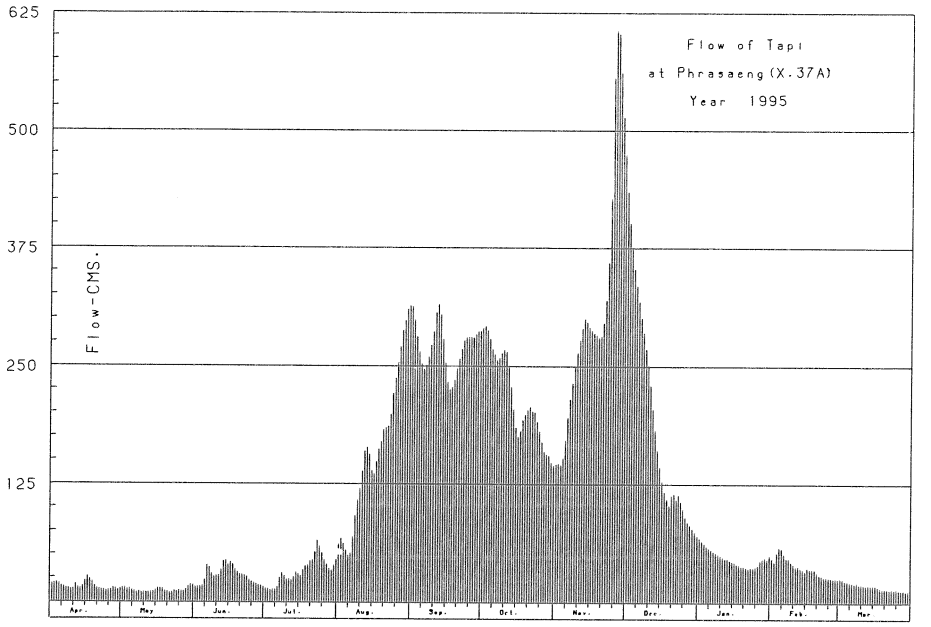
Tapi River at Phrasaeng, Surat Thani (X.37A)

Location	Lat. 08°-34'-03" N., Long. 99°-15'-15" E., on left bank at Amphoe Phrasaeng, Surat Thani.
Drainage Area	5,200 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+4.80 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+10.240 m.(M.S.L.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1969 to date.
Rated by Float	-
Rated by Current Meter	1969 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +10.69 m.(M.S.L.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 72 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.49	5.37	5.40	5.35	6.66	10.36	10.20	8.41	11.09	6.82	6.24	5.66	
2	5.50	5.36	5.39	5.32	6.82	10.26	10.22	8.41	10.91	6.75	6.16	5.62	
3	5.53	5.32	5.41	5.30	6.67	10.13	10.18	8.40	10.76	6.68	6.43	5.58	
4	5.49	5.33	5.42	5.30	6.50	9.99	10.11	8.51	10.63	6.62	6.56	5.56	
5	5.43	5.29	5.61	5.32	6.35	9.86	10.02	8.83	10.51	6.56	6.55	5.54	
6	5.39	5.25	6.04	5.40	6.40	9.80	9.96	9.19	10.40	6.50	6.38	5.52	
7	5.36	5.22	5.99	5.66	6.86	9.84	9.90	9.44	10.28	6.46	6.26	5.51	
8	5.33	5.23	5.79	5.82	7.36	9.94	9.92	9.64	10.16	6.41	6.24	5.50	
9	5.32	5.21	5.71	5.72	7.72	10.05	9.98	9.83	10.02	6.38	6.15	5.48	
10	5.32	5.21	5.72	5.62	7.96	10.17	10.01	9.98	9.84	6.33	6.07	5.47	
11	5.48	5.21	5.74	5.62	8.29	10.32	9.99	10.10	9.62	6.29	6.01	5.46	
12	5.38	5.22	5.91	5.60	8.63	10.38	9.84	10.20	9.31	6.26	6.01	5.45	
13	5.33	5.22	6.18	5.68	8.71	10.30	9.60	10.27	8.99	6.25	5.97	5.45	
14	5.42	5.24	6.18	5.84	8.58	10.11	9.30	10.25	8.66	6.21	5.92	5.45	
15	5.57	5.28	6.07	5.79	8.30	9.87	9.03	10.21	8.35	6.16	5.88	5.44	
16	5.70	5.35	6.13	5.72	8.23	9.65	8.89	10.18	8.10	6.13	5.96	5.44	
17	5.63	5.35	6.08	5.91	8.46	9.57	8.98	10.16	7.90	6.09	5.94	5.42	
18	5.54	5.32	5.91	6.01	8.67	9.59	9.16	10.14	7.74	6.05	5.92	5.36	
19	5.43	5.26	5.85	6.05	8.81	9.68	9.23	10.12	7.61	6.02	5.92	5.34	
20	5.35	5.23	5.77	6.17	9.00	9.80	9.30	10.13	7.81	6.01	5.82	5.33	
21	5.31	5.21	5.75	6.20	9.03	9.91	9.33	10.24	7.87	5.98	5.76	5.33	
22	5.31	5.22	5.75	6.45	9.06	10.02	9.28	10.41	7.73	5.96	5.73	5.32	
23	5.29	5.25	5.69	6.77	9.24	10.09	9.26	10.67	7.83	5.97	5.70	5.32	
24	5.27	5.25	5.61	6.60	9.51	10.12	9.13	11.05	7.69	5.98	5.69	5.32	
25	5.28	5.26	5.54	6.42	9.70	10.12	8.97	11.63	7.51	5.99	5.67	5.32	
26	5.29	5.25	5.51	6.21	9.87	10.12	8.80	11.82	7.33	6.05	5.67	5.30	
27	5.37	5.26	5.49	6.08	10.04	10.12	8.63	11.81	7.22	6.19	5.66	5.29	
28	5.33	5.30	5.46	5.94	10.18	10.15	8.57	11.65	7.14	6.23	5.65	5.28	
29	5.30	5.42	5.42	5.90	10.26	10.17	8.56	11.46	7.06	6.28	5.63	5.27	
30	5.32	5.46	5.39	6.04	10.34	10.18	8.43	11.28	6.97	6.21		5.26	
31		5.44		6.21	10.37		8.38		6.89	6.33		5.26	
Mean	5.40	5.28	5.73	5.87	8.47	10.02	9.39	10.15	8.71	6.26	5.98	5.41	
Max	5.70	5.46	6.18	6.77	10.37	10.38	10.22	11.82	11.09	6.82	6.56	5.66	11.82
Min	5.27	5.21	5.39	5.30	6.35	9.57	8.38	8.40	6.89	5.96	5.63	5.26	5.21

Annual Max Momentary Gage Height 11.85 M (MSL), at 13.00 Hours, on Nov 26, 1995
Zero Gage at Bottom Elevation 4.80 M (MSL), River Bed 3.33 M (MSL)
Left Bank Elevation 10.68 M (MSL)
Right Bank Elevation 10.88 M (MSL), Drainage Area 5200 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.65	15.52	16.50	14.87	61.40	312.88	290.00	146.60	435.10	67.86	45.94	25.60	
2	20.00	15.20	16.17	13.90	67.86	298.58	292.86	146.60	401.80	65.00	43.10	24.20	
3	21.05	13.90	16.85	13.25	61.80	281.60	287.60	146.00	375.20	62.20	52.79	22.80	
4	19.65	14.22	17.20	13.25	55.35	265.05	279.20	152.60	353.10	59.80	57.54	22.10	
5	17.55	12.93	23.85	13.90	49.90	252.70	268.40	171.89	334.77	57.54	57.18	21.40	
6	16.17	11.63	38.90	16.50	51.70	247.00	262.20	195.33	318.60	55.35	50.98	20.70	
7	15.20	10.65	37.15	25.60	69.58	250.80	256.50	215.20	301.44	53.89	46.66	20.35	
8	14.22	10.98	30.15	31.20	91.70	260.30	258.40	231.80	285.20	52.06	45.94	20.00	
9	13.90	10.33	27.35	27.70	108.66	272.00	264.10	249.85	268.40	50.98	42.75	19.30	
10	13.90	10.33	27.70	24.20	120.50	286.40	267.20	264.10	250.80	49.18	39.95	18.95	
11	19.30	10.33	28.40	24.20	139.40	307.16	265.05	278.00	229.90	47.74	37.85	18.60	
12	15.85	10.65	34.35	23.50	159.80	315.74	250.80	290.00	204.80	46.66	37.85	18.25	
13	14.22	10.65	43.80	26.30	164.60	304.30	228.00	300.01	181.97	46.30	36.45	18.25	
14	17.20	11.30	43.80	31.90	156.80	279.20	204.00	297.15	161.60	44.86	34.70	18.25	
15	22.45	12.60	39.95	30.15	140.00	253.65	184.61	291.43	'143.00	43.10	33.30	17.90	
16	27.00	14.87	42.05	27.70	135.80	232.75	175.67	287.60	128.25	42.05	36.10	17.90	
17	24.55	14.87	40.30	34.35	149.60	225.60	181.34	285.20	117.50	40.65	35.40	17.20	
18	21.40	13.90	34.35	37.85	162.20	227.20	193.32	282.80	109.62	39.25	34.70	15.20	
19	17.55	11.95	32.25	39.25	170.63	235.60	198.40	280.40	103.38	38.20	34.70	14.55	
20	14.87	10.98	29.45	43.45	182.60	247.00	204.00	281.60	113.00	37.85	31.20	14.22	
21	13.57	10.33	28.75	44.50	184.61	257.45	206.40	295.72	116.00	36.80	29.10	14.22	
22	13.57	10.65	28.75	53.52	186.62	268.40	202.40	320.07	109.14	36.10	28.05	13.90	
23	12.93	11.63	26.65	65.80	199.20	276.80	200.80	359.90	114.00	36.45	27.00	13.90	
24	12.28	11.63	23.85	59.00	220.80	280.40	191.31	427.50	107.22	36.80	26.65	13.90	
25	12.60	11.95	21.40	52.43	237.50	280.40	180.71	555.80	98.67	37.15	25.95	13.90	
26	12.93	11.63	20.35	44.86	253.65	280.40	170.00	605.90	90.35	39.25	25.95	13.25	
27	15.52	11.95	19.65	40.30	270.80	280.40	159.80	602.95	85.40	44.15	25.60	12.93	
28	14.22	13.25	18.60	35.40	287.60	284.00	156.20	561.00	81.80	45.58	25.25	12.60	
29	13.25	17.20	17.20	34.00	298.58	286.40	155.60	514.40	78.24	47.38	24.55	12.28	
30	13.90	18.60	16.17	38.90	310.02	287.60	147.80	473.60	74.31	44.86		11.95	
31		17.90		44.86	314.31		144.80		70.87	49.18		11.95	
Total	500.45	394.51	841.89	1026.59	5063.57	8137.76	6727.47	9511.00	5843.43	1454.22	1073.18	530.50	41104.57 CMSDAY
Mean	16.68	12.73	28.06	33.12	163.34	271.26	217.02	317.03	188.50	46.91	37.01	17.11	112.31 CMS
Max	27.00	18.60	43.80	65.80	314.31	315.74	292.86	605.90	435.10	67.86	57.54	25.60	605.90 CMS
Min	12.28	10.33	16.17	13.25	49.90	225.60	144.80	146.00	70.87	36.10	24.55	11.95	10.33 CMS
Runoff	43.239	34.086	72.739	88.697	437.493	703.102	581.253	821.750	504.872	125.645	92.723	45.835	3551.435 MCM

Momentary Peak 614.75 CMS, at 11.85 M (MSL), at 13.00 Hours, on Nov 26, 1995
Runoff Yield 21.60 Liters/Second/Square KM, Momentary Peak Yield 118.221 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENNINSULA EAST COAST

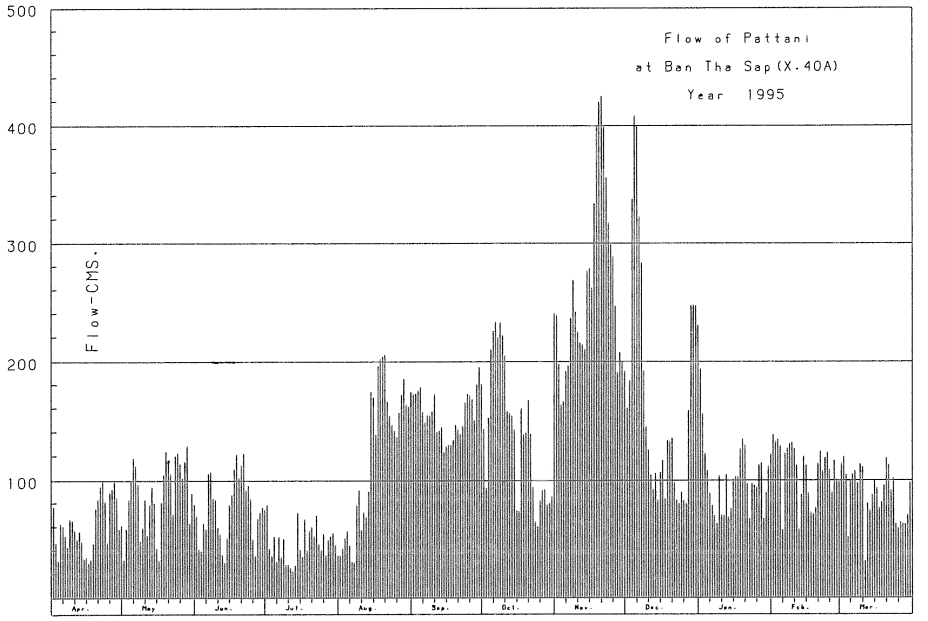
Pattani River at Ban Tha Sap, Yala (X.40A)

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 77 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.48	1.82	2.38	2.50	1.88	3.45	3.17	4.03	3.35	3.65	3.13	2.88	
2	2.06	2.24	1.97	1.98	1.98	3.46	2.67	3.68	3.56	3.30	3.07	2.94	
3	1.81	2.56	1.95	1.88	2.13	3.48	3.27	3.37	4.84	2.97	3.09	2.79	
4	2.30	2.74	2.31	2.15	2.21	3.51	3.79	3.40	5.38	2.82	3.03	2.14	
5	2.28	2.93	2.24	1.80	2.03	3.32	3.92	3.63	5.31	2.62	2.23	2.74	
6	2.16	2.86	2.80	2.14	1.80	3.23	3.98	3.67	4.72	2.50	2.97	2.79	
7	2.01	2.71	2.81	1.86	1.78	3.29	3.87	4.01	4.40	2.39	3.01	2.82	
8	2.35	2.09	2.57	2.12	2.50	3.29	3.98	4.28	3.63	2.31	3.05	2.72	
9	2.34	2.25	2.56	1.75	2.65	3.32	3.89	4.05	3.19	2.78	3.06	2.88	
10	2.22	2.56	2.26	1.75	2.23	3.45	3.74	3.91	3.00	2.39	3.01	2.85	
11	2.11	2.16	2.17	1.71	2.42	3.15	3.32	3.84	2.79	2.39	2.87	1.81	
12	2.21	2.51	1.90	1.65	2.37	3.16	3.31	3.82	2.66	2.79	2.23	2.52	
13	2.08	2.68	1.78	1.74	2.64	3.19	3.29	3.79	2.80	2.37	2.61	2.44	
14	1.84	2.52	2.13	2.42	3.47	2.98	3.17	4.34	2.55	2.47	2.94	2.61	
15	1.86	1.99	2.50	1.97	3.43	3.03	2.44	4.36	2.81	2.75	2.87	2.73	
16	1.78	1.81	2.61	1.87	3.13	3.04	2.43	4.22	2.91	2.77	2.62	2.67	
17	1.82	2.53	2.84	2.35	3.67	3.04	3.34	4.81	2.57	2.77	2.42	2.47	
18	2.06	2.79	2.96	1.95	3.72	3.08	3.13	5.32	3.08	3.01	2.41	2.53	
19	2.46	2.98	2.76	2.22	3.74	3.21	3.14	5.47	3.07	3.09	2.47	2.70	
20	2.56	2.91	2.87	2.26	3.75	3.17	3.41	5.51	3.10	3.04	2.88	2.93	
21	2.69	2.80	2.97	2.15	3.40	3.13	3.13	5.32	2.72	2.71	2.99	2.87	
22	2.74	2.40	2.65	2.39	3.29	3.20	2.68	4.98	2.55	2.36	2.82	2.65	
23	2.54	2.95	2.70	2.05	3.21	3.39	2.32	4.68	2.52	2.71	2.93	2.76	
24	2.06	2.97	2.57	1.96	3.16	3.45	2.27	4.53	2.63	2.70	2.98	2.30	
25	2.63	2.88	2.11	2.18	3.11	3.44	2.55	4.44	2.55	2.68	2.83	2.25	
26	2.66	2.76	1.88	1.89	3.31	3.41	2.65	4.09	2.52	2.87	2.63	2.32	
27	2.73	2.90	2.36	2.11	3.45	3.25	2.66	3.62	3.33	2.89	2.91	2.30	
28	2.58	3.03	2.42	2.15	3.57	3.53	2.50	3.77	4.10	2.35	2.75	2.30	
29	2.24	2.31	2.48	2.19	3.37	3.66	2.52	3.70	4.10	2.63	2.73	2.39	
30	2.28	2.62	2.45	2.03	3.36	3.53	2.59	3.63	4.10	2.86		2.72	
31		2.51		1.89	3.47		4.04		3.96	2.96		2.68	
Mean	2.26	2.57	2.43	2.03	2.91	3.29	3.13	4.21	3.38	2.74	2.81	2.60	
Max	2.74	3.03	2.97	2.50	3.75	3.66	4.04	5.51	5.38	3.65	3.13	2.94	5.51
Min	1.78	1.81	1.78	1.65	1.78	2.98	2.27	3.37	2.52	2.31	2.23	1.81	1.65

Annual Max Momentary Gage Height 5.52 M (AD), at 15.00 Hours, on Nov 20, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.83 M (AD)
Left Bank Elevation 6.20 M (AD)
Right Bank Elevation 8.30 M (AD), Drainage Area 3288 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	77.40	32.20	69.40	79.00	35.80	172.50	143.00	239.60	161.50	194.50	139.00	114.00	
2	46.60	58.80	41.20	41.80	41.80	173.60	93.30	197.80	184.60	156.00	133.00	120.00	
3	31.60	83.80	40.00	35.80	51.10	175.80	153.00	163.70	338.20	123.00	135.00	105.00	
4	63.00	100.00	63.80	52.50	56.70	179.10	210.80	167.00	408.40	108.00	129.00	51.80	
5	61.60	119.00	58.80	31.00	44.80	158.20	226.40	192.30	399.30	88.80	58.10	100.00	
6	53.20	112.00	106.00	51.80	31.00	149.00	233.60	196.70	322.60	79.00	123.00	105.00	
7	43.60	97.00	107.00	34.60	29.80	155.00	220.40	237.20	284.00	70.20	127.00	108.00	
8	67.00	48.40	84.60	50.40	79.00	155.00	233.60	269.60	192.30	63.80	131.00	98.00	
9	66.20	59.50	83.80	28.00	91.50	158.20	222.80	242.00	145.00	104.00	132.00	114.00	
10	57.40	83.80	60.20	28.00	58.10	172.50	204.80	225.20	126.00	70.20	127.00	111.00	
11	49.70	53.20	53.90	25.60	72.60	141.00	158.20	216.80	105.00	70.20	113.00	31.60	
12	56.70	79.80	37.00	22.50	68.60	142.00	157.10	214.40	92.40	105.00	58.10	80.60	
13	47.80	94.20	29.80	27.40	90.60	145.00	155.00	210.80	106.00	68.60	87.90	74.20	
14	33.40	80.60	51.10	72.60	174.70	124.00	143.00	276.80	83.00	76.60	120.00	87.90	
15	34.60	42.40	79.00	41.20	170.30	129.00	74.20	279.20	107.00	101.00	113.00	99.00	
16	29.80	31.60	87.90	35.20	139.00	130.00	73.40	262.40	117.00	103.00	88.80	93.30	
17	32.20	81.40	110.00	67.00	196.70	130.00	160.40	334.30	84.60	103.00	72.60	76.60	
18	46.60	105.00	122.00	40.00	202.40	134.00	139.00	400.60	134.00	127.00	71.80	81.40	
19	75.80	124.00	102.00	57.40	204.80	147.00	140.00	420.10	133.00	135.00	76.60	96.00	
20	83.80	117.00	113.00	60.20	206.00	143.00	168.10	425.30	136.00	130.00	114.00	119.00	
21	95.10	106.00	123.00	52.50	167.00	139.00	139.00	400.60	98.00	97.00	125.00	113.00	
22	100.00	71.00	91.50	70.20	155.00	146.00	94.20	356.40	83.00	67.80	108.00	91.50	
23	82.20	121.00	96.00	46.00	147.00	165.90	64.60	317.60	80.60	97.00	119.00	102.00	
24	46.60	123.00	84.60	40.60	142.00	172.50	60.90	299.60	89.70	96.00	124.00	63.00	
25	89.70	114.00	49.70	54.60	137.00	171.40	83.00	288.80	83.00	94.20	109.00	59.50	
26	92.40	102.00	35.80	36.40	157.10	168.10	91.50	246.80	80.60	113.00	89.70	64.60	
27	99.00	116.00	67.80	49.70	172.50	151.00	92.40	191.20	159.30	115.00	117.00	63.00	
28	85.40	129.00	72.60	52.50	185.70	181.30	79.00	208.40	248.00	67.00	101.00	63.00	
29	58.80	63.80	77.40	55.30	163.70	195.60	80.60	200.00	248.00	89.70	99.00	70.20	
30	61.60	88.80	75.00	44.80	162.60	181.30	86.20	192.30	248.00	112.00		98.00	
31		79.80		36.40	174.70		240.80		231.20	122.00		94.20	
Total	1868.80	2718.10	2273.90	1421.00	3809.60	4686.00	4422.30	7873.50	5309.30	3147.60	3141.60	2748.40	43420.11 CMSDAY
Mean	62.29	87.68	75.80	45.84	122.89	156.20	142.65	262.45	171.27	101.54	108.33	88.66	118.63 CMS
Max	100.00	129.00	123.00	79.00	206.00	195.60	240.80	425.30	408.40	194.50	139.00	120.00	425.30 CMS
Min	29.80	31.60	29.80	22.50	29.80	124.00	60.90	163.70	80.60	63.80	58.10	31.60	22.50 CMS
Runoff	161.464	234.844	196.465	122.774	329.149	404.870	382.087	680.270	458.724	271.953	271.434	237.462	3751.497 MCM

Momentary Peak 426.60 CMS, at 5.52 M (AD), at 15.00 Hours, on Nov 20, 1995
Runoff Yield 36.08 Liters/Second/Square KM, Momentary Peak Yield 129.745 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

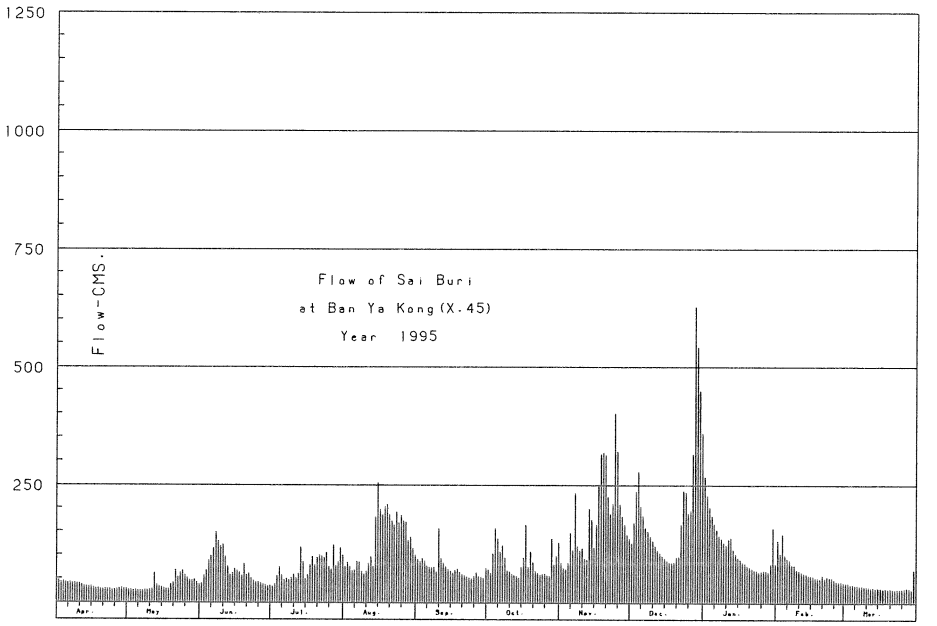
Sai Buri River at Ban Ya Kong, Narathiwat (X.45)

Location	Lat.06°-19'-25" N., Long. 100°-30'-31" E., on right bank at Wat Sai Thong about 7 kilometers from Amphoe Ruso, Narathiwat.
Drainage Area	1,493. sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	on right bank about 11.20 meters from the top staff gage.
Elevation	+8.830 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1970 to date.
Rating Operation	
Period of Rating	1982 to date.
Rated by Float	-
Rated by Current Meter	1982 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.11	0.82	1.02	0.94	1.45	1.59	1.39	1.51	1.89	2.95	1.93	1.03	
2	1.05	0.81	1.22	0.99	1.52	1.54	1.28	1.41	2.24	2.68	1.69	1.02	
3	1.07	0.80	1.36	1.22	1.45	1.61	1.70	1.39	2.75	2.50	2.05	0.99	
4	1.05	0.79	1.56	1.43	1.34	1.55	2.15	1.51	3.01	2.35	1.67	0.98	
5	1.04	0.78	1.65	1.24	1.37	1.46	1.96	2.07	2.51	2.23	1.60	0.97	
6	1.04	0.77	1.80	1.10	1.54	1.43	1.72	1.77	2.35	2.12	1.56	0.96	
7	1.03	0.78	2.08	1.13	1.54	1.43	1.85	2.72	2.16	2.02	1.48	0.95	
8	1.03	0.79	1.93	1.11	1.33	1.43	1.61	1.83	2.09	1.96	1.46	0.94	
9	1.02	0.80	1.83	1.16	1.27	1.33	1.36	1.76	2.01	1.90	1.38	0.93	
10	1.00	0.81	1.86	1.26	1.33	2.14	1.32	1.79	1.92	1.85	1.34	0.92	
11	0.98	0.85	1.64	1.15	1.50	1.61	1.26	1.59	1.84	1.95	1.31	0.91	
12	0.95	1.29	1.44	1.28	1.63	1.51	1.24	1.58	1.76	1.99	1.29	0.90	
13	0.93	0.97	1.25	1.82	1.45	1.45	1.20	2.48	1.70	1.78	1.26	0.90	
14	0.93	0.94	1.29	1.53	2.34	1.38	1.17	2.29	1.65	1.68	1.24	0.88	
15	0.93	0.91	1.40	1.14	2.87	1.34	1.44	1.81	1.60	1.62	1.22	0.88	
16	0.90	0.87	1.34	1.23	2.46	1.30	1.61	2.21	1.56	1.57	1.20	0.87	
17	0.87	0.85	1.31	1.48	2.38	1.37	2.21	2.85	1.53	1.53	1.17	0.86	
18	0.87	0.83	1.21	1.64	2.51	1.39	1.43	3.25	1.51	1.50	1.15	0.85	
19	0.85	0.99	1.50	1.47	2.54	1.32	1.73	3.27	1.53	1.46	1.14	0.85	
20	0.84	1.03	1.25	1.61	2.38	1.25	1.53	3.24	1.62	1.43	1.22	0.85	
21	0.84	1.36	1.27	1.67	2.27	1.22	1.34	2.66	1.63	1.41	1.15	0.85	
22	0.85	1.19	1.16	1.65	2.21	1.20	1.30	2.39	2.22	1.37	1.20	0.83	
23	0.84	1.30	1.08	1.61	2.42	1.16	1.24	2.55	2.76	1.35	1.16	0.83	
24	0.81	1.36	1.05	1.72	2.25	1.15	1.27	3.73	2.73	1.32	1.17	0.84	
25	0.81	1.23	1.04	1.44	2.36	1.20	1.27	3.28	2.39	1.33	1.10	0.84	
26	0.83	1.17	1.02	1.39	2.27	1.31	1.23	2.54	2.44	1.35	1.08	0.85	
27	0.87	1.11	1.00	1.85	2.26	1.21	1.21	2.35	3.25	1.35	1.06	0.90	
28	0.88	1.09	0.97	1.46	1.94	1.18	1.96	2.21	4.73	1.32	1.05	0.86	
29	0.87	1.12	0.95	1.53	1.99	1.16	1.49	2.04	4.38	1.49	1.03	0.83	
30	0.84	1.04	0.95	1.81	1.80	1.41	1.65	1.96	3.97	2.16		1.38	
31		0.98		1.66	1.66		1.89		3.50	1.49		0.86	
Mean	0.93	0.98	1.35	1.41	1.92	1.39	1.52	2.27	2.36	1.77	1.32	0.91	
Max	1.11	1.36	2.08	1.85	2.87	2.14	2.21	3.73	4.73	2.95	2.05	1.38	4.73
Min	0.81	0.77	0.95	0.94	1.27	1.15	1.17	1.39	1.51	1.32	1.03	0.83	0.77

Annual Max Momentary Gage Height 4.75 M (AD), at 12.00 Hours, on Dec 28, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -2.35 M (AD)
Left Bank Elevation 7.38 M (AD)
Right Bank Elevation 8.45 M (AD), Drainage Area 1493 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	48.80	28.00	41.60	35.20	77.50	92.90	71.20	84.10	126.80	268.00	131.60	42.40	
2	44.00	27.50	57.60	39.20	85.20	87.40	62.40	73.10	169.20	227.20	103.90	41.60	
3	45.60	27.00	68.80	57.60	77.50	95.10	105.00	71.20	237.00	203.00	146.00	39.20	
4	44.00	26.50	89.60	75.30	67.20	88.50	158.00	84.10	277.60	183.50	101.70	38.40	
5	43.20	26.00	99.50	59.20	69.60	78.60	135.20	148.40	204.30	167.90	94.00	37.60	
6	43.20	25.50	116.00	48.00	87.40	75.30	107.20	112.70	183.50	154.40	89.60	36.80	
7	42.40	26.00	149.60	50.40	87.40	75.30	122.00	232.80	159.20	142.40	80.80	36.00	
8	42.40	26.50	131.60	48.80	66.40	75.30	95.10	119.60	150.80	135.20	78.60	35.20	
9	41.60	27.00	119.60	52.80	61.60	66.40	68.80	111.60	141.20	128.00	70.40	34.40	
10	40.00	27.50	123.20	60.80	66.40	156.80	65.60	114.90	130.40	122.00	67.20	33.60	
11	38.40	29.50	98.40	52.00	83.00	95.10	60.80	92.90	120.80	134.00	64.80	32.80	
12	36.00	63.20	76.40	62.40	97.30	84.10	59.20	91.80	111.60	138.80	63.20	32.00	
13	34.40	37.60	60.00	118.40	77.50	77.50	56.00	200.40	105.00	113.80	60.80	32.00	
14	34.40	35.20	63.20	86.30	182.20	70.40	53.60	175.70	99.50	102.80	59.20	31.00	
15	34.40	32.80	72.00	51.20	255.20	67.20	76.40	117.20	94.00	96.20	57.60	31.00	
16	32.00	30.50	67.20	58.40	197.80	64.00	95.10	165.30	89.60	90.70	56.00	30.50	
17	30.50	29.50	64.80	80.80	187.40	69.60	165.30	252.00	86.30	86.30	53.60	30.00	
18	30.50	28.50	56.80	98.40	204.30	71.20	75.30	316.00	84.10	83.00	52.00	29.50	
19	29.50	39.20	83.00	79.70	208.20	65.60	108.30	319.20	86.30	78.60	51.20	29.50	
20	29.00	42.40	60.00	95.10	187.40	60.00	86.30	314.40	96.20	75.30	57.60	29.50	
21	29.00	68.80	61.60	101.70	173.10	57.60	67.20	224.40	97.30	73.10	52.00	29.50	
22	29.50	55.20	52.80	99.50	165.30	56.00	64.00	188.70	166.60	69.60	56.00	28.50	
23	29.00	64.00	46.40	95.10	192.60	52.80	59.20	209.50	238.40	68.00	52.80	28.50	
24	27.50	68.80	44.00	107.20	170.50	52.00	61.60	402.70	234.20	65.60	53.60	29.00	
25	27.50	58.40	43.20	76.40	184.80	56.00	61.60	320.80	188.70	66.40	48.00	29.00	
26	28.50	53.60	41.60	71.20	173.10	64.80	58.40	208.20	195.20	68.00	46.40	29.50	
27	30.50	48.80	40.00	122.00	171.80	56.80	56.80	183.50	316.00	68.00	44.80	32.00	
28	31.00	47.20	37.60	78.60	132.80	54.40	135.20	165.30	629.10	65.60	44.00	30.00	
29	30.50	49.60	36.00	86.30	138.80	52.80	81.90	144.80	541.40	81.90	42.40	28.50	
30	29.00	43.20	36.00	117.20	116.00	73.10	99.50	135.20	450.00	159.20		70.40	
31		38.40		100.60	100.60		126.80		359.00	81.90		30.00	
Total	1056.30	1231.90	2138.10	2365.80	4145.90	2192.60	2699.00	5380.50	6169.30	3598.40	1979.80	1047.90	34005.50 CMSDAY
Mean	35.21	39.74	71.27	76.32	133.74	73.09	87.06	179.35	199.01	116.08	68.27	33.80	92.91 CMS
Max	48.80	68.80	149.60	122.00	255.20	156.80	165.30	402.70	629.10	268.00	146.00	70.40	629.10 CMS
Min	27.50	25.50	36.00	35.20	61.60	52.00	53.60	71.20	84.10	65.60	42.40	28.50	25.50 CMS
Runoff	91.264	106.436	184.732	204.405	358.206	189.441	233.194	464.875	533.028	310.902	171.055	90.539	2938.075 MCM

Momentary Peak 634.50 CMS, at 4.75 M (AD), at 12.00 Hours, on Dec 28, 1995
Runoff Yield 62.23 Liters/Second/Square KM, Momentary Peak Yield 424.983 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

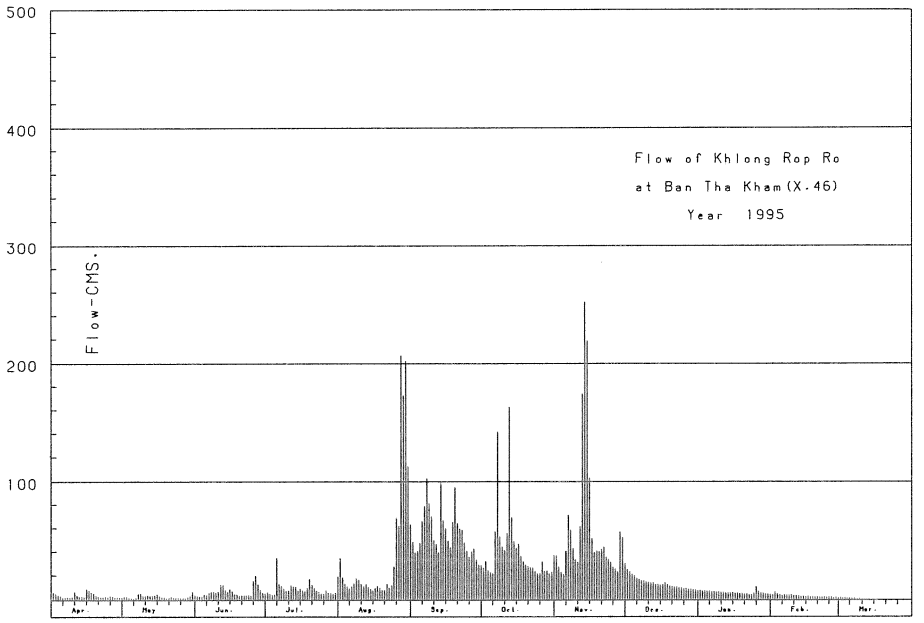
Khlong Rap Ro at Ban Tha Kham, Chumphon (X.46)

Location	Lat. 10-36-47 N., Long. 99-07-07 E., on left bank about 10 kilometers downstream from X.46A station at Ban Hat Taeng, Amphoe Tha Sae, Chumphon.
Drainage Area	751 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+7.16 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near the autometic gage building.
Elevation	+13.069 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1976, 1985 to date.
Rated by Float	-
Rated by Current Meter	1976, 1985 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.52	7.34	7.35	7.51	8.58	8.99	8.29	8.65	8.27	7.59	7.43	7.29	
2	7.45	7.32	7.35	7.46	8.00	8.73	8.49	8.33	8.19	7.58	7.53	7.29	
3	7.40	7.29	7.33	7.40	7.82	8.76	8.23	8.18	8.12	7.58	7.48	7.28	
4	7.35	7.26	7.44	7.43	7.71	8.97	8.16	8.11	8.07	7.57	7.43	7.28	
5	7.30	7.26	7.41	8.59	7.66	9.47	8.14	8.77	8.01	7.56	7.41	7.28	
6	7.29	7.27	7.49	7.79	7.72	9.78	9.24	9.59	7.96	7.55	7.41	7.27	
7	7.32	7.46	7.54	7.75	7.83	10.29	11.03	9.29	7.93	7.54	7.42	7.26	
8	7.30	7.46	7.52	7.64	7.98	9.85	9.13	8.83	7.91	7.54	7.41	7.26	
9	7.33	7.38	7.51	7.58	7.95	9.56	8.87	8.54	7.89	7.53	7.41	7.25	
10	7.52	7.35	7.53	7.57	7.79	9.04	8.79	8.45	7.86	7.52	7.40	7.24	
11	7.40	7.41	7.77	7.75	7.74	8.93	9.20	9.35	7.85	7.51	7.38	7.24	
12	7.35	7.38	7.78	7.73	7.79	8.73	11.36	11.53	7.84	7.50	7.37	7.23	
13	7.34	7.36	7.59	7.70	7.71	10.21	9.55	12.56	7.81	7.49	7.36	7.23	
14	7.33	7.40	7.54	7.58	7.63	9.49	9.00	12.15	7.79	7.50	7.35	7.22	
15	7.65	7.43	7.64	7.65	7.59	9.32	8.85	10.31	7.78	7.50	7.34	7.21	
16	7.58	7.35	7.54	7.57	7.66	9.03	8.94	9.08	7.78	7.49	7.34	7.21	
17	7.52	7.32	7.45	7.56	7.75	8.85	8.63	8.74	7.86	7.48	7.33	7.20	
18	7.46	7.30	7.42	7.67	7.67	9.44	8.47	8.77	7.79	7.48	7.33	7.20	
19	7.39	7.27	7.38	7.97	7.61	10.15	8.39	8.77	7.75	7.47	7.33	7.19	
20	7.35	7.29	7.38	7.77	7.58	9.42	8.34	8.81	7.73	7.46	7.32	7.19	
21	7.32	7.34	7.38	7.66	7.79	9.30	8.30	8.88	7.72	7.45	7.32	7.18	
22	7.32	7.30	7.41	7.58	7.69	9.29	8.30	8.60	7.71	7.44	7.32	7.18	
23	7.33	7.29	7.40	7.52	7.75	8.98	8.21	8.55	7.69	7.43	7.32	7.18	
24	7.32	7.27	7.39	7.47	8.34	8.76	8.12	8.46	7.68	7.50	7.32	7.18	
25	7.36	7.28	7.90	7.44	9.53	8.61	8.13	8.33	7.66	7.73	7.31	7.17	
26	7.33	7.27	8.08	7.59	9.36	8.74	8.48	8.26	7.65	7.55	7.31	7.17	
27	7.30	7.28	7.80	7.50	11.99	8.83	8.21	8.20	7.64	7.51	7.30	7.17	
28	7.29	7.30	7.60	7.47	11.51	8.52	8.21	9.24	7.63	7.48	7.30	7.17	
29	7.31	7.37	7.50	7.45	11.92	8.39	8.13	9.11	7.62	7.46	7.29	7.16	
30	7.29	7.52	7.46	7.48	10.50	8.36	8.17	8.42	7.60	7.44		7.16	
31		7.41		8.05	9.39		8.64		7.59	7.43		7.16	
Mean	7.38	7.34	7.53	7.64	8.44	9.16	8.71	9.10	7.82	7.51	7.36	7.22	
Max	7.65	7.52	8.08	8.59	11.99	10.29	11.36	12.56	8.27	7.73	7.53	7.29	12.56
Min	7.29	7.26	7.33	7.40	7.58	8.36	8.12	8.11	7.59	7.43	7.29	7.16	7.16

Annual Max Momentary Gage Height 12.79 M (MSL), at 19.00 Hours, on Nov 13, 1995
Zero Gage at Bottom Elevation 7.16 M (MSL), River Bed 6.40 M (MSL)
Left Bank Elevation 15.50 M (MSL)
Right Bank Elevation 14.70 M (MSL), Drainage Area 751 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.44	2.66	2.85	6.22	35.40	48.66	26.70	37.55	26.10	7.98	4.46	1.71	
2	4.90	2.28	2.85	5.12	18.40	40.03	32.70	27.90	23.72	7.76	6.66	1.71	
3	3.80	1.71	2.47	3.80	13.72	40.96	24.90	23.44	21.76	7.76	5.56	1.52	
4	2.85	1.14	4.68	4.46	10.86	47.98	22.88	21.48	20.36	7.54	4.46	1.52	
5	1.90	1.14	4.02	35.70	9.64	66.60	22.32	41.27	18.68	7.32	4.02	1.52	
6	1.71	1.33	5.78	12.94	11.12	79.00	57.52	71.40	17.36	7.10	4.02	1.33	
7	2.28	5.12	6.88	11.90	13.98	102.50	142.12	59.42	16.58	6.88	4.24	1.14	
8	1.90	5.12	6.44	9.16	17.88	81.85	53.55	43.22	16.06	6.88	4.02	1.14	
9	2.47	3.42	6.22	7.76	17.10	70.20	44.58	34.20	15.54	6.66	4.02	0.95	
10	6.44	2.85	6.66	7.54	12.94	50.40	41.89	31.50	14.76	6.44	3.80	0.76	
11	3.80	4.02	12.42	11.90	11.64	46.62	56.00	61.80	14.50	6.22	3.42	0.76	
12	2.85	3.42	12.68	11.38	12.94	40.03	163.40	174.58	14.24	6.00	3.23	0.57	
13	2.66	3.04	7.98	10.60	10.86	98.50	69.80	252.64	13.46	5.78	3.04	0.57	
14	2.47	3.80	6.88	7.76	8.92	67.40	49.00	219.25	12.94	6.00	2.85	0.38	
15	9.40	4.46	9.16	9.40	7.98	60.60	43.90	103.50	12.68	6.00	2.66	0.19	
16	7.76	2.85	6.88	7.54	9.64	50.05	46.96	51.80	12.68	5.78	2.66	0.19	
17	6.44	2.28	4.90	7.32	11.90	43.90	36.93	40.34	14.76	5.56	2.47	0.00	
18	5.12	1.90	4.24	9.88	9.88	65.40	32.10	41.27	12.94	5.56	2.47	0.00	
19	3.61	1.33	3.42	17.62	8.44	95.50	29.70	41.27	11.90	5.34	2.47	0.00	
20	2.85	1.71	3.42	12.42	7.76	64.60	28.20	42.54	11.38	5.12	2.28	0.00	
21	2.28	2.66	3.42	9.64	12.94	59.80	27.00	44.92	11.12	4.90	2.28	0.00	
22	2.28	1.90	4.02	7.76	10.36	59.42	27.00	36.00	10.86	4.68	2.28	0.00	
23	2.47	1.71	3.80	6.44	11.90	48.32	24.30	34.50	10.36	4.46	2.28	0.00	
24	2.28	1.33	3.61	5.34	28.20	40.96	21.76	31.80	10.12	6.00	2.28	0.00	
25	3.04	1.52	15.80	4.68	69.00	36.31	22.04	27.90	9.64	11.38	2.09	0.00	
26	2.47	1.33	20.64	7.98	62.20	40.34	32.40	25.80	9.40	7.10	2.09	0.00	
27	1.90	1.52	13.20	6.00	207.26	43.22	24.30	24.00	9.16	6.22	1.90	0.00	
28	1.71	1.90	8.20	5.34	173.26	33.60	24.30	57.52	8.92	5.56	1.90	0.00	
29	2.09	3.23	6.00	4.90	202.08	29.70	22.04	52.85	8.68	5.12	1.71	0.00	
30	1.71	6.44	5.12	5.56	113.20	28.80	23.16	30.60	8.20	4.68		0.00	
31		4.02		19.80	63.40		37.24		7.98	4.46		0.00	
Total	103.88	83.14	204.64	293.86	1214.80	1681.25	1310.69	1786.26	426.84	194.24	91.62	15.96	7407.18 CMSDAY
Mean	3.46	2.68	6.82	9.48	39.19	56.04	42.28	59.54	13.77	6.27	3.16	0.51	20.24 CMS
Max	9.40	6.44	20.64	35.70	207.26	102.50	163.40	252.64	26.10	11.38	6.66	1.71	252.64 CMS
Min	1.71	1.14	2.47	3.80	7.76	28.80	21.76	21.48	7.98	4.46	1.71	0.00	0.00 CMS
Runoff	8.975	7.183	17.681	25.390	104.959	145.260	113.244	154.333	36.879	16.782	7.916	1.379	639.980 MCM

Momentary Peak 272.43 CMS, at 12.79 M (MSL), at 19.00 Hours, on Nov 13, 1995
Runoff Yield 26.95 Liters/Second/Square KM, Momentary Peak Yield 362.756 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENNINSULA EAST COAST

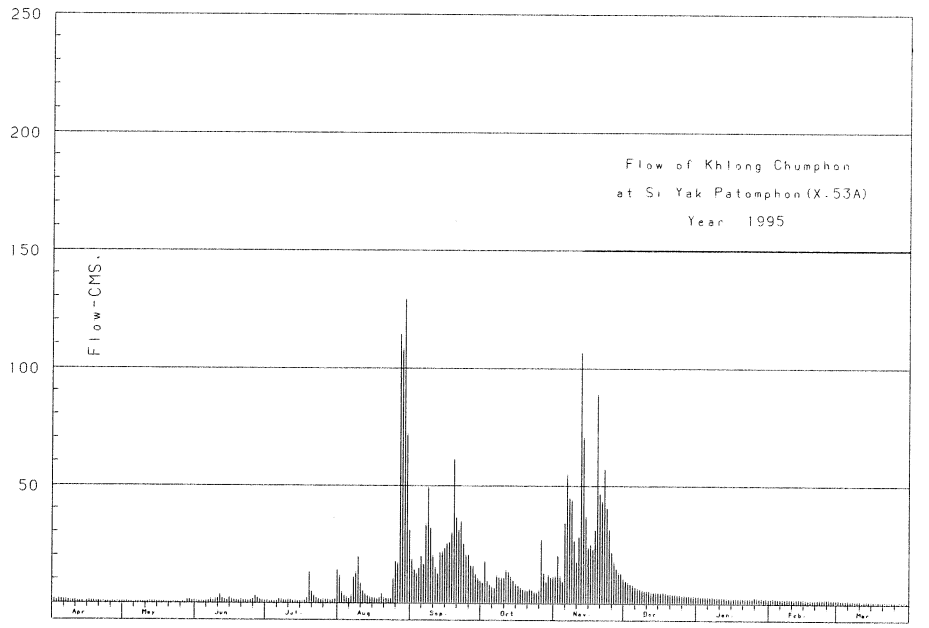
Khlong Chumphon at Ban Wang Phai, Chumphon (X.53A)

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	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.08	1.97	1.97	2.00	3.19	3.80	2.90	3.20	2.98	2.25	2.14	2.06	
2	2.02	1.96	1.99	1.99	2.47	3.43	3.75	3.95	2.91	2.24	2.14	2.05	
3	2.09	1.95	1.98	1.99	2.29	3.27	2.97	3.20	2.85	2.23	2.13	2.04	
4	2.09	1.93	1.98	1.99	2.20	3.48	2.82	2.95	2.80	2.23	2.12	2.04	
5	2.08	1.92	1.98	1.98	2.14	3.92	2.73	4.97	2.72	2.22	2.11	2.04	
6	2.07	1.92	2.02	2.10	2.30	3.64	2.69	6.22	2.67	2.22	2.10	2.03	
7	2.05	1.96	2.10	2.08	3.14	4.94	3.21	5.66	2.64	2.21	2.11	2.03	
8	1.99	1.94	2.02	2.04	3.33	5.92	3.14	5.60	2.60	2.20	2.11	2.02	
9	2.02	1.94	2.09	2.02	3.90	4.84	3.11	4.42	2.55	2.20	2.12	2.02	
10	2.00	1.95	2.15	2.05	2.86	3.92	3.11	3.72	2.54	2.19	2.11	2.02	
11	1.99	1.96	2.33	2.04	2.54	3.50	3.40	4.56	2.54	2.18	2.11	2.01	
12	1.97	1.97	2.14	2.02	2.37	3.27	3.34	8.17	2.51	2.17	2.11	2.01	
13	1.96	1.97	2.05	2.00	2.28	4.05	3.14	6.94	2.48	2.17	2.10	2.00	
14	1.95	1.96	2.05	1.99	2.22	4.06	2.99	5.15	2.47	2.16	2.10	2.00	
15	2.00	1.96	2.15	2.00	2.18	4.19	2.84	4.19	2.46	2.16	2.09	2.00	
16	2.02	1.95	2.08	1.99	2.15	4.32	2.78	4.31	2.43	2.15	2.07	1.99	
17	2.01	1.95	2.05	2.02	2.12	4.39	2.68	4.15	2.49	2.15	2.06	1.99	
18	1.99	1.94	2.02	2.14	2.17	4.68	2.62	4.78	2.42	2.15	2.06	1.99	
19	1.97	1.94	2.02	3.33	2.40	6.54	2.56	7.62	2.39	2.15	2.06	1.98	
20	1.97	1.94	2.06	2.50	2.18	5.15	2.55	5.77	2.37	2.15	2.07	1.98	
21	1.96	1.94	2.03	2.27	2.14	4.75	2.65	5.56	2.36	2.14	2.08	1.97	
22	1.96	1.93	2.02	2.17	2.11	5.02	2.58	6.34	2.35	2.14	2.09	1.97	
23	1.95	1.93	2.02	2.10	2.14	4.34	2.45	5.40	2.33	2.14	2.09	1.97	
24	1.95	1.93	2.02	2.07	3.07	3.96	2.46	4.77	2.32	2.14	2.10	1.97	
25	1.95	1.92	2.10	2.07	3.74	3.98	2.61	4.06	2.31	2.22	2.11	1.97	
26	1.95	1.92	2.26	2.08	3.67	3.58	4.46	3.72	2.30	2.17	2.09	1.96	
27	1.94	1.92	2.14	2.06	8.39	3.57	3.30	3.48	2.29	2.15	2.07	1.96	
28	1.96	2.07	2.07	2.05	8.21	3.27	2.95	3.32	2.28	2.15	2.07	1.96	
29	1.96	2.05	2.03	2.04	8.74	3.09	3.23	3.30	2.27	2.13	2.07	1.95	
30	1.96	2.02	2.01	2.09	7.00	2.97	3.12	3.06	2.26	2.13		1.95	
31		2.02		3.42	4.77		3.13		2.26	2.11		1.95	
Mean	2.00	1.96	2.06	2.15	3.37	4.13	2.98	4.75	2.49	2.17	2.10	2.00	
Max	2.09	2.07	2.33	3.42	8.74	6.54	4.46	8.17	2.98	2.25	2.14	2.06	8.74
Min	1.94	1.92	1.97	1.98	2.11	2.97	2.45	2.95	2.26	2.11	2.06	1.95	1.92

Annual Max Momentary Gage Height 9.02 M (MSL), at 6.00 Hours, on Aug 27, 1995
Zero Gage at Bottom Elevation 1.52 M (MSL), River Bed 1.24 M (MSL)
Left Bank Elevation 10.42 M (MSL)
Right Bank Elevation 9.82 M (MSL), Drainage Area 305 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.84	0.99	0.99	1.20	11.90	18.80	9.00	12.00	9.80	3.20	2.32	1.68	
2	1.36	0.92	1.13	1.13	4.96	14.53	18.20	20.60	9.10	3.12	2.32	1.60	
3	1.92	0.85	1.06	1.13	3.52	12.77	9.70	12.00	8.50	3.04	2.24	1.52	
4	1.92	0.71	1.06	1.13	2.80	15.08	8.20	9.50	8.00	3.04	2.16	1.52	
5	1.84	0.64	1.06	1.06	2.32	20.24	7.30	34.35	7.20	2.96	2.08	1.52	
6	1.76	0.64	1.36	2.00	3.60	16.88	6.90	55.00	6.70	2.96	2.00	1.44	
7	1.60	0.92	2.00	1.84	11.40	33.90	12.11	45.02	6.40	2.88	2.08	1.44	
8	1.13	0.78	1.36	1.52	13.43	49.56	11.40	44.00	6.00	2.80	2.08	1.36	
9	1.36	0.78	1.92	1.36	20.00	32.40	11.10	26.66	5.60	2.80	2.16	1.36	
10	1.20	0.85	2.40	1.60	8.60	20.24	11.10	17.84	5.52	2.72	2.08	1.36	
11	1.13	0.92	3.84	1.52	5.52	15.30	14.20	28.48	5.52	2.64	2.08	1.28	
12	0.99	0.99	2.32	1.36	4.16	12.77	13.54	106.78	5.28	2.56	2.08	1.28	
13	0.92	0.99	1.60	1.20	3.44	21.85	11.40	70.56	5.04	2.56	2.00	1.20	
14	0.85	0.92	1.60	1.13	2.96	21.98	9.90	37.05	4.96	2.48	2.00	1.20	
15	1.20	0.92	2.40	1.20	2.64	23.67	8.40	23.67	4.88	2.48	1.92	1.20	
16	1.36	0.85	1.84	1.13	2.40	25.36	7.80	25.23	4.64	2.40	1.76	1.13	
17	1.28	0.85	1.60	1.36	2.16	26.27	6.80	23.15	5.12	2.40	1.68	1.13	
18	1.13	0.78	1.36	2.32	2.56	30.12	6.20	31.52	4.56	2.40	1.68	1.13	
19	0.99	0.78	1.36	13.43	4.40	61.54	5.68	88.80	4.32	2.40	1.68	1.06	
20	0.99	0.78	1.68	5.20	2.64	37.05	5.60	46.89	4.16	2.40	1.76	1.06	
21	0.92	0.78	1.44	3.36	2.32	31.10	6.50	43.36	4.08	2.32	1.84	0.99	
22	0.92	0.71	1.36	2.56	2.08	35.10	5.84	57.40	4.00	2.32	1.92	0.99	
23	0.85	0.71	1.36	2.00	2.32	25.62	4.80	40.80	3.84	2.32	1.92	0.99	
24	0.85	0.71	1.36	1.76	10.70	20.72	4.88	31.38	3.76	2.32	2.00	0.99	
25	0.85	0.64	2.00	1.76	18.08	20.96	6.10	21.98	3.68	2.96	2.08	0.99	
26	0.85	0.64	3.28	1.84	17.24	16.18	27.18	17.84	3.60	2.56	1.92	0.92	
27	0.78	0.64	2.32	1.68	114.64	16.07	13.10	15.08	3.52	2.40	1.76	0.92	
28	0.92	1.76	1.76	1.60	108.16	12.77	9.50	13.32	3.44	2.40	1.76	0.92	
29	0.92	1.60	1.44	1.52	129.50	10.90	12.33	13.10	3.36	2.24	1.76	0.85	
30	0.92	1.36	1.28	1.92	72.00	9.70	11.20	10.60	3.28	2.24		0.85	
31		1.36		14.42	31.38		11.30		3.28	2.08		0.85	
Total	35.55	27.77	51.54	78.24	623.83	709.43	307.26	1023.96	161.14	80.40	57.12	36.73	3192.97 CMSDAY
Mean	1.18	0.90	1.72	2.52	20.12	23.65	9.91	34.13	5.20	2.59	1.97	1.18	8.72 CMS
Max	1.92	1.76	3.84	14.42	129.50	61.54	27.18	106.78	9.80	3.20	2.32	1.68	129.50 CMS
Min	0.78	0.64	0.99	1.06	2.08	9.70	4.80	9.50	3.28	2.08	1.68	0.85	0.64 CMS
Runoff	3.072	2.399	4.453	6.760	53.899	61.295	26.547	88.470	13.922	6.947	4.935	3.173	275.873 MCM

Momentary Peak 143.60 CMS, at 9.02 M (MSL), at 6.00 Hours, on Aug 27, 1995
Runoff Yield 28.60 Liters/Second/Square KM, Momentary Peak Yield 470.820 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENNINSULA EAST COAST

Khlong Tha Di at Ban Pak Prik, Nakhon Si Thammarat (X.55)

Location — Lat. 08-23-53 N., Long. 99-50-15 E., on left bank at the bridge, Ban Pak Prik, Amphoe Lan Saka, Nakhon Si Thammarat.

Drainage Area — 105 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 63.60 meters from the fourth staff gage.

Elevation — +6.833 m.(A.D.)

Gage Reading Frequency — 5-time daily readings at 06.00, 09.00, 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, 1989 to date.

Rated by Float — -

Rated by Current Meter — 1967 - 1971, 1989 to date.

Stability of Channel Regimes — Fairly stable.

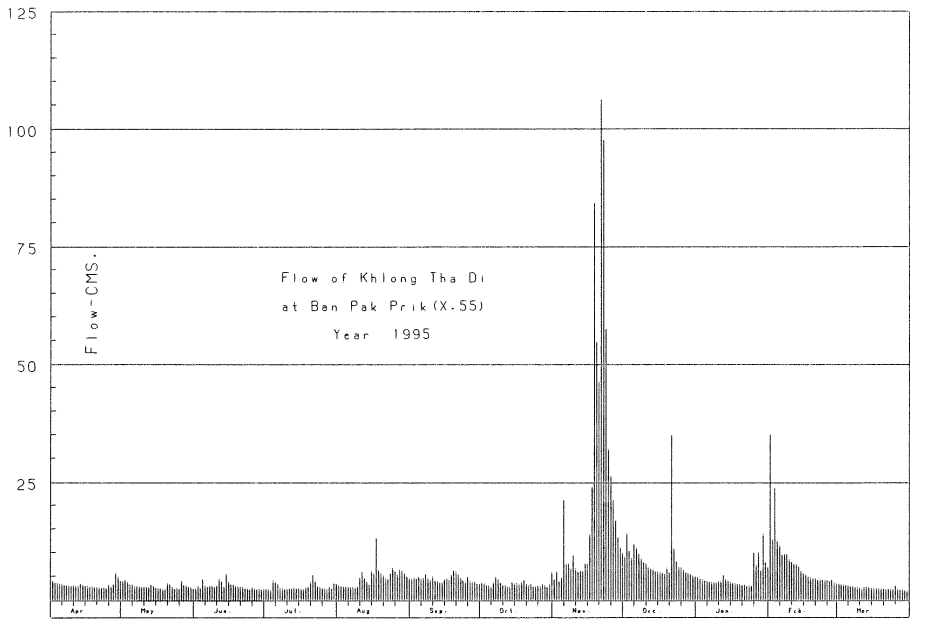
Overbank Flow Conditions — Overbank flow starts at elevation + 4.21 m.(A.D.), records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 37 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.09	1.08	0.91	0.90	1.00	1.15	1.05	1.14	1.61	1.18	3.00	1.03	
2	1.06	1.12	0.97	0.89	0.97	1.17	1.02	1.30	1.99	1.15	1.89	1.02	
3	1.04	1.06	0.93	0.88	0.95	1.16	1.00	1.08	1.71	1.13	2.51	1.01	
4	1.03	1.02	1.14	1.10	0.96	1.18	0.98	1.17	1.58	1.11	1.87	1.00	
5	1.01	1.01	0.98	1.07	0.95	1.15	0.95	2.38	1.82	1.09	1.80	0.98	
6	1.00	0.96	0.96	1.01	0.95	1.15	1.05	1.47	1.76	1.08	1.65	0.97	
7	0.99	0.97	0.97	0.93	0.94	1.26	1.19	1.48	1.66	1.07	1.65	0.96	
8	0.98	0.96	0.98	0.92	0.93	1.15	1.12	1.39	1.57	1.06	1.66	0.95	
9	0.98	0.95	0.94	0.90	0.95	1.11	1.05	1.64	1.51	1.05	1.56	0.95	
10	0.98	0.95	0.98	0.91	1.16	1.20	1.00	1.38	1.48	1.09	1.52	0.94	
11	0.97	0.94	1.13	0.91	1.31	1.10	0.98	1.31	1.41	1.09	1.47	0.93	
12	0.97	0.94	1.08	0.92	1.16	1.08	0.96	1.32	1.38	1.24	1.46	0.95	
13	1.03	1.01	0.94	0.93	1.07	1.06	0.94	1.32	1.35	1.12	1.43	0.94	
14	0.99	0.97	1.26	0.92	1.01	1.05	1.07	1.48	1.32	1.10	1.31	0.94	
15	0.98	0.94	1.08	0.91	1.31	1.13	1.03	1.48	1.30	1.07	1.27	0.93	
16	0.97	0.92	1.02	0.90	1.27	1.14	1.05	1.97	1.29	1.05	1.24	0.92	
17	0.96	0.92	1.00	0.90	1.92	1.12	1.02	2.52	1.28	1.04	1.20	0.92	
18	0.96	0.91	0.97	0.93	1.34	1.23	1.05	4.19	1.25	1.03	1.18	0.92	
19	0.95	0.90	0.96	0.95	1.28	1.34	1.12	3.62	1.40	1.01	1.16	0.91	
20	0.94	1.04	0.96	1.06	1.22	1.32	1.02	3.37	1.29	1.00	1.15	0.91	
21	0.94	1.02	0.95	1.24	1.15	1.25	1.00	4.47	3.00	1.00	1.12	0.90	
22	0.93	0.94	0.93	1.10	1.14	1.16	1.02	4.37	1.75	0.98	1.15	0.90	
23	0.93	0.91	0.91	0.97	1.28	1.11	0.96	3.69	1.53	0.98	1.13	0.90	
24	0.92	0.93	0.90	0.94	1.39	1.08	0.96	2.88	1.42	0.98	1.11	0.90	
25	1.00	0.91	0.95	0.92	1.32	1.19	0.98	2.63	1.42	1.68	1.12	0.99	
26	0.95	1.09	0.91	0.92	1.23	1.09	0.96	2.38	1.34	1.45	1.08	0.90	
27	1.01	1.00	0.90	0.91	1.35	1.08	1.02	2.15	1.30	1.68	1.13	0.89	
28	1.28	0.98	0.90	0.95	1.34	1.07	0.99	1.93	1.27	1.34	1.06	0.88	
29	1.19	0.96	0.90	0.91	1.26	1.03	0.95	1.76	1.26	1.98	1.04	0.87	
30	1.10	0.93	0.90	1.04	1.20	1.01	1.02	1.67	1.21	1.51		0.87	
31		0.91		1.02	1.15		1.29		1.20	1.40		0.86	
Mean	1.00	0.97	0.98	0.96	1.18	1.14	1.03	2.16	1.51	1.19	1.45	0.93	
Max	1.28	1.12	1.26	1.24	1.92	1.34	1.29	4.47	3.00	1.98	3.00	1.03	4.47
Min	0.92	0.90	0.90	0.88	0.93	1.01	0.94	1.08	1.20	0.98	1.04	0.86	0.86

Annual Max Momentary Gage Height 5.66 M (AD), at 15.00 Hours, on Nov 21, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.53 M (AD)
Left Bank Elevation 4.70 M (AD)
Right Bank Elevation 4.20 M (AD), Drainage Area 105 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.21	4.12	2.59	2.50	3.40	4.75	3.85	4.66	9.33	5.02	35.20	3.67	
2	3.94	4.48	3.13	2.41	3.13	4.93	3.58	6.10	14.27	4.75	12.97	3.58	
3	3.76	3.94	2.77	2.32	2.95	4.84	3.40	4.12	10.63	4.57	24.00	3.49	
4	3.67	3.58	4.66	4.30	3.04	5.02	3.22	4.93	8.98	4.39	12.71	3.40	
5	3.49	3.49	3.22	4.03	2.95	4.75	2.95	21.42	12.06	4.21	11.80	3.22	
6	3.40	3.04	3.04	3.49	2.95	4.75	3.85	7.77	11.28	4.12	9.85	3.13	
7	3.31	3.13	3.13	2.77	2.86	5.74	5.11	7.88	9.98	4.03	9.85	3.04	
8	3.22	3.04	3.22	2.68	2.77	4.75	4.48	6.91	8.87	3.94	9.98	2.95	
9	3.22	2.95	2.86	2.50	2.95	4.39	3.85	9.72	8.21	3.85	8.76	2.95	
10	3.22	2.95	3.22	2.59	4.84	5.20	3.40	6.82	7.88	4.21	8.32	2.86	
11	3.13	2.86	4.57	2.59	6.19	4.30	3.22	6.19	7.11	4.21	7.77	2.77	
12	3.13	2.86	4.12	2.68	4.84	4.12	3.04	6.28	6.82	5.56	7.66	2.95	
13	3.67	3.49	2.86	2.77	4.03	3.94	2.86	6.28	6.55	4.48	7.33	2.86	
14	3.31	3.13	5.74	2.68	3.49	3.85	4.03	7.88	6.28	4.30	6.19	2.86	
15	3.22	2.86	4.12	2.59	6.19	4.57	3.67	7.88	6.10	4.03	5.83	2.77	
16	3.13	2.68	3.58	2.50	5.83	4.66	3.85	14.01	6.01	3.85	5.56	2.68	
17	3.04	2.68	3.40	2.50	13.36	4.48	3.58	24.20	5.92	3.76	5.20	2.68	
18	3.04	2.59	3.13	2.77	6.46	5.47	3.85	84.36	5.65	3.67	5.02	2.68	
19	2.95	2.50	3.04	2.95	5.92	6.46	4.48	54.82	7.00	3.49	4.84	2.59	
20	2.86	3.76	3.04	3.94	5.38	6.28	3.58	46.44	6.01	3.40	4.75	2.59	
21	2.86	3.58	2.95	5.56	4.75	5.65	3.40	106.30	35.20	3.40	4.48	2.50	
22	2.77	2.86	2.77	4.30	4.66	4.84	3.58	97.75	11.15	3.22	4.75	2.50	
23	2.77	2.59	2.59	3.13	5.92	4.39	3.04	57.69	8.43	3.22	4.57	2.50	
24	2.68	2.77	2.50	2.86	6.91	4.12	3.04	32.08	7.22	3.22	4.39	2.50	
25	3.40	2.59	2.95	2.68	6.28	5.11	3.22	26.43	7.22	10.24	4.48	3.31	
26	2.95	4.21	2.59	2.68	5.47	4.21	3.04	21.42	6.46	7.55	4.12	2.50	
27	3.49	3.40	2.50	2.59	6.55	4.12	3.58	17.10	6.10	10.24	4.57	2.41	
28	5.92	3.22	2.50	2.95	6.46	4.03	3.31	13.49	5.83	6.46	3.94	2.32	
29	5.11	3.04	2.50	2.59	5.74	3.67	2.95	11.28	5.74	14.14	3.76	2.23	
30	4.30	2.77	2.50	3.76	5.20	3.49	3.58	10.11	5.29	8.21		2.23	
31		2.59		3.58	4.75		6.01		5.20	7.00		2.14	
Total	103.17	97.75	95.79	94.24	156.22	140.88	112.60	732.32	268.78	160.74	242.65	86.86	2292.00 CMSDAY
Mean	3.44	3.15	3.19	3.04	5.04	4.70	3.63	24.41	8.67	5.19	8.37	2.80	6.26 CMS
Max	5.92	4.48	5.74	5.56	13.36	6.46	6.01	106.30	35.20	14.14	35.20	3.67	106.30 CMS
Min	2.68	2.50	2.50	2.32	2.77	3.49	2.86	4.12	5.20	3.22	3.76	2.14	2.14 CMS
Runoff	8.914	8.446	8.276	8.142	13.497	12.172	9.729	63.272	23.223	13.888	20.965	7.505	198.029 MCM

Momentary Peak 307.20 CMS, at 5.66 M (AD), at 15.00 Hours, on Nov 21, 1995
Runoff Yield 59.64 Liters/Second/Square KM, Momentary Peak Yield 2925.714 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

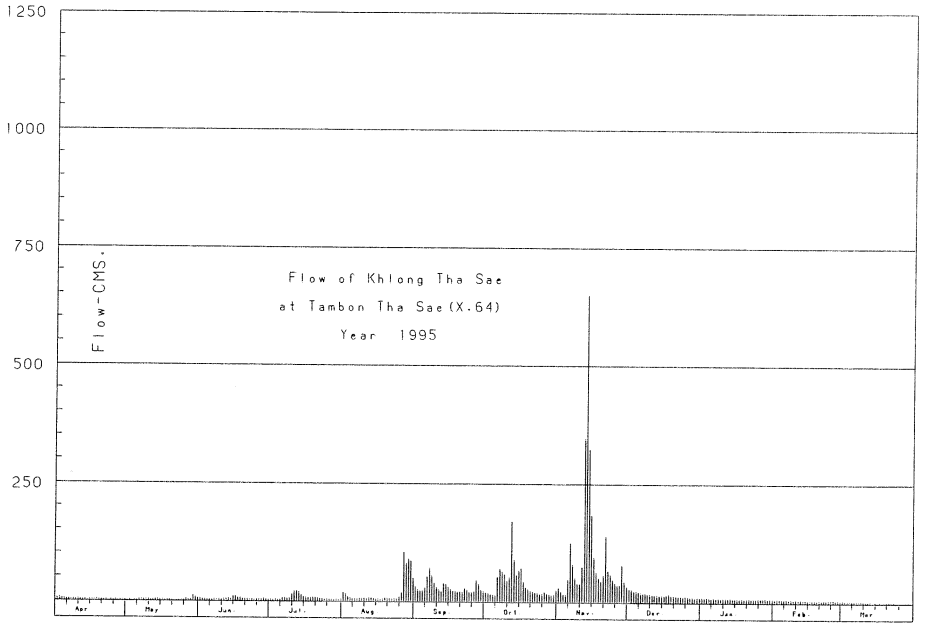
Khlong Tha Sae at Tha Sae, Chumphon (X.64)

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	Overbank flow starts at elevation +17.05 m.(M.S.L.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 44 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.32	8.14	8.27	8.21	8.90	9.46	8.94	9.35	9.26	8.49	8.33	8.23	
2	8.38	8.14	8.24	8.20	8.75	9.17	8.85	8.99	9.17	8.49	8.35	8.22	
3	8.30	8.14	8.22	8.21	8.50	9.09	8.78	8.80	9.07	8.48	8.34	8.21	
4	8.25	8.14	8.22	8.20	8.40	9.06	8.72	8.73	9.05	8.46	8.34	8.21	
5	8.22	8.12	8.21	8.21	8.34	9.34	8.70	10.01	9.02	8.44	8.33	8.21	
6	8.21	8.19	8.20	8.38	8.32	10.20	10.19	12.31	8.94	8.44	8.33	8.21	
7	8.20	8.22	8.21	8.36	8.32	10.78	10.76	11.03	8.90	8.44	8.32	8.21	
8	8.20	8.17	8.20	8.32	8.32	10.24	10.54	10.11	8.88	8.43	8.32	8.20	
9	8.21	8.22	8.21	8.33	8.36	9.73	10.38	9.71	8.84	8.43	8.31	8.20	
10	8.22	8.20	8.21	8.73	8.34	9.35	9.90	9.65	8.80	8.42	8.30	8.19	
11	8.20	8.17	8.24	8.95	8.35	9.17	10.14	10.90	8.78	8.42	8.29	8.18	
12	8.19	8.20	8.27	9.01	8.40	9.04	13.35	15.80	8.76	8.41	8.28	8.17	
13	8.19	8.23	8.29	8.91	8.40	9.70	11.31	17.25	8.74	8.41	8.27	8.16	
14	8.19	8.21	8.26	8.68	8.33	9.62	10.33	15.57	8.70	8.40	8.26	8.15	
15	8.19	8.19	8.51	8.50	8.30	9.43	10.63	13.62	8.69	8.40	8.26	8.14	
16	8.19	8.18	8.50	8.42	8.29	9.21	10.81	11.48	8.69	8.39	8.25	8.14	
17	8.20	8.16	8.38	8.40	8.26	9.07	9.80	10.53	8.75	8.39	8.25	8.13	
18	8.20	8.15	8.34	8.39	8.28	9.04	9.40	10.09	8.80	8.38	8.24	8.13	
19	8.18	8.14	8.28	8.44	8.40	8.99	9.21	9.87	8.69	8.38	8.24	8.13	
20	8.17	8.14	8.24	8.39	8.33	8.97	9.10	10.30	8.65	8.37	8.25	8.13	
21	8.16	8.14	8.24	8.37	8.34	8.95	9.00	12.63	8.64	8.37	8.25	8.13	
22	8.16	8.13	8.23	8.33	8.32	9.30	8.96	10.65	8.62	8.37	8.27	8.13	
23	8.16	8.12	8.21	8.29	8.30	9.14	8.88	10.34	8.60	8.37	8.27	8.13	
24	8.15	8.19	8.19	8.27	8.32	8.97	8.82	10.01	8.58	8.38	8.28	8.13	
25	8.15	8.16	8.23	8.26	8.49	8.91	8.80	9.72	8.58	8.38	8.28	8.12	
26	8.14	8.25	8.24	8.24	8.90	9.03	9.00	9.54	8.55	8.40	8.27	8.12	
27	8.14	8.20	8.26	8.24	11.77	9.93	8.84	9.60	8.53	8.42	8.26	8.12	
28	8.14	8.18	8.29	8.23	11.08	9.62	8.76	11.02	8.52	8.40	8.25	8.12	
29	8.16	8.61	8.24	8.23	11.36	9.17	8.72	9.82	8.50	8.38	8.24	8.12	
30	8.17	8.42	8.21	8.23	11.28	9.02	8.74	9.43	8.50	8.37		8.12	
31		8.34		8.25	10.04		9.14		8.50	8.34		8.11	
Mean	8.20	8.20	8.26	8.39	8.84	9.36	9.60	10.90	8.75	8.41	8.28	8.16	
Max	8.38	8.61	8.51	9.01	11.77	10.78	13.35	17.25	9.26	8.49	8.35	8.23	17.25
Min	8.14	8.12	8.19	8.20	8.26	8.91	8.70	8.73	8.50	8.34	8.24	8.11	8.11

Annual Max Momentary Gage Height 17.46 M (MSL), at 9.00 Hours, on Nov 13, 1995
Zero Gage at Bottom Elevation 8.04 M (MSL), River Bed 7.60 M (MSL)
Left Bank Elevation 17.04 M (MSL)
Right Bank Elevation 17.39 M (MSL), Drainage Area 957 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.52	2.80	5.47	4.21	19.70	33.56	20.66	30.75	28.50	10.18	6.73	4.63	
2	7.78	2.80	4.84	4.00	16.10	26.27	18.50	21.86	26.27	10.18	7.15	4.42	
3	6.10	2.80	4.42	4.21	10.40	24.31	16.82	17.30	23.81	9.96	6.94	4.21	
4	5.05	2.80	4.42	4.00	8.20	23.57	15.38	15.62	23.33	9.52	6.94	4.21	
5	4.42	2.40	4.21	4.21	6.94	30.50	14.90	48.49	22.59	9.08	6.73	4.21	
6	4.21	3.80	4.00	7.78	6.52	54.00	53.71	126.20	20.66	9.08	6.73	4.21	
7	4.00	4.42	4.21	7.36	6.52	71.48	70.86	79.36	19.70	9.08	6.52	4.21	
8	4.00	3.40	4.00	6.52	6.52	55.20	64.20	51.39	19.22	8.86	6.52	4.00	
9	4.21	4.42	4.21	6.73	7.36	40.71	59.40	40.17	18.26	8.86	6.31	4.00	
10	4.42	4.00	4.21	15.62	6.94	30.75	45.40	38.55	17.30	8.64	6.10	3.80	
11	4.00	3.40	4.84	20.90	7.15	26.27	52.26	75.20	16.82	8.64	5.89	3.60	
12	3.80	4.00	5.47	22.35	8.20	23.08	172.10	347.00	16.34	8.42	5.68	3.40	
13	3.80	4.63	5.89	19.94	8.20	39.90	88.76	651.00	15.86	8.42	5.47	3.20	
14	3.80	4.21	5.26	14.44	6.73	37.74	57.90	324.98	14.90	8.20	5.26	3.00	
15	3.80	3.80	10.62	10.40	6.10	32.78	66.90	185.80	14.67	8.20	5.26	2.80	
16	3.80	3.60	10.40	8.64	5.89	27.25	72.41	94.96	14.67	7.99	5.05	2.80	
17	4.00	3.20	7.78	8.20	5.26	23.81	42.60	63.90	16.10	7.99	5.05	2.60	
18	4.00	3.00	6.94	7.99	5.68	23.08	32.00	50.81	17.30	7.78	4.84	2.60	
19	3.60	2.80	5.68	9.08	8.20	21.86	27.25	44.56	14.67	7.78	4.84	2.60	
20	3.40	2.80	4.84	7.99	6.73	21.38	24.55	57.00	13.75	7.57	5.05	2.60	
21	3.20	2.80	4.84	7.57	6.94	20.90	22.10	139.52	13.52	7.57	5.05	2.60	
22	3.20	2.60	4.63	6.73	6.52	29.50	21.14	67.50	13.06	7.57	5.47	2.60	
23	3.20	2.40	4.21	5.89	6.10	25.53	19.22	58.20	12.60	7.57	5.47	2.60	
24	3.00	3.80	3.80	5.47	6.52	21.38	17.78	48.49	12.16	7.78	5.68	2.60	
25	3.00	3.20	4.63	5.26	10.18	19.94	17.30	40.44	12.16	7.78	5.68	2.40	
26	2.80	5.05	4.84	4.84	19.70	22.83	22.10	35.64	11.50	8.20	5.47	2.40	
27	2.80	4.00	5.26	4.84	105.69	46.24	18.26	37.20	11.06	8.64	5.26	2.40	
28	2.80	3.60	5.89	4.63	80.96	37.74	16.34	79.04	10.84	8.20	5.05	2.40	
29	3.20	12.83	4.84	4.63	90.56	26.27	15.38	43.16	10.40	7.78	4.84	2.40	
30	3.40	8.64	4.21	4.63	87.68	22.59	15.86	32.78	10.40	7.57		2.40	
31		6.94		5.05	49.36		25.53		10.40	6.94		2.20	
Total	119.31	124.94	158.86	254.11	633.55	940.42	1227.57	2946.87	502.82	260.03	167.03	98.10	7433.61 CMSDAY
Mean	3.98	4.03	5.30	8.20	20.44	31.35	39.60	98.23	16.22	8.39	5.76	3.16	20.31 CMS
Max	7.78	12.83	10.62	22.35	105.69	71.48	172.10	651.00	28.50	10.18	7.15	4.63	651.00 CMS
Min	2.80	2.40	3.80	4.00	5.26	19.94	14.90	15.62	10.40	6.94	4.84	2.20	2.20 CMS
Runoff	10.308	10.795	13.726	21.955	54.739	81.252	106.062	254.610	43.444	22.467	14.431	8.476	642.264 MCM

Momentary Peak 735.60 CMS, at 17.46 M (MSL), at 9.00 Hours, on Nov 13, 1995
Runoff Yield 21.22 Liters/Second/Square KM, Momentary Peak Yield 768.652 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

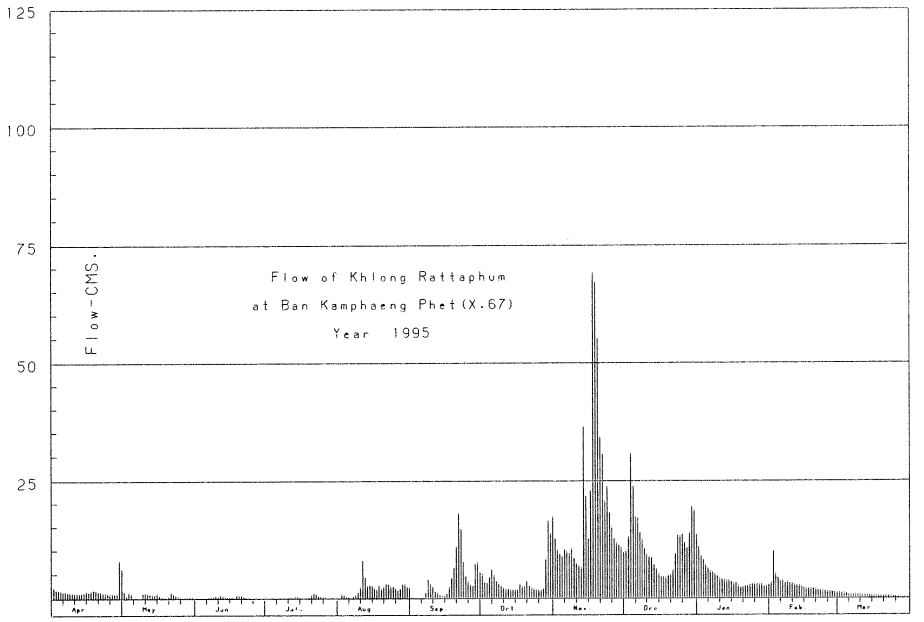
Khlong Rattaphum at Ban Kamphaeng Phet, Songkhla (X.67)

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 fair. Flow regulated by Rattaphum Weir. Stage-discharge relation defined by 28 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.88	17.71	17.21	17.10	17.20	17.21	18.28	18.80	18.64	18.70	18.09	17.63	
2	17.80	17.41	17.22	17.10	17.55	17.14	18.10	18.66	18.82	18.59	18.65	17.62	
3	17.77	17.64	17.25	17.11	17.46	17.10	18.08	18.61	19.61	18.53	18.29	17.62	
4	17.75	17.54	17.18	17.11	17.31	17.10	18.22	18.58	19.33	18.45	18.21	17.59	
5	17.70	17.20	17.20	17.12	17.25	17.10	18.37	18.67	19.04	18.39	18.13	17.50	
6	17.70	17.18	17.30	17.12	17.24	17.21	18.25	18.64	19.03	18.34	18.15	17.50	
7	17.64	17.16	17.26	17.14	17.33	17.63	18.13	18.62	18.87	18.33	18.08	17.50	
8	17.63	17.19	17.35	17.19	17.46	18.17	18.04	18.68	18.78	18.28	18.12	17.51	
9	17.63	17.57	17.39	17.25	17.64	18.06	17.96	18.55	18.68	18.24	18.07	17.50	
10	17.60	17.60	17.35	17.27	17.91	17.90	17.88	18.47	18.60	18.20	18.05	17.49	
11	17.58	17.57	17.44	17.25	18.52	17.71	17.85	18.43	18.57	18.17	18.01	17.47	
12	17.57	17.53	17.39	17.24	18.22	17.63	17.83	18.40	18.56	18.16	17.99	17.45	
13	17.56	17.47	17.31	17.35	17.99	17.49	17.80	19.82	18.45	18.15	17.98	17.44	
14	17.63	17.46	17.28	17.34	17.99	17.39	17.80	19.24	18.37	18.15	17.95	17.42	
15	17.71	17.57	17.27	17.19	17.98	17.40	17.79	18.80	18.29	18.11	17.89	17.40	
16	17.66	17.36	17.26	17.15	17.89	17.56	17.78	19.29	18.24	18.06	17.85	17.40	
17	17.71	17.30	17.28	17.15	17.81	17.90	18.03	20.73	18.23	18.08	17.85	17.39	
18	17.79	17.25	17.44	17.23	17.98	18.20	17.92	20.68	18.21	17.97	17.85	17.38	
19	17.76	17.26	17.41	17.40	17.83	18.40	17.96	20.39	18.25	17.90	17.85	17.37	
20	17.71	17.34	17.43	17.45	17.95	18.70	18.12	19.74	18.26	17.90	17.84	17.37	
21	17.66	17.66	17.44	17.59	18.05	19.08	17.97	19.61	18.35	17.96	17.80	17.37	
22	17.61	17.53	17.28	17.53	18.03	18.91	17.88	19.19	18.62	17.96	17.78	17.37	
23	17.57	17.44	17.21	17.37	17.94	18.49	17.84	19.33	18.84	18.00	17.76	17.37	
24	17.54	17.38	17.14	17.34	17.94	18.24	17.81	19.08	18.83	18.03	17.73	17.34	
25	17.53	17.30	17.13	17.30	17.85	18.11	17.78	18.93	18.85	18.05	17.70	17.34	
26	17.54	17.27	17.10	17.27	17.74	18.00	17.75	18.80	18.75	18.03	17.70	17.30	
27	17.53	17.26	17.10	17.23	17.84	17.97	17.85	18.75	18.69	18.03	17.69	17.30	
28	17.55	17.30	17.10	17.22	18.03	18.46	18.53	18.72	18.87	18.03	17.66	17.27	
29	18.52	17.30	17.10	17.18	18.03	18.48	19.00	18.69	19.14	17.95	17.64	17.26	
30	18.38	17.25	17.11	17.15	17.92	18.32	18.86	18.63	19.11	17.96		17.29	
31		17.20		17.15	17.87		19.04		18.85	18.02		17.28	
Mean	17.71	17.39	17.26	17.24	17.80	17.90	18.08	19.05	18.70	18.15	17.94	17.42	
Max	18.52	17.71	17.44	17.59	18.52	19.08	19.04	20.73	19.61	18.70	18.65	17.63	20.73
Min	17.53	17.16	17.10	17.10	17.20	17.10	17.75	18.40	18.21	17.90	17.64	17.26	17.10

Annual Max Momentary Gage Height 20.86 M (MSL), at 8.00 Hours, on Nov 17, 1995
Zero Gage at Bottom Elevation 16.00 M (MSL), River Bed 16.90 M (MSL)
Left Bank Elevation 22.28 M (MSL)
Right Bank Elevation 22.24 M (MSL), Drainage Area 272 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.30	1.54	0.22	0.10	0.20	0.22	5.20	12.80	9.98	11.00	3.44	1.29	
2	1.90	0.63	0.24	0.10	1.05	0.14	3.50	10.32	13.16	9.16	10.15	1.26	
3	1.78	1.32	0.30	0.11	0.78	0.10	3.38	9.47	30.77	8.32	5.30	1.26	
4	1.70	1.02	0.18	0.11	0.42	0.10	4.60	9.02	23.89	7.25	4.50	1.17	
5	1.50	0.20	0.20	0.12	0.30	0.10	6.24	10.49	17.44	6.48	3.77	0.90	
6	1.50	0.18	0.40	0.12	0.28	0.22	4.90	9.98	17.23	5.88	3.95	0.90	
7	1.32	0.16	0.32	0.14	0.46	1.29	3.77	9.64	14.06	5.76	3.38	0.90	
8	1.29	0.19	0.50	0.19	0.78	4.13	3.14	10.66	12.44	5.20	3.68	0.93	
9	1.29	1.11	0.58	0.30	1.32	3.26	2.70	8.60	10.66	4.80	3.32	0.90	
10	1.20	1.20	0.50	0.34	2.45	2.40	2.30	7.51	9.30	4.40	3.20	0.87	
11	1.14	1.11	0.72	0.30	8.18	1.54	2.15	6.99	8.88	4.13	2.96	0.81	
12	1.11	0.99	0.58	0.28	4.60	1.29	2.05	6.60	8.74	4.04	2.85	0.75	
13	1.08	0.81	0.42	0.50	2.85	0.87	1.90	36.56	7.25	3.95	2.80	0.72	
14	1.29	0.78	0.36	0.48	2.85	0.58	1.90	21.82	6.24	3.95	2.65	0.66	
15	1.54	1.11	0.34	0.19	2.80	0.60	1.86	12.80	5.30	3.59	2.35	0.60	
16	1.38	0.52	0.32	0.15	2.35	1.08	1.82	22.97	4.80	3.26	2.15	0.60	
17	1.54	0.40	0.36	0.15	1.95	2.40	3.08	69.38	4.70	3.38	2.15	0.58	
18	1.86	0.30	0.72	0.26	2.80	4.40	2.50	67.14	4.50	2.75	2.15	0.56	
19	1.74	0.32	0.63	0.60	2.05	6.60	2.70	55.33	4.90	2.40	2.15	0.54	
20	1.54	0.48	0.69	0.75	2.65	11.00	3.68	34.32	5.00	2.40	2.10	0.54	
21	1.38	1.38	0.72	1.17	3.20	18.28	2.75	30.77	6.00	2.70	1.90	0.54	
22	1.23	0.99	0.36	0.99	3.08	14.80	2.30	20.68	9.64	2.70	1.82	0.54	
23	1.11	0.72	0.22	0.54	2.60	7.77	2.10	23.89	13.52	2.90	1.74	0.54	
24	1.02	0.56	0.14	0.48	2.60	4.80	1.95	18.28	13.34	3.08	1.62	0.48	
25	0.99	0.40	0.13	0.40	2.15	3.59	1.82	15.20	13.70	3.20	1.50	0.48	
26	1.02	0.34	0.10	0.34	1.66	2.90	1.70	12.80	11.90	3.08	1.50	0.40	
27	0.99	0.32	0.10	0.26	2.10	2.75	2.15	11.90	10.83	3.08	1.47	0.40	
28	1.05	0.40	0.10	0.24	3.08	7.38	8.32	11.36	14.06	3.08	1.38	0.34	
29	8.18	0.40	0.10	0.18	3.08	7.64	16.60	10.83	19.58	2.65	1.32	0.32	
30	6.36	0.30	0.11	0.15	2.50	5.64	13.88	9.81	18.92	2.70		0.38	
31		0.20		0.15	2.25		17.44		13.70	3.02		0.36	
Total	53.33	20.38	10.66	10.19	69.42	117.87	134.38	597.92	364.43	134.29	83.25	21.52	1617.64 CMSDAY
Mean	1.78	0.66	0.36	0.33	2.24	3.93	4.33	19.93	11.76	4.33	2.87	0.69	4.42 CMS
Max	8.18	1.54	0.72	1.17	8.18	18.28	17.44	69.38	30.77	11.00	10.15	1.29	69.38 CMS
Min	0.99	0.16	0.10	0.10	0.20	0.10	1.70	6.60	4.50	2.40	1.32	0.32	0.10 CMS
Runoff	4.608	1.761	0.921	0.880	5.998	10.184	11.610	51.660	31.487	11.603	7.193	1.859	139.764 MCM

Momentary Peak 75.48 CMS, at 20.86 M (MSL), at 8.00 Hours, on Nov 17, 1995

Runoff Yield 16.25 Liters/Second/Square KM, Momentary Peak Yield 277.500 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

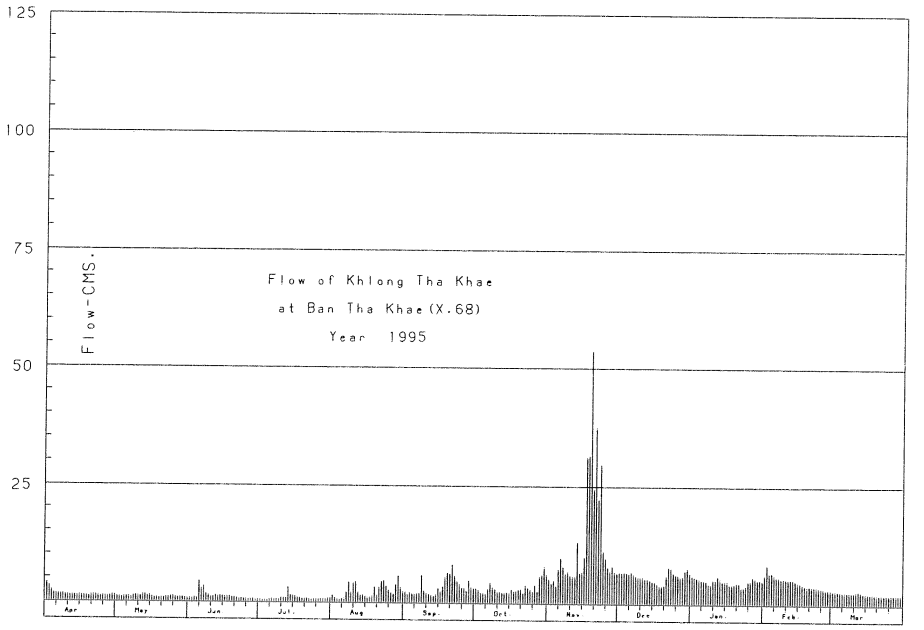
Khlong Tha Khae at Ban Tha Khae, Phatthalung (X.68)

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.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Tha Khae weir. Stage-discharge relation defined by 27 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.00	12.54	12.47	12.40	12.63	12.75	12.88	13.15	13.34	13.26	13.27	12.85	
2	12.91	12.52	12.46	12.38	12.50	12.68	12.83	13.04	13.34	13.22	13.52	12.84	
3	12.77	12.51	12.50	12.38	12.45	12.73	12.74	13.11	13.34	13.21	13.32	12.84	
4	12.67	12.53	12.50	12.38	12.41	12.69	12.72	12.96	13.34	13.17	13.35	12.82	
5	12.65	12.54	13.07	12.42	12.45	12.68	12.70	13.41	13.30	13.15	13.28	12.81	
6	12.64	12.53	12.84	12.43	12.49	12.68	12.86	13.65	13.36	13.13	13.23	12.81	
7	12.63	12.50	12.90	12.42	12.74	12.71	13.05	13.47	13.29	13.13	13.22	12.81	
8	12.63	12.55	12.66	12.41	13.06	13.25	12.90	13.30	13.26	13.03	13.19	12.80	
9	12.61	12.59	12.59	12.42	12.72	12.79	12.86	13.36	13.21	13.03	13.19	12.80	
10	12.59	12.56	12.54	12.49	13.01	12.71	12.77	13.26	13.22	13.16	13.18	12.80	
11	12.58	12.55	12.53	12.49	13.07	12.68	12.76	13.23	13.23	13.14	13.16	12.82	
12	12.58	12.63	12.61	12.48	12.73	12.62	12.75	13.23	13.18	13.25	13.18	12.85	
13	12.57	12.61	12.55	12.89	12.63	12.60	12.72	13.92	13.17	13.18	13.16	12.81	
14	12.57	12.56	12.59	12.63	12.63	12.65	12.76	13.33	13.15	13.11	13.13	12.78	
15	12.58	12.59	12.56	12.60	12.57	12.88	12.73	13.34	13.10	13.12	13.09	12.76	
16	12.57	12.51	12.53	12.57	12.55	12.76	12.84	13.67	13.10	13.12	13.08	12.75	
17	12.57	12.50	12.55	12.51	12.54	12.93	12.80	14.90	13.03	13.02	13.02	12.75	
18	12.55	12.48	12.54	12.49	12.58	13.19	12.80	14.91	12.98	13.01	13.00	12.74	
19	12.53	12.47	12.52	12.46	12.91	13.31	12.85	15.67	12.97	13.04	12.97	12.73	
20	12.60	12.47	12.50	12.45	12.62	13.29	12.85	14.58	13.00	13.06	12.99	12.72	
21	12.60	12.50	12.47	12.47	12.89	13.51	12.73	15.14	13.24	13.07	12.97	12.72	
22	12.60	12.53	12.45	12.42	13.08	13.23	12.97	14.48	13.47	12.92	12.97	12.71	
23	12.58	12.51	12.45	12.42	13.09	13.09	12.91	14.84	13.44	12.94	12.95	12.71	
24	12.54	12.56	12.43	12.42	12.94	13.00	12.84	13.77	13.34	12.97	12.94	12.71	
25	12.55	12.56	12.43	12.42	12.80	12.90	12.80	13.65	13.29	13.12	12.93	12.71	
26	12.54	12.51	12.43	12.44	12.71	12.88	12.98	13.46	13.27	13.12	12.90	12.71	
27	12.55	12.50	12.43	12.45	12.68	12.81	12.80	13.36	13.23	13.23	12.88	12.71	
28	12.56	12.49	12.42	12.44	12.98	13.12	13.22	13.48	13.23	13.19	12.87	12.71	
29	12.59	12.51	12.40	12.44	13.23	12.90	13.27	13.35	13.39	13.15	12.86	12.71	
30	12.58	12.48	12.40	12.46	12.89	12.87	13.47	13.32	13.44	13.15		12.71	
31		12.47		12.48	12.76		13.27		13.32	13.13		12.70	
Mean	12.62	12.53	12.54	12.47	12.75	12.90	12.88	13.74	13.24	13.11	13.10	12.76	
Max	13.00	12.63	13.07	12.89	13.23	13.51	13.47	15.67	13.47	13.26	13.52	12.85	15.67
Min	12.53	12.47	12.40	12.38	12.41	12.60	12.70	12.96	12.97	12.92	12.86	12.70	12.38

Annual Max Momentary Gage Height 15.83 M (MSL), at 18.00 Hours, on Nov 19, 1995
Zero Gage at Bottom Elevation 11.80 M (MSL), River Bed 11.09 M (MSL)
Left Bank Elevation 15.88 M (MSL)
Right Bank Elevation 16.20 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.10	1.30	0.98	0.70	1.75	2.40	3.26	5.20	6.72	6.08	6.16	3.05	
2	3.47	1.20	0.94	0.62	1.10	2.00	2.91	4.38	6.72	5.76	8.40	2.98	
3	2.52	1.15	1.10	0.62	0.90	2.28	2.34	4.88	6.72	5.68	6.56	2.98	
4	1.95	1.25	1.10	0.62	0.74	2.05	2.22	3.82	6.72	5.36	6.80	2.84	
5	1.85	1.30	4.59	0.78	0.90	2.00	2.10	7.30	6.40	5.20	6.24	2.77	
6	1.80	1.25	2.98	0.82	1.06	2.00	3.12	9.75	6.88	5.04	5.84	2.77	
7	1.75	1.10	3.40	0.78	2.34	2.16	4.45	7.90	6.32	5.04	5.76	2.77	
8	1.75	1.35	1.90	0.74	4.52	6.00	3.40	6.40	6.08	4.31	5.52	2.70	
9	1.65	1.55	1.55	0.78	2.22	2.64	3.12	6.88	5.68	4.31	5.52	2.70	
10	1.55	1.40	1.30	1.06	4.17	2.16	2.52	6.08	5.76	5.28	5.44	2.70	
11	1.50	1.35	1.25	1.06	4.59	2.00	2.46	5.84	5.84	5.12	5.28	2.84	
12	1.50	1.75	1.65	1.02	2.28	1.70	2.40	5.84	5.44	6.00	5.44	3.05	
13	1.45	1.65	1.35	3.33	1.75	1.60	2.22	13.08	5.36	5.44	5.28	2.77	
14	1.45	1.40	1.55	1.75	1.75	1.85	2.46	6.64	5.20	4.88	5.04	2.58	
15	1.50	1.55	1.40	1.60	1.45	3.26	2.28	6.72	4.80	4.96	4.73	2.46	
16	1.45	1.15	1.25	1.45	1.35	2.46	2.98	9.97	4.80	4.96	4.66	2.40	
17	1.45	1.10	1.35	1.15	1.30	3.61	2.70	31.20	4.31	4.24	4.24	2.40	
18	1.35	1.02	1.30	1.06	1.50	5.52	2.70	31.46	3.96	4.17	4.10	2.34	
19	1.25	0.98	1.20	0.94	3.47	6.48	3.05	53.78	3.89	4.38	3.89	2.28	
20	1.60	0.98	1.10	0.90	1.70	6.32	3.05	24.30	4.10	4.52	4.03	2.22	
21	1.60	1.10	0.98	0.98	3.33	8.30	2.28	37.52	5.92	4.59	3.89	2.22	
22	1.60	1.25	0.90	0.78	4.66	5.84	3.89	22.32	7.90	3.54	3.89	2.16	
23	1.50	1.15	0.90	0.78	4.73	4.73	3.47	29.76	7.60	3.68	3.75	2.16	
24	1.30	1.40	0.82	0.78	3.68	4.10	2.98	11.14	6.72	3.89	3.68	2.16	
25	1.35	1.40	0.82	0.78	2.70	3.40	2.70	9.75	6.32	4.96	3.61	2.16	
26	1.30	1.15	0.82	0.86	2.16	3.26	3.96	7.80	6.16	4.96	3.40	2.16	
27	1.35	1.10	0.82	0.90	2.00	2.77	2.70	6.88	5.84	5.84	3.26	2.16	
28	1.40	1.06	0.78	0.86	3.96	4.96	5.76	8.00	5.84	5.52	3.19	2.16	
29	1.55	1.15	0.70	0.86	5.84	3.40	6.16	6.80	7.12	5.20	3.12	2.16	
30	1.50	1.02	0.70	0.94	3.33	3.19	7.90	6.56	7.60	5.20		2.16	
31		0.98		1.02	2.46		6.16		6.56	5.04		2.10	
Total	51.34	38.54	41.48	31.32	79.69	104.44	103.70	397.95	185.28	153.15	140.72	77.36	1404.97 CMSDAY
Mean	1.71	1.24	1.38	1.01	2.57	3.48	3.35	13.27	5.98	4.94	4.85	2.50	3.84 CMS
Max	4.10	1.75	4.59	3.33	5.84	8.30	7.90	53.78	7.90	6.08	8.40	3.05	53.78 CMS
Min	1.25	0.98	0.70	0.62	0.74	1.60	2.10	3.82	3.89	3.54	3.12	2.10	0.62 CMS
Runoff	4.436	3.330	3.584	2.706	6.885	9.024	8.960	34.383	16.008	13.232	12.158	6.684	121.389 MCM

Momentary Peak 59.67 CMS, at 15.83 M (MSL), at 18.00 Hours, on Nov 19, 1995
Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENNINSULA EAST COAST

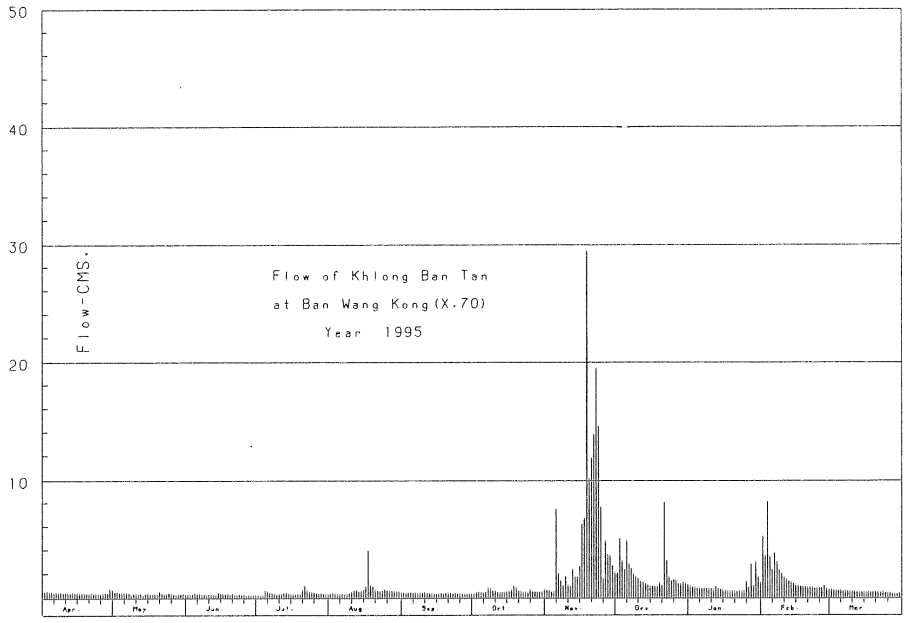
Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)

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	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.51	0.48	0.38	0.34	0.40	0.45	0.40	0.57	1.09	0.73	1.88	0.59	
2	0.51	0.48	0.38	0.34	0.46	0.44	0.47	0.54	1.82	0.70	1.46	0.58	
3	0.49	0.46	0.38	0.34	0.41	0.44	0.47	0.50	1.34	0.68	2.41	0.55	
4	0.48	0.45	0.46	0.54	0.40	0.47	0.48	0.49	1.17	0.65	1.45	0.55	
5	0.47	0.44	0.40	0.52	0.39	0.45	0.47	2.30	1.77	0.64	1.16	0.55	
6	0.46	0.43	0.38	0.44	0.39	0.45	0.46	1.08	1.29	0.64	1.52	0.54	
7	0.46	0.42	0.38	0.44	0.39	0.45	0.68	0.90	1.19	0.63	1.34	0.53	
8	0.45	0.42	0.38	0.39	0.38	0.45	0.63	0.75	1.08	0.64	1.15	0.53	
9	0.45	0.41	0.37	0.38	0.44	0.45	0.55	1.02	1.01	0.63	1.08	0.52	
10	0.45	0.40	0.37	0.38	0.48	0.46	0.50	0.78	0.97	0.63	1.01	0.52	
11	0.44	0.40	0.37	0.38	0.55	0.44	0.48	0.74	0.89	0.60	0.95	0.51	
12	0.44	0.40	0.37	0.45	0.56	0.43	0.47	1.16	0.88	0.73	0.90	0.49	
13	0.47	0.40	0.37	0.44	0.51	0.43	0.45	1.02	0.82	0.63	0.86	0.49	
14	0.44	0.40	0.46	0.42	0.50	0.41	0.48	1.00	0.79	0.60	0.83	0.49	
15	0.44	0.40	0.42	0.40	0.58	0.41	0.49	1.23	0.74	0.57	0.80	0.49	
16	0.43	0.39	0.40	0.39	0.70	0.41	0.50	2.06	0.72	0.53	0.76	0.49	
17	0.43	0.39	0.39	0.39	1.57	0.44	0.57	2.16	0.72	0.53	0.72	0.49	
18	0.42	0.39	0.39	0.39	0.75	0.41	0.74	4.37	0.70	0.53	0.70	0.49	
19	0.42	0.38	0.38	0.39	0.72	0.45	0.66	2.70	0.85	0.53	0.70	0.49	
20	0.42	0.55	0.40	0.56	0.58	0.45	0.54	2.94	0.76	0.53	0.69	0.49	
21	0.41	0.43	0.37	0.75	0.55	0.44	0.50	3.19	2.40	0.52	0.70	0.47	
22	0.41	0.41	0.37	0.56	0.52	0.42	0.49	3.71	1.36	0.52	0.69	0.47	
23	0.40	0.40	0.37	0.50	0.52	0.43	0.48	3.26	1.01	0.52	0.65	0.47	
24	0.40	0.44	0.36	0.47	0.59	0.42	0.46	2.33	0.91	0.52	0.64	0.45	
25	0.40	0.40	0.36	0.45	0.53	0.41	0.58	0.98	0.94	0.88	0.67	0.45	
26	0.40	0.40	0.35	0.43	0.53	0.41	0.50	1.77	0.90	0.67	0.65	0.45	
27	0.45	0.38	0.35	0.42	0.53	0.41	0.50	1.49	0.83	1.28	0.76	0.42	
28	0.44	0.38	0.35	0.41	0.52	0.40	0.47	1.46	0.81	0.76	0.61	0.40	
29	0.60	0.40	0.35	0.40	0.50	0.40	0.49	1.25	0.86	1.32	0.60	0.42	
30	0.57	0.39	0.35	0.39	0.49	0.40	0.48	1.11	0.83	1.01		0.43	
31		0.39		0.41	0.47		0.57		0.80	0.84		0.44	
Mean	0.45	0.42	0.38	0.44	0.55	0.43	0.52	1.63	1.04	0.68	0.98	0.49	
Max	0.60	0.55	0.46	0.75	1.57	0.47	0.74	4.37	2.40	1.32	2.41	0.59	4.37
Min	0.40	0.38	0.35	0.34	0.38	0.40	0.40	0.49	0.70	0.52	0.60	0.40	0.34

Annual Max Momentary Gage Height 4.90 M (AD), at 18.00 Hours, on Nov 22, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.14 M (AD)
Left Bank Elevation 7.51 M (AD)
Right Bank Elevation 6.98 M (AD), Drainage Area 39 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	0.56	0.36	0.28	0.40	0.50	0.40	0.74	2.16	1.06	5.40	0.78	
2	0.62	0.56	0.36	0.28	0.52	0.48	0.54	0.68	5.10	1.00	3.64	0.76	
3	0.58	0.52	0.36	0.28	0.42	0.48	0.54	0.60	3.16	0.96	8.26	0.70	
4	0.56	0.50	0.52	0.68	0.40	0.54	0.56	0.58	2.48	0.90	3.60	0.70	
5	0.54	0.48	0.40	0.64	0.38	0.50	0.54	7.60	4.88	0.88	2.44	0.70	
6	0.52	0.46	0.36	0.48	0.38	0.50	0.52	2.12	2.96	0.88	3.88	0.68	
7	0.52	0.44	0.36	0.48	0.38	0.50	0.96	1.50	2.56	0.86	3.16	0.66	
8	0.50	0.44	0.36	0.38	0.36	0.50	0.86	1.10	2.12	0.88	2.40	0.66	
9	0.50	0.42	0.34	0.36	0.48	0.50	0.70	1.88	1.84	0.86	2.12	0.64	
10	0.50	0.40	0.34	0.36	0.56	0.52	0.60	1.16	1.71	0.86	1.84	0.64	
11	0.48	0.40	0.34	0.36	0.70	0.48	0.56	1.08	1.47	0.80	1.65	0.62	
12	0.48	0.40	0.34	0.50	0.72	0.46	0.54	2.44	1.44	1.06	1.50	0.58	
13	0.54	0.40	0.34	0.48	0.62	0.46	0.50	1.88	1.26	0.86	1.38	0.58	
14	0.48	0.40	0.52	0.44	0.60	0.42	0.56	1.80	1.18	0.80	1.29	0.58	
15	0.48	0.40	0.44	0.40	0.76	0.42	0.58	2.72	1.08	0.74	1.20	0.58	
16	0.46	0.38	0.40	0.38	1.00	0.42	0.60	6.30	1.04	0.66	1.12	0.58	
17	0.46	0.38	0.38	0.38	4.08	0.48	0.74	6.80	1.04	0.66	1.04	0.58	
18	0.44	0.38	0.38	0.38	1.10	0.42	1.08	29.49	1.00	0.66	1.00	0.58	
19	0.44	0.36	0.36	0.38	1.04	0.50	0.92	10.15	1.35	0.66	1.00	0.58	
20	0.44	0.70	0.40	0.72	0.76	0.50	0.68	11.95	1.12	0.66	0.98	0.58	
21	0.42	0.46	0.34	1.10	0.70	0.48	0.60	13.92	8.20	0.64	1.00	0.54	
22	0.42	0.42	0.34	0.72	0.64	0.44	0.58	19.52	3.24	0.64	0.98	0.54	
23	0.40	0.40	0.34	0.60	0.64	0.46	0.56	14.60	1.84	0.64	0.90	0.54	
24	0.40	0.48	0.32	0.54	0.78	0.44	0.52	7.78	1.53	0.64	0.88	0.50	
25	0.40	0.40	0.32	0.50	0.66	0.42	0.76	1.74	1.62	1.44	0.94	0.50	
26	0.40	0.40	0.30	0.46	0.66	0.42	0.60	4.88	1.50	0.94	0.90	0.50	
27	0.50	0.36	0.30	0.44	0.66	0.42	0.60	3.76	1.29	2.92	1.12	0.44	
28	0.48	0.36	0.30	0.42	0.64	0.40	0.54	3.64	1.23	1.12	0.82	0.40	
29	0.80	0.40	0.30	0.40	0.60	0.40	0.58	2.80	1.38	3.08	0.80	0.44	
30	0.74	0.38	0.30	0.38	0.58	0.40	0.56	2.24	1.29	1.84		0.46	
31		0.38		0.42	0.54		0.74		1.20	1.32		0.48	
Total	15.12	13.42	10.82	14.62	22.76	13.86	19.62	167.45	65.27	31.92	57.24	18.10	450.20 CMSDAY
Mean	0.50	0.43	0.36	0.47	0.73	0.46	0.63	5.58	2.11	1.03	1.97	0.58	1.23 CMS
Max	0.80	0.70	0.52	1.10	4.08	0.54	1.08	29.49	8.20	3.08	8.26	0.78	29.49 CMS
Min	0.40	0.36	0.30	0.28	0.36	0.40	0.40	0.58	1.00	0.64	0.80	0.40	0.28 CMS
Runoff	1.306	1.159	0.935	1.263	1.966	1.198	1.695	14.468	5.639	2.758	4.946	1.564	38.897 MCM

Momentary Peak 42.10 CMS, at 4.90 M (AD), at 18.00 Hours, on Nov 22, 1995
Runoff Yield 31.54 Liters/Second/Square KM, Momentary Peak Yield 1079.487 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

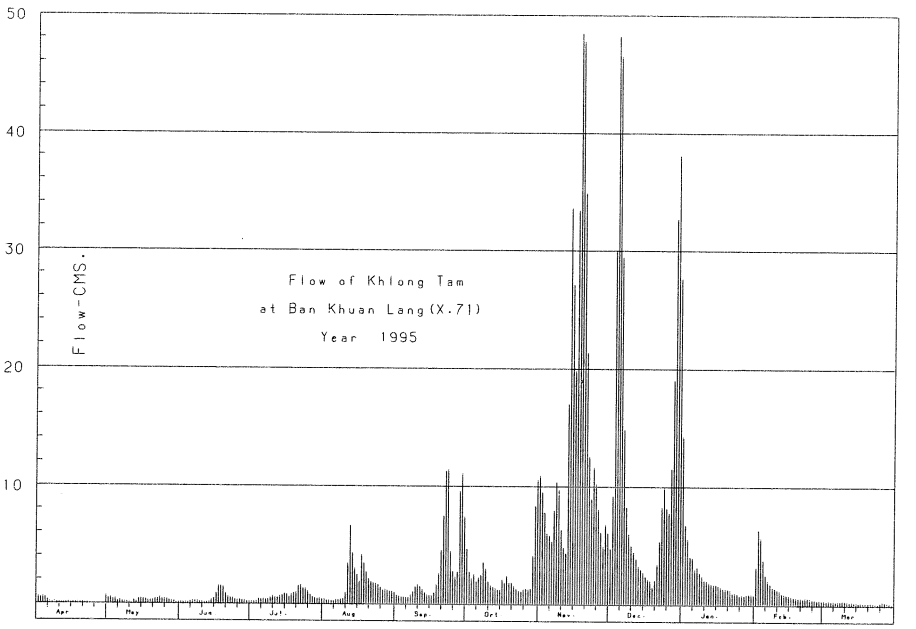
Khlong Tam at Ban Khuan Lang(3), Songkhla (X.71)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.91	2.86	2.70	2.72	2.81	3.00	4.03	5.06	4.04	5.46	3.70	2.80	
2	2.88	2.88	2.69	2.72	2.78	2.96	3.60	4.87	4.82	4.44	4.36	2.79	
3	2.90	2.82	2.69	2.73	2.77	2.93	3.45	4.61	6.60	4.20	4.22	2.79	
4	2.88	2.84	2.69	2.84	2.77	2.91	3.54	4.29	7.47	3.90	3.85	2.79	
5	2.78	2.74	2.73	2.82	2.76	2.91	3.39	4.26	7.40	3.88	3.54	2.78	
6	2.70	2.76	2.74	2.82	2.79	2.91	3.47	4.15	6.57	3.66	3.42	2.77	
7	2.68	2.72	2.74	2.81	2.80	3.01	3.53	4.63	5.52	3.71	3.34	2.76	
8	2.69	2.70	2.74	2.81	2.81	3.09	3.80	4.99	4.69	3.59	3.23	2.79	
9	2.67	2.70	2.71	2.89	2.85	3.24	3.66	4.89	4.28	3.51	3.22	2.79	
10	2.66	2.69	2.69	2.95	3.06	3.29	3.39	4.36	4.09	3.43	3.18	2.80	
11	2.67	2.65	2.68	2.89	3.77	3.25	3.27	4.05	3.97	3.41	3.14	2.76	
12	2.67	2.75	2.68	2.90	4.42	3.16	3.24	3.96	3.87	3.37	3.07	2.75	
13	2.68	2.74	2.71	2.95	3.96	3.08	3.19	5.72	3.72	3.34	3.04	2.75	
14	2.68	2.82	2.79	3.00	3.67	3.01	3.16	6.80	3.66	3.31	3.03	2.74	
15	2.67	2.82	2.84	3.04	3.54	3.00	3.14	6.44	3.59	3.32	3.01	2.73	
16	2.67	2.82	3.05	3.01	3.38	2.97	3.43	5.95	3.51	3.29	2.98	2.72	
17	2.68	2.81	3.25	2.93	3.92	3.07	3.35	6.79	3.44	3.24	2.95	2.71	
18	2.68	2.74	3.24	3.01	3.78	3.30	3.51	7.48	3.41	3.21	2.93	2.71	
19	2.68	2.77	3.23	3.06	3.59	3.56	3.34	7.45	3.24	3.19	2.92	2.70	
20	2.67	2.76	3.05	3.07	3.45	4.00	3.36	6.87	3.43	3.19	2.91	2.72	
21	2.66	2.84	2.93	3.26	3.38	4.56	3.26	6.06	3.76	3.17	2.89	2.71	
22	2.66	2.83	2.88	3.27	3.35	5.12	3.18	5.27	4.16	3.08	2.92	2.72	
23	2.63	2.88	2.86	3.19	3.32	5.13	3.12	4.79	4.68	3.08	2.93	2.68	
24	2.63	2.83	2.81	3.18	3.30	3.99	3.11	5.16	4.93	3.07	2.89	2.68	
25	2.64	2.82	2.77	3.11	3.21	3.61	3.16	4.97	4.67	3.01	2.86	2.73	
26	2.63	2.80	2.81	3.02	3.15	3.48	3.19	4.65	4.60	3.02	2.83	2.76	
27	2.62	2.78	2.78	2.93	3.17	3.59	3.16	4.32	5.15	3.01	2.82	2.75	
28	2.61	2.74	2.76	2.86	3.13	4.88	3.19	4.07	5.89	3.03	2.82	2.71	
29	2.62	2.73	2.73	2.85	3.12	5.09	3.91	4.44	6.75	3.05	2.81	2.70	
30	2.96	2.72	2.72	2.85	3.10	4.54	4.70	4.30	7.03	3.04		2.68	
31		2.70		2.83	3.07		5.01		6.47	3.03		2.69	
Mean	2.71	2.78	2.82	2.95	3.26	3.55	3.48	5.19	4.82	3.43	3.17	2.74	
Max	2.96	2.88	3.25	3.27	4.42	5.13	5.01	7.48	7.47	5.46	4.36	2.80	7.48
Min	2.61	2.65	2.68	2.72	2.76	2.91	3.11	3.96	3.24	3.01	2.81	2.68	2.61

Annual Max Momentary Gage Height 7.54 M (MSL), at 18.00 Hours, on Nov 18, 1995
Zero Gage at Bottom Elevation 0.65 M (MSL), River Bed 2.19 M (MSL)
Left Bank Elevation 7.61 M (MSL)
Right Bank Elevation 8.00 M (MSL), Drainage Area 127 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	0.52	0.20	0.24	0.42	0.80	4.75	10.92	4.80	14.30	3.20	0.40	
2	0.56	0.56	0.18	0.24	0.36	0.72	2.80	9.59	9.24	6.84	6.40	0.38	
3	0.60	0.44	0.18	0.26	0.34	0.66	2.20	7.86	30.00	5.60	5.70	0.38	
4	0.56	0.48	0.18	0.48	0.34	0.62	2.56	6.05	48.25	4.10	3.85	0.38	
5	0.36	0.28	0.26	0.44	0.32	0.62	1.97	5.90	46.50	4.00	2.56	0.36	
6	0.20	0.32	0.28	0.44	0.38	0.62	2.28	5.35	29.46	3.04	2.08	0.34	
7	0.16	0.24	0.28	0.42	0.40	0.83	2.52	7.98	14.90	3.24	1.82	0.32	
8	0.18	0.20	0.28	0.42	0.42	1.07	3.60	10.43	8.34	2.76	1.49	0.38	
9	0.14	0.20	0.22	0.58	0.50	1.52	3.04	9.73	6.00	2.44	1.46	0.38	
10	0.12	0.18	0.18	0.70	0.98	1.67	1.97	6.40	5.05	2.12	1.34	0.40	
11	0.14	0.10	0.16	0.58	3.48	1.55	1.61	4.85	4.45	2.04	1.22	0.32	
12	0.14	0.30	0.16	0.60	6.72	1.28	1.52	4.40	3.95	1.91	1.01	0.30	
13	0.16	0.28	0.22	0.70	4.40	1.04	1.37	17.04	3.28	1.82	0.92	0.30	
14	0.16	0.44	0.38	0.80	3.08	0.83	1.28	33.60	3.04	1.73	0.89	0.28	
15	0.14	0.44	0.48	0.92	2.56	0.80	1.22	27.18	2.76	1.76	0.83	0.26	
16	0.14	0.44	0.95	0.83	1.94	0.74	2.12	19.85	2.44	1.67	0.76	0.24	
17	0.16	0.42	1.55	0.66	4.20	1.01	1.85	33.42	2.16	1.52	0.70	0.22	
18	0.16	0.28	1.52	0.83	3.52	1.70	2.44	48.50	2.04	1.43	0.66	0.22	
19	0.16	0.34	1.49	0.98	2.76	2.64	1.82	47.75	1.52	1.37	0.64	0.20	
20	0.14	0.32	0.95	1.01	2.20	4.60	1.88	34.93	2.12	1.37	0.62	0.24	
21	0.12	0.48	0.66	1.58	1.94	7.56	1.58	21.40	3.44	1.31	0.58	0.22	
22	0.12	0.46	0.56	1.61	1.85	11.36	1.34	12.56	5.40	1.04	0.64	0.24	
23	0.06	0.56	0.52	1.37	1.76	11.44	1.16	9.03	8.28	1.04	0.66	0.16	
24	0.06	0.46	0.42	1.34	1.70	4.55	1.13	11.68	10.01	1.01	0.58	0.16	
25	0.08	0.44	0.34	1.13	1.43	2.84	1.28	10.29	8.22	0.83	0.52	0.26	
26	0.06	0.40	0.42	0.86	1.25	2.32	1.37	8.10	7.80	0.86	0.46	0.32	
27	0.04	0.36	0.36	0.66	1.31	2.76	1.28	6.20	11.60	0.83	0.44	0.30	
28	0.02	0.28	0.32	0.52	1.19	9.66	1.37	4.95	19.08	0.89	0.44	0.22	
29	0.04	0.26	0.26	0.50	1.16	11.13	4.15	6.84	32.70	0.95	0.42	0.20	
30	0.72	0.24	0.24	0.50	1.10	7.44	8.40	6.10	38.13	0.92		0.16	
31		0.20		0.46	1.01		10.57		27.69	0.89		0.18	
Total	6.32	10.92	14.20	22.66	55.02	96.38	78.43	448.88	402.65	75.63	42.89	8.72	1262.70 CMSDAY
Mean	0.21	0.35	0.47	0.73	1.77	3.21	2.53	14.96	12.99	2.44	1.48	0.28	3.45 CMS
Max	0.72	0.56	1.55	1.61	6.72	11.44	10.57	48.50	48.25	14.30	6.40	0.40	48.50 CMS
Min	0.02	0.10	0.16	0.24	0.32	0.62	1.13	4.40	1.52	0.83	0.42	0.16	0.02 CMS
Runoff	0.546	0.943	1.227	1.958	4.754	8.327	6.776	38.783	34.789	6.534	3.706	0.753	109.097 MCM

Momentary Peak 50.00 CMS, at 7.54 M (MSL), at 18.00 Hours, on Nov 18, 1995

Runoff Yield 27.17 Liters/Second/Square KM, Momentary Peak Yield 393.701 Liters/Second/Square KM

WATER YEAR 1995

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.

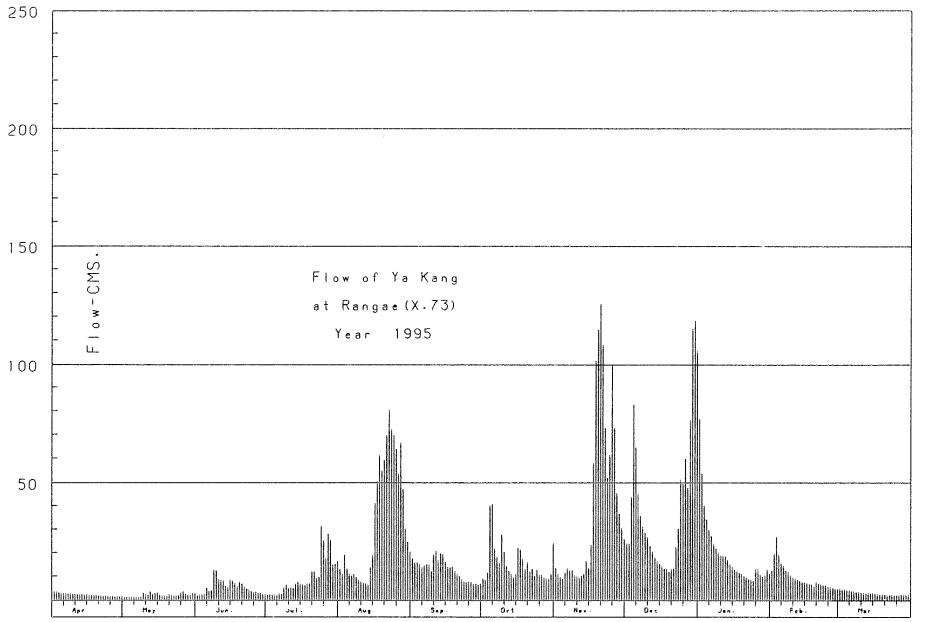
Overbank Flow Conditions — Overbank flow starts at elevation +4.91 m.(A.D.), records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 23 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.90	0.63	0.71	0.75	1.63	1.92	1.35	1.66	2.26	4.47	1.59	0.99	
2	0.87	0.62	0.74	0.74	1.48	1.80	1.32	1.49	2.27	3.62	2.02	0.98	
3	0.85	0.63	0.75	0.75	2.01	1.82	1.53	1.39	3.19	3.02	2.41	0.97	
4	0.83	0.63	0.76	0.74	1.65	1.77	3.02	1.35	4.68	2.76	2.01	0.95	
5	0.81	0.62	1.04	0.73	1.48	1.68	3.06	1.53	4.05	2.55	1.80	0.94	
6	0.80	0.61	0.90	0.79	1.44	1.72	2.15	1.64	3.25	2.43	1.72	0.92	
7	0.79	0.60	0.93	0.79	1.48	1.77	1.95	1.58	2.83	2.26	1.60	0.90	
8	0.78	0.62	1.60	1.03	1.40	1.75	1.81	1.61	2.61	2.16	1.54	0.88	
9	0.77	0.83	1.59	1.16	1.31	1.57	2.46	1.45	2.50	2.06	1.46	0.86	
10	0.76	0.73	1.34	1.03	1.25	2.00	2.08	1.42	2.39	1.99	1.40	0.85	
11	0.76	0.73	1.29	1.04	1.22	2.10	1.71	1.39	2.22	1.98	1.36	0.84	
12	0.75	0.87	1.30	1.03	1.19	1.87	1.58	1.43	2.07	1.97	1.33	0.83	
13	0.76	0.81	1.09	1.18	1.16	2.04	1.48	1.49	1.94	1.87	1.29	0.84	
14	0.75	0.82	1.07	1.25	1.68	2.01	1.39	1.85	1.84	1.77	1.25	0.83	
15	0.74	0.82	1.31	1.18	1.98	1.83	1.48	1.65	1.78	1.69	1.23	0.82	
16	0.73	0.73	1.29	1.16	3.08	1.68	2.17	2.24	1.70	1.62	1.21	0.81	
17	0.73	0.70	1.20	1.14	3.48	1.68	2.13	3.79	1.64	1.56	1.19	0.79	
18	0.71	0.68	1.09	1.18	3.92	1.68	1.89	5.19	1.63	1.53	1.17	0.77	
19	0.72	0.67	1.24	1.20	3.67	1.57	1.63	5.48	1.56	1.49	1.12	0.76	
20	0.69	0.75	1.20	1.55	3.85	1.48	1.81	5.68	1.62	1.44	1.24	0.76	
21	0.69	0.73	1.08	1.56	4.23	1.43	1.55	5.34	1.66	1.39	1.21	0.75	
22	0.68	0.70	1.01	1.35	4.60	1.32	1.64	4.35	2.19	1.34	1.18	0.74	
23	0.67	0.68	0.96	1.41	4.32	1.27	1.44	3.54	2.59	1.32	1.15	0.74	
24	0.66	0.72	0.91	2.63	4.24	1.25	1.60	3.92	3.51	1.30	1.12	0.73	
25	0.65	0.82	0.86	2.33	4.03	1.27	1.47	5.16	3.44	1.64	1.10	0.73	
26	0.65	0.88	0.86	1.92	3.61	1.24	1.45	4.34	3.87	1.63	1.07	0.73	
27	0.64	0.79	0.83	2.48	4.12	1.19	1.39	3.26	3.36	1.47	1.04	0.76	
28	0.65	0.71	0.80	2.34	3.35	1.18	1.35	2.87	4.46	1.41	1.01	0.75	
29	0.65	0.72	0.77	1.76	2.58	1.15	1.35	2.59	5.48	1.46	1.00	0.73	
30	0.64	0.80	0.76	1.76	2.30	1.19	1.48	2.36	5.55	1.62		0.75	
31		0.79		1.84	2.07		2.27		5.28	1.50		0.75	
Mean	0.74	0.72	1.04	1.35	2.57	1.61	1.77	2.77	2.88	1.95	1.37	0.82	
Max	0.90	0.88	1.60	2.63	4.60	2.10	3.06	5.68	5.55	4.47	2.41	0.99	5.68
Min	0.64	0.60	0.71	0.73	1.16	1.15	1.32	1.35	1.56	1.30	1.00	0.73	0.60

Annual Max Momentary Gage Height 5.71 M (AD), at 12.00 Hours, on Nov 20, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.48 M (AD)
Left Bank Elevation 6.21 M (AD)
Right Bank Elevation 4.90 M (AD), Drainage Area 336 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.00	1.61	2.19	2.55	13.45	18.04	9.30	13.90	24.20	77.10	12.85	4.90	
2	3.70	1.54	2.46	2.46	11.20	16.00	8.88	11.35	24.40	54.08	19.76	4.80	
3	3.50	1.61	2.55	2.55	19.58	16.34	11.95	9.86	43.98	40.24	27.20	4.70	
4	3.30	1.61	2.64	2.46	13.75	15.55	40.24	9.30	83.40	34.52	19.58	4.50	
5	3.10	1.54	5.44	2.37	11.20	14.20	41.12	11.95	65.15	30.00	16.00	4.40	
6	3.00	1.47	4.00	2.91	10.60	14.80	22.10	13.60	45.35	27.60	14.80	4.20	
7	2.91	1.40	4.30	2.91	11.20	15.55	18.55	12.70	36.06	24.20	13.00	4.00	
8	2.82	1.54	13.00	5.33	10.00	15.25	16.17	13.15	31.22	22.28	12.10	3.80	
9	2.73	3.30	12.85	6.82	8.74	12.55	28.20	10.75	29.00	20.48	10.90	3.60	
10	2.64	2.37	9.16	5.33	7.95	19.40	20.84	10.30	26.80	19.23	10.00	3.50	
11	2.64	2.37	8.47	5.44	7.56	21.20	14.65	9.86	23.40	19.06	9.44	3.40	
12	2.55	3.70	8.60	5.33	7.18	17.19	12.70	10.45	20.66	18.89	9.02	3.30	
13	2.64	3.10	5.99	7.06	6.82	20.12	11.20	11.35	18.38	17.19	8.47	3.40	
14	2.55	3.20	5.77	7.95	14.20	19.58	9.86	16.85	16.68	15.55	7.95	3.30	
15	2.46	3.20	8.74	7.06	19.06	16.51	11.20	13.75	15.70	14.35	7.69	3.20	
16	2.37	2.37	8.47	6.82	41.56	14.20	22.46	23.80	14.50	13.30	7.43	3.10	
17	2.37	2.10	7.30	6.58	50.72	14.20	21.74	58.25	13.60	12.40	7.18	2.91	
18	2.19	1.96	5.99	7.06	61.64	14.20	17.53	101.60	13.45	11.95	6.94	2.73	
19	2.28	1.89	7.82	7.30	55.28	12.55	13.45	115.00	12.40	11.35	6.34	2.64	
20	2.03	2.55	7.30	12.25	59.80	11.20	16.17	125.90	13.30	10.60	7.82	2.64	
21	2.03	2.37	5.88	12.40	70.04	10.45	12.25	108.30	13.90	9.86	7.43	2.55	
22	1.96	2.10	5.11	9.30	81.00	8.88	13.60	73.50	22.82	9.16	7.06	2.46	
23	1.89	1.96	4.60	10.15	72.60	8.21	10.60	52.16	30.80	8.88	6.70	2.46	
24	1.82	2.28	4.10	31.66	70.32	7.95	13.00	61.64	51.44	8.60	6.34	2.37	
25	1.75	3.20	3.60	25.60	64.61	8.21	11.05	100.40	49.76	13.60	6.10	2.37	
26	1.75	3.80	3.60	18.04	53.84	7.82	10.75	73.20	60.32	13.45	5.77	2.37	
27	1.68	2.91	3.30	28.60	67.04	7.18	9.86	45.58	47.88	11.05	5.44	2.64	
28	1.75	2.19	3.00	25.80	47.65	7.06	9.30	36.94	76.80	10.15	5.11	2.55	
29	1.75	2.28	2.73	15.40	30.60	6.70	9.30	30.80	115.00	10.90	5.00	2.37	
30	1.68	3.00	2.64	15.40	25.00	7.18	11.20	26.20	118.75	13.30		2.55	
31		2.91		16.68	20.66		24.40		105.60	11.50		2.55	
Total	73.84	73.43	171.60	317.57	1044.85	398.27	503.62	1212.39	1264.70	614.82	289.42	100.26	6064.77 CMSDAY
Mean	2.46	2.37	5.72	10.24	33.70	13.28	16.25	40.41	40.80	19.83	9.98	3.23	16.57 CMS
Max	4.00	3.80	13.00	31.66	81.00	21.20	41.12	125.90	118.75	77.10	27.20	4.90	125.90 CMS
Min	1.68	1.40	2.19	2.37	6.82	6.70	8.88	9.30	12.40	8.60	5.00	2.37	1.40 CMS
Runoff	6.380	6.344	14.826	27.438	90.275	34.411	43.513	104.750	109.270	53.120	25.006	8.662	523.996 MCM

Momentary Peak 127.60 CMS, at 5.71 M (AD), at 12.00 Hours, on Nov 20, 1995
Runoff Yield 49.32 Liters/Second/Square KM, Momentary Peak Yield 379.762 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

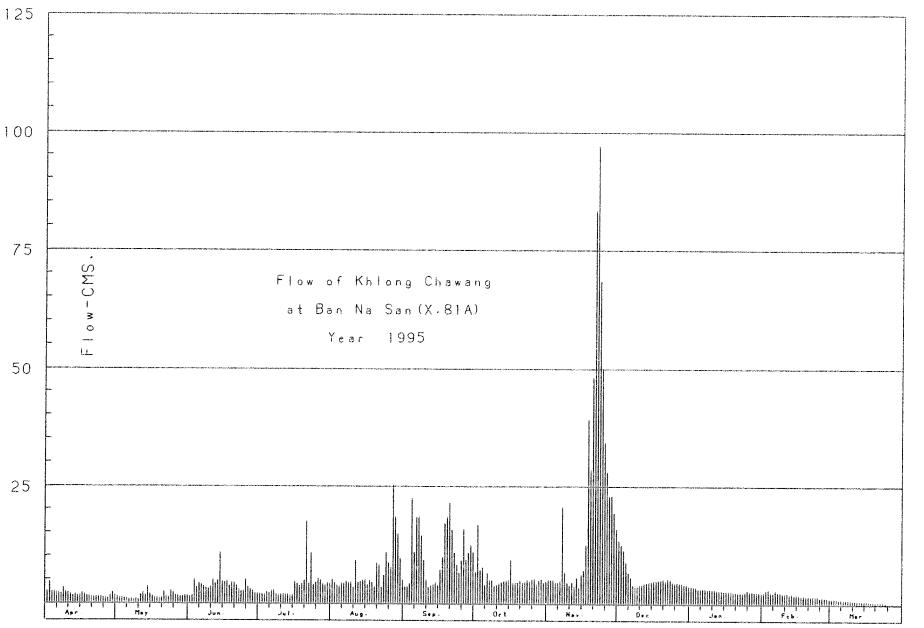
Khlong Chawang at Ban Na San, Surat Thani (X.81A)

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.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 61 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.82	0.73	0.73	0.79	1.00	1.18	1.26	1.02	1.39	0.90	0.82	0.71	
2	0.96	0.72	0.76	0.78	0.95	1.19	1.46	0.99	1.37	0.90	0.84	0.71	
3	0.82	0.71	1.02	0.77	0.92	1.10	1.27	1.03	1.35	0.89	0.86	0.70	
4	0.82	0.71	1.19	0.82	0.90	1.59	1.28	1.07	1.30	0.87	0.81	0.69	
5	0.81	0.70	0.94	0.80	0.95	1.34	1.21	1.08	1.26	0.87	0.81	0.69	
6	0.80	0.69	0.93	0.84	1.11	1.50	1.26	1.05	1.24	0.87	0.84	0.69	
7	0.79	0.69	0.90	0.84	1.06	1.50	1.23	1.55	1.21	0.87	0.82	0.69	
8	0.88	0.69	0.88	0.78	1.08	1.41	1.23	1.26	1.19	0.86	0.81	0.69	
9	0.81	0.69	0.86	0.77	1.22	1.31	1.17	1.22	1.17	0.86	0.80	0.68	
10	0.80	0.69	0.90	0.78	1.20	1.23	1.14	1.16	1.15	0.86	0.80	0.68	
11	0.78	0.77	1.02	0.78	1.31	1.19	1.11	1.22	1.13	0.85	0.80	0.67	
12	0.75	0.80	0.94	0.78	1.22	1.17	1.07	1.17	1.11	0.85	0.79	0.67	
13	0.77	0.76	0.97	0.77	1.05	1.12	1.06	1.24	1.09	0.84	0.79	0.67	
14	0.75	0.90	1.34	0.76	1.03	1.09	1.04	1.20	1.08	0.84	0.77	0.67	
15	0.75	0.77	1.07	0.76	1.23	1.15	1.02	1.25	1.06	0.83	0.77	0.67	
16	0.80	0.74	0.96	0.96	1.13	1.27	1.31	1.27	1.05	0.83	0.77	0.67	
17	0.77	0.72	0.97	0.94	1.03	1.32	1.22	1.37	1.04	0.83	0.76	0.66	
18	0.75	0.71	0.91	1.17	1.09	1.47	1.10	1.84	1.03	0.83	0.76	0.66	
19	0.74	0.71	0.95	1.11	1.19	1.50	1.08	1.69	1.02	0.82	0.75	0.65	
20	0.74	0.71	0.95	1.04	1.30	1.57	1.04	1.94	1.01	0.82	0.75	0.65	
21	0.73	0.82	0.91	1.48	1.29	1.44	1.07	2.25	1.04	0.81	0.75	0.65	
22	0.73	0.74	0.86	1.10	1.19	1.34	1.07	2.35	1.00	0.81	0.75	0.65	
23	0.73	0.73	0.82	1.34	1.25	1.29	1.03	2.13	1.00	0.80	0.75	0.65	
24	0.73	0.83	0.84	1.14	1.34	1.26	1.05	1.96	0.96	0.82	0.75	0.64	
25	0.72	0.81	1.01	1.08	1.30	1.31	1.01	1.78	0.95	0.85	0.73	0.63	
26	0.71	0.75	0.89	1.00	1.28	1.44	1.00	1.68	0.95	0.82	0.73	0.63	
27	0.71	0.75	0.86	0.99	1.64	1.31	1.12	1.60	0.95	0.83	0.73	0.63	
28	0.75	0.73	0.83	0.93	1.50	1.34	1.04	1.60	0.94	0.81	0.72	0.62	
29	0.81	0.74	0.80	0.92	1.42	1.37	1.00	1.52	0.93	0.82	0.71	0.62	
30	0.75	0.75	0.79	1.10	1.32	1.34	1.10	1.44	0.92	0.81		0.61	
31		0.75		1.11	1.23		1.05		0.91	0.80		0.65	
Mean	0.78	0.74	0.93	0.94	1.18	1.32	1.13	1.46	1.09	0.84	0.78	0.66	
Max	0.96	0.90	1.34	1.48	1.64	1.59	1.46	2.35	1.39	0.90	0.86	0.71	2.35
Min	0.71	0.69	0.73	0.76	0.90	1.09	1.00	0.99	0.91	0.80	0.71	0.61	0.61

Annual Max Momentary Gage Height 2.67 M (AD), at 18.00 Hours, on Nov 22, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.37 M (AD)
Left Bank Elevation 5.64 M (AD)
Right Bank Elevation 5.18 M (AD), Drainage Area 220 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.68	1.56	1.56	2.28	5.40	3.78	6.78	5.22	13.67	3.80	2.68	1.32	
2	4.76	1.44	1.92	2.16	4.60	3.69	16.84	5.24	12.61	3.80	2.96	1.32	
3	2.68	1.32	5.22	2.04	4.12	4.50	7.31	5.13	11.55	3.66	3.24	1.20	
4	2.68	1.32	3.69	2.68	3.80	22.56	7.84	4.77	8.90	3.38	2.54	1.08	
5	2.54	1.20	4.44	2.40	4.60	11.02	4.13	4.68	6.78	3.38	2.54	1.08	
6	2.40	1.08	4.28	2.96	4.41	18.60	6.78	4.95	5.72	3.38	2.96	1.08	
7	2.28	1.08	3.80	2.96	4.86	18.60	5.19	20.80	4.13	3.38	2.68	1.08	
8	3.52	1.08	3.52	2.16	4.68	14.64	5.19	6.78	3.69	3.24	2.54	1.08	
9	2.54	1.08	3.24	2.04	4.66	9.43	3.87	4.66	3.87	3.24	2.40	0.96	
10	2.40	1.08	3.80	2.16	3.60	5.19	4.14	3.96	4.05	3.24	2.40	0.96	
11	2.16	2.04	5.22	2.16	9.43	3.69	4.41	4.66	4.23	3.10	2.40	0.84	
12	1.80	2.40	4.44	2.16	4.66	3.87	4.77	3.87	4.41	3.10	2.28	0.84	
13	2.04	1.92	4.92	2.04	4.95	4.32	4.86	5.72	4.59	2.96	2.28	0.84	
14	1.80	3.80	11.02	1.92	5.13	4.59	5.04	3.60	4.68	2.96	2.04	0.84	
15	1.80	2.04	4.77	1.92	5.19	4.05	5.22	6.25	4.86	2.82	2.04	0.84	
16	2.40	1.68	4.76	4.76	4.23	7.31	9.43	7.31	4.95	2.82	2.04	0.84	
17	2.04	1.44	4.92	4.44	5.13	9.96	4.66	12.61	5.04	2.82	1.92	0.72	
18	1.80	1.32	3.96	3.87	4.59	17.28	4.50	39.36	5.13	2.82	1.92	0.72	
19	1.68	1.32	4.60	4.41	3.69	19.60	4.68	28.76	5.22	2.68	1.80	0.60	
20	1.68	1.32	4.60	5.04	8.90	21.68	5.04	48.26	5.31	2.68	1.80	0.60	
21	1.56	2.68	3.96	17.72	8.37	15.96	4.77	83.40	5.04	2.54	1.80	0.60	
22	1.56	1.68	3.24	4.50	3.69	11.02	4.77	97.15	5.40	2.54	1.80	0.60	
23	1.56	1.56	2.68	11.02	6.25	8.37	5.13	68.68	5.40	2.40	1.80	0.60	
24	1.56	2.82	2.96	4.14	11.02	6.78	4.95	50.04	4.76	2.68	1.80	0.48	
25	1.44	2.54	5.31	4.68	8.90	9.43	5.31	34.52	4.60	3.10	1.56	0.36	
26	1.32	1.80	3.66	5.40	7.84	15.96	5.40	28.12	4.60	2.68	1.56	0.36	
27	1.32	1.80	3.24	5.24	25.56	9.43	4.32	23.00	4.60	2.82	1.56	0.36	
28	1.80	1.56	2.82	4.28	18.60	11.02	5.04	23.00	4.44	2.54	1.44	0.24	
29	2.54	1.68	2.40	4.12	15.08	12.61	5.40	19.48	4.28	2.68	1.32	0.24	
30	1.80	1.80	2.28	4.50	9.96	11.02	4.50	15.96	4.12	2.54		0.12	
31		1.80		4.41	5.19		4.95		3.96	2.40		0.60	
Total	64.14	53.24	121.23	126.57	221.09	318.96	175.22	669.94	174.59	92.18	62.10	23.40	2102.66 CMSDAY
Mean	2.14	1.72	4.04	4.08	7.13	10.63	5.65	22.33	5.63	2.97	2.14	0.75	5.74 CMS
Max	4.76	3.80	11.02	17.72	25.56	22.56	16.84	97.15	13.67	3.80	3.24	1.32	97.15 CMS
Min	1.32	1.08	1.56	1.92	3.60	3.69	3.87	3.60	3.69	2.40	1.32	0.12	0.12 CMS
Runoff	5.542	4.600	10.474	10.936	19.102	27.558	15.139	57.883	15.085	7.964	5.365	2.022	181.670 MCM

Momentary Peak 152.54 CMS, at 2.67 M (AD), at 18.00 Hours, on Nov 22, 1995
Runoff Yield 26.11 Liters/Second/Square KM, Momentary Peak Yield 693.364 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

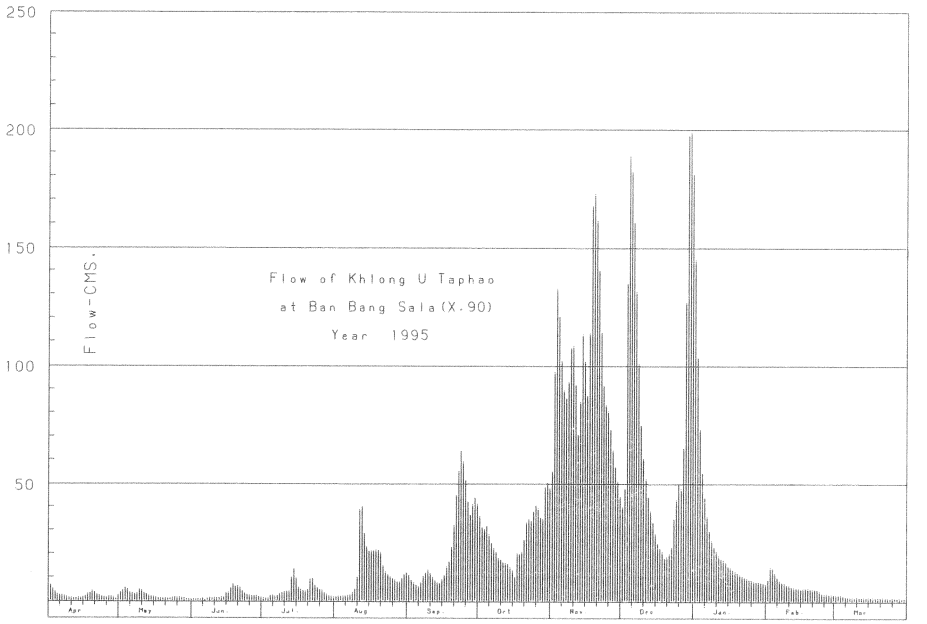
Khlong U Taphao at Ban Bang Sala, Songkhla (X.90)

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	Overbank flow starts at elevation + 6.61 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.81	1.47	1.02	1.12	1.20	2.21	3.86	4.70	4.06	7.09	2.04	1.31	
2	1.64	1.56	1.03	1.11	1.23	2.01	3.63	6.01	4.40	6.17	2.55	1.30	
3	1.49	1.69	1.03	1.09	1.24	1.90	3.58	6.84	6.89	5.34	2.51	1.29	
4	1.35	1.62	1.03	1.29	1.24	1.81	3.66	6.58	7.85	4.67	2.29	1.26	
5	1.31	1.46	1.06	1.31	1.25	1.73	3.47	6.13	7.74	4.25	2.13	1.23	
6	1.28	1.40	1.07	1.23	1.26	1.91	3.30	5.82	7.38	3.85	1.98	1.20	
7	1.26	1.37	1.09	1.28	1.32	2.17	3.14	5.73	6.81	3.55	1.92	1.18	
8	1.19	1.39	1.10	1.37	1.43	2.34	3.04	5.91	6.10	3.34	1.87	1.16	
9	1.14	1.62	1.11	1.45	1.63	2.45	2.86	6.27	5.40	3.18	1.81	1.16	
10	1.09	1.56	1.11	1.48	2.12	2.31	2.83	6.29	4.91	3.04	1.77	1.19	
11	1.09	1.42	1.11	1.53	4.01	2.14	2.75	5.88	4.57	2.93	1.73	1.18	
12	1.10	1.36	1.14	1.52	4.08	2.00	2.71	5.27	4.26	2.85	1.70	1.18	
13	1.12	1.26	1.18	2.13	3.51	1.90	2.70	5.68	3.97	2.80	1.68	1.17	
14	1.13	1.24	1.19	2.50	3.18	1.88	2.56	6.41	3.73	2.75	1.66	1.16	
15	1.15	1.20	1.42	2.10	3.07	2.03	2.42	6.12	3.49	2.60	1.62	1.17	
16	1.25	1.16	1.48	1.72	3.07	2.22	2.15	5.76	3.28	2.53	1.65	1.17	
17	1.36	1.11	1.68	1.61	3.08	2.59	2.99	6.42	3.14	2.45	1.67	1.16	
18	1.43	1.09	1.83	1.57	3.09	2.77	2.98	7.50	3.04	2.37	1.67	1.15	
19	1.53	1.09	1.75	1.53	3.10	3.17	3.04	7.58	2.87	2.32	1.65	1.14	
20	1.48	1.08	1.76	1.62	3.03	3.67	3.36	7.39	2.90	2.24	1.62	1.13	
21	1.34	1.08	1.70	2.04	2.63	4.29	3.73	7.01	2.98	2.18	1.62	1.13	
22	1.28	1.09	1.55	2.09	2.37	4.70	3.80	6.43	3.17	2.13	1.62	1.13	
23	1.23	1.12	1.41	1.77	2.25	5.04	3.77	5.87	3.81	2.09	1.53	1.12	
24	1.17	1.19	1.34	1.69	2.15	4.87	3.97	5.64	4.21	2.04	1.41	1.12	
25	1.18	1.16	1.28	1.62	2.09	4.55	4.10	5.57	4.48	2.00	1.37	1.11	
26	1.20	1.17	1.28	1.56	2.01	4.18	4.03	5.34	4.40	1.97	1.36	1.10	
27	1.24	1.14	1.27	1.44	1.95	3.90	3.84	5.04	5.08	1.95	1.35	1.10	
28	1.16	1.09	1.27	1.34	1.93	4.12	3.80	4.78	6.71	1.92	1.34	1.08	
29	1.05	1.05	1.22	1.26	2.09	4.25	4.43	4.52	7.98	1.91	1.33	1.07	
30	1.30	1.02	1.16	1.22	2.26	4.13	4.50	4.26	8.00	1.86		1.06	
31		1.01		1.20	2.34		4.40		7.72	1.83		1.05	
Mean	1.28	1.27	1.29	1.54	2.30	2.97	3.40	5.96	5.01	2.97	1.74	1.16	
Max	1.81	1.69	1.83	2.50	4.08	5.04	4.50	7.58	8.00	7.09	2.55	1.31	8.00
Min	1.05	1.01	1.02	1.09	1.20	1.73	2.15	4.26	2.87	1.83	1.33	1.05	1.01

Annual Max Momentary Gage Height 8.02 M (MSL), at 18.00 Hours, on Dec 29, 1995
Zero Gage at Bottom Elevation 0.68 M (MSL), River Bed 0.65 M (MSL)
Left Bank Elevation 7.70 M (MSL)
Right Bank Elevation 6.60 M (MSL), Drainage Area 1562 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.10	4.03	1.10	1.60	2.00	11.10	36.20	55.50	40.20	144.95	9.40	2.82	
2	5.40	4.70	1.15	1.55	2.23	9.10	31.60	97.40	48.00	103.80	14.50	2.75	
3	4.18	5.90	1.15	1.45	2.30	8.00	30.60	132.80	135.05	73.20	14.10	2.67	
4	3.13	5.20	1.15	2.67	2.30	7.10	32.20	121.10	189.25	54.75	11.90	2.45	
5	2.82	3.95	1.30	2.82	2.37	6.30	28.40	102.20	182.40	44.25	10.30	2.23	
6	2.60	3.50	1.35	2.23	2.45	8.10	25.00	89.80	160.90	36.00	8.80	2.00	
7	2.45	3.27	1.45	2.60	2.90	10.70	22.60	86.55	131.45	30.00	8.20	1.90	
8	1.95	3.42	1.50	3.27	3.72	12.40	21.10	93.40	101.00	25.80	7.70	1.80	
9	1.70	5.20	1.55	3.88	5.30	13.50	18.40	107.80	75.00	23.20	7.10	1.80	
10	1.45	4.70	1.55	4.10	10.20	12.10	17.95	108.60	60.75	21.10	6.70	1.95	
11	1.45	3.65	1.55	4.48	39.20	10.40	16.75	92.20	52.25	19.45	6.30	1.90	
12	1.50	3.20	1.70	4.40	40.60	9.00	16.15	71.10	44.50	18.25	6.00	1.90	
13	1.60	2.45	1.90	10.30	29.20	8.00	16.00	84.80	38.40	17.50	5.80	1.85	
14	1.65	2.30	1.95	14.00	23.20	7.80	14.60	113.45	33.60	16.75	5.60	1.80	
15	1.75	2.00	3.65	10.00	21.55	9.30	13.20	101.80	28.80	15.00	5.20	1.85	
16	2.37	1.80	4.10	6.20	21.55	11.20	10.50	87.60	24.70	14.30	5.50	1.85	
17	3.20	1.55	5.80	5.10	21.70	14.90	20.35	113.90	22.60	13.50	5.70	1.80	
18	3.72	1.45	7.30	4.78	21.85	17.05	20.20	168.00	21.10	12.70	5.70	1.75	
19	4.48	1.45	6.50	4.48	22.00	23.05	21.10	172.80	18.55	12.20	5.50	1.70	
20	4.10	1.40	6.60	5.20	20.95	32.40	26.20	161.45	19.00	11.40	5.20	1.65	
21	3.05	1.40	6.00	9.40	15.30	45.25	33.60	140.55	20.20	10.80	5.20	1.65	
22	2.60	1.45	4.62	9.90	12.70	55.50	35.00	114.35	23.05	10.30	5.20	1.65	
23	2.23	1.60	3.57	6.70	11.50	64.20	34.40	91.80	35.20	9.90	4.48	1.60	
24	1.85	1.95	3.05	5.90	10.50	59.75	38.40	83.40	43.25	9.40	3.57	1.60	
25	1.90	1.80	2.60	5.20	9.90	51.75	41.00	80.95	50.00	9.00	3.27	1.55	
26	2.00	1.85	2.60	4.70	9.10	42.60	39.60	73.20	48.00	8.70	3.20	1.50	
27	2.30	1.70	2.52	3.80	8.50	37.00	35.80	64.20	65.40	8.50	3.13	1.50	
28	1.80	1.45	2.52	3.05	8.30	41.40	35.00	57.50	126.95	8.20	3.05	1.40	
29	1.25	1.25	2.15	2.45	9.90	44.25	48.75	51.00	197.70	8.10	2.98	1.35	
30	2.75	1.10	1.80	2.15	11.60	41.60	50.50	44.50	199.00	7.60		1.30	
31		1.05		2.00	12.40		48.00		181.20	7.30		1.25	
Total	80.33	81.72	85.73	150.36	417.27	724.80	879.15	2963.70	2417.45	805.90	189.28	56.77	8852.46 CMSDAY
Mean	2.68	2.64	2.86	4.85	13.46	24.16	28.36	98.79	77.98	26.00	6.53	1.83	24.19 CMS
Max	7.10	5.90	7.30	14.00	40.60	64.20	50.50	172.80	199.00	144.95	14.50	2.82	199.00 CMS
Min	1.25	1.05	1.10	1.45	2.00	6.30	10.50	44.50	18.55	7.30	2.98	1.25	1.05 CMS
Runoff	6.941	7.061	7.407	12.991	36.052	62.623	75.959	256.064	208.868	69.630	16.354	4.905	764.853 MCM

Momentary Peak 200.50 CMS, at 8.02 M (MSL), at 18.00 Hours, on Dec 29, 1995

Runoff Yield 15.48 Liters/Second/Square KM, Momentary Peak Yield 128.361 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

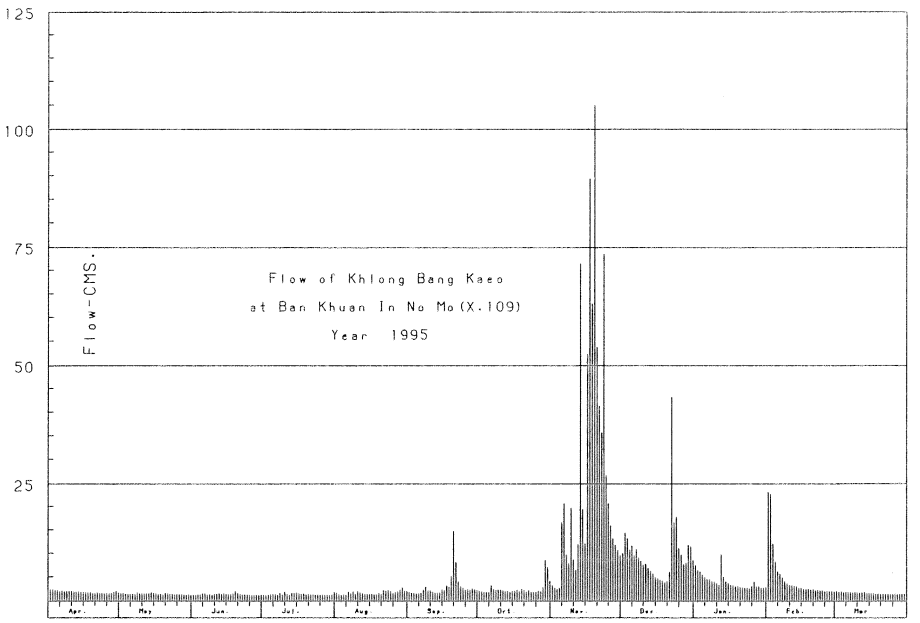
Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.66	7.62	7.61	7.62	7.80	8.51	8.55	8.73	9.78	8.52	8.10	8.04	
2	7.65	7.62	7.61	7.61	7.80	8.43	9.06	8.66	9.69	8.50	8.29	7.96	
3	7.65	7.62	7.61	7.61	7.80	8.37	9.11	8.63	9.78	8.48	8.44	7.84	
4	7.64	7.61	7.61	7.62	7.79	8.59	9.07	8.62	9.66	8.46	8.47	7.88	
5	7.64	7.61	7.61	7.68	7.80	8.57	8.90	8.78	9.53	8.43	8.38	7.87	
6	7.63	7.61	7.61	7.69	7.79	8.55	8.77	8.83	9.44	8.42	8.37	7.87	
7	7.63	7.61	7.61	7.73	7.82	8.59	8.79	8.92	9.36	8.40	8.40	7.87	
8	7.63	7.61	7.60	7.73	7.81	8.79	8.70	8.99	9.29	8.37	8.38	7.89	
9	7.63	7.61	7.60	7.75	7.80	8.81	8.66	9.13	9.24	8.36	8.33	7.89	
10	7.63	7.61	7.60	7.75	7.82	8.70	8.63	9.39	9.18	8.34	8.29	7.97	
11	7.63	7.60	7.61	7.75	7.81	8.69	8.61	9.66	9.13	8.32	8.25	7.93	
12	7.62	7.60	7.61	7.90	7.85	8.57	8.64	9.67	9.09	8.30	8.23	7.88	
13	7.62	7.60	7.64	7.94	8.12	8.50	8.60	9.49	9.04	8.28	8.20	7.82	
14	7.62	7.62	7.69	7.95	8.10	8.45	8.54	9.33	8.99	8.25	8.18	7.83	
15	7.62	7.64	7.68	7.91	8.11	8.41	8.82	9.17	8.94	8.24	8.15	7.95	
16	7.62	7.63	7.65	7.89	8.10	8.36	8.70	9.47	8.91	8.22	8.13	7.87	
17	7.62	7.62	7.74	7.84	8.10	8.41	8.67	10.84	8.88	8.20	8.11	7.79	
18	7.62	7.61	7.73	7.82	8.04	8.38	8.66	12.90	8.84	8.18	8.10	7.81	
19	7.61	7.61	7.70	7.82	8.00	8.57	9.04	12.85	8.80	8.16	8.07	7.71	
20	7.61	7.61	7.68	7.85	8.14	8.82	8.87	12.11	8.77	8.15	8.05	7.69	
21	7.61	7.61	7.67	7.88	8.16	8.96	8.74	12.88	8.83	8.12	8.07	7.69	
22	7.61	7.61	7.65	7.88	8.25	9.03	8.66	12.65	8.98	8.10	8.04	7.68	
23	7.61	7.61	7.65	7.86	8.18	8.90	8.60	11.74	8.98	8.09	8.03	7.68	
24	7.61	7.61	7.65	7.86	8.15	8.77	8.60	11.14	8.81	8.08	8.01	7.67	
25	7.61	7.61	7.64	7.86	8.13	8.74	8.64	11.17	8.73	8.18	8.00	7.66	
26	7.61	7.65	7.64	7.86	8.10	8.76	8.75	10.73	8.70	8.24	7.78	7.66	
27	7.63	7.62	7.63	7.85	8.16	8.78	8.88	10.43	8.66	8.20	7.75	7.66	
28	7.62	7.62	7.63	7.83	8.49	8.74	9.48	10.21	8.62	8.18	7.74	7.66	
29	7.65	7.62	7.63	7.82	8.84	8.67	9.39	10.23	8.60	8.15	8.16	7.66	
30	7.63	7.62	7.62	7.82	8.78	8.59	8.96	9.94	8.57	8.12		7.68	
31		7.62		7.80	8.62		8.80		8.55	8.09		7.70	
Mean	7.63	7.62	7.64	7.80	8.07	8.63	8.80	10.18	9.04	8.26	8.16	7.80	
Max	7.66	7.65	7.74	7.95	8.84	9.03	9.48	12.90	9.78	8.52	8.47	8.04	12.90
Min	7.61	7.60	7.60	7.61	7.79	8.36	8.54	8.62	8.55	8.08	7.74	7.66	7.60

Annual Max Momentary Gage Height 13.30 M (MSL), at 22.00 Hours, on Nov 18, 1995
Zero Gage at Bottom Elevation 7.20 M (MSL), River Bed 7.05 M (MSL)
Left Bank Elevation 14.68 M (MSL)
Right Bank Elevation 14.71 M (MSL), Drainage Area 180 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.06	0.03	0.06	0.60	3.45	3.65	4.68	15.04	3.50	1.60	1.36	
2	0.15	0.06	0.03	0.03	0.60	3.05	7.18	4.26	13.87	3.40	2.41	1.08	
3	0.15	0.06	0.03	0.03	0.60	2.77	7.58	4.08	15.04	3.30	3.10	0.72	
4	0.12	0.03	0.03	0.06	0.57	3.85	7.26	4.02	13.48	3.20	3.25	0.84	
5	0.12	0.03	0.03	0.24	0.60	3.75	5.90	4.98	11.86	3.05	2.81	0.81	
6	0.09	0.03	0.03	0.27	0.57	3.65	4.92	5.34	10.78	3.00	2.77	0.81	
7	0.09	0.03	0.03	0.39	0.66	3.85	5.04	6.06	9.90	2.90	2.90	0.81	
8	0.09	0.03	0.00	0.39	0.63	5.04	4.50	6.62	9.20	2.77	2.81	0.87	
9	0.09	0.03	0.00	0.45	0.60	5.18	4.26	7.74	8.70	2.72	2.59	0.87	
10	0.09	0.03	0.00	0.45	0.66	4.50	4.08	10.20	8.14	2.63	2.41	1.11	
11	0.09	0.00	0.03	0.45	0.63	4.44	3.96	13.48	7.74	2.54	2.23	0.99	
12	0.06	0.00	0.03	0.90	0.75	3.75	4.14	13.61	7.42	2.45	2.13	0.84	
13	0.06	0.00	0.12	1.02	1.68	3.40	3.90	11.38	7.02	2.36	2.00	0.66	
14	0.06	0.06	0.27	1.05	1.60	3.15	3.60	9.60	6.62	2.23	1.92	0.69	
15	0.06	0.12	0.24	0.93	1.64	2.95	5.26	8.06	6.22	2.18	1.80	1.05	
16	0.06	0.09	0.15	0.87	1.60	2.72	4.50	11.14	5.98	2.09	1.72	0.81	
17	0.06	0.06	0.42	0.72	1.60	2.95	4.32	31.24	5.74	2.00	1.64	0.57	
18	0.06	0.03	0.39	0.66	1.36	2.81	4.26	119.20	5.42	1.92	1.60	0.63	
19	0.03	0.03	0.30	0.66	1.20	3.75	7.02	115.30	5.10	1.84	1.48	0.33	
20	0.03	0.03	0.24	0.75	1.76	5.26	5.66	71.95	4.92	1.80	1.40	0.27	
21	0.03	0.03	0.21	0.84	1.84	6.38	4.74	117.64	5.34	1.68	1.48	0.27	
22	0.03	0.03	0.15	0.84	2.23	6.94	4.26	101.35	6.54	1.60	1.36	0.24	
23	0.03	0.03	0.15	0.78	1.92	5.90	3.90	56.44	6.54	1.56	1.32	0.24	
24	0.03	0.03	0.15	0.78	1.80	4.92	3.90	38.24	5.18	1.52	1.24	0.21	
25	0.03	0.03	0.12	0.78	1.72	4.74	4.14	39.02	4.68	1.92	1.20	0.18	
26	0.03	0.15	0.12	0.78	1.60	4.86	4.80	29.21	4.50	2.18	0.54	0.18	
27	0.09	0.06	0.09	0.75	1.84	4.98	5.74	24.28	4.26	2.00	0.45	0.18	
28	0.06	0.06	0.09	0.69	3.35	4.74	11.26	20.95	4.02	1.92	0.42	0.18	
29	0.15	0.06	0.09	0.66	5.42	4.32	10.20	21.25	3.90	1.80	1.84	0.18	
30	0.09	0.06	0.06	0.66	4.98	3.85	6.38	17.19	3.75	1.68		0.24	
31		0.06		0.60	4.02		5.10		3.65	1.56		0.30	
Total	2.31	1.41	3.63	18.54	50.63	125.90	165.41	928.51	230.55	71.30	54.42	18.52	1671.13 CMSDAY
Mean	0.08	0.05	0.12	0.60	1.63	4.20	5.34	30.95	7.44	2.30	1.88	0.60	4.57 CMS
Max	0.18	0.15	0.42	1.05	5.42	6.94	11.26	119.20	15.04	3.50	3.25	1.36	119.20 CMS
Min	0.03	0.00	0.00	0.03	0.57	2.72	3.60	4.02	3.65	1.52	0.42	0.18	0.00 CMS
Runoff	0.200	0.122	0.314	1.602	4.374	10.878	14.291	80.223	19.920	6.160	4.702	1.600	144.386 MCM

Momentary Peak 156.10 CMS, at 13.30 M (MSL), at 22.00 Hours, on Nov 18, 1995

Runoff Yield 25.37 Liters/Second/Square KM, Momentary Peak Yield 867.222 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

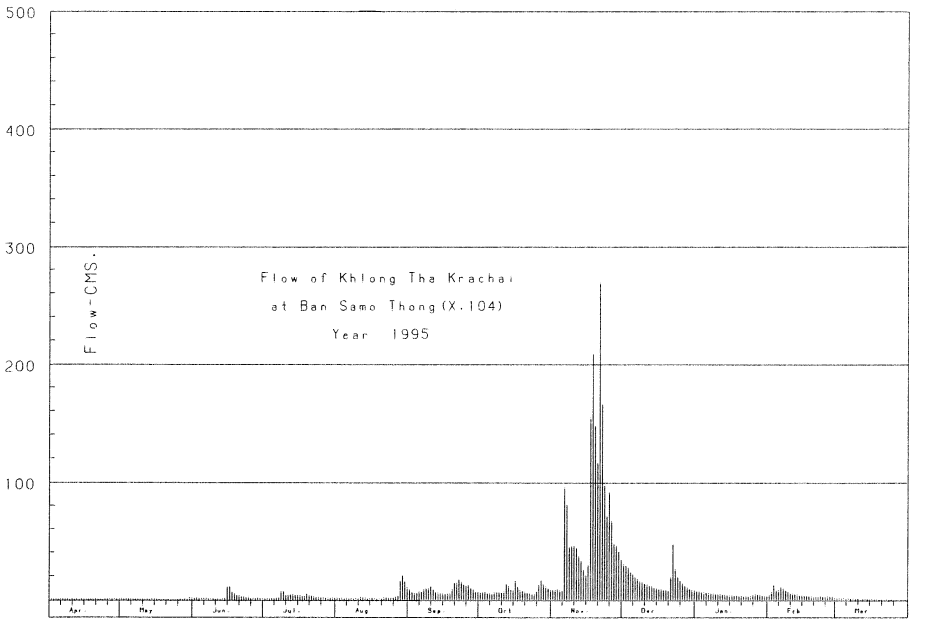
Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.97	6.99	7.03	7.00	7.04	7.48	7.33	7.46	8.20	7.42	7.20	7.04	
2	6.97	6.98	7.03	7.00	7.03	7.37	7.37	7.46	8.17	7.41	7.37	7.04	
3	6.96	6.98	7.02	6.99	7.03	7.32	7.36	7.50	8.12	7.39	7.64	7.04	
4	6.98	6.98	7.00	7.00	7.02	7.32	7.31	7.44	8.01	7.37	7.46	7.04	
5	6.98	6.97	7.03	7.01	7.02	7.40	7.29	7.43	7.95	7.35	7.47	7.01	
6	6.98	6.97	7.00	7.02	7.00	7.39	7.27	9.54	7.88	7.33	7.57	7.01	
7	6.97	6.97	7.00	7.06	6.99	7.48	7.34	9.28	7.82	7.31	7.52	7.01	
8	6.97	6.96	6.99	7.41	6.99	7.52	7.38	8.58	7.76	7.29	7.46	7.01	
9	6.97	6.95	6.99	7.42	7.00	7.53	7.36	8.59	7.72	7.28	7.39	6.99	
10	6.96	6.95	6.97	7.20	6.99	7.59	7.35	8.59	7.69	7.27	7.33	6.99	
11	6.96	6.95	6.97	7.20	7.08	7.47	7.41	8.56	7.65	7.26	7.31	6.99	
12	6.96	6.96	6.96	7.25	7.09	7.38	7.67	8.39	7.61	7.25	7.27	6.99	
13	6.96	6.96	6.99	7.25	7.04	7.34	7.59	8.28	7.59	7.23	7.24	6.99	
14	6.96	6.97	7.02	7.21	7.00	7.32	7.48	8.06	7.55	7.21	7.20	6.99	
15	6.96	6.97	7.56	7.19	7.00	7.29	7.45	7.93	7.52	7.19	7.19	6.96	
16	6.96	6.97	7.58	7.18	7.04	7.27	7.76	8.17	7.50	7.19	7.18	6.96	
17	6.95	6.93	7.38	7.14	7.00	7.28	7.58	10.45	7.49	7.18	7.16	6.96	
18	6.95	6.92	7.29	7.13	6.99	7.31	7.45	11.17	7.47	7.17	7.16	6.96	
19	6.96	6.92	7.20	7.29	6.99	7.49	7.43	10.35	7.45	7.17	7.14	6.94	
20	6.96	6.93	7.17	7.19	7.00	7.71	7.40	9.88	7.44	7.15	7.10	6.94	
21	6.95	6.92	7.13	7.18	7.08	7.70	7.33	11.92	7.87	7.14	7.10	6.94	
22	6.95	6.92	7.10	7.12	7.07	7.81	7.29	10.61	8.63	7.14	7.13	6.94	
23	6.95	6.92	7.07	7.09	7.03	7.73	7.26	9.58	8.08	7.14	7.14	6.94	
24	6.95	6.93	7.14	7.08	7.04	7.65	7.25	9.10	7.88	7.15	7.13	6.92	
25	6.97	6.94	7.02	7.07	7.05	7.62	7.41	9.47	7.78	7.23	7.13	6.92	
26	6.97	6.95	7.02	7.04	7.09	7.62	7.63	9.02	7.68	7.26	7.13	6.92	
27	6.98	6.95	7.03	7.03	7.17	7.53	7.78	8.64	7.61	7.26	7.13	6.90	
28	6.98	6.95	7.02	7.04	7.76	7.47	7.66	8.60	7.55	7.23	7.13	6.90	
29	6.98	6.96	7.01	7.03	7.92	7.39	7.58	8.49	7.51	7.18	7.04	6.90	
30	6.99	7.05	7.00	7.04	7.75	7.36	7.52	8.30	7.46	7.15		6.91	
31		7.04		7.04	7.55		7.45		7.45	7.15		6.91	
Mean	6.97	6.96	7.09	7.13	7.12	7.47	7.44	8.89	7.74	7.24	7.26	6.97	
Max	6.99	7.05	7.58	7.42	7.92	7.81	7.78	11.92	8.63	7.42	7.64	7.04	11.92
Min	6.95	6.92	6.96	6.99	6.99	7.27	7.25	7.43	7.44	7.14	7.04	6.90	6.90

Annual Max Momentary Gage Height 12.10 M (MSL), at 21.00 Hours, on Nov 21, 1995
Zero Gage at Bottom Elevation 6.70 M (MSL), River Bed 6.45 M (MSL)
Left Bank Elevation 15.32 M (MSL)
Right Bank Elevation 15.46 M (MSL), Drainage Area 354 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.70	1.90	2.42	2.00	2.56	9.56	6.75	9.12	31.00	8.24	4.80	2.56	
2	1.70	1.80	2.42	2.00	2.42	7.35	7.35	9.12	29.95	8.02	7.35	2.56	
3	1.60	1.80	2.28	1.90	2.42	6.60	7.20	10.00	28.20	7.65	13.64	2.56	
4	1.80	1.80	2.00	2.00	2.28	6.60	6.45	8.68	24.35	7.35	9.12	2.56	
5	1.80	1.70	2.42	2.14	2.28	7.80	6.15	8.46	22.45	7.05	9.34	2.14	
6	1.80	1.70	2.00	2.28	2.00	7.65	5.85	96.52	20.28	6.75	11.82	2.14	
7	1.70	1.70	2.00	2.84	1.90	9.56	6.90	81.80	18.42	6.45	10.52	2.14	
8	1.70	1.60	1.90	8.02	1.90	10.52	7.50	45.76	16.76	6.15	9.12	2.14	
9	1.70	1.50	1.90	8.24	2.00	10.78	7.20	46.18	15.72	6.00	7.65	1.90	
10	1.60	1.50	1.70	4.80	1.90	12.34	7.05	46.18	14.94	5.85	6.75	1.90	
11	1.60	1.50	1.70	4.80	3.12	9.34	8.02	44.92	13.90	5.70	6.45	1.90	
12	1.60	1.60	1.60	5.55	3.26	7.50	14.42	37.84	12.86	5.55	5.85	1.90	
13	1.60	1.60	1.90	5.55	2.56	6.90	12.34	33.88	12.34	5.25	5.40	1.90	
14	1.60	1.70	2.28	4.95	2.00	6.60	9.56	26.10	11.30	4.95	4.80	1.90	
15	1.60	1.70	11.56	4.66	2.00	6.15	8.90	21.83	10.52	4.66	4.66	1.60	
16	1.60	1.70	12.08	4.52	2.56	5.85	16.76	29.95	10.00	4.66	4.52	1.60	
17	1.50	1.30	7.50	3.96	2.00	6.00	12.08	155.55	9.78	4.52	4.24	1.60	
18	1.50	1.20	6.15	3.82	1.90	6.45	8.90	209.69	9.34	4.38	4.24	1.60	
19	1.60	1.20	4.80	6.15	1.90	9.78	8.46	148.50	8.90	4.38	3.96	1.40	
20	1.60	1.30	4.38	4.66	2.00	15.46	7.80	117.08	8.68	4.10	3.40	1.40	
21	1.50	1.20	3.82	4.52	3.12	15.20	6.75	270.36	19.97	3.96	3.40	1.40	
22	1.50	1.20	3.40	3.68	2.98	18.11	6.15	166.96	48.04	3.96	3.82	1.40	
23	1.50	1.20	2.98	3.26	2.42	15.98	5.70	98.84	26.80	3.96	3.96	1.40	
24	1.50	1.30	3.96	3.12	2.56	13.90	5.55	72.00	20.28	4.10	3.82	1.20	
25	1.70	1.40	2.28	2.98	2.70	13.12	8.02	92.46	17.28	5.25	3.82	1.20	
26	1.70	1.50	2.28	2.56	3.26	13.12	13.38	67.68	14.68	5.70	3.82	1.20	
27	1.80	1.50	2.42	2.42	4.38	10.78	17.28	48.52	12.86	5.70	3.82	1.00	
28	1.80	1.50	2.28	2.56	16.76	9.34	14.16	46.60	11.30	5.25	3.82	1.00	
29	1.80	1.60	2.14	2.42	21.52	7.65	12.08	41.98	10.26	4.52	2.56	1.00	
30	1.90	2.70	2.00	2.56	16.50	7.20	10.52	34.60	9.12	4.10		1.10	
31		2.56		2.56	11.30		8.90		8.90	4.10		1.10	
Total	49.60	49.46	102.55	117.48	132.46	293.19	284.13	2127.16	529.18	168.26	170.47	52.40	4076.34 CMSDAY
Mean	1.65	1.60	3.42	3.79	4.27	9.77	9.17	70.91	17.07	5.43	5.88	1.69	11.14 CMS
Max	1.90	2.70	12.08	8.24	21.52	18.11	17.28	270.36	48.04	8.24	13.64	2.56	270.36 CMS
Min	1.50	1.20	1.60	1.90	1.90	5.85	5.55	8.46	8.68	3.96	2.56	1.00	1.00 CMS
Runoff	4.285	4.273	8.860	10.150	11.445	25.332	24.549	183.787	45.721	14.538	14.729	4.527	352.196 MCM

Momentary Peak 285.50 CMS, at 12.10 M (MSL), at 21.00 Hours, on Nov 21, 1995

Runoff Yield 31.46 Liters/Second/Square KM, Momentary Peak Yield 806.497 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

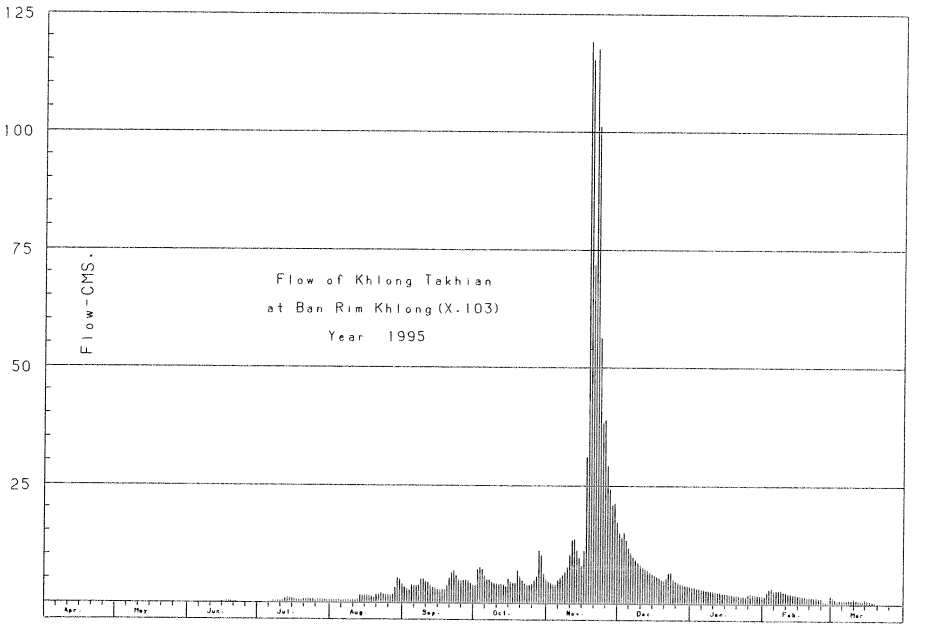
Khlong Mai Siap at Ban Mai Siap, Nakhon Si Thammarat (X.105)

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 fair. Stage-discharge relation defined by 31 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.19	11.26	11.09	11.09	11.13	11.52	11.34	11.10	12.91	12.48	12.48	11.13	
2	11.30	11.13	11.10	11.09	11.22	11.39	11.31	11.09	12.97	12.46	12.12	11.12	
3	11.31	11.12	11.09	11.09	11.16	11.35	11.18	11.11	12.98	12.45	12.43	11.12	
4	11.18	11.13	11.09	11.12	11.11	11.33	11.11	11.10	12.98	12.35	12.22	11.14	
5	11.15	11.11	11.08	11.10	11.11	11.31	11.10	11.15	12.92	12.25	12.12	11.13	
6	11.16	11.12	11.09	11.10	11.22	11.32	11.11	11.24	12.86	12.24	11.94	11.12	
7	11.18	11.11	11.09	11.10	11.20	11.34	11.34	11.13	12.32	12.24	11.88	11.12	
8	11.24	11.11	11.09	11.10	11.27	11.35	11.33	11.13	12.22	12.17	11.84	11.13	
9	11.24	11.11	11.09	11.10	11.32	11.33	11.29	11.35	12.20	12.15	11.81	11.12	
10	11.16	11.11	11.38	11.12	11.30	11.32	11.15	11.20	12.19	12.12	11.80	11.11	
11	11.15	11.11	11.38	11.21	12.35	11.27	11.13	11.21	12.17	12.13	11.79	11.12	
12	11.14	11.11	11.31	11.15	11.57	11.19	11.12	11.29	12.12	12.23	11.78	11.10	
13	11.14	11.12	11.25	11.12	11.33	11.17	11.12	11.43	12.06	12.44	11.77	11.11	
14	11.14	11.11	11.21	11.12	11.24	11.12	11.24	11.36	11.21	12.44	11.76	11.13	
15	11.20	11.10	11.11	11.10	11.13	11.12	11.32	11.73	11.49	12.29	11.75	11.10	
16	11.19	11.11	11.10	11.10	11.13	11.12	11.28	13.53	11.52	11.56	11.74	11.11	
17	11.18	11.11	11.11	11.10	11.18	11.59	11.13	13.27	11.53	11.49	11.74	11.12	
18	11.13	11.11	11.13	11.10	11.15	11.60	11.13	13.03	11.50	11.49	11.74	11.33	
19	11.12	11.11	11.12	11.10	11.17	11.57	11.12	15.00	11.87	11.50	11.73	11.28	
20	11.11	11.12	11.52	11.19	11.13	11.69	11.11	12.95	12.34	11.50	11.30	11.74	
21	11.12	11.12	11.34	11.35	11.11	12.09	11.23	14.09	12.59	11.51	11.19	11.72	
22	11.12	11.11	11.16	11.26	11.12	11.72	11.43	14.82	12.85	11.64	11.18	11.89	
23	11.11	11.10	11.13	11.24	11.45	11.47	11.33	13.20	12.59	11.64	11.17	11.46	
24	11.11	11.36	11.27	11.22	11.67	11.33	11.26	12.66	12.46	11.73	11.16	11.19	
25	11.12	11.18	11.22	11.19	11.72	11.25	11.14	12.94	12.40	11.76	11.16	11.14	
26	11.12	11.13	11.20	11.12	11.69	11.15	11.12	11.58	12.37	11.78	11.16	11.13	
27	11.12	11.12	11.17	11.10	11.66	11.12	11.11	11.49	12.36	11.86	11.16	11.11	
28	11.13	11.18	11.11	11.10	11.66	11.11	11.11	12.74	12.41	11.81	11.16	11.11	
29	11.12	11.22	11.12	11.09	11.79	11.11	11.10	12.65	12.47	11.91	11.14	11.10	
30	11.37	11.11	11.10	11.10	11.98	11.11	11.12	12.96	12.48	11.95		11.11	
31		11.10		11.10	11.64		11.11		12.49	11.93		11.12	
Mean	11.17	11.13	11.18	11.13	11.38	11.35	11.19	12.18	12.32	11.98	11.66	11.21	
Max	11.37	11.36	11.52	11.35	12.35	12.09	11.43	15.00	12.98	12.48	12.48	11.89	15.00
Min	11.11	11.10	11.08	11.09	11.11	11.11	11.10	11.09	11.21	11.49	11.14	11.10	11.08

Annual Max Momentary Gage Height 16.19 M (MSL), at 13.00 Hours, on Nov 22, 1995
Zero Gage at Bottom Elevation 10.49 M (MSL), River Bed 10.59 M (MSL)
Left Bank Elevation 20.23 M (MSL)
Right Bank Elevation 19.75 M (MSL), Drainage Area 155 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.95	1.30	0.45	0.45	0.65	2.72	1.70	0.50	16.65	10.80	10.80	0.65	
2	1.50	0.65	0.50	0.45	1.10	1.95	1.55	0.45	17.55	10.60	7.20	0.60	
3	1.55	0.60	0.45	0.45	0.80	1.75	0.90	0.55	17.70	10.50	10.30	0.60	
4	0.90	0.65	0.45	0.60	0.55	1.65	0.55	0.50	17.70	9.50	8.20	0.70	
5	0.75	0.55	0.40	0.50	0.55	1.55	0.50	0.75	16.80	8.50	7.20	0.65	
6	0.80	0.60	0.45	0.50	1.10	1.60	0.55	1.20	15.90	8.40	5.52	0.60	
7	0.90	0.55	0.45	0.50	1.00	1.70	1.70	0.65	9.20	8.40	5.04	0.60	
8	1.20	0.55	0.45	0.50	1.35	1.75	1.65	0.65	8.20	7.70	4.72	0.65	
9	1.20	0.55	0.45	0.50	1.60	1.65	1.45	1.75	8.00	7.50	4.48	0.60	
10	0.80	0.55	1.90	0.60	1.50	1.60	0.75	1.00	7.90	7.20	4.40	0.55	
11	0.75	0.55	1.90	1.05	9.50	1.35	0.65	1.05	7.70	7.30	4.34	0.60	
12	0.70	0.55	1.55	0.75	3.02	0.95	0.60	1.45	7.20	8.30	4.28	0.50	
13	0.70	0.60	1.25	0.60	1.65	0.85	0.60	2.18	6.60	10.40	4.22	0.55	
14	0.70	0.55	1.05	0.60	1.20	0.60	1.20	1.80	1.05	10.40	4.16	0.65	
15	1.00	0.50	0.55	0.50	0.65	0.60	1.60	3.98	2.54	8.90	4.10	0.50	
16	0.95	0.55	0.50	0.50	0.65	0.60	1.40	28.75	2.72	2.96	4.04	0.55	
17	0.90	0.55	0.55	0.50	0.90	3.14	0.65	23.40	2.78	2.54	4.04	0.60	
18	0.65	0.55	0.65	0.50	0.75	3.20	0.65	18.60	2.60	2.54	4.04	1.65	
19	0.60	0.55	0.60	0.50	0.85	3.02	0.60	84.00	4.96	2.60	3.98	1.40	
20	0.55	0.60	2.72	0.95	0.65	3.74	0.55	17.25	9.40	2.60	1.50	4.04	
21	0.60	0.60	1.70	1.75	0.55	6.90	1.15	45.65	11.90	2.66	0.95	3.92	
22	0.60	0.55	0.80	1.30	0.60	3.92	2.18	75.00	15.75	3.44	0.90	5.12	
23	0.55	0.50	0.65	1.20	2.30	2.42	1.65	22.00	11.90	3.44	0.85	2.36	
24	0.55	1.80	1.35	1.10	3.62	1.65	1.30	12.90	10.60	3.98	0.80	0.95	
25	0.60	0.90	1.10	0.95	3.92	1.25	0.70	17.10	10.00	4.16	0.80	0.70	
26	0.60	0.65	1.00	0.60	3.74	0.75	0.60	3.08	9.70	4.28	0.80	0.65	
27	0.60	0.60	0.85	0.50	3.56	0.60	0.55	2.54	9.60	4.88	0.80	0.55	
28	0.65	0.90	0.55	0.50	3.56	0.55	0.55	14.10	10.10	4.48	0.80	0.55	
29	0.60	1.10	0.60	0.45	4.34	0.55	0.50	12.75	10.70	5.28	0.70	0.50	
30	1.85	0.55	0.50	0.50	5.84	0.55	0.60	17.40	10.80	5.60		0.55	
31		0.50		0.50	3.44		0.55		10.90	5.44		0.60	
Total	25.25	20.75	26.37	20.85	65.49	55.11	30.13	412.98	305.10	195.28	113.96	33.69	1304.96 CMSDAY
Mean	0.84	0.67	0.88	0.67	2.11	1.84	0.97	13.77	9.84	6.30	3.93	1.09	3.57 CMS
Max	1.85	1.80	2.72	1.75	9.50	6.90	2.18	84.00	17.70	10.80	10.80	5.12	84.00 CMS
Min	0.55	0.50	0.40	0.45	0.55	0.55	0.50	0.45	1.05	2.54	0.70	0.50	0.40 CMS
Runoff	2.182	1.793	2.278	1.801	5.658	4.762	2.603	35.681	26.361	16.872	9.846	2.911	112.749 MCM

Momentary Peak 153.30 CMS, at 16.19 M (MSL), at 13.00 Hours, on Nov 22, 1995
Runoff Yield 23.00 Liters/Second/Square KM, Momentary Peak Yield 989.032 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

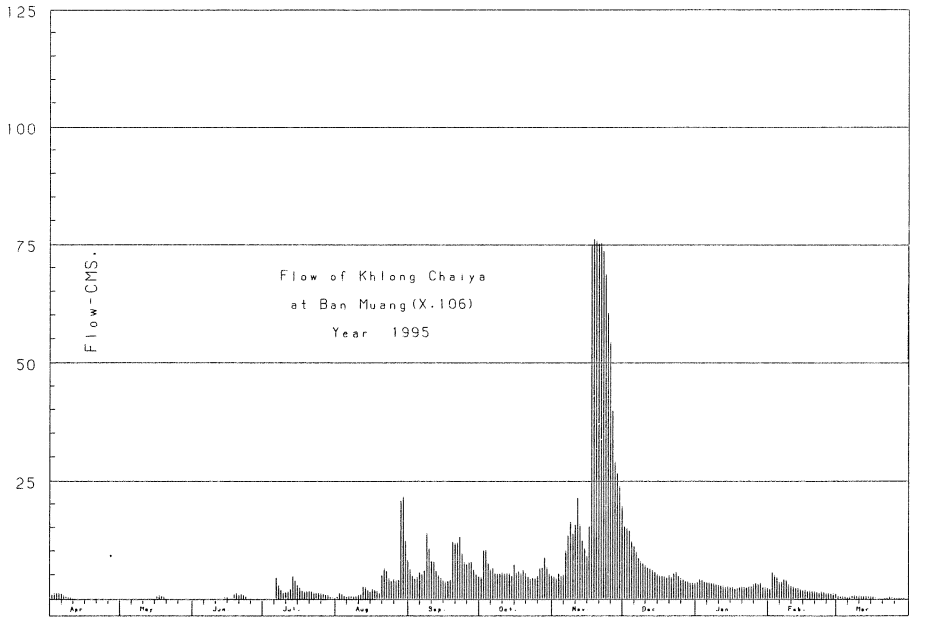
Khlong Chaiya at Ban Muang, Surat Thani (X.106)

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	Overbank flow starts at elevation + 10.26 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Flow regulated by Chaiya weir about 4 kilometers above gage site. Stage-discharge relation defined by 19 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.96	6.56	6.60	6.66	6.84	7.91	7.64	7.66	8.68	7.48	7.23	6.87	
2	7.03	6.56	6.60	6.65	7.03	7.70	8.31	7.61	8.65	7.57	7.82	6.86	
3	7.04	6.55	6.59	6.64	6.96	7.60	8.31	7.79	8.63	7.55	7.72	6.85	
4	7.05	6.54	6.59	6.64	6.89	7.65	8.06	7.69	8.46	7.47	7.65	6.84	
5	7.01	6.53	6.59	6.65	6.85	7.82	7.89	7.74	8.39	7.47	7.49	6.83	
6	6.90	6.53	6.58	6.63	6.85	7.74	7.92	8.30	8.28	7.45	7.48	6.85	
7	6.86	6.52	6.58	7.40	6.87	7.87	7.79	8.56	8.17	7.44	7.58	6.89	
8	6.82	6.51	6.57	7.19	6.84	8.59	7.76	8.73	8.09	7.42	7.55	6.91	
9	6.81	6.50	6.57	7.10	6.87	8.34	7.78	8.58	8.05	7.40	7.41	6.89	
10	6.78	6.49	6.56	7.08	6.93	8.11	7.80	8.70	8.00	7.36	7.33	6.88	
11	6.73	6.47	6.57	7.09	6.94	8.08	7.77	8.99	7.98	7.36	7.30	6.88	
12	6.69	6.48	6.57	7.23	7.32	7.86	7.79	8.70	7.92	7.34	7.27	6.88	
13	6.65	6.49	6.70	7.69	7.30	7.71	7.78	8.48	7.87	7.31	7.25	6.87	
14	6.64	6.69	6.81	7.52	7.19	7.63	7.70	8.34	7.83	7.31	7.22	6.87	
15	6.66	6.63	6.80	7.37	7.12	7.54	8.03	8.21	7.75	7.30	7.19	6.86	
16	6.67	6.87	6.61	7.27	7.22	7.49	7.80	8.68	7.70	7.28	7.20	6.86	
17	6.66	6.91	6.80	7.16	7.19	7.51	7.85	10.50	7.70	7.25	7.15	6.79	
18	6.63	6.88	6.97	7.11	7.13	7.54	7.77	10.53	7.66	7.25	7.15	6.76	
19	6.62	6.83	7.01	7.14	7.03	8.46	7.88	10.52	7.64	7.30	7.14	6.75	
20	6.61	6.78	6.92	7.13	7.72	8.43	7.78	10.51	7.71	7.30	7.12	6.74	
21	6.60	6.70	6.96	7.12	7.91	8.44	7.67	10.51	7.65	7.30	7.10	6.76	
22	6.60	6.64	6.94	7.08	7.85	8.54	7.60	10.48	7.79	7.29	7.04	6.79	
23	6.58	6.63	6.83	7.04	7.61	8.25	7.61	10.38	7.82	7.31	7.09	6.83	
24	6.57	6.61	6.76	7.02	7.52	8.07	7.62	10.21	7.70	7.33	7.08	6.82	
25	6.56	6.64	6.73	7.00	7.57	8.03	7.69	10.06	7.61	7.41	7.03	6.81	
26	6.55	6.71	6.68	6.98	7.53	8.06	7.91	9.67	7.57	7.44	7.02	6.78	
27	6.53	6.69	6.66	6.95	7.55	8.09	7.94	9.30	7.52	7.41	7.01	6.79	
28	6.52	6.64	6.78	6.91	8.96	7.88	8.18	9.21	7.49	7.44	7.01	6.78	
29	6.51	6.62	6.71	6.83	9.00	7.75	7.94	9.09	7.46	7.30	7.00	6.77	
30	6.61	6.61	6.66	6.79	8.48	7.66	7.78	8.90	7.44	7.28		6.73	
31		6.61		6.75	8.12		7.70		7.42	7.25		6.72	
Mean	6.72	6.63	6.71	7.06	7.39	7.95	7.84	9.09	7.89	7.37	7.26	6.82	
Max	7.05	6.91	7.01	7.69	9.00	8.59	8.31	10.53	8.68	7.57	7.82	6.91	10.53
Min	6.51	6.47	6.56	6.64	6.84	7.49	7.60	7.61	7.42	7.25	7.00	6.72	6.47

Annual Max Momentary Gage Height 10.54 M (MSL), at 12.00 Hours, on Nov 18, 1995
Zero Gage at Bottom Elevation 7.06 M (MSL), River Bed 5.86 M (MSL)
Left Bank Elevation 10.25 M (MSL)
Right Bank Elevation 10.32 M (MSL), Drainage Area 309 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.04	0.00	0.00	0.00	0.56	6.48	4.64	4.76	15.50	3.68	2.18	0.68	
2	1.32	0.00	0.00	0.00	1.32	5.00	10.37	4.46	14.97	4.22	5.76	0.64	
3	1.36	0.00	0.00	0.00	1.04	4.40	10.37	5.54	14.62	4.10	5.12	0.60	
4	1.40	0.00	0.00	0.00	0.76	4.70	7.74	4.94	12.21	3.62	4.70	0.56	
5	1.24	0.00	0.00	0.00	0.60	5.76	6.32	5.24	11.29	3.62	3.74	0.52	
6	0.80	0.00	0.00	4.58	0.60	5.24	6.56	10.25	10.02	3.50	3.68	0.60	
7	0.64	0.00	0.00	3.20	0.68	6.16	5.54	13.56	8.80	3.44	4.28	0.76	
8	0.48	0.00	0.00	1.96	0.56	13.96	5.36	16.37	8.01	3.32	4.10	0.84	
9	0.44	0.00	0.00	1.60	0.68	10.71	5.48	13.83	7.65	3.20	3.26	0.76	
10	0.32	0.00	0.00	1.52	0.92	8.20	5.60	15.85	7.20	2.96	2.78	0.72	
11	0.12	0.00	0.00	1.56	0.96	7.92	5.42	21.59	7.04	2.96	2.60	0.72	
12	0.00	0.00	0.00	2.18	2.72	6.08	5.54	15.85	6.56	2.84	2.42	0.72	
13	0.00	0.00	0.00	4.94	2.60	5.06	5.48	12.48	6.16	2.66	2.30	0.68	
14	0.00	0.00	0.44	3.92	1.96	4.58	5.00	10.71	5.84	2.66	2.12	0.68	
15	0.00	0.00	0.40	3.02	1.68	4.04	7.47	9.22	5.30	2.60	1.96	0.64	
16	0.00	0.68	0.00	2.42	2.12	3.74	5.60	15.50	5.00	2.48	2.00	0.64	
17	0.00	0.84	0.40	1.84	1.96	3.86	6.00	74.85	5.00	2.30	1.80	0.36	
18	0.00	0.72	1.08	1.64	1.72	4.04	5.42	76.39	4.76	2.30	1.80	0.24	
19	0.00	0.52	1.24	1.76	1.32	12.21	6.24	75.88	4.64	2.60	1.76	0.20	
20	0.00	0.32	0.88	1.72	5.12	11.81	5.48	75.37	5.06	2.60	1.68	0.16	
21	0.00	0.00	1.04	1.68	6.48	11.94	4.82	75.37	4.70	2.60	1.60	0.24	
22	0.00	0.00	0.96	1.52	6.00	13.29	4.40	73.82	5.54	2.54	1.36	0.36	
23	0.00	0.00	0.52	1.36	4.46	9.68	4.46	68.75	5.76	2.66	1.56	0.52	
24	0.00	0.00	0.24	1.28	3.92	7.83	4.52	60.68	5.00	2.78	1.52	0.48	
25	0.00	0.00	0.12	1.20	4.22	7.47	4.94	54.39	4.46	3.26	1.32	0.44	
26	0.00	0.04	0.00	1.12	3.98	7.74	6.48	39.98	4.22	3.44	1.28	0.32	
27	0.00	0.00	0.00	1.00	4.10	8.01	6.72	29.15	3.92	3.26	1.24	0.36	
28	0.00	0.00	0.32	0.84	20.96	6.24	8.90	26.77	3.74	3.44	1.24	0.32	
29	0.00	0.00	0.04	0.52	21.80	5.30	6.72	23.92	3.56	2.60	1.20	0.28	
30	0.00	0.00	0.00	0.36	12.48	4.76	5.48	19.70	3.44	2.48		0.12	
31		0.00		0.20	8.30		5.00		3.32	2.30		0.08	
Total	9.16	3.12	7.68	48.94	126.58	216.21	188.07	955.17	213.29	93.02	72.36	15.24	1948.84 CMSDAY
Mean	0.31	0.10	0.26	1.58	4.08	7.21	6.07	31.84	6.88	3.00	2.50	0.49	5.32 CMS
Max	1.40	0.84	1.24	4.94	21.80	13.96	10.37	76.39	15.50	4.22	5.76	0.84	76.39 CMS
Min	0.00	0.00	0.00	0.00	0.56	3.74	4.40	4.46	3.32	2.30	1.20	0.08	0.00 CMS
Runoff	0.791	0.270	0.664	4.228	10.937	18.681	16.249	82.527	18.428	8.037	6.252	1.317	168.380 MCM

Momentary Peak 76.91 CMS, at 10.54 M (MSL), at 12.00 Hours, on Nov 18, 1995
Runoff Yield 17.23 Liters/Second/Square KM, Momentary Peak Yield 248.900 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

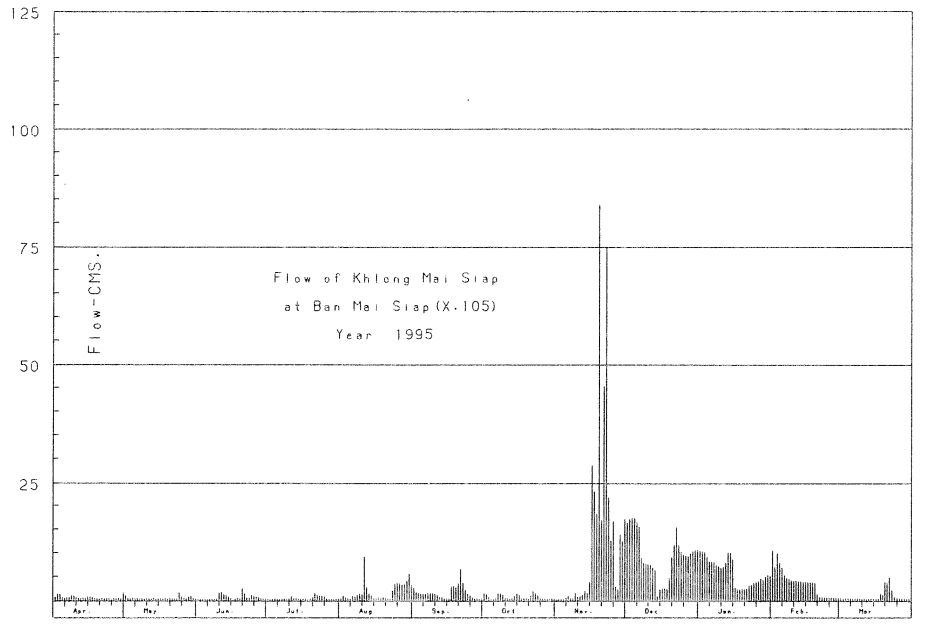
Khlong Bang Kaeo at Ban Khuan In No Mo, Phatthalung (X.109)

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 good. Stage-discharge relation defined by 39 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.53	0.48	0.47	0.55	0.56	0.61	0.76	1.37	1.17	2.18	0.59	
2	0.64	0.53	0.48	0.47	0.49	0.55	0.58	0.70	1.67	1.10	2.16	0.58	
3	0.63	0.52	0.48	0.47	0.48	0.53	0.58	0.65	1.60	1.06	1.52	0.58	
4	0.62	0.51	0.49	0.50	0.48	0.53	0.57	0.70	1.42	1.01	1.23	0.57	
5	0.60	0.51	0.53	0.50	0.48	0.52	0.57	1.81	1.49	0.95	1.07	0.57	
6	0.60	0.50	0.51	0.49	0.57	0.55	0.76	2.05	1.33	0.92	1.02	0.57	
7	0.59	0.50	0.49	0.48	0.53	0.63	0.66	1.35	1.43	0.90	0.95	0.56	
8	0.59	0.55	0.49	0.53	0.58	0.73	0.62	1.20	1.30	0.87	0.86	0.56	
9	0.60	0.53	0.48	0.49	0.52	0.60	0.64	1.99	1.24	0.85	0.82	0.56	
10	0.59	0.51	0.49	0.57	0.59	0.62	0.64	1.26	1.18	0.82	0.78	0.56	
11	0.58	0.52	0.51	0.50	0.56	0.57	0.61	1.10	1.20	0.80	0.76	0.55	
12	0.58	0.53	0.53	0.49	0.53	0.55	0.60	1.50	1.13	1.35	0.75	0.56	
13	0.58	0.52	0.50	0.53	0.51	0.54	0.60	4.12	1.07	0.95	0.73	0.56	
14	0.57	0.56	0.53	0.54	0.50	0.55	0.57	1.98	1.03	0.86	0.70	0.54	
15	0.56	0.53	0.50	0.55	0.51	0.64	0.59	1.52	0.95	0.81	0.69	0.53	
16	0.56	0.52	0.49	0.52	0.51	0.63	0.60	3.46	0.93	0.78	0.66	0.54	
17	0.55	0.50	0.50	0.51	0.50	0.75	0.64	4.68	0.90	0.76	0.66	0.53	
18	0.55	0.50	0.52	0.51	0.49	0.73	0.58	3.84	0.87	0.74	0.66	0.52	
19	0.54	0.49	0.59	0.49	0.55	0.97	0.66	5.12	0.84	0.74	0.65	0.51	
20	0.54	0.53	0.52	0.50	0.50	1.70	0.62	3.52	0.86	0.72	0.65	0.51	
21	0.54	0.53	0.50	0.49	0.63	1.23	0.58	3.03	1.06	0.70	0.62	0.51	
22	0.53	0.51	0.49	0.49	0.60	0.85	0.61	2.79	3.11	0.70	0.63	0.51	
23	0.53	0.50	0.48	0.48	0.64	0.74	0.58	4.19	1.81	0.69	0.62	0.51	
24	0.53	0.49	0.48	0.48	0.59	0.69	0.57	2.36	1.88	0.68	0.61	0.51	
25	0.52	0.49	0.48	0.47	0.54	0.64	0.58	2.05	1.45	0.74	0.60	0.51	
26	0.52	0.49	0.47	0.49	0.56	0.65	0.60	1.77	1.34	0.85	0.60	0.51	
27	0.53	0.49	0.47	0.48	0.59	0.64	0.60	1.59	1.19	0.74	0.60	0.50	
28	0.57	0.48	0.47	0.47	0.63	0.67	0.71	1.50	1.21	0.73	0.59	0.50	
29	0.59	0.48	0.47	0.47	0.71	0.65	1.26	1.41	1.50	0.70	0.59	0.51	
30	0.54	0.48	0.47	0.47	0.60	0.63	1.14	1.33	1.47	0.70		0.51	
31		0.48		0.56	0.60		0.87		1.26	0.72		0.51	
Mean	0.57	0.51	0.50	0.50	0.55	0.69	0.66	2.18	1.33	0.84	0.86	0.54	
Max	0.65	0.56	0.59	0.57	0.71	1.70	1.26	5.12	3.11	1.35	2.18	0.59	5.12
Min	0.52	0.48	0.47	0.47	0.48	0.52	0.57	0.65	0.84	0.68	0.59	0.50	0.47

Annual Max Momentary Gage Height 5.27 M (AD), at 12.00 Hours, on Nov 19, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.23 M (AD)
Left Bank Elevation 7.43 M (AD)
Right Bank Elevation 6.86 M (AD), Drainage Area 133 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.55	1.71	1.38	1.32	1.85	1.92	2.27	3.38	10.21	7.61	23.24	2.13	
2	2.48	1.71	1.38	1.32	1.44	1.85	2.06	2.90	14.52	6.70	22.88	2.06	
3	2.41	1.64	1.38	1.32	1.38	1.71	2.06	2.55	13.40	6.26	12.28	2.06	
4	2.34	1.57	1.44	1.50	1.38	1.71	1.99	2.90	10.88	5.71	8.39	1.99	
5	2.20	1.57	1.71	1.50	1.38	1.64	1.99	16.77	11.86	5.10	6.37	1.99	
6	2.20	1.50	1.57	1.44	1.99	1.85	3.38	20.90	9.69	4.80	5.82	1.99	
7	2.13	1.50	1.44	1.38	1.71	2.41	2.62	9.95	11.02	4.60	5.10	1.92	
8	2.13	1.85	1.44	1.71	2.06	3.14	2.34	8.00	9.30	4.33	4.24	1.92	
9	2.20	1.71	1.38	1.44	1.64	2.20	2.48	19.83	8.52	4.15	3.88	1.92	
10	2.13	1.57	1.44	1.99	2.13	2.34	2.48	8.78	7.74	3.88	3.54	1.92	
11	2.06	1.64	1.57	1.50	1.92	1.99	2.27	6.70	8.00	3.70	3.38	1.85	
12	2.06	1.71	1.71	1.44	1.71	1.85	2.20	12.00	7.09	9.95	3.30	1.92	
13	2.06	1.64	1.50	1.71	1.57	1.78	2.20	71.60	6.37	5.10	3.14	1.92	
14	1.99	1.92	1.71	1.78	1.50	1.85	1.99	19.66	5.93	4.24	2.90	1.78	
15	1.92	1.71	1.50	1.85	1.57	2.48	2.13	12.28	5.10	3.79	2.83	1.71	
16	1.92	1.64	1.44	1.64	1.57	2.41	2.20	52.46	4.90	3.54	2.62	1.78	
17	1.85	1.50	1.50	1.57	1.50	3.30	2.48	89.62	4.60	3.38	2.62	1.71	
18	1.85	1.50	1.64	1.57	1.44	3.14	2.06	63.20	4.33	3.22	2.62	1.64	
19	1.78	1.44	2.13	1.44	1.85	5.30	2.62	105.12	4.06	3.22	2.55	1.57	
20	1.78	1.71	1.64	1.50	1.50	15.00	2.34	54.04	4.24	3.06	2.55	1.57	
21	1.78	1.71	1.50	1.44	2.41	8.39	2.06	41.45	6.26	2.90	2.34	1.57	
22	1.71	1.57	1.44	1.44	2.20	4.15	2.27	35.78	43.45	2.90	2.41	1.57	
23	1.71	1.50	1.38	1.38	2.48	3.22	2.06	73.70	16.77	2.83	2.34	1.57	
24	1.71	1.44	1.38	1.38	2.13	2.83	1.99	26.70	17.96	2.76	2.27	1.57	
25	1.64	1.44	1.38	1.32	1.78	2.48	2.06	20.90	11.30	3.22	2.20	1.57	
26	1.64	1.44	1.32	1.44	1.92	2.55	2.20	16.12	9.82	4.15	2.20	1.57	
27	1.71	1.44	1.32	1.38	2.13	2.48	2.20	13.26	7.87	3.22	2.20	1.50	
28	1.99	1.38	1.32	1.32	2.41	2.69	2.98	12.00	8.13	3.14	2.13	1.50	
29	2.13	1.38	1.32	1.32	2.98	2.55	8.78	10.74	12.00	2.90	2.13	1.57	
30	1.78	1.38	1.32	1.32	2.20	2.41	7.22	9.69	11.58	2.90		1.57	
31		1.38		1.92	2.20		4.33		8.78	3.06		1.57	
Total	59.84	48.80	44.58	46.58	57.93	93.62	84.31	842.98	315.68	130.32	144.47	54.48	1923.59 CMSDAY
Mean	1.99	1.57	1.49	1.50	1.87	3.12	2.72	28.10	10.18	4.20	4.98	1.76	5.26 CMS
Max	2.55	1.92	2.13	1.99	2.98	15.00	8.78	105.12	43.45	9.95	23.24	2.13	105.12 CMS
Min	1.64	1.38	1.32	1.32	1.38	1.64	1.99	2.55	4.06	2.76	2.13	1.50	1.32 CMS
Runoff	5.170	4.216	3.852	4.025	5.005	8.089	7.284	72.833	27.275	11.260	12.482	4.707	166.198 MCM

Momentary Peak 110.80 CMS, at 5.27 M (AD), at 12.00 Hours, on Nov 19, 1995
Runoff Yield 39.52 Liters/Second/Square KM, Momentary Peak Yield 833.083 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

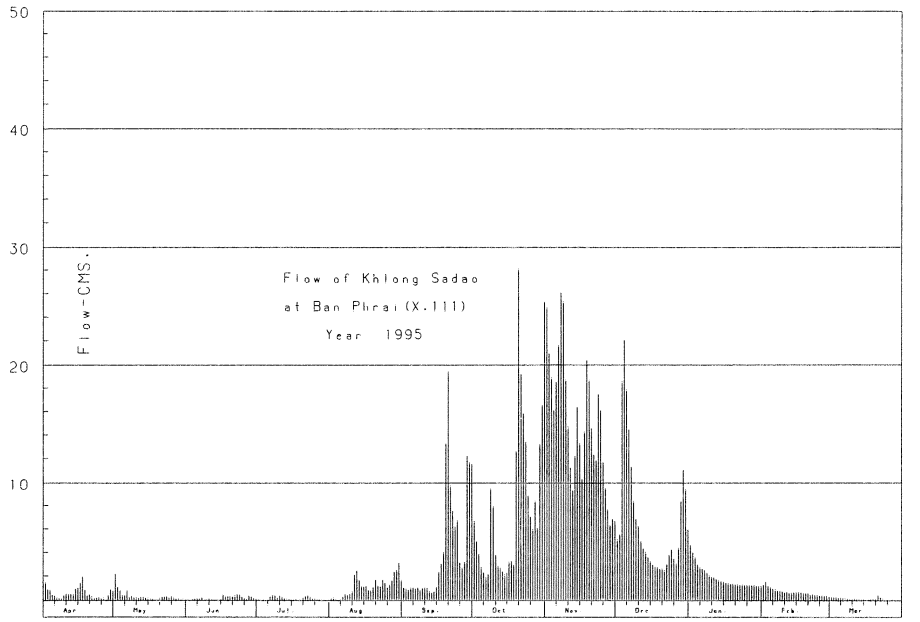
Khlong Sadao at Ban Phrai, Songkhla (X.111)

Location	Lat.06°-39'-37" N., Long. 100°-26'-09" E., on left bank at Ban Phrai, Amphoe Sadao, Songkhla.
Drainage Area	256 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	Near the top staff gage.
Elevation	+6.092 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.48	0.84	-0.31	-0.29	-0.20	0.25	2.19	3.85	1.82	1.71	0.39	-0.15	
2	0.19	0.27	-0.33	-0.30	-0.16	0.20	1.79	3.69	1.93	1.51	0.50	-0.15	
3	0.15	0.15	-0.28	-0.33	-0.26	0.17	1.44	3.58	3.56	1.35	0.34	-0.15	
4	-0.05	-0.07	-0.22	-0.51	-0.33	0.24	1.07	3.40	3.74	1.17	0.27	-0.16	
5	-0.09	-0.07	-0.21	-0.73	-0.28	0.26	0.90	3.56	3.52	1.09	0.23	-0.17	
6	-0.18	0.12	-0.20	-0.12	-0.13	0.20	0.68	3.72	3.27	1.05	0.19	-0.18	
7	-0.19	-0.15	-0.18	-0.08	-0.03	0.26	0.82	3.90	2.95	0.99	0.13	-0.20	
8	-0.26	-0.10	-0.29	-0.07	-0.06	0.14	2.71	3.87	2.53	0.90	0.12	-0.23	
9	-0.07	-0.16	-0.29	-0.20	-0.03	0.23	2.44	3.57	2.23	0.79	0.11	-0.23	
10	-0.02	-0.16	-0.20	-0.08	0.09	0.24	1.43	3.29	2.10	0.72	0.06	-0.23	
11	-0.02	-0.18	-0.29	-0.14	0.79	0.25	1.11	2.94	1.78	0.67	0.06	-0.24	
12	-0.02	-0.13	-0.30	-0.19	0.99	0.10	1.06	2.68	1.62	0.63	0.04	-0.24	
13	-0.03	-0.15	-0.32	-0.23	0.58	0.04	0.95	3.05	1.51	0.58	0.04	-0.25	
14	0.21	-0.17	-0.32	-0.25	0.29	0.06	0.81	3.42	1.37	0.53	0.06	-0.26	
15	0.23	-0.18	-0.31	-0.29	0.30	0.29	0.89	3.16	1.25	0.51	0.05	-0.28	
16	0.45	-0.23	-0.04	-0.29	0.31	0.90	1.23	2.81	1.16	0.47	0.08	-0.28	
17	0.73	-0.26	-0.10	-0.30	0.15	1.18	1.26	3.25	1.10	0.45	0.06	-0.31	
18	0.17	-0.31	-0.11	-0.32	0.13	1.50	1.14	3.66	1.08	0.42	0.03	-0.24	
19	-0.08	-0.34	-0.12	-0.31	0.28	3.16	3.10	3.57	1.05	0.42	0.02	-0.25	
20	-0.03	-0.19	-0.12	-0.19	0.60	3.61	3.96	3.28	1.04	0.41	0.02	-0.24	
21	-0.13	-0.13	-0.08	-0.11	0.33	2.74	3.60	3.07	1.00	0.40	-0.04	-0.07	
22	-0.21	-0.12	-0.02	-0.08	0.31	2.37	3.38	3.01	1.17	0.39	-0.03	-0.16	
23	-0.17	-0.14	-0.05	-0.15	0.58	2.10	3.17	3.50	1.43	0.39	-0.04	-0.22	
24	-0.16	-0.17	-0.13	-0.22	0.44	2.20	2.61	3.40	1.59	0.38	-0.05	-0.27	
25	-0.20	-0.12	-0.22	-0.24	0.26	1.21	2.27	3.00	1.33	0.38	-0.07	-0.29	
26	-0.17	-0.14	-0.25	-0.27	0.36	1.06	2.04	2.71	1.18	0.38	-0.09	-0.29	
27	-0.31	-0.23	-0.09	-0.28	0.56	1.22	2.53	2.39	1.63	0.37	-0.09	-0.29	
28	-0.09	-0.24	-0.15	-0.30	0.93	3.06	2.07	2.12	2.53	0.36	-0.09	-0.30	
29	0.17	-0.29	-0.19	-0.36	0.99	2.99	3.15	2.23	2.92	0.34	-0.13	-0.28	
30	0.10	-0.25	-0.25	-0.35	1.21	2.98	3.43	2.19	2.70	0.33		-0.30	
31		-0.28		-0.35	0.58		3.87		2.04	0.32		-0.29	
Mean	0.01	-0.12	-0.20	-0.26	0.31	1.17	2.04	3.20	1.94	0.66	0.07	-0.23	
Max	0.73	0.84	-0.02	-0.07	1.21	3.61	3.96	3.90	3.74	1.71	0.50	-0.07	3.96
Min	-0.31	-0.34	-0.33	-0.73	-0.33	0.04	0.68	2.12	1.00	0.32	-0.13	-0.31	-0.73

Annual Max Momentary Gage Height 4.03 M (AD), at 18.00 Hours, on Oct 19, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.47 M (AD)
Left Bank Elevation 4.03 M (AD)
Right Bank Elevation 4.49 M (AD), Drainage Area 256 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.56	2.28	0.09	0.11	0.20	1.10	6.75	24.90	5.18	4.74	1.38	0.30	
2	0.98	1.14	0.07	0.10	0.28	1.00	5.06	21.01	5.62	4.13	1.60	0.30	
3	0.90	0.90	0.12	0.07	0.14	0.94	3.92	18.96	18.62	3.65	1.28	0.30	
4	0.50	0.46	0.18	0.00	0.07	1.08	2.81	16.20	22.16	3.11	1.14	0.28	
5	0.42	0.46	0.19	0.00	0.12	1.12	2.40	18.62	17.94	2.87	1.06	0.26	
6	0.24	0.84	0.20	0.36	0.34	1.00	1.96	21.68	14.57	2.75	0.98	0.24	
7	0.22	0.30	0.24	0.44	0.54	1.12	2.24	26.20	11.40	2.58	0.86	0.20	
8	0.14	0.40	0.11	0.46	0.48	0.88	9.57	25.42	8.48	2.40	0.84	0.17	
9	0.46	0.28	0.11	0.20	0.54	1.06	8.00	18.79	6.95	2.18	0.82	0.17	
10	0.56	0.28	0.20	0.44	0.78	1.08	3.89	14.79	6.30	2.04	0.72	0.17	
11	0.56	0.24	0.11	0.32	2.18	1.10	2.93	11.32	5.02	1.94	0.72	0.16	
12	0.56	0.34	0.10	0.22	2.58	0.80	2.78	9.38	4.46	1.86	0.68	0.16	
13	0.54	0.30	0.08	0.17	1.76	0.68	2.50	12.25	4.13	1.76	0.68	0.15	
14	1.02	0.26	0.08	0.15	1.18	0.72	2.22	16.48	3.71	1.66	0.72	0.14	
15	1.06	0.24	0.09	0.11	1.20	1.18	2.38	13.36	3.35	1.62	0.70	0.12	
16	1.50	0.17	0.52	0.11	1.22	2.40	3.29	10.28	3.08	1.54	0.76	0.12	
17	2.06	0.14	0.40	0.10	0.90	3.14	3.38	14.35	2.90	1.50	0.72	0.09	
18	0.94	0.09	0.38	0.08	0.86	4.10	3.02	20.44	2.84	1.44	0.66	0.16	
19	0.44	0.06	0.36	0.09	1.16	13.36	12.70	18.79	2.75	1.44	0.64	0.15	
20	0.54	0.22	0.36	0.22	1.80	19.49	28.24	14.68	2.72	1.42	0.64	0.16	
21	0.34	0.34	0.44	0.38	1.26	9.78	19.30	12.43	2.60	1.40	0.52	0.46	
22	0.19	0.36	0.56	0.44	1.22	7.65	15.94	11.89	3.11	1.38	0.54	0.28	
23	0.26	0.32	0.50	0.30	1.76	6.30	13.47	17.60	3.89	1.38	0.52	0.18	
24	0.28	0.26	0.34	0.18	1.48	6.80	8.96	16.20	4.37	1.36	0.50	0.13	
25	0.20	0.36	0.18	0.16	1.12	3.23	7.15	11.80	3.59	1.36	0.46	0.11	
26	0.26	0.32	0.15	0.13	1.32	2.78	6.06	9.57	3.14	1.36	0.42	0.11	
27	0.09	0.17	0.42	0.12	1.72	3.26	8.48	7.75	4.49	1.34	0.42	0.11	
28	0.42	0.16	0.30	0.10	2.46	12.34	6.18	6.40	8.48	1.32	0.42	0.10	
29	0.94	0.11	0.22	0.04	2.58	11.72	13.25	6.95	11.16	1.28	0.34	0.12	
30	0.80	0.15	0.15	0.05	3.23	11.64	16.62	6.75	9.50	1.26		0.10	
31		0.12		0.05	1.76		25.42		6.06	1.24		0.11	
Total	18.98	12.07	7.25	5.70	38.24	132.85	250.87	455.24	212.57	61.31	21.74	5.61	1222.43 CMSDAY
Mean	0.63	0.39	0.24	0.18	1.23	4.43	8.09	15.17	6.86	1.98	0.75	0.18	3.34 CMS
Max	2.06	2.28	0.56	0.46	3.23	19.49	28.24	26.20	22.16	4.74	1.60	0.46	28.24 CMS
Min	0.09	0.06	0.07	0.00	0.07	0.68	1.96	6.40	2.60	1.24	0.34	0.09	0.00 CMS
Runoff	1.640	1.043	0.626	0.492	3.304	11.478	21.675	39.333	18.366	5.297	1.878	0.485	105.618 MCM

Momentary Peak 30.98 CMS, at 4.03 M (AD), at 18.00 Hours, on Oct 19, 1995
Runoff Yield 13.05 Liters/Second/Square KM, Momentary Peak Yield 121.016 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

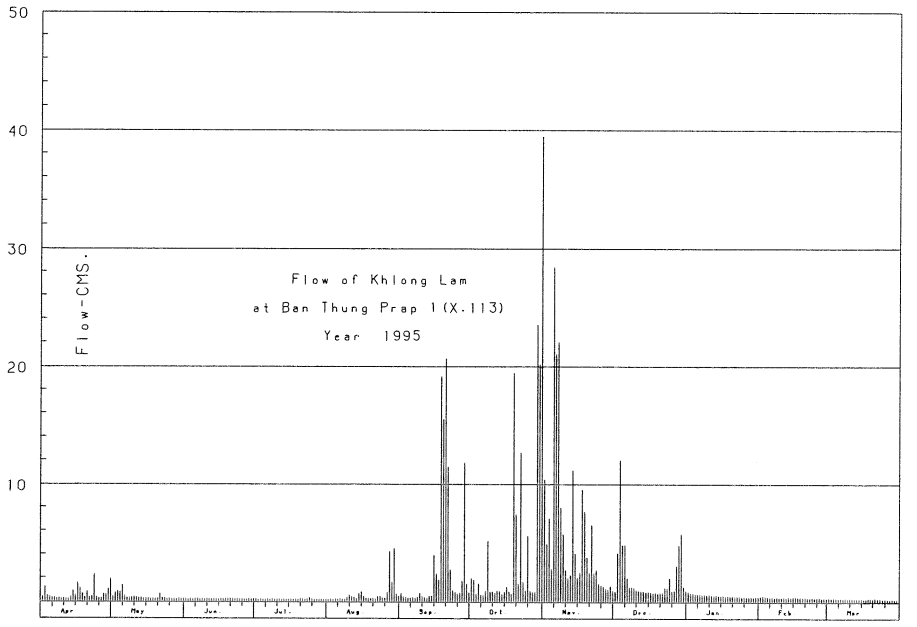
Khlong Lam at Ban Thung Prap (1), Songkhla (X.113)

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	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.06 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.45	1.47	1.27	1.26	1.23	1.74	2.45	3.91	1.91	1.86	1.50	1.33	
2	2.16	1.78	1.27	1.25	1.25	1.49	2.39	3.19	3.02	1.80	1.51	1.33	
3	1.58	1.96	1.29	1.26	1.24	1.41	1.68	3.54	4.06	1.75	1.50	1.32	
4	1.45	1.85	1.29	1.26	1.29	1.38	2.30	2.68	3.18	1.73	1.42	1.32	
5	1.41	2.23	1.31	1.26	1.27	1.37	1.64	5.09	3.17	1.69	1.42	1.32	
6	1.37	1.53	1.29	1.26	1.29	1.38	1.57	4.69	2.46	1.67	1.41	1.31	
7	1.36	1.40	1.27	1.25	1.26	1.37	1.99	4.75	2.15	1.65	1.40	1.31	
8	1.35	1.37	1.27	1.25	1.25	1.43	3.24	3.66	2.13	1.64	1.39	1.31	
9	1.32	1.43	1.27	1.25	1.43	1.78	1.87	3.33	2.13	1.63	1.40	1.30	
10	1.32	1.44	1.27	1.25	1.59	1.49	1.88	2.66	2.01	1.62	1.40	1.30	
11	1.31	1.46	1.27	1.25	1.51	1.39	1.81	2.44	1.99	1.60	1.40	1.30	
12	1.29	1.39	1.28	1.25	1.41	1.37	2.00	2.54	1.94	1.59	1.40	1.29	
13	1.43	1.38	1.28	1.25	1.33	1.51	1.93	3.98	1.91	1.58	1.42	1.29	
14	1.99	1.34	1.28	1.25	1.72	1.54	1.70	3.00	1.88	1.57	1.41	1.28	
15	1.59	1.32	1.28	1.25	1.90	2.98	1.86	2.44	1.86	1.56	1.43	1.29	
16	2.31	1.31	1.28	1.25	1.49	2.57	2.14	2.60	1.82	1.53	1.42	1.27	
17	2.11	1.30	1.29	1.24	1.36	2.41	1.92	3.83	1.80	1.51	1.42	1.27	
18	1.71	1.28	1.29	1.24	1.33	4.58	1.71	3.62	1.79	1.51	1.41	1.35	
19	1.43	1.28	1.32	1.24	1.32	4.34	4.60	2.93	1.76	1.50	1.41	1.30	
20	1.93	1.29	1.30	1.29	1.34	4.67	3.59	2.60	1.78	1.48	1.39	1.29	
21	1.40	1.75	1.29	1.27	1.30	4.01	2.27	3.46	1.78	1.48	1.38	1.33	
22	1.52	1.38	1.29	1.26	1.51	2.66	4.12	2.58	2.12	1.49	1.38	1.31	
23	2.56	1.33	1.27	1.26	1.48	2.01	2.34	2.65	2.08	1.46	1.36	1.30	
24	1.41	1.30	1.27	1.39	1.37	1.83	2.01	2.29	2.45	1.44	1.36	1.27	
25	1.35	1.29	1.26	1.27	1.31	1.74	3.30	2.22	1.94	1.43	1.35	1.25	
26	1.33	1.28	1.28	1.25	1.80	1.77	1.93	2.16	1.98	1.43	1.35	1.25	
27	1.73	1.27	1.27	1.24	3.06	2.37	1.87	2.09	2.74	1.43	1.34	1.25	
28	1.66	1.27	1.27	1.24	2.34	4.04	1.84	2.03	3.17	1.43	1.33	1.24	
29	2.07	1.33	1.27	1.23	3.11	2.27	4.84	2.19	3.33	1.42	1.33	1.24	
30	2.43	1.29	1.26	1.23	1.72	1.84	4.64	1.97	2.16	1.42		1.24	
31		1.28		1.23	1.49		5.56		1.95	1.42		1.24	
Mean	1.64	1.44	1.28	1.26	1.56	2.22	2.55	3.04	2.27	1.56	1.40	1.29	
Max	2.56	2.23	1.32	1.39	3.11	4.67	5.56	5.09	4.06	1.86	1.51	1.35	5.56
Min	1.29	1.27	1.26	1.23	1.23	1.37	1.57	1.97	1.76	1.42	1.33	1.24	1.23

Annual Max Momentary Gage Height 6.06 M (AD), at 6.00 Hours, on Oct 31, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.90 M (AD)
Left Bank Elevation 4.05 M (AD)
Right Bank Elevation 6.50 M (AD), Drainage Area 129 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.47	0.27	0.26	0.23	0.74	2.05	10.41	0.91	0.86	0.50	0.33	
2	1.32	0.78	0.27	0.25	0.25	0.49	1.87	4.95	4.18	0.80	0.51	0.33	
3	0.58	0.96	0.29	0.26	0.24	0.41	0.68	7.08	12.06	0.75	0.50	0.32	
4	0.45	0.85	0.29	0.26	0.29	0.38	1.60	2.82	4.90	0.73	0.42	0.32	
5	0.41	1.46	0.31	0.26	0.27	0.37	0.64	28.49	4.85	0.69	0.42	0.32	
6	0.37	0.53	0.29	0.26	0.29	0.38	0.57	21.03	2.08	0.67	0.41	0.31	
7	0.36	0.40	0.27	0.25	0.26	0.37	0.99	22.05	1.30	0.65	0.40	0.31	
8	0.35	0.37	0.27	0.25	0.25	0.43	5.24	8.04	1.26	0.64	0.39	0.31	
9	0.32	0.43	0.27	0.25	0.43	0.78	0.87	5.78	1.26	0.63	0.40	0.30	
10	0.32	0.44	0.27	0.25	0.59	0.49	0.88	2.74	1.02	0.62	0.40	0.30	
11	0.31	0.46	0.27	0.25	0.51	0.39	0.81	2.02	0.99	0.60	0.40	0.30	
12	0.29	0.39	0.28	0.25	0.41	0.37	1.00	2.32	0.94	0.59	0.40	0.29	
13	0.43	0.38	0.28	0.25	0.33	0.51	0.93	11.18	0.91	0.58	0.42	0.29	
14	0.99	0.34	0.28	0.25	0.72	0.54	0.70	4.10	0.88	0.57	0.41	0.28	
15	0.59	0.32	0.28	0.25	0.90	4.02	0.86	2.02	0.86	0.56	0.43	0.29	
16	1.63	0.31	0.28	0.25	0.49	2.41	1.28	2.50	0.82	0.53	0.42	0.27	
17	1.22	0.30	0.29	0.24	0.36	1.93	0.92	9.60	0.80	0.51	0.42	0.27	
18	0.71	0.28	0.29	0.24	0.33	19.16	0.71	7.68	0.79	0.51	0.41	0.35	
19	0.43	0.28	0.32	0.24	0.32	15.56	19.50	3.82	0.76	0.50	0.41	0.30	
20	0.93	0.29	0.30	0.29	0.34	20.69	7.43	2.50	0.78	0.48	0.39	0.29	
21	0.40	0.75	0.29	0.27	0.30	11.51	1.54	6.56	0.78	0.48	0.38	0.33	
22	0.52	0.38	0.29	0.26	0.51	2.74	12.74	2.44	1.24	0.49	0.38	0.31	
23	2.38	0.33	0.27	0.26	0.48	1.02	1.72	2.70	1.16	0.46	0.36	0.30	
24	0.41	0.30	0.27	0.39	0.37	0.83	1.02	1.58	2.05	0.44	0.36	0.27	
25	0.35	0.29	0.26	0.27	0.31	0.74	5.60	1.44	0.94	0.43	0.35	0.25	
26	0.33	0.28	0.28	0.25	0.80	0.77	0.93	1.32	0.98	0.43	0.35	0.25	
27	0.73	0.27	0.27	0.24	4.34	1.81	0.87	1.18	3.06	0.43	0.34	0.25	
28	0.66	0.27	0.27	0.24	1.72	11.84	0.84	1.06	4.85	0.43	0.33	0.24	
29	1.14	0.33	0.27	0.23	4.55	1.54	23.58	1.38	5.78	0.42	0.33	0.24	
30	1.99	0.29	0.26	0.23	0.72	0.84	20.18	0.97	1.32	0.42		0.24	
31		0.28		0.23	0.49		39.50		0.95	0.42		0.24	
Total	21.37	13.81	8.40	7.93	22.40	104.06	158.05	181.76	65.46	17.32	11.64	9.00	621.20 CMSDAY
Mean	0.71	0.45	0.28	0.26	0.72	3.47	5.10	6.06	2.11	0.56	0.40	0.29	1.70 CMS
Max	2.38	1.46	0.32	0.39	4.55	20.69	39.50	28.49	12.06	0.86	0.51	0.35	39.50 CMS
Min	0.29	0.27	0.26	0.23	0.23	0.37	0.57	0.97	0.76	0.42	0.33	0.24	0.23 CMS
Runoff	1.846	1.193	0.726	0.685	1.935	8.991	13.656	15.704	5.656	1.496	1.006	0.778	53.672 MCM

Momentary Peak 54.60 CMS, at 6.06 M (AD), at 6.00 Hours, on Oct 31, 1995
Runoff Yield 13.16 Liters/Second/Square KM, Momentary Peak Yield 423.256 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

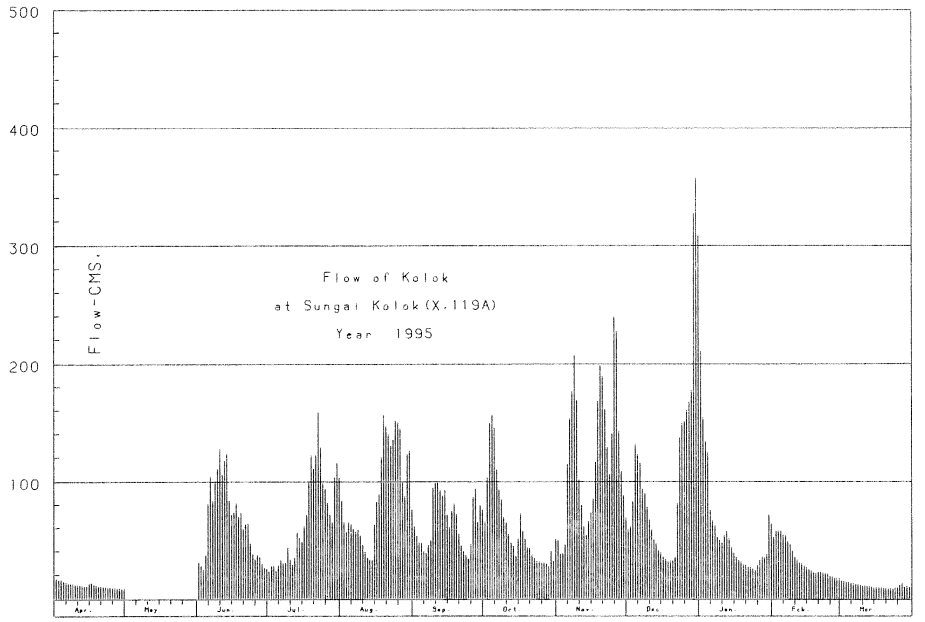
Kolok River at Sungai Kolok, Narathiwat (X.119A)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. No records on May 1-31,95. Stage-discharge relation defined by 22 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.12	*******	1.58	1.33	2.89	2.40	2.51	2.11	2.34	4.86	2.17	1.07	
2	1.10	*******	1.50	1.49	2.49	2.21	3.26	1.81	2.40	4.12	2.31	1.05	
3	1.08	*******	1.38	1.48	2.30	2.06	4.06	1.83	2.87	3.81	2.31	1.03	
4	1.03	*******	1.80	1.35	2.49	2.06	4.16	2.01	3.78	3.65	2.32	1.01	
5	1.00	*******	2.83	1.50	2.46	1.87	3.99	3.48	3.62	2.73	2.22	1.00	
6	0.98	*******	3.28	1.66	2.35	1.85	3.40	4.11	3.50	2.53	2.22	0.97	
7	0.97	*******	2.87	1.56	2.29	2.00	3.07	4.44	3.08	2.43	2.08	0.95	
8	0.95	*******	3.22	1.58	2.34	2.11	2.91	4.82	3.01	2.18	2.03	0.93	
9	0.93	*******	3.40	1.95	2.21	3.10	2.59	4.34	2.77	2.11	1.88	0.92	
10	0.91	*******	3.71	1.68	2.02	3.21	2.49	3.23	2.55	2.06	1.75	0.90	
11	0.91	*******	3.32	1.53	1.86	3.18	2.23	2.81	2.34	2.21	1.66	0.89	
12	0.88	*******	3.54	1.72	1.73	3.06	2.06	2.40	2.13	2.31	1.59	0.88	
13	0.87	*******	3.63	2.28	1.66	2.97	1.98	2.23	2.04	2.15	1.55	0.86	
14	0.86	*******	2.88	2.15	1.66	3.07	1.76	2.51	1.90	1.97	1.50	0.85	
15	0.98	*******	2.64	2.08	2.45	2.64	2.14	2.68	1.85	1.84	1.44	0.80	
16	0.97	*******	2.68	2.41	2.86	2.39	2.66	2.91	1.75	1.74	1.40	0.81	
17	0.93	*******	2.84	2.64	3.00	2.70	2.31	3.52	1.68	1.66	1.35	0.82	
18	0.90	*******	2.59	3.19	3.58	2.84	2.14	4.32	1.63	1.61	1.31	0.81	
19	0.86	*******	2.68	3.61	4.16	2.64	1.95	4.72	1.63	1.54	1.28	0.80	
20	0.85	*******	2.36	3.41	4.01	2.25	1.94	4.60	1.65	1.51	1.32	0.78	
21	0.84	*******	2.45	3.61	3.91	1.99	1.80	4.23	1.74	1.47	1.32	0.78	
22	0.82	*******	2.47	4.20	3.75	1.88	1.72	3.72	2.83	1.45	1.31	0.77	
23	0.81	*******	2.04	3.73	3.84	1.78	1.63	3.31	3.87	1.40	1.27	0.76	
24	0.80	*******	1.82	3.18	4.09	1.69	1.60	3.92	4.05	1.37	1.28	0.79	
25	0.80	*******	1.68	3.09	4.07	2.03	1.57	5.15	4.08	1.53	1.21	0.82	
26	0.79	*******	1.79	2.84	3.98	2.94	1.57	5.03	4.21	1.65	1.18	0.92	
27	0.78	*******	1.74	2.64	3.21	3.09	1.55	3.95	4.32	1.76	1.16	0.99	
28	0.77	*******	1.54	2.49	2.95	2.49	1.47	3.37	4.45	1.72	1.15	0.84	
29	0.76	*******	1.44	3.28	3.63	2.80	1.88	2.97	5.80	1.82	1.14	0.86	
30	0.75	*******	1.40	3.50	3.67	2.72	1.63	2.58	5.97	2.63		0.84	
31		*******		3.26	2.73		2.13		5.68	2.47		0.81	
Mean	0.90	*******	2.44	2.47	2.92	2.47	2.33	3.44	3.08	2.20	1.61	0.88	
Max	1.12	*******	3.71	4.20	4.16	3.21	4.16	5.15	5.97	4.86	2.32	1.07	5.97
Min	0.75	*******	1.38	1.33	1.66	1.69	1.47	1.81	1.63	1.37	1.14	0.76	*******

Annual Max Momentary Gage Height 6.00 M (A.D), at 6.00 Hours, on Dec 30, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.06 M (A.D)
Left Bank Elevation 6.20 M (A.D)
Right Bank Elevation 0.00 M (A.D), Drainage Area 1358 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.60	*******	31.40	23.90	84.50	62.00	66.45	50.40	59.60	211.40	52.80	16.25	
2	17.00	*******	29.00	28.70	65.60	54.40	103.30	38.40	62.00	154.40	58.40	15.75	
3	16.50	*******	25.40	28.40	58.00	48.40	150.40	39.20	83.50	134.60	58.40	15.25	
4	15.25	*******	38.00	24.50	65.60	48.40	157.20	46.40	132.80	125.00	58.80	14.75	
5	14.50	*******	81.50	29.00	64.40	40.80	145.85	115.40	123.20	76.50	54.80	14.50	
6	14.00	*******	104.40	33.80	60.00	40.00	111.00	153.70	116.50	67.35	54.80	13.75	
7	13.75	*******	83.50	30.80	57.60	46.00	93.50	177.00	94.00	63.20	49.20	13.25	
8	13.25	*******	101.10	31.40	59.60	50.40	85.50	207.80	90.50	53.20	47.20	12.75	
9	12.75	*******	111.00	44.00	54.40	95.00	70.05	169.80	78.50	50.40	41.20	12.50	
10	12.25	*******	128.60	34.40	46.80	100.55	65.60	101.65	68.25	48.40	36.50	12.00	
11	12.25	*******	106.60	29.90	40.40	99.00	55.20	80.50	59.60	54.40	33.80	11.80	
12	11.60	*******	118.70	35.60	35.90	93.00	48.40	62.00	51.20	58.40	31.70	11.60	
13	11.40	*******	123.80	57.20	33.80	88.50	45.20	55.20	47.60	52.00	30.50	11.20	
14	11.20	*******	84.00	52.00	33.80	93.50	36.80	66.45	42.00	44.80	29.00	11.00	
15	14.00	*******	72.30	49.20	64.00	72.30	51.60	74.10	40.00	39.60	27.20	10.00	
16	13.75	*******	74.10	62.40	83.00	61.60	73.20	85.50	36.50	36.20	26.00	10.20	
17	12.75	*******	82.00	72.30	90.00	75.00	58.40	117.60	34.40	33.80	24.50	10.40	
18	12.00	*******	70.05	99.50	120.90	82.00	51.60	168.40	32.90	32.30	23.30	10.20	
19	11.20	*******	74.10	122.60	157.20	72.30	44.00	199.20	32.90	30.20	22.40	10.00	
20	11.00	*******	60.40	111.55	147.15	56.00	43.60	189.50	33.50	29.30	23.60	9.60	
21	10.80	*******	64.00	122.60	140.65	45.60	38.00	162.10	36.20	28.10	23.60	9.60	
22	10.40	*******	64.80	160.00	131.00	41.20	35.60	129.20	81.50	27.50	23.30	9.40	
23	10.20	*******	47.60	129.80	136.40	37.40	32.90	106.05	138.20	26.00	22.10	9.20	
24	10.00	*******	38.80	99.00	152.35	34.70	32.00	141.30	149.75	25.10	22.40	9.80	
25	10.00	*******	34.40	94.50	151.05	47.20	31.10	240.00	151.70	29.90	20.30	10.40	
26	9.80	*******	37.70	82.00	145.20	87.00	31.10	228.00	160.70	33.50	19.40	12.50	
27	9.60	*******	36.20	72.30	100.55	94.50	30.50	143.25	168.40	36.80	18.80	14.25	
28	9.40	*******	30.20	65.60	87.50	65.60	28.10	109.35	177.75	35.60	18.50	10.80	
29	9.20	*******	27.20	104.40	123.80	80.00	41.20	88.50	328.00	38.80	18.20	11.20	
30	9.00	*******	26.00	116.50	126.20	76.00	32.90	69.60	358.30	71.85		10.80	
31		*******		103.30	76.50		51.20		310.00	64.80		10.20	
Total	366.40	*******	2006.85	2151.15	2793.85	1988.35	1941.45	3615.55	3379.95	1813.40	970.70	364.90	******** CMSDAY
Mean	12.21	*******	66.90	69.39	90.12	66.28	62.63	120.52	109.03	58.50	33.47	11.77	******** CMS
Max	17.60	*******	128.60	160.00	157.20	100.55	157.20	240.00	358.30	211.40	58.80	16.25	358.30 CMS
Min	9.00	*******	25.40	23.90	33.80	34.70	28.10	38.40	32.90	25.10	18.20	9.20	******** CMS
Runoff	31.657	*******	173.392	185.859	241.389	171.793	167.741	312.384	292.028	156.678	83.868	31.527	******** MCM

Momentary Peak 364.00 CMS, at 6.00 M (A.D), at 6.00 Hours, on Dec 30, 1995
Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield 268.041 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

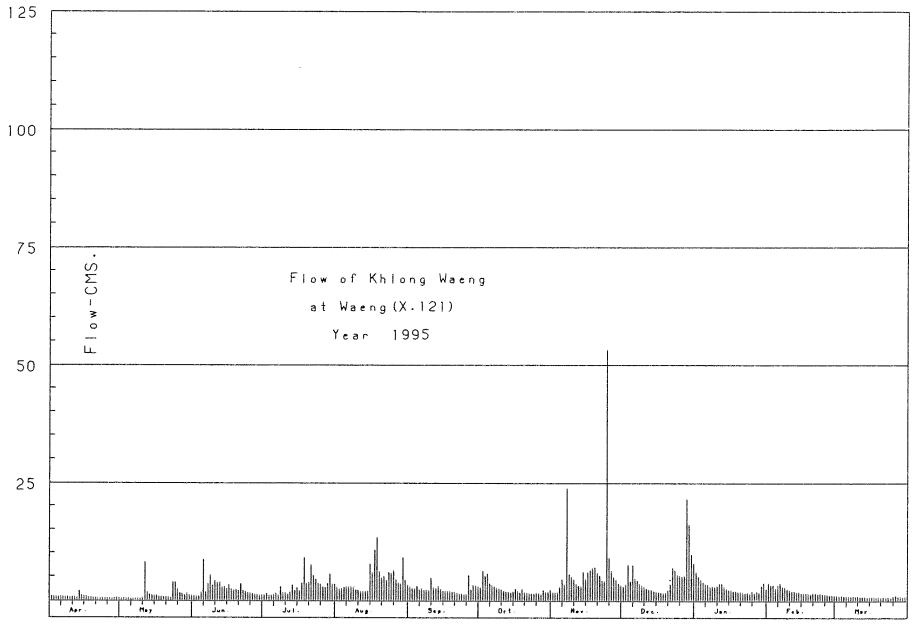
Khlong Waeng at Waeng, Narathiwat (X.121)

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.
Overbank Flow Conditions	Overbank flow starts at elevation +20.50 m.(M.S.L.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.71	17.59	17.72	17.75	18.04	18.07	18.03	17.88	18.08	18.46	18.18	17.74	
2	17.70	17.59	17.70	17.84	18.00	18.02	18.50	17.86	18.13	18.36	18.11	17.74	
3	17.69	17.58	17.69	17.75	17.99	18.00	18.37	17.88	18.64	18.27	18.13	17.73	
4	17.68	17.58	17.88	17.77	18.06	18.10	18.42	18.05	18.23	18.21	18.01	17.72	
5	17.70	17.57	18.76	17.80	18.08	17.98	18.17	18.28	18.64	18.16	18.13	17.72	
6	17.68	17.57	17.87	17.83	18.06	18.00	18.11	18.14	18.29	18.13	18.17	17.71	
7	17.68	17.58	18.16	17.77	18.08	17.96	18.09	19.67	18.25	18.08	18.08	17.70	
8	17.66	17.57	18.38	18.08	18.03	17.96	18.03	18.42	18.15	18.09	18.04	17.70	
9	17.65	17.58	18.12	17.85	17.97	17.95	18.01	18.34	18.12	18.07	17.99	17.70	
10	17.65	17.62	18.23	17.85	17.95	18.31	17.97	18.27	18.07	18.09	17.95	17.70	
11	17.65	18.71	18.18	17.81	17.91	18.03	17.93	18.16	18.02	18.16	17.92	17.69	
12	17.64	17.89	18.20	17.87	17.89	18.02	17.90	18.10	17.98	18.17	17.91	17.69	
13	17.93	17.79	18.06	18.12	17.91	18.08	17.89	18.09	17.96	18.07	17.89	17.67	
14	17.76	17.77	18.07	17.93	17.91	17.99	17.87	18.48	17.93	18.01	17.88	17.66	
15	17.72	17.73	18.01	18.05	18.67	17.94	17.89	18.29	17.90	17.97	17.85	17.66	
16	17.70	17.74	18.12	17.92	18.45	17.91	18.01	18.46	17.89	17.95	17.85	17.68	
17	17.66	17.69	18.00	18.18	18.95	17.92	17.91	18.52	17.87	17.92	17.85	17.67	
18	17.64	17.67	17.94	18.80	19.15	17.90	17.88	18.56	17.85	17.91	17.84	17.66	
19	17.64	17.66	17.97	18.16	18.49	17.89	17.98	18.59	17.87	17.90	17.82	17.66	
20	17.62	17.65	17.93	18.20	18.31	17.88	17.88	18.44	17.95	17.88	17.85	17.65	
21	17.61	17.64	18.14	18.63	18.35	17.85	17.85	18.38	18.15	17.88	17.85	17.65	
22	17.60	17.63	17.94	18.38	18.26	17.83	17.84	18.25	18.58	17.85	17.83	17.65	
23	17.60	18.19	17.89	18.27	18.46	17.82	17.82	18.22	18.51	17.85	17.83	17.64	
24	17.60	18.20	17.87	18.18	18.43	17.80	17.83	20.37	18.40	17.84	17.81	17.64	
25	17.59	17.98	17.84	18.14	18.50	17.79	17.85	18.79	18.37	17.90	17.79	17.69	
26	17.58	17.86	17.83	18.06	18.27	18.39	17.83	18.50	18.34	17.85	17.78	17.75	
27	17.59	17.82	17.81	18.05	18.19	17.98	17.81	18.34	18.37	17.91	17.77	17.70	
28	17.59	17.77	17.78	18.17	18.15	18.11	17.96	18.25	19.59	17.86	17.75	17.69	
29	17.63	17.84	17.77	18.41	18.81	18.11	17.87	18.17	19.33	18.11	17.75	17.68	
30	17.60	17.77	17.76	18.14	18.25	18.07	17.89	18.11	18.87	18.17		17.68	
31		17.74		18.15	18.13		17.95		18.67	17.98		17.67	
Mean	17.66	17.76	17.99	18.06	18.25	17.99	17.98	18.40	18.29	18.03	17.92	17.69	
Max	17.93	18.71	18.76	18.80	19.15	18.39	18.50	20.37	19.59	18.46	18.18	17.75	20.37
Min	17.58	17.57	17.69	17.75	17.89	17.79	17.81	17.86	17.85	17.84	17.75	17.64	17.57

Annual Max Momentary Gage Height 20.94 M (MSL), at 6.00 Hours, on Nov 24, 1995
Zero Gage at Bottom Elevation 15.85 M (MSL), River Bed 17.04 M (MSL)
Left Bank Elevation 21.62 M (MSL)
Right Bank Elevation 20.49 M (MSL), Drainage Area 43 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.04	0.56	1.08	1.20	2.84	3.02	2.78	1.88	3.08	6.08	3.84	1.16	
2	1.00	0.56	1.00	1.64	2.60	2.72	6.40	1.76	3.44	5.28	3.28	1.16	
3	0.96	0.52	0.96	1.20	2.54	2.60	5.36	1.88	7.66	4.56	3.44	1.12	
4	0.92	0.52	1.88	1.28	2.96	3.20	5.76	2.90	4.24	4.08	2.66	1.08	
5	1.00	0.48	8.80	1.40	3.08	2.48	3.76	4.64	7.66	3.68	3.44	1.08	
6	0.92	0.48	1.82	1.58	2.96	2.60	3.28	3.52	4.72	3.44	3.76	1.04	
7	0.92	0.52	3.68	1.28	3.08	2.36	3.14	23.96	4.40	3.08	3.08	1.00	
8	0.84	0.48	5.44	3.08	2.78	2.36	2.78	5.76	3.60	3.14	2.84	1.00	
9	0.80	0.52	3.36	1.70	2.42	2.30	2.66	5.12	3.36	3.02	2.54	1.00	
10	0.80	0.68	4.24	1.70	2.30	4.88	2.42	4.56	3.02	3.14	2.30	1.00	
11	0.80	8.30	3.84	1.46	2.06	2.78	2.18	3.68	2.72	3.68	2.12	0.96	
12	0.76	1.94	4.00	1.82	1.94	2.72	2.00	3.20	2.48	3.76	2.06	0.96	
13	2.18	1.36	2.96	3.36	2.06	3.08	1.94	3.14	2.36	3.02	1.94	0.88	
14	1.24	1.28	3.02	2.18	2.06	2.54	1.82	6.24	2.18	2.66	1.88	0.84	
15	1.08	1.12	2.66	2.90	7.93	2.24	1.94	4.72	2.00	2.42	1.70	0.84	
16	1.00	1.16	3.36	2.12	6.00	2.06	2.66	6.08	1.94	2.30	1.70	0.92	
17	0.84	0.96	2.60	3.84	10.90	2.12	2.06	6.58	1.82	2.12	1.70	0.88	
18	0.76	0.88	2.24	9.20	13.45	2.00	1.88	6.94	1.70	2.06	1.64	0.84	
19	0.76	0.84	2.42	3.68	6.32	1.94	2.48	7.21	1.82	2.00	1.52	0.84	
20	0.68	0.80	2.18	4.00	4.88	1.88	1.88	5.92	2.30	1.88	1.70	0.80	
21	0.64	0.76	3.52	7.57	5.20	1.70	1.70	5.44	3.60	1.88	1.70	0.80	
22	0.60	0.72	2.24	5.44	4.48	1.58	1.64	4.40	7.12	1.70	1.58	0.80	
23	0.60	3.92	1.94	4.56	6.08	1.52	1.52	4.16	6.49	1.70	1.58	0.76	
24	0.60	4.00	1.82	3.84	5.84	1.40	1.58	53.40	5.60	1.64	1.46	0.76	
25	0.56	2.48	1.64	3.52	6.40	1.36	1.70	9.10	5.36	2.00	1.36	0.96	
26	0.52	1.76	1.58	2.96	4.56	5.52	1.58	6.40	5.12	1.70	1.32	1.20	
27	0.56	1.52	1.46	2.90	3.92	2.48	1.46	5.12	5.36	2.06	1.28	1.00	
28	0.56	1.28	1.32	3.76	3.60	3.28	2.36	4.40	21.77	1.76	1.20	0.96	
29	0.72	1.64	1.28	5.68	9.31	3.28	1.82	3.76	16.24	3.28	1.20	0.92	
30	0.60	1.28	1.24	3.52	4.40	3.02	1.94	3.28	9.97	3.76		0.92	
31		1.16		3.60	3.44		2.30		7.93	2.48		0.88	
Total	25.26	44.48	79.58	97.97	142.39	77.02	78.78	209.15	161.06	89.36	61.82	29.36	1096.23 CMSDAY
Mean	0.84	1.43	2.65	3.16	4.59	2.57	2.54	6.97	5.20	2.88	2.13	0.95	3.00 CMS
Max	2.18	8.30	8.80	9.20	13.45	5.52	6.40	53.40	21.77	6.08	3.84	1.20	53.40 CMS
Min	0.52	0.48	0.96	1.20	1.94	1.36	1.46	1.76	1.70	1.64	1.20	0.76	0.48 CMS
Runoff	2.182	3.843	6.876	8.465	12.302	6.655	6.807	18.071	13.916	7.721	5.341	2.537	94.714 MCM

Momentary Peak 115.52 CMS, at 20.94 M (MSL), at 6.00 Hours, on Nov 24, 1995

Runoff Yield 69.65 Liters/Second/Square KM, Momentary Peak Yield 2686.512 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA WEST COAST

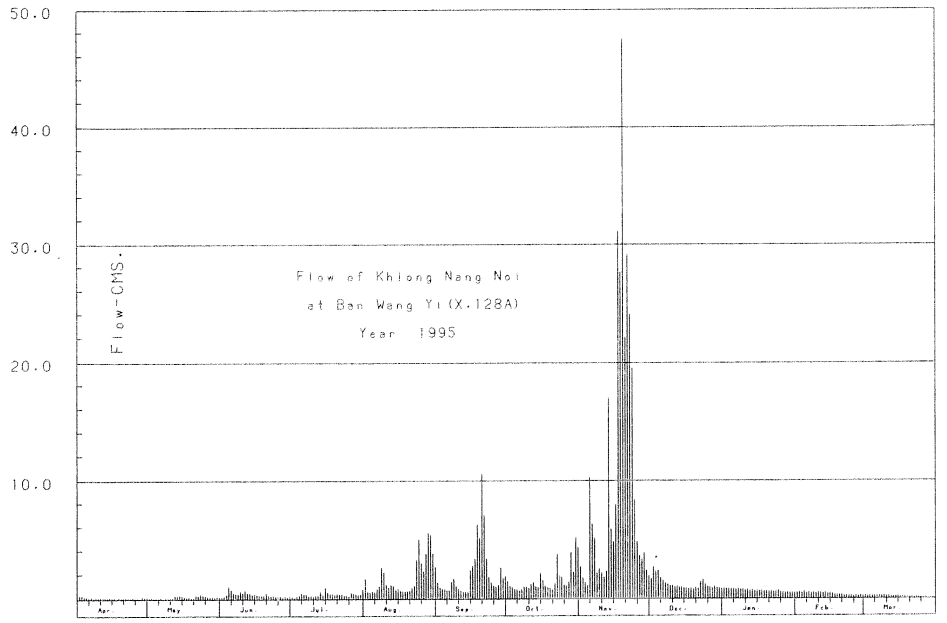
Khlong Nang Noi at Ban Wang Yi, Trang (X.128A)

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 26 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.11	0.05	0.07	0.06	0.54	0.45	0.48	0.78	0.54	0.30	0.19	0.09	
2	0.10	0.05	0.07	0.06	0.22	0.34	0.38	0.56	0.78	0.30	0.19	0.09	
3	0.08	0.04	0.14	0.07	0.18	0.28	0.33	0.45	0.68	0.30	0.18	0.09	
4	0.06	0.04	0.36	0.13	0.23	0.29	0.30	0.38	0.71	0.29	0.21	0.09	
5	0.06	0.04	0.28	0.17	0.20	0.26	0.27	2.12	0.56	0.29	0.18	0.09	
6	0.06	0.04	0.19	0.15	0.30	0.24	0.25	1.50	0.49	0.28	0.18	0.09	
7	0.05	0.03	0.15	0.13	0.36	0.48	0.27	1.27	0.45	0.28	0.18	0.09	
8	0.05	0.03	0.16	0.10	0.78	0.53	0.36	0.66	0.41	0.28	0.18	0.09	
9	0.05	0.03	0.22	0.09	0.66	0.38	0.34	0.74	0.39	0.27	0.17	0.09	
10	0.05	0.04	0.19	0.09	0.41	0.29	0.32	0.65	0.38	0.26	0.20	0.09	
11	0.05	0.05	0.24	0.09	0.32	0.24	0.41	0.57	0.35	0.26	0.17	0.08	
12	0.05	0.11	0.19	0.11	0.41	0.22	0.46	0.70	0.36	0.25	0.17	0.08	
13	0.05	0.09	0.16	0.21	0.38	0.20	0.36	2.96	0.34	0.25	0.17	0.07	
14	0.04	0.12	0.14	0.13	0.28	0.21	0.32	1.43	0.33	0.24	0.16	0.07	
15	0.05	0.09	0.14	0.34	0.29	0.72	0.65	1.21	0.32	0.24	0.16	0.07	
16	0.04	0.07	0.13	0.19	0.25	0.80	0.51	1.77	0.30	0.24	0.15	0.07	
17	0.04	0.06	0.10	0.17	0.22	0.92	0.37	4.30	0.30	0.23	0.13	0.06	
18	0.04	0.05	0.11	0.15	0.23	1.50	0.34	4.01	0.30	0.23	0.12	0.06	
19	0.05	0.04	0.10	0.14	0.22	1.27	0.31	5.51	0.29	0.22	0.12	0.06	
20	0.05	0.04	0.18	0.15	0.25	2.17	0.28	3.50	0.32	0.22	0.11	0.06	
21	0.05	0.12	0.10	0.15	0.31	1.62	0.42	4.13	0.31	0.22	0.10	0.06	
22	0.04	0.10	0.10	0.14	0.39	0.93	1.01	3.69	0.46	0.22	0.10	0.05	
23	0.04	0.13	0.09	0.12	0.90	0.56	0.61	3.24	0.52	0.21	0.10	0.05	
24	0.04	0.12	0.09	0.10	1.25	0.46	0.56	1.85	0.41	0.25	0.09	0.05	
25	0.04	0.09	0.09	0.09	0.86	0.40	0.41	1.22	0.37	0.21	0.09	0.04	
26	0.03	0.08	0.08	0.19	0.68	0.34	0.37	0.98	0.33	0.19	0.09	0.04	
27	0.03	0.07	0.07	0.15	1.02	0.41	0.47	0.91	0.32	0.19	0.09	0.04	
28	0.06	0.06	0.07	0.15	1.36	0.76	1.03	1.02	0.35	0.18	0.09	0.03	
29	0.05	0.06	0.07	0.11	1.34	0.54	0.68	0.72	0.33	0.18	0.09	0.03	
30	0.05	0.06	0.07	0.15	1.01	0.59	1.28	0.59	0.31	0.17		0.03	
31		0.06		0.28	0.79		1.11		0.30	0.17		0.03	
Mean	0.05	0.07	0.14	0.14	0.54	0.61	0.49	1.78	0.41	0.24	0.14	0.07	
Max	0.11	0.13	0.36	0.34	1.36	2.17	1.28	5.51	0.78	0.30	0.21	0.09	5.51
Min	0.03	0.03	0.07	0.06	0.18	0.20	0.25	0.38	0.29	0.17	0.09	0.03	0.03

Annual Max Momentary Gage Height 5.76 M (AD), at 14.00 Hours, on Nov 19, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.19 M (AD)
Left Bank Elevation 6.56 M (AD)
Right Bank Elevation 6.33 M (AD), Drainage Area 75 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.33	0.15	0.21	0.18	1.76	1.40	1.52	2.72	1.76	0.90	0.57	0.27	
2	0.30	0.15	0.21	0.18	0.66	1.02	1.14	1.84	2.72	0.90	0.57	0.27	
3	0.24	0.12	0.42	0.21	0.54	0.84	0.99	1.40	2.32	0.90	0.54	0.27	
4	0.18	0.12	1.08	0.39	0.69	0.87	0.90	1.14	2.44	0.87	0.63	0.27	
5	0.18	0.12	0.84	0.51	0.60	0.78	0.81	10.34	1.84	0.87	0.54	0.27	
6	0.18	0.12	0.57	0.45	0.90	0.72	0.75	6.40	1.56	0.84	0.54	0.27	
7	0.15	0.09	0.45	0.39	1.08	1.52	0.81	5.15	1.40	0.84	0.54	0.27	
8	0.15	0.09	0.48	0.30	2.72	1.72	1.08	2.24	1.24	0.84	0.54	0.27	
9	0.15	0.09	0.66	0.27	2.24	1.14	1.02	2.56	1.17	0.81	0.51	0.27	
10	0.15	0.12	0.57	0.27	1.24	0.87	0.96	2.20	1.14	0.78	0.60	0.27	
11	0.15	0.15	0.72	0.27	0.96	0.72	1.24	1.88	1.05	0.78	0.51	0.24	
12	0.15	0.33	0.57	0.33	1.24	0.66	1.44	2.40	1.08	0.75	0.51	0.24	
13	0.15	0.27	0.48	0.63	1.14	0.60	1.08	17.04	1.02	0.75	0.51	0.21	
14	0.12	0.36	0.42	0.39	0.84	0.63	0.96	5.98	0.99	0.72	0.48	0.21	
15	0.15	0.27	0.42	1.02	0.87	2.48	2.20	4.85	0.96	0.72	0.48	0.21	
16	0.12	0.21	0.39	0.57	0.75	2.80	1.64	8.02	0.90	0.72	0.45	0.21	
17	0.12	0.18	0.30	0.51	0.66	3.40	1.11	31.20	0.90	0.69	0.39	0.18	
18	0.12	0.15	0.33	0.45	0.69	6.40	1.02	27.72	0.90	0.69	0.36	0.18	
19	0.15	0.12	0.30	0.42	0.66	5.15	0.93	47.55	0.87	0.66	0.36	0.18	
20	0.15	0.12	0.54	0.45	0.75	10.69	0.84	22.20	0.96	0.66	0.33	0.18	
21	0.15	0.36	0.30	0.45	0.93	7.12	1.28	29.16	0.93	0.66	0.30	0.18	
22	0.12	0.30	0.30	0.42	1.17	3.45	3.85	24.10	1.44	0.66	0.30	0.15	
23	0.12	0.39	0.27	0.36	3.30	1.84	2.04	19.60	1.68	0.63	0.30	0.15	
24	0.12	0.36	0.27	0.30	5.05	1.44	1.84	8.50	1.24	0.75	0.27	0.15	
25	0.12	0.27	0.27	0.27	3.10	1.20	1.24	4.90	1.11	0.63	0.27	0.12	
26	0.09	0.24	0.24	0.57	2.32	1.02	1.11	3.70	0.99	0.57	0.27	0.12	
27	0.09	0.21	0.21	0.45	3.90	1.24	1.48	3.35	0.96	0.57	0.27	0.12	
28	0.18	0.18	0.21	0.45	5.60	2.64	3.95	3.90	1.05	0.54	0.27	0.09	
29	0.15	0.18	0.21	0.33	5.50	1.76	2.32	2.48	0.99	0.54	0.27	0.09	
30	0.15	0.18	0.21	0.45	3.85	1.96	5.20	1.96	0.93	0.51		0.09	
31		0.18		0.84	2.76		4.35		0.90	0.51		0.09	
Total	4.68	6.18	12.45	13.08	58.47	68.08	51.10	306.48	39.44	22.26	12.48	6.09	600.79 CMSDAY
Mean	0.16	0.20	0.42	0.42	1.89	2.27	1.65	10.22	1.27	0.72	0.43	0.20	1.64 CMS
Max	0.33	0.39	1.08	1.02	5.60	10.69	5.20	47.55	2.72	0.90	0.63	0.27	47.55 CMS
Min	0.09	0.09	0.21	0.18	0.54	0.60	0.75	1.14	0.87	0.51	0.27	0.09	0.09 CMS
Runoff	0.404	0.534	1.076	1.130	5.052	5.882	4.415	26.480	3.408	1.923	1.078	0.526	51.908 MCM

Momentary Peak 51.36 CMS, at 5.76 M (AD), at 14.00 Hours, on Nov 19, 1995

Runoff Yield 21.89 Liters/Second/Square KM, Momentary Peak Yield 684.800 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

Khlong Tha Madua at Ban Khlong Ai To, Phatthalung (X.129)

Location — Lat. 07-23-19 N., Long. 100-06-44 n., on right bank near Wat Ban Ai To, Ban Khlong Ai To, Amphoe 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 — Fairly stable.

Overbank Flow Conditions — Overbank flow starts at elevation +19.82 m.(M.S.L.),records are channel flow only.

General Description — Records fair. Flow regulated by Tha Chiat weir about 4 kilometers above gage site. Stage-discharge relation defined by 25 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

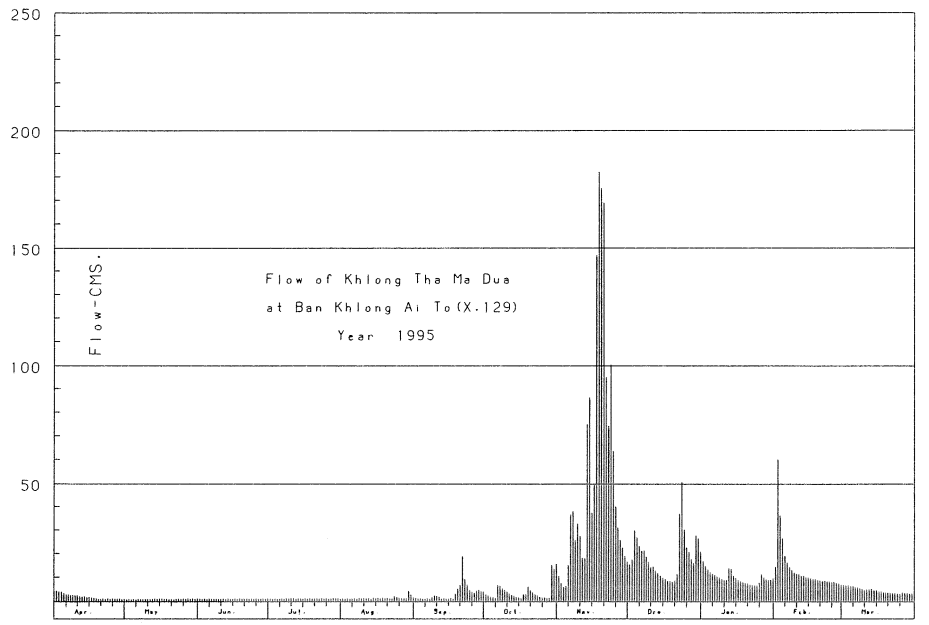
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.86	13.51	13.53	13.53	13.54	13.56	13.72	14.29	14.61	14.72	14.55	14.03	
2	13.82	13.51	13.53	13.53	13.54	13.55	13.67	14.08	14.75	14.58	16.70	14.03	
3	13.83	13.51	13.53	13.53	13.54	13.54	13.62	13.97	15.42	14.49	15.71	14.02	
4	13.76	13.51	13.53	13.53	13.54	13.54	13.58	13.99	15.27	14.40	15.25	14.01	
5	13.73	13.51	13.53	13.53	13.54	13.54	13.57	14.61	15.06	14.37	14.84	14.00	
6	13.71	13.51	13.53	13.53	13.54	13.54	14.03	15.73	14.94	14.32	14.67	13.98	
7	13.69	13.51	13.53	13.53	13.54	13.53	14.00	15.80	14.97	14.29	14.56	13.96	
8	13.68	13.51	13.52	13.54	13.55	13.59	13.93	15.20	14.82	14.25	14.46	13.95	
9	13.68	13.51	13.52	13.55	13.55	13.67	13.88	15.55	14.68	14.22	14.40	13.91	
10	13.67	13.51	13.52	13.55	13.55	13.64	13.83	15.30	14.53	14.19	14.37	13.89	
11	13.65	13.52	13.53	13.55	13.56	13.61	13.75	14.78	14.57	14.18	14.34	13.90	
12	13.63	13.53	13.53	13.54	13.55	13.55	13.69	14.78	14.45	14.52	14.31	13.91	
13	13.62	13.53	13.53	13.54	13.54	13.55	13.64	17.25	14.37	14.49	14.30	13.91	
14	13.60	13.53	13.53	13.55	13.56	13.54	13.61	17.62	14.31	14.31	14.27	13.88	
15	13.60	13.53	13.53	13.54	13.56	13.54	13.58	15.77	14.24	14.24	14.25	13.87	
16	13.58	13.53	13.53	13.54	13.56	13.55	13.56	16.27	14.20	14.18	14.23	13.84	
17	13.58	13.53	13.53	13.54	13.55	13.53	13.70	19.39	14.16	14.16	14.22	13.83	
18	13.55	13.52	13.53	13.54	13.56	13.75	13.73	20.34	14.14	14.11	14.21	13.81	
19	13.54	13.51	13.53	13.54	13.56	13.91	13.98	20.16	14.13	14.10	14.19	13.79	
20	13.53	13.51	13.53	13.53	13.55	14.02	13.88	20.00	14.16	14.08	14.17	13.80	
21	13.53	13.51	13.53	13.54	13.55	14.83	13.79	17.89	14.35	14.05	14.16	13.78	
22	13.53	13.52	13.53	13.54	13.55	14.21	13.72	17.21	15.75	14.03	14.16	13.78	
23	13.53	13.53	13.53	13.54	13.63	14.03	13.67	18.07	16.32	14.03	14.15	13.77	
24	13.53	13.53	13.53	13.54	13.60	13.89	13.61	16.83	15.44	14.01	14.14	13.76	
25	13.53	13.53	13.53	13.54	13.56	13.81	13.59	15.89	15.04	14.11	14.13	13.75	
26	13.53	13.53	13.53	13.54	13.55	13.78	13.57	15.47	14.92	14.35	14.12	13.79	
27	13.53	13.54	13.53	13.54	13.55	13.86	13.57	15.21	14.76	14.24	14.10	13.78	
28	13.53	13.53	13.53	13.54	13.55	13.88	13.56	15.02	14.66	14.20	14.07	13.77	
29	13.51	13.53	13.53	13.55	13.85	13.84	14.61	14.83	15.32	14.17	14.05	13.76	
30	13.51	13.53	13.53	13.55	13.69	13.81	14.49	14.69	15.24	14.19		13.75	
31		13.53		13.54	13.59		14.64		14.93	14.22		13.82	
Mean	13.62	13.52	13.53	13.54	13.57	13.74	13.80	16.20	14.79	14.25	14.45	13.87	
Max	13.86	13.54	13.53	13.55	13.85	14.83	14.64	20.34	16.32	14.72	16.70	14.03	20.34
Min	13.51	13.51	13.52	13.53	13.54	13.53	13.56	13.97	14.13	14.01	14.05	13.75	13.51

Annual Max Momentary Gage Height — 20.43 M (AD), at 6.00 Hours, on Nov 18, 1995

Zero Gage at Bottom Elevation — 13.30 M (AD), River Bed — 13.09 M (AD)

Left Bank Elevation — 19.81 M (AD)

Right Bank Elevation — 20.27 M (AD), Drainage Area — 332 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.78	1.10	1.30	1.30	1.40	1.60	3.20	10.85	15.66	17.46	14.75	7.12	
2	4.26	1.10	1.30	1.30	1.40	1.50	2.70	7.82	18.00	15.20	60.60	7.12	
3	4.39	1.10	1.30	1.30	1.40	1.40	2.20	6.28	30.42	13.85	36.53	6.98	
4	3.60	1.10	1.30	1.30	1.40	1.40	1.80	6.56	27.43	12.50	27.05	6.84	
5	3.30	1.10	1.30	1.30	1.40	1.40	1.70	15.66	23.58	12.05	19.62	6.70	
6	3.10	1.10	1.30	1.30	1.40	1.40	7.12	36.99	21.42	11.30	16.62	6.42	
7	2.90	1.10	1.30	1.30	1.40	1.30	6.70	38.60	21.96	10.85	14.90	6.14	
8	2.80	1.10	1.20	1.40	1.50	1.90	5.72	26.10	19.26	10.25	13.40	6.00	
9	2.80	1.10	1.20	1.50	1.50	2.70	5.04	33.15	16.78	9.80	12.50	5.44	
10	2.70	1.10	1.20	1.50	1.50	2.40	4.39	28.00	14.45	9.36	12.05	5.17	
11	2.50	1.20	1.30	1.50	1.60	2.10	3.50	18.54	15.05	9.22	11.60	5.30	
12	2.30	1.30	1.30	1.40	1.50	1.50	2.90	18.54	13.25	14.30	11.15	5.44	
13	2.20	1.30	1.30	1.40	1.40	1.50	2.40	75.55	12.05	13.85	11.00	5.44	
14	2.00	1.30	1.30	1.50	1.60	1.40	2.10	86.60	11.15	11.15	10.55	5.04	
15	2.00	1.30	1.30	1.40	1.60	1.40	1.80	37.91	10.10	10.10	10.25	4.91	
16	1.80	1.30	1.30	1.40	1.60	1.50	1.60	49.75	9.50	9.22	9.95	4.52	
17	1.80	1.30	1.30	1.40	1.50	1.30	3.00	146.93	8.94	8.94	9.80	4.39	
18	1.50	1.20	1.30	1.40	1.60	3.50	3.30	182.60	8.66	8.24	9.65	4.13	
19	1.40	1.10	1.30	1.40	1.60	5.44	6.42	175.48	8.52	8.10	9.36	3.90	
20	1.30	1.10	1.30	1.30	1.50	6.98	5.04	169.50	8.94	7.82	9.08	4.00	
21	1.30	1.10	1.30	1.40	1.50	19.44	3.90	95.08	11.75	7.40	8.94	3.80	
22	1.30	1.20	1.30	1.40	1.50	9.65	3.20	74.39	37.45	7.12	8.94	3.80	
23	1.30	1.30	1.30	1.40	2.30	7.12	2.70	100.84	51.00	7.12	8.80	3.70	
24	1.30	1.30	1.30	1.40	2.00	5.17	2.10	64.11	30.84	6.84	8.66	3.60	
25	1.30	1.30	1.30	1.40	1.60	4.13	1.90	40.67	23.22	8.24	8.52	3.50	
26	1.30	1.30	1.30	1.40	1.50	3.80	1.70	31.47	21.06	11.75	8.38	3.90	
27	1.30	1.40	1.30	1.40	1.50	4.78	1.70	26.29	18.18	10.10	8.10	3.80	
28	1.30	1.30	1.30	1.40	1.50	5.04	1.60	22.86	16.46	9.50	7.68	3.70	
29	1.10	1.30	1.30	1.50	4.65	4.52	15.66	19.44	28.40	9.08	7.40	3.60	
30	1.10	1.30	1.30	1.50	2.90	4.13	13.85	16.94	26.86	9.36		3.50	
31		1.30		1.40	1.90		16.14		21.24	9.80		4.26	
Total	66.03	37.50	38.70	43.20	52.65	111.40	137.08	1663.50	601.58	319.87	405.83	152.16	3629.50 CMSDAY
Mean	2.20	1.21	1.29	1.39	1.70	3.71	4.42	55.45	19.41	10.32	13.99	4.91	9.92 CMS
Max	4.78	1.40	1.30	1.50	4.65	19.44	16.14	182.60	51.00	17.46	60.60	7.12	182.60 CMS
Min	1.10	1.10	1.20	1.30	1.40	1.30	1.60	6.28	8.52	6.84	7.40	3.50	1.10 CMS
Runoff	5.705	3.240	3.344	3.732	4.549	9.625	11.844	143.726	51.977	27.637	35.064	13.147	313.589 MCM

Momentary Peak 186.20 CMS, at 20.43 M (AD), at 6.00 Hours, on Nov 18, 1995
Runoff Yield 29.87 Liters/Second/Square KM, Momentary Peak Yield 560.843 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA WEST COAST

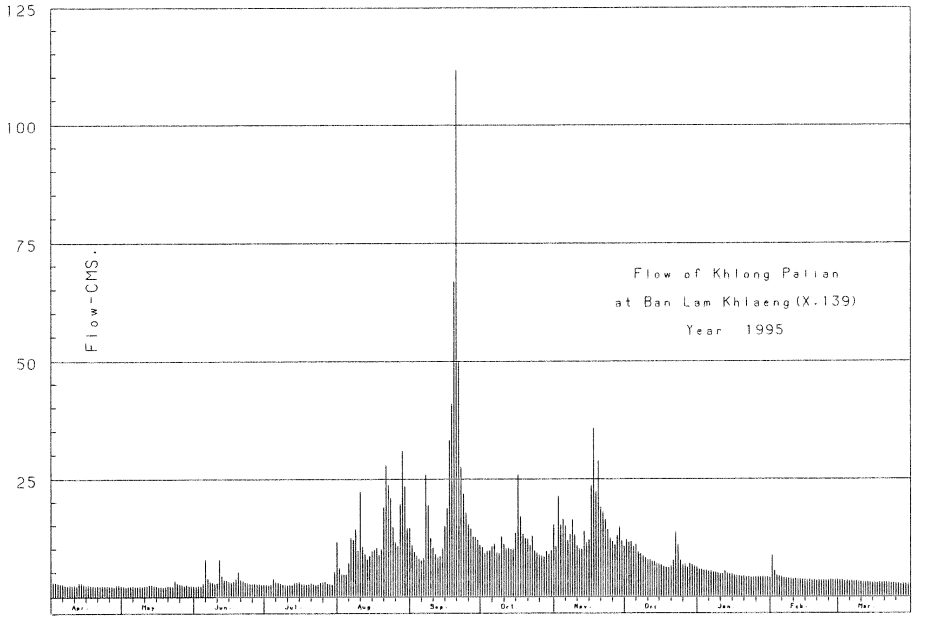
Khlong Palian at Ban Lam Khlaeng(2), Trang (X.139)

Location	Lat.07°-19'-08" N., Long. 99°-49'-03" n., on right bank at Ban Lam Khlaeng(2), Amphoe Palian, Trang.
Drainage Area	153 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 11 meters from the top staff gage.
Elevation	+5.106 m.(A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1983 to date.
Rated by Float	-
Rated by Current Meter	1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.32 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 58 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.09	0.98	0.98	1.02	1.39	1.73	1.70	1.71	1.81	1.38	1.59	1.16	
2	1.09	0.97	0.99	1.02	1.28	1.64	1.62	2.31	1.78	1.37	1.35	1.15	
3	1.06	0.97	0.99	1.02	1.28	1.58	1.65	2.00	1.78	1.36	1.26	1.14	
4	1.05	0.99	1.06	1.19	1.27	1.54	1.66	2.06	1.71	1.35	1.25	1.14	
5	1.04	0.99	1.53	1.09	1.47	1.51	1.72	1.98	1.75	1.34	1.23	1.13	
6	1.02	0.98	1.20	1.09	1.83	1.54	1.75	1.80	1.64	1.34	1.22	1.13	
7	1.01	0.98	1.10	1.05	1.81	2.53	1.63	1.88	1.61	1.33	1.20	1.13	
8	1.01	0.98	1.09	1.04	1.94	2.22	1.61	2.05	1.58	1.32	1.20	1.12	
9	1.01	0.98	1.05	1.03	1.66	1.83	1.85	1.87	1.55	1.31	1.19	1.12	
10	1.01	0.99	1.08	1.02	2.37	1.69	1.75	1.73	1.53	1.30	1.18	1.11	
11	1.00	1.00	1.52	1.02	1.71	1.60	1.68	1.68	1.52	1.29	1.18	1.10	
12	1.07	1.02	1.25	1.02	1.61	1.56	1.69	1.68	1.50	1.35	1.18	1.10	
13	1.08	1.03	1.14	1.07	1.53	1.57	1.68	1.92	1.49	1.30	1.17	1.10	
14	1.03	1.00	1.15	1.09	1.58	1.69	1.68	1.77	1.47	1.29	1.17	1.10	
15	1.01	0.98	1.11	1.10	1.65	1.98	1.89	1.81	1.45	1.28	1.16	1.08	
16	1.02	0.97	1.09	1.05	1.66	2.18	2.53	2.42	1.45	1.26	1.16	1.08	
17	1.01	0.96	1.11	1.04	1.70	2.83	2.09	2.93	1.42	1.26	1.16	1.08	
18	1.00	0.96	1.17	1.03	1.59	3.12	1.88	2.36	1.41	1.25	1.15	1.09	
19	0.99	0.96	1.33	1.03	1.67	3.97	1.83	2.66	1.40	1.24	1.15	1.10	
20	0.99	1.00	1.16	1.07	2.19	4.95	1.82	2.20	1.43	1.24	1.15	1.09	
21	0.99	0.98	1.12	1.03	2.62	3.44	1.73	2.14	1.51	1.23	1.15	1.09	
22	0.99	0.98	1.09	1.02	2.43	2.60	1.86	2.06	1.92	1.23	1.15	1.08	
23	0.99	1.13	1.07	1.02	2.29	2.34	1.66	1.94	1.74	1.22	1.15	1.08	
24	0.99	1.07	1.06	1.09	1.97	2.13	1.62	1.83	1.52	1.22	1.15	1.07	
25	0.99	1.05	1.05	1.11	1.77	2.00	1.60	1.79	1.45	1.23	1.15	1.07	
26	0.98	1.02	1.05	1.10	1.73	1.95	1.58	1.74	1.45	1.23	1.16	1.06	
27	0.97	1.00	1.05	1.06	2.23	1.85	1.57	1.86	1.41	1.23	1.16	1.05	
28	1.01	1.02	1.04	1.04	2.74	1.84	1.65	1.97	1.46	1.23	1.16	1.05	
29	1.03	1.00	1.03	1.03	2.42	1.81	1.60	1.79	1.45	1.23	1.16	1.06	
30	0.99	0.99	1.02	1.32	1.95	1.73	1.66	1.72	1.42	1.22		1.05	
31		0.98		1.78	1.96		2.00		1.41	1.21		1.05	
Mean	1.02	1.00	1.12	1.09	1.85	2.17	1.75	1.99	1.55	1.28	1.20	1.10	
Max	1.09	1.13	1.53	1.78	2.74	4.95	2.53	2.93	1.92	1.38	1.59	1.16	4.95
Min	0.97	0.96	0.98	1.02	1.27	1.51	1.57	1.68	1.40	1.21	1.15	1.05	0.96

Annual Max Momentary Gage Height 5.90 M (AD), at 14.00 Hours, on Sep 20, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.60 M (AD)
Left Bank Elevation 4.31 M (AD)
Right Bank Elevation 4.44 M (AD), Drainage Area 153 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.12	2.26	2.26	2.56	6.08	10.95	10.50	10.65	12.17	5.96	8.86	3.68	
2	3.12	2.19	2.33	2.56	4.80	9.60	9.30	21.40	11.70	5.84	5.60	3.60	
3	2.88	2.19	2.33	2.56	4.80	8.72	9.75	15.40	11.70	5.72	4.60	3.52	
4	2.80	2.33	2.88	3.92	4.70	8.16	9.90	16.54	10.65	5.60	4.50	3.52	
5	2.72	2.33	8.02	3.12	7.18	7.74	10.80	15.06	11.25	5.48	4.30	3.44	
6	2.56	2.26	4.00	3.12	12.51	8.16	11.25	12.00	9.60	5.48	4.20	3.44	
7	2.48	2.26	3.20	2.80	12.17	26.06	9.45	13.36	9.15	5.36	4.00	3.44	
8	2.48	2.26	3.12	2.72	14.38	19.60	9.15	16.35	8.72	5.24	4.00	3.36	
9	2.48	2.26	2.80	2.64	9.90	12.51	12.85	13.19	8.30	5.12	3.92	3.36	
10	2.48	2.33	3.04	2.56	22.60	10.35	11.25	10.95	8.02	5.00	3.84	3.28	
11	2.40	2.40	7.88	2.56	10.65	9.00	10.20	10.20	7.88	4.90	3.84	3.20	
12	2.96	2.56	4.50	2.56	9.15	8.44	10.35	10.20	7.60	5.60	3.84	3.20	
13	3.04	2.64	3.52	2.96	8.02	8.58	10.20	14.04	7.46	5.00	3.76	3.20	
14	2.64	2.40	3.60	3.12	8.72	10.35	10.20	11.55	7.18	4.90	3.76	3.20	
15	2.48	2.26	3.28	3.20	9.75	15.06	13.53	12.17	6.90	4.80	3.68	3.04	
16	2.56	2.19	3.12	2.80	9.90	18.82	26.06	23.64	6.90	4.60	3.68	3.04	
17	2.48	2.12	3.28	2.72	10.50	33.38	17.11	35.98	6.48	4.60	3.68	3.04	
18	2.40	2.12	3.76	2.64	8.86	40.98	13.36	22.40	6.34	4.50	3.60	3.12	
19	2.33	2.12	5.36	2.64	10.05	67.01	12.51	29.04	6.20	4.40	3.60	3.20	
20	2.33	2.40	3.68	2.96	19.01	111.85	12.34	19.20	6.62	4.40	3.60	3.12	
21	2.33	2.26	3.36	2.64	28.08	50.00	10.95	18.06	7.74	4.30	3.60	3.12	
22	2.33	2.26	3.12	2.56	23.86	27.60	13.02	16.54	14.04	4.30	3.60	3.04	
23	2.33	3.44	2.96	2.56	21.00	22.00	9.90	14.38	11.10	4.20	3.60	3.04	
24	2.33	2.96	2.88	3.12	14.89	17.87	9.30	12.51	7.88	4.20	3.60	2.96	
25	2.33	2.80	2.80	3.28	11.55	15.40	9.00	11.85	6.90	4.30	3.60	2.96	
26	2.26	2.56	2.80	3.20	10.95	14.55	8.72	11.10	6.90	4.30	3.68	2.88	
27	2.19	2.40	2.80	2.88	19.80	12.85	8.58	13.02	6.34	4.30	3.68	2.80	
28	2.48	2.56	2.72	2.72	31.04	12.68	9.75	14.89	7.04	4.30	3.68	2.80	
29	2.64	2.40	2.64	2.64	23.64	12.17	9.00	11.85	6.90	4.30	3.68	2.88	
30	2.33	2.33	2.56	5.24	14.55	10.95	9.90	10.80	6.48	4.20		2.80	
31		2.26		11.70	14.72		15.40		6.34	4.10		2.80	
Total	76.29	74.11	104.60	99.26	417.81	641.39	353.58	468.32	258.48	149.30	117.58	98.08	2858.80 CMSDAY
Mean	2.54	2.39	3.49	3.20	13.48	21.38	11.41	15.61	8.34	4.82	4.05	3.16	7.81 CMS
Max	3.12	3.44	8.02	11.70	31.04	111.85	26.06	35.98	14.04	5.96	8.86	3.68	111.85 CMS
Min	2.19	2.12	2.26	2.56	4.70	7.74	8.58	10.20	6.20	4.10	3.60	2.80	2.12 CMS
Runoff	6.591	6.403	9.037	8.576	36.099	55.416	30.549	40.463	22.333	12.900	10.159	8.474	247.000 MCM

Momentary Peak 175.50 CMS, at 5.90 M (AD), at 14.00 Hours, on Sep 20, 1995
Runoff Yield 51.05 Liters/Second/Square KM, Momentary Peak Yield 1147.059 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

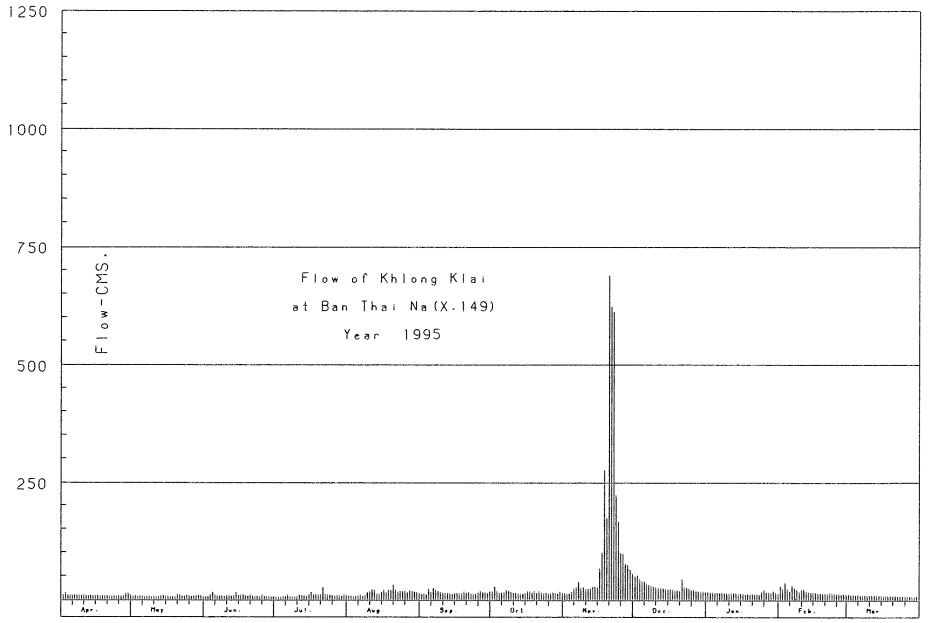
Khlong Klai at Ban Thai Na, Nakhon Si Thammarat (X.149)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 66 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.76	28.68	28.64	28.61	28.69	28.80	28.90	28.85	29.44	28.89	29.17	28.77	
2	28.83	28.68	28.66	28.61	28.68	28.81	29.16	28.81	29.45	28.89	29.07	28.76	
3	28.74	28.67	28.73	28.60	28.66	28.78	28.92	28.84	29.38	28.88	29.29	28.75	
4	28.73	28.66	28.90	28.65	28.66	29.03	28.87	28.89	29.32	28.87	29.06	28.75	
5	28.73	28.65	28.73	28.65	28.71	28.90	28.85	29.08	29.32	28.86	28.95	28.75	
6	28.72	28.65	28.69	28.73	28.74	29.08	28.89	29.12	29.25	28.86	29.20	28.74	
7	28.72	28.65	28.68	28.65	28.69	29.01	28.98	29.31	29.23	28.85	29.10	28.74	
8	28.71	28.63	28.68	28.63	28.72	28.96	28.98	29.08	29.20	28.85	29.00	28.74	
9	28.71	28.63	28.66	28.63	28.88	28.89	28.90	29.14	29.16	28.84	28.93	28.73	
10	28.71	28.63	28.68	28.63	28.90	28.87	28.86	29.02	29.13	28.84	29.03	28.73	
11	28.70	28.63	28.68	28.72	29.03	28.84	28.85	29.06	29.11	28.83	29.03	28.73	
12	28.69	28.66	28.68	28.73	28.97	28.85	28.82	29.06	29.10	28.86	28.94	28.75	
13	28.69	28.66	28.68	28.68	28.82	28.81	28.81	29.16	29.08	28.83	28.89	28.73	
14	28.68	28.70	28.88	28.67	28.78	28.81	28.82	29.15	29.06	28.81	28.89	28.73	
15	28.68	28.66	28.72	28.76	28.90	28.82	28.82	29.12	29.04	28.81	28.87	28.71	
16	28.68	28.64	28.71	28.87	28.98	28.86	28.95	29.60	29.02	28.80	28.86	28.70	
17	28.68	28.63	28.76	28.75	28.89	28.83	28.92	29.91	29.01	28.80	28.84	28.70	
18	28.68	28.63	28.68	28.77	28.99	28.84	28.88	30.68	28.99	28.79	28.83	28.70	
19	28.68	28.62	28.67	28.77	28.99	28.91	28.94	30.29	28.99	28.79	28.83	28.69	
20	28.67	28.76	28.71	28.76	29.23	28.87	28.85	31.64	28.97	28.79	28.83	28.69	
21	28.67	28.75	28.68	29.11	28.99	28.88	28.92	31.51	29.38	28.79	28.82	28.69	
22	28.67	28.67	28.65	28.80	28.91	28.82	28.88	31.49	29.12	28.79	28.87	28.69	
23	28.66	28.65	28.65	28.75	28.93	28.80	28.83	30.49	29.12	28.78	28.83	28.68	
24	28.66	28.72	28.64	28.74	28.92	28.81	28.88	30.26	29.06	28.90	28.83	28.68	
25	28.66	28.66	28.72	28.71	28.93	28.89	28.84	29.91	29.01	29.02	28.81	28.68	
26	28.66	28.65	28.68	28.69	28.86	28.94	28.82	29.89	28.99	28.88	28.80	28.67	
27	28.69	28.68	28.65	28.71	28.98	28.89	28.88	29.70	28.95	28.90	28.79	28.66	
28	28.79	28.68	28.63	28.69	28.92	28.88	28.83	29.67	28.93	28.83	28.79	28.66	
29	28.84	28.72	28.62	28.68	28.91	28.86	28.83	29.58	28.93	28.95	28.78	28.66	
30	28.72	28.67	28.61	28.75	28.86	28.91	28.90	29.49	28.92	28.86		28.66	
31		28.65		28.71	28.83		28.85		28.90	28.83		28.65	
Mean	28.71	28.67	28.69	28.72	28.87	28.88	28.88	29.66	29.11	28.85	28.93	28.71	
Max	28.84	28.76	28.90	29.11	29.23	29.08	29.16	31.64	29.45	29.02	29.29	28.77	31.64
Min	28.66	28.62	28.61	28.60	28.66	28.78	28.81	28.81	28.90	28.78	28.78	28.65	28.60

Annual Max Momentary Gage Height 33.11 M (MSL), at 19.00 Hours, on Nov 20, 1995
Zero Gage at Bottom Elevation 28.30 M (MSL), River Bed 27.87 M (MSL)
Left Bank Elevation 34.77 M (MSL)
Right Bank Elevation 34.65 M (MSL), Drainage Area 469 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.76	9.88	8.44	7.36	10.24	14.20	18.50	16.35	52.00	18.07	30.62	13.12	
2	15.49	9.88	9.16	7.36	9.88	14.63	30.16	14.63	53.00	18.07	26.02	12.76	
3	12.04	9.52	11.68	7.00	9.16	13.48	19.36	15.92	46.40	17.64	39.20	12.40	
4	11.68	9.16	18.50	8.80	9.16	24.18	17.21	18.07	41.60	17.21	25.56	12.40	
5	11.68	8.80	11.68	8.80	10.96	18.50	16.35	26.48	41.60	16.78	20.65	12.40	
6	11.32	8.80	10.24	11.68	12.04	26.48	18.07	28.32	36.00	16.78	32.00	12.04	
7	11.32	8.80	9.88	8.80	10.24	23.26	21.94	40.80	34.40	16.35	27.40	12.04	
8	10.96	8.08	9.88	8.08	11.32	21.08	21.94	26.48	32.00	16.35	22.80	12.04	
9	10.96	8.08	9.16	8.08	17.64	18.07	18.50	29.24	30.16	15.92	19.79	11.68	
10	10.96	8.08	9.88	8.08	18.50	17.21	16.78	23.72	28.78	15.92	24.18	11.68	
11	10.60	8.08	9.88	11.32	24.18	15.92	16.35	25.56	27.86	15.49	24.18	11.68	
12	10.24	9.16	9.88	11.68	21.51	16.35	15.06	25.56	27.40	16.78	20.22	12.40	
13	10.24	9.16	9.88	9.88	15.06	14.63	14.63	30.16	26.48	15.49	18.07	11.68	
14	9.88	10.60	17.64	9.52	13.48	14.63	15.06	29.70	25.56	14.63	18.07	11.68	
15	9.88	9.16	11.32	12.76	18.50	15.06	15.06	28.32	24.64	14.63	17.21	10.96	
16	9.88	8.44	10.96	17.21	21.94	16.78	20.65	68.00	23.72	14.20	16.78	10.60	
17	9.88	8.08	12.76	12.40	18.07	15.49	19.36	101.82	23.26	14.20	15.92	10.60	
18	9.88	8.08	9.88	13.12	22.37	15.92	17.64	277.60	22.37	13.84	15.49	10.60	
19	9.88	7.72	9.52	13.12	22.37	18.93	20.22	175.25	22.37	13.84	15.49	10.24	
20	9.52	12.76	10.96	12.76	34.40	17.21	16.35	691.40	21.51	13.84	15.49	10.24	
21	9.52	12.40	9.88	27.86	22.37	17.64	19.36	624.00	46.40	13.84	15.06	10.24	
22	9.52	9.52	8.80	14.20	18.93	15.06	17.64	614.00	28.32	13.84	17.21	10.24	
23	9.16	8.80	8.80	12.40	19.79	14.20	15.49	223.40	28.32	13.48	15.49	9.88	
24	9.16	11.32	8.44	12.04	19.36	14.63	17.64	168.50	25.56	18.50	15.49	9.88	
25	9.16	9.16	11.32	10.96	19.79	18.07	15.92	101.82	23.26	23.72	14.63	9.88	
26	9.16	8.80	9.88	10.24	16.78	20.22	15.06	98.90	22.37	17.64	14.20	9.52	
27	10.24	9.88	8.80	10.96	21.94	18.07	17.64	78.50	20.65	18.50	13.84	9.16	
28	13.84	9.88	8.08	10.24	19.36	17.64	15.49	75.35	19.79	15.49	13.84	9.16	
29	15.92	11.32	7.72	9.88	18.93	16.78	15.49	66.00	19.79	20.65	13.48	9.16	
30	11.32	9.52	7.36	12.40	16.78	18.93	18.50	57.00	19.36	16.78		9.16	
31		8.80		10.96	15.49		16.35		18.50	15.49		8.80	
Total	326.05	289.72	310.26	349.95	540.54	523.25	553.77	3800.85	913.43	503.96	578.38	338.32	9028.48 CMSDAY
Mean	10.87	9.35	10.34	11.29	17.44	17.44	17.86	126.69	29.47	16.26	19.94	10.91	24.67 CMS
Max	15.92	12.76	18.50	27.86	34.40	26.48	30.16	691.40	53.00	23.72	39.20	13.12	691.40 CMS
Min	9.16	7.72	7.36	7.00	9.16	13.48	14.63	14.63	18.50	13.48	13.48	8.80	7.00 CMS
Runoff	28.171	25.032	26.806	30.236	46.703	45.209	47.846	328.393	78.920	43.542	49.972	29.231	780.061 MCM

Momentary Peak 2105.00 CMS, at 33.11 M (MSL), at 19.00 Hours, on Nov 20, 1995
Runoff Yield 52.60 Liters/Second/Square KM, Momentary Peak Yield 4488.273 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA WEST COAST

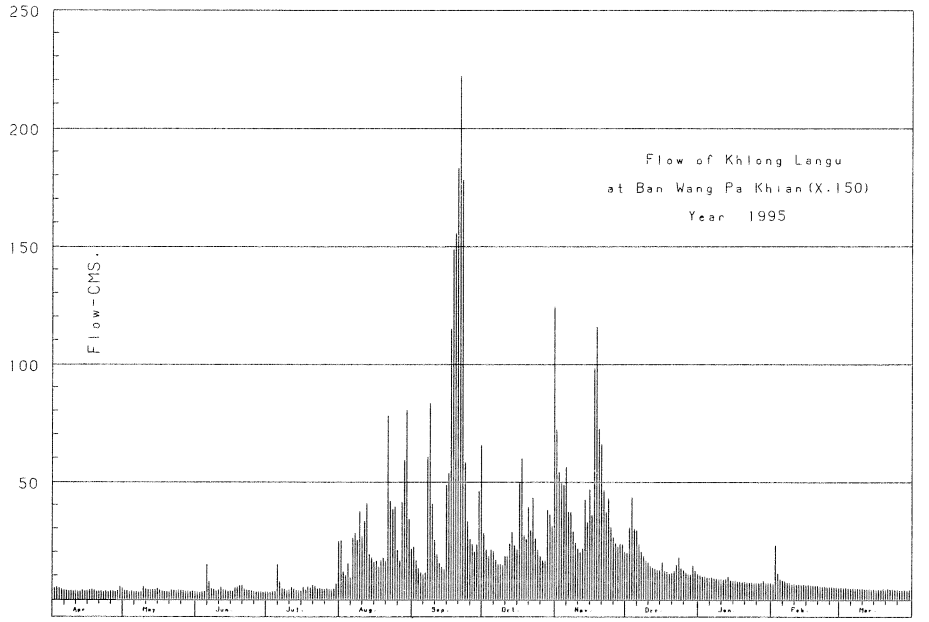
Khlong Langu at Ban Wang Pa Khian, Satun (X.150)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	0.66	0.58	0.58	2.01	1.87	2.15	3.82	1.73	1.21	0.93	0.76	
2	0.79	0.63	0.58	0.58	1.29	1.57	1.81	3.21	2.27	1.18	1.90	0.76	
3	0.77	0.61	0.59	0.59	1.20	1.39	1.65	3.06	2.83	1.17	1.27	0.75	
4	0.71	0.62	0.62	0.62	1.50	1.29	1.81	3.02	2.24	1.15	1.08	0.75	
5	0.68	0.61	1.48	1.48	1.14	1.23	1.77	3.29	2.22	1.13	1.05	0.74	
6	0.66	0.59	1.00	1.00	2.06	1.29	1.58	2.57	1.91	1.13	1.01	0.74	
7	0.65	0.59	0.74	0.74	2.15	3.43	1.48	2.56	1.76	1.11	0.97	0.74	
8	0.65	0.59	0.69	0.69	2.01	4.18	1.49	2.19	1.65	1.09	0.95	0.73	
9	0.64	0.82	0.64	0.64	2.58	2.72	1.46	1.95	1.56	1.08	0.90	0.73	
10	0.64	0.70	0.66	0,66	2.09	2.01	1.66	1.83	1.51	1.08	0.90	0.72	
11	0.63	0.71	0.79	0.79	2.39	1.69	1.66	1.74	1.45	1.07	0.89	0.72	
12	0.63	0.69	0.71	0.71	2.72	1.51	1.94	1.83	1.41	1.10	0.89	0.71	
13	0.67	0.68	0.67	0.67	1.70	1.42	2.18	2.78	1.38	1.17	0.89	0.70	
14	0.65	0.70	0.63	0.63	1.62	1.36	1.89	2.37	1.35	1.06	0.88	0.69	
15	0.64	0.73	0.64	0.64	1.52	3.02	1.81	2.96	1.33	1.04	0.87	0.69	
16	0.67	0.67	0.61	0.78	1.56	3.20	3.05	2.50	1.52	1.03	0.87	0.68	
17	0.71	0.64	0.78	0.68	1.43	5.07	3.42	4.62	1.33	1.01	0.86	0.68	
18	0.66	0.60	0.79	0.80	1.56	5.93	2.11	5.09	1.29	1.00	0.85	0.69	
19	0.63	0.60	0.86	0.77	1.62	6.09	2.04	3.84	1.25	0.99	0.85	0.71	
20	0.63	0.60	0.86	0.85	1.55	6.77	2.65	3.62	1.26	0.98	0.84	0.69	
21	0.62	0.69	0.72	0.82	4.02	7.65	2.21	2.94	1.32	0.98	0.83	0.72	
22	0.61	0.66	0.67	0.73	2.76	6.64	2.82	2.57	1.47	0.97	0.82	0.71	
23	0.61	0.63	0.65	0.74	2.62	3.35	2.05	2.81	1.64	0.96	0.81	0.69	
24	0.60	0.68	0.65	0.70	2.66	2.39	1.80	2.28	1.39	0.95	0.80	0.68	
25	0.62	0.64	0.61	0.69	1.80	2.04	1.66	2.07	1.35	0.95	0.79	0.67	
26	0.62	0.64	0.60	0.74	1.55	1.92	1.56	1.94	1.28	0.96	0.79	0.66	
27	0.61	0.62	0.60	0.71	2.75	1.76	1.57	1.88	1.24	0.97	0.78	0.66	
28	0.64	0.61	0.59	0.67	3.38	1.91	2.60	1.93	1.22	1.02	0.77	0.66	
29	0.83	0.61	0.58	0.72	4.09	2.93	2.52	1.93	1.46	0.95	0.77	0.65	
30	0.75	0.61	0.58	0.91	2.43	3.61	2.29	1.75	1.32	0.94		0.66	
31		0.61		1.98	1.81		5.32		1.25	0.95		0.67	
Mean	0.67	0.65	0.71	0.78	2.12	3.04	2.13	2.70	1.55	1.04	0.92	0.70	
Max	0.83	0.82	1.48	1.98	4.09	7.65	5.32	5.09	2.83	1.21	1.90	0.76	7.65
Min	0.60	0.59	0.58	0.58	1.14	1.23	1.46	1.74	1.22	0.94	0.77	0.65	0.58

Annual Max Momentary Gage Height 7.70 M (AD), at 13.00 Hours, on Sep 21, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.05 M (AD)
Left Bank Elevation 8.79 M (AD)
Right Bank Elevation 8.36 M (AD), Drainage Area 552 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.30	4.20	3.42	3.42	25.41	22.73	28.35	72.22	20.07	10.56	7.03	5.20	
2	5.50	3.90	3.42	3.42	11.84	17.00	21.59	54.29	30.94	10.14	23.30	5.20	
3	5.30	3.70	3.51	3.51	10.40	13.44	18.55	49.94	43.78	10.01	11.52	5.10	
4	4.70	3.80	3.80	3.80	15.60	11.84	21.59	48.78	30.28	9.75	8.84	5.10	
5	4.40	3.70	15.20	15.20	9.62	10.88	20.83	56.61	29.84	9.49	8.45	5.00	
6	4.20	3.51	7.80	7.80	26.46	11.84	17.20	37.54	23.49	9.49	7.93	5.00	
7	4.10	3.51	5.00	5.00	28.35	60.67	15.20	37.32	20.64	9.23	7.47	5.00	
8	4.10	3.51	4.50	4.50	25.41	83.38	15.40	29.19	18.55	8.97	7.25	4.90	
9	4.00	5.82	4.00	4.00	37.76	41.08	14.80	24.25	16.80	8.84	6.70	4.90	
10	4.00	4.60	4.20	4.20	27.09	25.41	18.74	21.97	15.80	8.84	6.70	4.80	
11	3.90	4.70	5.50	5.50	33.58	19.31	18.74	20.26	14.60	8.71	6.59	4.80	
12	3.90	4.50	4.70	4.70	41.08	15.80	24.06	21.97	13.80	9.10	6.59	4.70	
13	4.30	4.40	4.30	4.30	19.50	14.00	28.98	42.52	13.28	10.01	6.59	4.60	
14	4.10	4.60	3.90	3.90	17.98	12.96	23.11	33.14	12.80	8.58	6.48	4.50	
15	4.00	4.90	4.00	4.00	16.00	48.78	21.59	47.16	12.48	8.32	6.37	4.50	
16	4.30	4.30	3.70	5.40	16.80	54.00	49.65	36.00	16.00	8.19	6.37	4.40	
17	4.70	4.00	5.40	4.40	14.20	115.19	60.38	98.54	12.48	7.93	6.26	4.40	
18	4.20	3.60	5.50	5.60	16.80	148.93	27.51	115.93	11.84	7.80	6.15	4.50	
19	3.90	3.60	6.26	5.30	17.98	155.49	26.04	72.84	11.20	7.69	6.15	4.70	
20	3.90	3.60	6.26	6.15	16.60	183.54	39.40	66.20	11.36	7.58	6.04	4.50	
21	3.80	4.50	4.80	5.82	78.42	222.25	29.62	46.64	12.32	7.58	5.93	4.80	
22	3.70	4.20	4.30	4.90	42.04	178.08	43.52	37.54	15.00	7.47	5.82	4.70	
23	3.70	3.90	4.10	5.00	38.68	58.35	26.25	43.26	18.36	7.36	5.71	4.50	
24	3.60	4.40	4.10	4.60	39.64	33.58	21.40	31.16	13.44	7.25	5.60	4.40	
25	3.80	4.00	3.70	4.50	21.40	26.04	18.74	26.67	12.80	7.25	5.50	4.30	
26	3.80	4.00	3.60	5.00	16.60	23.68	16.80	24.06	11.68	7.36	5.50	4.20	
27	3.70	3.80	3.60	4.70	41.80	20.64	17.00	22.92	11.04	7.47	5.40	4.20	
28	4.00	3.70	3.51	4.30	59.22	23.49	38.20	23.87	10.72	8.06	5.30	4.20	
29	5.93	3.70	3.42	4.80	80.59	46.38	36.44	23.87	14.80	7.25	5.30	4.10	
30	5.10	3.70	3.42	6.81	34.46	65.90	31.38	20.45	12.32	7.14		4.20	
31		3.70		24.82	21.59		124.56		11.20	7.25		4.30	
Total	127.93	126.05	142.92	179.35	902.90	1764.66	915.62	1287.11	523.71	260.67	208.84	143.70	6583.46 CMSDAY
Mean	4.26	4.07	4.76	5.79	29.13	58.82	29.54	42.90	16.89	8.41	7.20	4.64	17.99 CMS
Max	5.93	5.82	15.20	24.82	80.59	222.25	124.56	115.93	43.78	10.56	23.30	5.20	222.25 CMS
Min	3.60	3.51	3.42	3.42	9.62	10.88	14.80	20.26	10.72	7.14	5.30	4.10	3.42 CMS
Runoff	11.053	10.891	12.348	15.496	78.011	152.467	79.110	111.206	45.249	22.522	18.044	12.416	568.811 MCM

Momentary Peak 224.50 CMS, at 7.70 M (AD), at 13.00 Hours, on Sep 21, 1995
Runoff Yield 32.59 Liters/Second/Square KM, Momentary Peak Yield 406.703 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

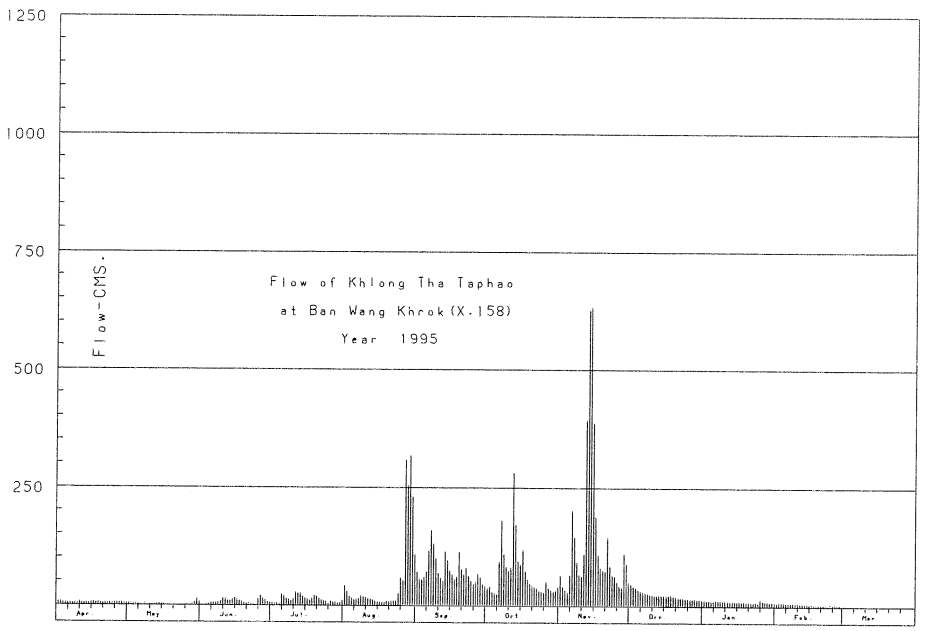
Khlong Tha Taphao at Ban Wang Khrok, Chumphon (X.158)

Location	Lat. 10-35-34 N., Long. 99-08-42 N., on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway, Amphoe Tha Sae, Chumphon.
Drainage Area	1,819 sq.km
Type of Gage	Staff gage.
Zero Gage at Bottom	+3.63 m.(M.S.L.)
Bench Mark	B.M.-A.D.
Location	On right bank about 1.00 meters from the top staff gage.
Elevation	+11.847 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	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 +11.14 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 40 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.86	3.75	3.75	3.77	4.81	5.45	4.69	5.29	4.88	4.01	3.84	3.67	
2	3.86	3.73	3.69	3.76	4.50	5.12	4.76	4.77	4.78	4.00	3.90	3.66	
3	3.80	3.72	3.67	3.74	4.24	5.10	4.48	4.57	4.71	3.98	3.89	3.66	
4	3.78	3.71	3.71	3.72	4.09	5.20	4.40	4.49	4.63	3.96	3.86	3.65	
5	3.78	3.69	3.79	4.34	4.02	5.46	4.36	5.31	4.55	3.96	3.84	3.65	
6	3.76	3.68	3.78	4.21	4.03	6.23	5.83	7.36	4.49	3.98	3.83	3.65	
7	3.75	3.68	3.78	4.10	4.11	6.86	7.10	6.66	4.44	3.98	3.83	3.64	
8	3.77	3.75	3.81	4.00	4.24	6.44	6.12	5.82	4.38	3.97	3.82	3.64	
9	3.77	3.67	3.91	3.95	4.21	5.97	5.65	5.31	4.34	3.96	3.81	3.63	
10	3.85	3.65	4.08	4.04	4.13	5.40	5.48	5.26	4.32	3.95	3.80	3.62	
11	3.78	3.70	4.07	4.43	4.06	5.17	5.61	6.11	4.30	3.95	3.79	3.61	
12	3.78	3.69	3.94	4.40	4.07	5.03	8.22	9.17	4.29	3.94	3.78	3.59	
13	3.77	3.72	3.90	4.38	4.02	6.19	7.01	10.82	4.29	3.94	3.77	3.59	
14	3.77	3.70	4.04	4.21	3.92	5.90	5.87	10.86	4.29	3.93	3.76	3.58	
15	3.80	3.71	4.11	4.12	3.89	5.49	5.72	9.13	4.28	3.93	3.75	3.58	
16	3.82	3.67	4.01	4.02	3.83	5.33	6.25	7.21	4.26	3.92	3.74	3.57	
17	3.79	3.63	3.94	3.99	3.83	5.12	5.47	6.10	4.29	3.91	3.73	3.57	
18	3.80	3.64	3.85	4.07	3.83	5.22	5.09	5.59	4.31	3.90	3.72	3.56	
19	3.79	3.64	3.80	4.27	3.93	6.19	4.92	5.51	4.26	3.89	3.71	3.55	
20	3.77	3.65	3.73	4.19	3.89	5.57	4.81	5.45	4.20	3.88	3.71	3.54	
21	3.77	3.65	3.75	4.07	3.93	5.32	4.73	6.65	4.17	3.87	3.71	3.53	
22	3.77	3.65	3.73	4.00	3.95	5.59	4.70	5.67	4.15	3.86	3.71	3.52	
23	3.78	3.65	3.69	3.94	3.94	5.26	4.55	5.30	4.13	3.85	3.70	3.51	
24	3.78	3.66	3.68	3.88	4.39	5.03	4.49	5.24	4.12	3.85	3.74	3.51	
25	3.79	3.66	4.05	3.83	5.17	4.89	4.46	5.00	4.09	4.05	3.73	3.50	
26	3.79	3.66	4.26	3.93	5.06	4.97	5.00	4.78	4.08	3.98	3.72	3.49	
27	3.79	3.66	4.10	3.86	8.46	5.35	4.71	4.74	4.08	3.94	3.70	3.49	
28	3.78	3.73	3.96	3.83	7.93	5.22	4.57	6.13	4.07	3.90	3.69	3.49	
29	3.77	3.84	3.86	3.79	8.54	4.89	4.51	5.78	4.06	3.88	3.68	3.49	
30	3.75	4.08	3.78	3.79	7.69	4.79	4.53	4.96	4.04	3.87		3.49	
31		3.86		3.94	6.09		4.73		4.03	3.86		3.47	
Mean	3.79	3.71	3.87	4.02	4.74	5.46	5.25	6.17	4.30	3.93	3.77	3.57	
Max	3.86	4.08	4.26	4.43	8.54	6.86	8.22	10.86	4.88	4.05	3.90	3.67	10.86
Min	3.75	3.63	3.67	3.72	3.83	4.79	4.36	4.49	4.03	3.85	3.68	3.47	3.47

Annual Max Momentary Gage Height 11.39 M (MSL), at 20.00 Hours, on Nov 13, 1995
Zero Gage at Bottom Elevation 3.63 M (MSL), River Bed 2.77 M (MSL)
Left Bank Elevation 11.13 M (MSL)
Right Bank Elevation 11.63 M (MSL), Drainage Area 1819 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.80	4.50	4.50	5.10	42.45	72.20	37.38	64.32	45.60	12.54	7.20	2.10	
2	7.80	3.90	2.70	4.80	29.90	56.40	40.32	40.74	41.16	12.20	9.00	1.80	
3	6.00	3.60	2.10	4.20	20.44	55.50	29.16	32.49	38.22	11.56	8.70	1.80	
4	5.40	3.30	3.30	3.60	15.26	60.00	26.20	29.53	34.86	10.92	7.80	1.50	
5	5.40	2.70	5.70	24.04	12.88	72.72	24.76	65.28	31.75	10.92	7.20	1.50	
6	4.80	2.40	5.40	19.36	13.22	116.78	92.65	201.96	29.53	11.56	6.90	1.50	
7	4.50	2.40	5.40	15.60	15.94	160.80	180.10	146.06	27.68	11.56	6.90	1.20	
8	5.10	4.50	6.30	12.20	20.44	130.76	109.68	92.10	25.48	11.24	6.60	1.20	
9	5.10	2.10	9.32	10.60	19.36	100.35	82.75	65.28	24.04	10.92	6.30	0.90	
10	7.50	1.50	14.92	13.56	16.62	69.60	73.76	62.88	23.32	10.60	6.00	0.60	
11	5.40	3.00	14.58	27.31	14.24	58.65	80.55	109.04	22.60	10.60	5.70	0.30	
12	5.40	2.70	10.28	26.20	14.58	52.35	283.14	393.93	22.24	10.28	5.40	0.00	
13	5.10	3.60	9.00	25.48	12.88	114.16	172.81	627.20	22.24	10.28	5.10	0.00	
14	5.10	3.00	13.56	19.36	9.64	96.50	94.85	633.60	22.24	9.96	4.80	0.00	
15	6.00	3.30	15.94	16.28	8.70	74.28	86.60	388.77	21.88	9.96	4.50	0.00	
16	6.60	2.10	12.54	12.88	6.90	66.24	118.10	189.06	21.16	9.64	4.20	0.00	
17	5.70	0.90	10.28	11.88	6.90	56.40	73.24	108.40	22.24	9.32	3.90	0.00	
18	6.00	1.20	7.50	14.58	6.90	60.96	55.05	79.48	22.96	9.00	3.60	0.00	
19	5.70	1.20	6.00	21.52	9.96	114.16	47.40	75.32	21.16	8.70	3.30	0.00	
20	5.10	1.50	3.90	18.66	8.70	78.44	42.45	72.20	19.00	8.40	3.30	0.00	
21	5.10	1.50	4.50	14.58	9.96	65.76	39.06	145.35	17.98	8.10	3.30	0.00	
22	5.10	1.50	3.90	12.20	10.60	79.48	37.80	83.85	17.30	7.80	3.30	0.00	
23	5.40	1.50	2.70	10.28	10.28	62.88	31.75	64.80	16.62	7.50	3.00	0.00	
24	5.40	1.80	2.40	8.40	25.84	52.35	29.53	61.92	16.28	7.50	4.20	0.00	
25	5.70	1.80	13.90	6.90	58.65	46.05	28.42	51.00	15.26	13.90	3.90	0.00	
26	5.70	1.80	21.16	9.96	53.70	49.65	51.00	41.16	14.92	11.56	3.60	0.00	
27	5.70	1.80	15.60	7.80	309.18	67.20	38.22	39.48	14.92	10.28	3.00	0.00	
28	5.40	3.90	10.92	6.90	254.00	60.96	32.49	110.32	14.58	9.00	2.70	0.00	
29	5.10	7.20	7.80	5.70	318.22	46.05	30.27	89.90	14.24	8.40	2.40	0.00	
30	4.50	14.92	5.40	5.70	231.10	41.58	31.01	49.20	13.56	8.10		0.00	
31		7.80		10.28	107.76		39.06		13.22	7.80		0.00	
Total	168.60	98.92	251.50	405.91	1695.20	2239.21	2139.56	4214.62	708.24	310.10	145.80	14.40	12392.06 CMSDAY
Mean	5.62	3.19	8.38	13.09	54.68	74.64	69.02	140.49	22.85	10.00	5.03	0.46	33.86 CMS
Max	7.80	14.92	21.16	27.31	318.22	160.80	283.14	633.60	45.60	13.90	9.00	2.10	633.60 CMS
Min	4.50	0.90	2.10	3.60	6.90	41.58	24.76	29.53	13.22	7.50	2.40	0.00	0.00 CMS
Runoff	14.567	8.547	21.730	35.071	146.465	193.468	184.858	364.143	61.192	26.793	12.597	1.244	1070.674 MCM

Momentary Peak 718.40 CMS, at 11.39 M (MSL), at 20.00 Hours, on Nov 13, 1995

Runoff Yield 18.61 Liters/Second/Square KM, Momentary Peak Yield 394.942 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

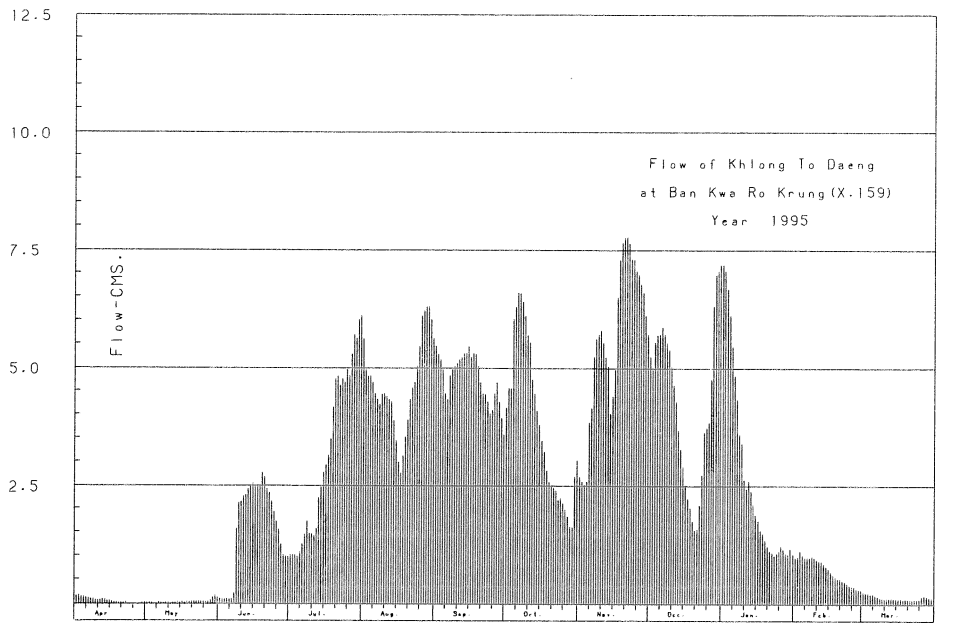
Khlong To Daeng at Ban Kwa Ro Krung, Narathiwat (X.159)

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	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 1995.

Gage Height in Meter (MSL), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.25	2.13	2.20	2.77	3.84	3.82	3.62	3.31	3.79	4.01	2.75	2.31	
2	2.25	2.13	2.19	2.78	3.75	3.80	3.69	3.29	3.75	4.00	2.75	2.30	
3	2.24	2.13	2.19	2.77	3.73	3.78	3.69	3.27	3.83	3.96	2.82	2.29	
4	2.23	2.12	2.19	2.76	3.73	3.75	3.89	3.29	3.85	3.90	2.77	2.28	
5	2.22	2.12	2.19	2.80	3.71	3.67	3.92	3.56	3.85	3.82	2.75	2.28	
6	2.21	2.13	2.19	2.88	3.67	3.65	3.95	3.62	3.87	3.73	2.75	2.26	
7	2.20	2.13	2.29	2.96	3.65	3.73	3.95	3.79	3.85	3.65	2.75	2.24	
8	2.19	2.12	3.01	3.06	3.63	3.75	3.93	3.84	3.83	3.51	2.76	2.22	
9	2.18	2.13	3.17	2.97	3.67	3.76	3.90	3.85	3.81	3.47	2.75	2.21	
10	2.17	2.13	3.18	2.97	3.67	3.77	3.85	3.86	3.76	3.30	2.73	2.21	
11	2.18	2.12	3.21	2.95	3.66	3.78	3.83	3.83	3.70	3.25	2.71	2.21	
12	2.19	2.13	3.22	3.01	3.65	3.79	3.72	3.79	3.64	3.29	2.71	2.21	
13	2.18	2.13	3.25	3.20	3.64	3.80	3.67	3.76	3.53	3.24	2.68	2.21	
14	2.17	2.14	3.27	3.26	3.57	3.80	3.61	3.60	3.44	3.16	2.65	2.21	
15	2.16	2.13	3.28	3.33	3.48	3.82	3.55	3.66	3.36	3.10	2.62	2.20	
16	2.15	2.14	3.27	3.37	3.38	3.79	3.48	3.75	3.27	3.06	2.58	2.20	
17	2.14	2.13	3.27	3.41	3.33	3.80	3.43	3.94	3.20	3.00	2.55	2.20	
18	2.13	2.14	3.27	3.49	3.41	3.80	3.34	4.02	3.14	2.97	2.52	2.19	
19	2.13	2.14	3.33	3.62	3.50	3.76	3.29	4.05	3.06	2.92	2.50	2.19	
20	2.13	2.15	3.31	3.72	3.57	3.71	3.27	4.06	3.00	2.86	2.49	2.19	
21	2.13	2.15	3.25	3.73	3.65	3.67	3.26	4.06	3.00	2.82	2.47	2.18	
22	2.13	2.15	3.23	3.70	3.69	3.67	3.24	4.05	3.16	2.80	2.45	2.18	
23	2.12	2.15	3.18	3.72	3.71	3.64	3.19	4.02	3.32	2.77	2.43	2.18	
24	2.11	2.15	3.12	3.71	3.76	3.60	3.20	4.02	3.52	2.79	2.40	2.18	
25	2.11	2.14	3.06	3.75	3.82	3.61	3.17	4.00	3.54	2.82	2.39	2.19	
26	2.11	2.14	3.00	3.73	3.90	3.67	3.13	3.99	3.56	2.86	2.38	2.23	
27	2.11	2.15	2.88	3.80	3.91	3.71	3.09	3.97	3.72	2.83	2.36	2.25	
28	2.11	2.17	2.77	3.85	3.92	3.64	3.02	3.95	3.92	2.79	2.34	2.23	
29	2.13	2.22	2.76	3.84	3.92	3.58	3.02	3.90	3.99	2.78	2.34	2.22	
30	2.13	2.25	2.75	3.89	3.89	3.51	3.31	3.85	4.00	2.83		2.21	
31		2.22		3.90	3.84		3.39		4.01	2.78		2.20	
Mean	2.16	2.15	2.92	3.35	3.69	3.72	3.50	3.80	3.59	3.20	2.59	2.22	
Max	2.25	2.25	3.33	3.90	3.92	3.82	3.95	4.06	4.01	4.01	2.82	2.31	4.06
Min	2.11	2.12	2.19	2.76	3.33	3.51	3.02	3.27	3.00	2.77	2.34	2.18	2.11

Annual Max Momentary Gage Height 4.06 M (MSL), at 15.00 Hours, on Nov 19, 1995
Zero Gage at Bottom Elevation 2.10 M (MSL), River Bed 2.02 M (MSL)
Left Bank Elevation 4.12 M (MSL)
Right Bank Elevation 4.16 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.19	0.04	0.12	1.04	5.63	5.47	4.17	2.70	5.24	7.19	1.00	0.26	
2	0.19	0.04	0.11	1.06	4.98	5.31	4.58	2.61	4.98	7.07	1.00	0.25	
3	0.17	0.04	0.11	1.04	4.84	5.18	4.58	2.53	5.55	6.69	1.14	0.24	
4	0.16	0.02	0.11	1.02	4.84	4.98	6.04	2.61	5.71	6.12	1.04	0.22	
5	0.15	0.02	0.11	1.10	4.71	4.46	6.31	3.85	5.71	5.47	1.00	0.22	
6	0.13	0.04	0.11	1.28	4.46	4.35	6.60	4.17	5.88	4.84	1.00	0.20	
7	0.12	0.04	0.24	1.48	4.35	4.84	6.60	5.24	5.71	4.35	1.00	0.17	
8	0.11	0.02	1.61	1.77	4.23	4.98	6.41	5.63	5.55	3.60	1.02	0.15	
9	0.10	0.04	2.15	1.50	4.46	5.04	6.12	5.71	5.39	3.42	1.00	0.13	
10	0.08	0.04	2.18	1.50	4.46	5.11	5.71	5.80	5.04	2.65	0.96	0.13	
11	0.10	0.02	2.29	1.45	4.40	5.18	5.55	5.55	4.64	2.45	0.92	0.13	
12	0.11	0.04	2.33	1.61	4.35	5.24	4.77	5.24	4.29	2.61	0.92	0.13	
13	0.10	0.04	2.45	2.25	4.29	5.31	4.46	5.04	3.70	2.41	0.86	0.13	
14	0.08	0.05	2.53	2.49	3.90	5.31	4.11	4.05	3.28	2.11	0.81	0.13	
15	0.07	0.04	2.57	2.79	3.46	5.47	3.80	4.40	2.92	1.90	0.75	0.12	
16	0.06	0.05	2.53	2.96	3.01	5.24	3.46	4.98	2.53	1.77	0.68	0.12	
17	0.05	0.04	2.53	3.15	2.79	5.31	3.24	6.50	2.25	1.58	0.63	0.12	
18	0.04	0.05	2.53	3.51	3.15	5.31	2.83	7.31	2.04	1.50	0.58	0.11	
19	0.04	0.05	2.79	4.17	3.55	5.04	2.61	7.66	1.77	1.37	0.55	0.11	
20	0.04	0.06	2.70	4.77	3.90	4.71	2.53	7.78	1.58	1.23	0.54	0.11	
21	0.04	0.06	2.45	4.84	4.35	4.46	2.49	7.78	1.58	1.14	0.51	0.10	
22	0.04	0.06	2.37	4.64	4.58	4.46	2.41	7.66	2.11	1.10	0.48	0.10	
23	0.02	0.06	2.18	4.77	4.71	4.29	2.22	7.31	2.74	1.04	0.45	0.10	
24	0.01	0.06	1.97	4.71	5.04	4.05	2.25	7.31	3.65	1.08	0.40	0.10	
25	0.01	0.05	1.77	4.98	5.47	4.11	2.15	7.07	3.75	1.14	0.39	0.11	
26	0.01	0.05	1.58	4.84	6.12	4.46	2.01	6.98	3.85	1.23	0.37	0.16	
27	0.01	0.06	1.28	5.31	6.22	4.71	1.87	6.79	4.77	1.17	0.34	0.19	
28	0.01	0.08	1.04	5.71	6.31	4.29	1.64	6.60	6.31	1.08	0.31	0.16	
29	0.04	0.15	1.02	5.63	6.31	3.95	1.64	6.12	6.98	1.06	0.31	0.15	
30	0.04	0.19	1.00	6.04	6.04	3.60	2.70	5.71	7.07	1.17		0.13	
31		0.15		6.12	5.63		3.06		7.19	1.06		0.12	
Total	2.32	1.75	48.76	99.53	144.54	144.22	118.92	168.69	133.76	82.60	20.96	4.60	970.65 CMSDAY
Mean	0.08	0.06	1.63	3.21	4.66	4.81	3.84	5.62	4.31	2.66	0.72	0.15	2.65 CMS
Max	0.19	0.19	2.79	6.12	6.31	5.47	6.60	7.78	7.19	7.19	1.14	0.26	7.78 CMS
Min	0.01	0.02	0.11	1.02	2.79	3.60	1.64	2.53	1.58	1.04	0.31	0.10	0.01 CMS
Runoff	0.200	0.151	4.213	8.599	12.488	12.461	10.275	14.575	11.557	7.137	1.811	0.397	83.864 MCM

Momentary Peak 7.78 CMS, at 4.06 M (MSL), at 15.00 Hours, on Nov 19, 1995

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

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

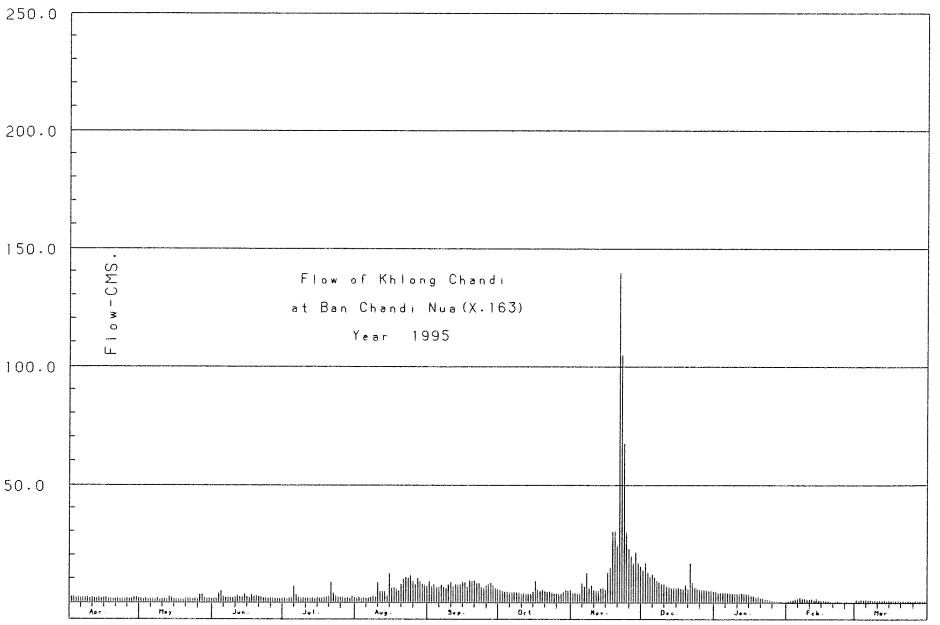
Khlong Chandi at Ban Chandi Nua, Nakhon Si Thammarat (X.163)

Location	Lat.08°-20'-34" N., Long. 99°-37'-12" E., on left bank at the bridge near Wat Manao Wan, Amphoe Chawang, Nakhon Si Thammarat.
Drainage Area	97 sq.k.m.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 5.80 meters from the top staff gage.
Elevation	+6.007 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1986 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. No records on Jan.15-Feb.4,96. Stage-discharge relation defined by 33 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.59	0.50	0.49	0.51	0.53	1.00	0.80	0.70	1.22	0.75	0.36	0.42	
2	0.58	0.49	0.52	0.48	0.55	0.89	0.78	0.71	1.36	0.71	0.39	0.43	
3	0.56	0.50	0.69	0.51	0.52	0.92	0.74	0.69	1.19	0.71	0.43	0.43	
4	0.57	0.49	0.79	0.55	0.53	0.87	0.76	0.69	1.09	0.72	0.46	0.43	
5	0.56	0.49	0.59	0.90	0.52	0.86	0.72	0.95	1.15	0.71	0.50	0.43	
6	0.55	0.48	0.55	0.66	0.53	0.92	0.73	0.89	1.08	0.71	0.54	0.42	
7	0.55	0.47	0.55	0.56	0.57	0.87	0.73	1.18	1.02	0.70	0.51	0.41	
8	0.55	0.52	0.54	0.53	0.61	0.85	0.73	0.84	0.97	0.69	0.49	0.40	
9	0.54	0.46	0.53	0.53	0.59	0.92	0.72	0.91	0.94	0.69	0.45	0.40	
10	0.54	0.47	0.58	0.52	0.97	0.98	0.68	0.80	0.93	0.69	0.48	0.40	
11	0.53	0.47	0.63	0.51	0.76	0.88	0.70	0.78	0.90	0.69	0.47	0.39	
12	0.53	0.47	0.59	0.51	0.77	0.93	0.68	0.77	0.87	0.70	0.43	0.39	
13	0.54	0.59	0.55	0.52	0.75	0.92	0.68	0.84	0.85	0.69	0.48	0.39	
14	0.53	0.53	0.68	0.50	0.61	0.93	0.68	0.84	0.84	0.68	0.42	0.39	
15	0.52	0.49	0.58	0.54	1.17	0.98	0.74	0.81	0.85	0.66	0.37	0.38	
16	0.56	0.47	0.56	0.52	0.84	0.97	1.01	1.18	0.85	0.63	0.37	0.38	
17	0.52	0.47	0.66	0.52	0.87	0.88	0.82	1.28	0.84	0.60	0.37	0.38	
18	0.51	0.46	0.61	0.57	0.83	1.02	0.78	1.82	0.82	0.57	0.35	0.37	
19	0.50	0.46	0.62	0.57	0.78	1.00	0.80	1.82	0.91	0.58	0.33	0.37	
20	0.50	0.49	0.60	0.60	0.93	1.02	0.77	1.63	0.83	0.52	0.31	0.36	
21	0.49	0.51	0.56	0.99	1.05	0.95	0.74	4.12	1.36	0.50	0.33	0.36	
22	0.49	0.50	0.54	0.71	1.08	0.96	0.76	3.53	0.97	0.47	0.32	0.35	
23	0.49	0.49	0.53	0.62	1.08	0.87	0.72	2.79	0.86	0.44	0.32	0.35	
24	0.49	0.50	0.52	0.58	1.12	0.85	0.70	1.81	0.84	0.42	0.30	0.35	
25	0.51	0.50	0.53	0.57	1.01	0.91	0.70	1.59	0.82	0.40	0.29	0.35	
26	0.49	0.65	0.51	0.55	0.92	0.93	0.67	1.47	0.81	0.37	0.29	0.36	
27	0.51	0.68	0.50	0.53	1.07	0.97	0.69	1.35	0.81	0.34	0.29	0.35	
28	0.56	0.54	0.50	0.53	1.00	0.90	0.73	1.53	0.79	0.32	0.25	0.35	
29	0.57	0.50	0.50	0.51	0.94	0.85	0.81	1.36	0.78	0.30	0.24	0.35	
30	0.51	0.50	0.50	0.59	0.91	0.82	0.77	1.29	0.79	0.28		0.35	
31		0.49		0.55	0.89		0.81		0.77	0.32		0.35	
Mean	0.53	0.50	0.57	0.58	0.82	0.92	0.75	1.37	0.94	0.57	0.38	0.38	
Max	0.59	0.68	0.79	0.99	1.17	1.02	1.01	4.12	1.36	0.75	0.54	0.43	4.12
Min	0.49	0.46	0.49	0.48	0.52	0.82	0.67	0.69	0.77	0.28	0.24	0.35	0.24

Annual Max Momentary Gage Height 5.60 M (AD), at 14.00 Hours, on Nov 21, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.11 M (AD)
Left Bank Elevation 6.88 M (AD)
Right Bank Elevation 6.57 M (AD), Drainage Area 97 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.71	1.90	1.81	1.99	2.17	9.20	5.40	4.10	13.68	4.75	0.80	1.18	
2	2.62	1.81	2.08	1.72	2.35	7.11	5.14	4.23	17.04	4.23	0.95	1.27	
3	2.44	1.90	3.97	1.99	2.08	7.68	4.62	3.97	13.00	4.23	1.27	1.27	
4	2.53	1.81	5.27	2.35	2.17	6.73	4.88	3.97	11.00	4.36	1.54	1.27	
5	2.44	1.81	2.71	7.30	2.08	6.54	4.36	8.25	12.20	4.23	1.90	1.27	
6	2.35	1.72	2.35	3.58	2.17	7.68	4.49	7.11	10.80	4.23	2.26	1.18	
7	2.35	1.63	2.35	2.44	2.53	6.73	4.49	12.80	9.60	4.10	1.99	1.09	
8	2.35	2.08	2.26	2.17	2.93	6.35	4.49	6.16	8.63	3.97	1.81	1.00	
9	2.26	1.54	2.17	2.17	2.71	7.68	4.36	7.49	8.06	3.97	1.45	1.00	
10	2.26	1.63	2.62	2.08	8.63	8.82	3.84	5.40	7.87	3.97	1.72	1.00	
11	2.17	1.63	3.19	1.99	4.88	6.92	4.10	5.14	7.30	3.97	1.63	0.95	
12	2.17	1.63	2.71	1.99	5.01	7.87	3.84	5.01	6.73	4.10	1.27	0.95	
13	2.26	2.71	2.35	2.08	4.75	7.68	3.84	6.16	6.35	3.97	1.72	0.95	
14	2.17	2.17	3.84	1.90	2.93	7.87	3.84	6.16	6.16	3.84	1.18	0.95	
15	2.08	1.81	2.62	2.26	12.60	8.82	4.62	5.59	6.35	3.58	0.85	0.90	
16	2.44	1.63	2.44	2.08	6.16	8.63	9.40	12.80	6.35	3.19	0.85	0.90	
17	2.08	1.63	3.58	2.08	6.73	6.92	5.78	15.12	6.16	2.80	0.85	0.90	
18	1.99	1.54	2.93	2.53	5.97	9.60	5.14	30.24	5.78	2.53	0.75	0.85	
19	1.90	1.54	3.06	2.53	5.14	9.20	5.40	30.24	7.49	2.62	0.65	0.85	
20	1.90	1.81	2.80	2.80	7.87	9.60	5.01	24.33	5.97	2.08	0.55	0.80	
21	1.81	1.99	2.44	9.01	10.20	8.25	4.62	139.68	17.04	1.90	0.65	0.80	
22	1.81	1.90	2.26	4.23	10.80	8.44	4.88	105.15	8.63	1.63	0.60	0.75	
23	1.81	1.81	2.17	3.06	10.80	6.73	4.36	67.77	6.54	1.36	0.60	0.75	
24	1.81	1.90	2.08	2.62	11.60	6.35	4.10	29.92	6.16	1.18	0.50	0.75	
25	1.99	1.90	2.17	2.53	9.40	7.49	4.10	23.13	5.78	1.00	0.45	0.75	
26	1.81	3.45	1.99	2.35	7.68	7.87	3.71	19.89	5.59	0.85	0.45	0.80	
27	1.99	3.84	1.90	2.17	10.60	8.63	3.97	16.80	5.59	0.70	0.45	0.75	
28	2.44	2.26	1.90	2.17	9.20	7.30	4.49	21.51	5.27	0.60	0.25	0.75	
29	2.53	1.90	1.90	1.99	8.06	6.35	5.59	17.04	5.14	0.50	0.20	0.75	
30	1.99	1.90	1.90	2.71	7.49	5.78	5.01	15.36	5.27	0.40		0.75	
31		1.81		2.35	7.11		5.59		5.01	0.60		0.75	
Total	65.46	60.59	77.82	85.22	194.80	230.82	147.46	660.52	252.54	85.44	30.14	28.88	1919.69 CMSDAY
Mean	2.18	1.95	2.59	2.75	6.28	7.69	4.76	22.02	8.15	2.76	1.04	0.93	5.25 CMS
Max	2.71	3.84	5.27	9.01	12.60	9.60	9.40	139.68	17.04	4.75	2.26	1.27	139.68 CMS
Min	1.81	1.54	1.81	1.72	2.08	5.78	3.71	3.97	5.01	0.40	0.20	0.75	0.20 CMS
Runoff	5.656	5.235	6.724	7.363	16.831	19.943	12.741	57.069	21.819	7.382	2.604	2.495	165.861 MCM

Momentary Peak 260.00 CMS, at 5.60 M (AD), at 14.00 Hours, on Nov 21, 1995
Runoff Yield 54.07 Liters/Second/Square KM, Momentary Peak Yield 2680.412 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENNINSULA EAST COAST

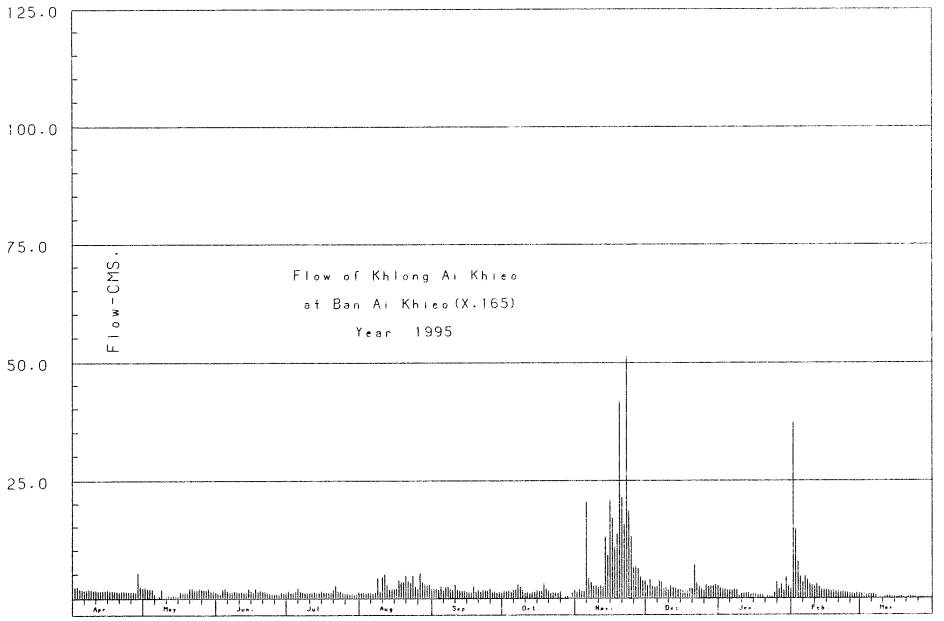
Khlong Ai Khieo at Ban Ai Khieo, Nakhon Si Thammarat (X.165)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.17	1.16	1.03	1.08	1.05	1.14	1.08	1.06	1.21	1.15	3.02	1.03	
2	1.17	1.14	1.02	1.05	1.05	1.13	1.09	1.12	1.32	1.13	2.03	1.02	
3	1.13	1.13	1.11	1.04	1.04	1.12	1.08	1.07	1.19	1.12	1.61	1.01	
4	1.11	1.13	1.14	1.08	1.04	1.18	1.07	1.08	1.17	1.11	1.37	1.01	
5	1.10	1.02	1.08	1.15	1.04	1.10	1.10	2.33	1.18	1.10	1.27	1.02	
6	1.10	0.90	1.06	1.08	1.03	1.16	1.12	1.34	1.29	1.10	1.39	1.02	
7	1.13	0.97	1.06	1.06	1.05	1.18	1.22	1.27	1.26	1.12	1.32	1.00	
8	1.11	1.12	1.08	1.05	1.35	1.12	1.18	1.18	1.15	1.12	1.23	0.86	
9	1.10	0.91	1.07	1.05	1.08	1.10	1.10	1.20	1.15	0.98	1.21	0.95	
10	1.10	0.95	1.06	1.05	1.36	1.22	1.05	1.16	1.11	1.04	1.18	0.91	
11	1.09	0.97	1.06	1.04	1.42	1.12	1.05	1.20	1.19	1.04	1.23	0.95	
12	1.09	0.97	1.05	1.07	1.21	1.09	1.04	1.17	1.16	1.05	1.18	0.98	
13	1.09	0.98	1.05	1.05	1.12	1.09	1.05	1.93	1.14	1.04	1.12	0.97	
14	1.10	0.97	1.13	1.05	1.12	1.08	1.07	1.69	1.12	1.03	1.12	0.96	
15	1.10	0.95	1.08	1.08	1.13	1.07	1.09	2.35	1.11	1.03	1.11	0.95	
16	1.09	1.06	1.06	1.06	1 13	1.05	1.09	2.16	1.10	1.02	1.10	0.95	
17	1.09	1.05	1.13	1.05	1.31	1.05	1.08	1.80	1.09	1.01	1.09	0.95	
18	1.08	1.05	1.08	1.05	1.26	1.19	1.24	1.98	1.09	1.01	1.09	0.97	
19	1.08	1.05	1.09	1.05	1.28	1.07	1.14	3.18	1.13	1.01	1.08	0.96	
20	1.07	1.13	1.08	1.11	1.39	1.10	1.09	2.38	1.14	0.91	1.08	0.92	
21	1.08	1.15	1.07	1.20	1.28	1.07	1.05	2.08	1.57	0.98	1.07	0.95	
22	1.08	1.10	1.05	1.09	1.26	1.10	1.06	3.52	1.25	0.97	1.07	0.97	
23	1.07	1.11	1.03	1.08	1.40	1.10	1.05	2.23	1.19	0.96	1.06	0.95	
24	1.07	1.13	1.02	1.05	1.18	1.08	1.05	1.94	1.14	1.06	1.05	0.95	
25	1.06	1.12	1.02	1.03	1.14	1.14	1.08	1.52	1.10	1.28	1.04	0.94	
26	1.06	1.11	1.02	1.02	1.43	1.06	0.84	1.54	1.21	1.12	1.03	0.94	
27	1.06	1.11	1.01	1.02	1.27	1.07	0.96	1.51	1.18	1.22	1.02	0.94	
28	1.44	1.13	1.05	1.02	1.22	1.05	0.98	1.37	1.19	1.10	1.04	0.94	
29	1.17	1.08	1.04	1.01	1.21	1.05	0.93	1.30	1.20	1.37	1.03	0.93	
30	1.16	1.07	1.04	1.02	1.21	1.05	1.05	1.29	1.21	1.20		0.93	
31		1.06		1.06	1.13		1.10		1.20	1.13		0.93	
Mean	1.11	1.06	1.06	1.06	1.20	1.10	1.07	1.70	1.19	1.08	1.25	0.96	
Max	1.44	1.16	1.14	1.20	1.43	1.22	1.24	3.52	1.57	1.37	3.02	1.03	3.52
Min	1.06	0.90	1.01	1.01	1.03	1.05	0.84	1.06	1.09	0.91	1.02	0.86	0.84

Annual Max Momentary Gage Height 5.37 M (AD), at 15.00 Hours, on Nov 22, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed 0.81 M (AD)
Left Bank Elevation 10.49 M (AD)
Right Bank Elevation 10.59 M (AD), Drainage Area 25 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	2.40	1.10	1.60	1.30	2.20	1.60	1.40	2.91	2.30	37.44	1.10	
2	2.50	2.20	1.00	1.30	1.30	2.10	1.70	2.00	4.12	2.10	14.77	1.00	
3	2.10	2.10	1.90	1.20	1.20	2.00	1.60	1.50	2.70	2.00	7.96	0.90	
4	1.90	2.10	2.20	1.60	1.20	2.60	1.50	1.60	2.50	1.90	4.67	0.90	
5	1.80	1.00	1.60	2.30	1.20	1.80	1.80	20.60	2.60	1.80	3.57	1.00	
6	1.80	0.00	1.40	1.60	1.10	2.40	2.00	4.34	3.79	1.80	4.89	1.00	
7	2.10	0.56	1.40	1.40	1.30	2.60	3.02	3.57	3.46	2.00	4.12	0.80	
8	1.90	2.00	1.60	1.30	4.45	2.00	2.60	2.60	2.30	2.00	3.13	0.00	
9	1.80	0.08	1.50	1.30	1.60	1.80	1.80	2.80	2.30	0.64	2.91	0.40	
10	1.80	0.40	1.40	1.30	4.56	3.02	1.30	2.40	1.90	1.20	2.60	0.08	
11	1.70	0.56	1.40	1.20	5.28	2.00	1.30	2.80	2.70	1.20	3.13	0.40	
12	1.70	0.56	1.30	1.50	2.91	1.70	1.20	2.50	2.40	1.30	2.60	0.64	
13	1.70	0.64	1.30	1.30	2.00	1.70	1.30	13.08	2.20	1.20	2.00	0.56	
14	1.80	0.56	2.10	1.30	2.00	1.60	1.50	9.24	2.00	1.10	2.00	0.48	
15	1.80	0.40	1.60	1.60	2.10	1.50	1.70	21.00	1.90	1.10	1.90	0.40	
16	1.70	1.40	1.40	1.40	2.10	1.30	1.70	17.24	1.80	1.00	1.80	0.40	
17	1.70	1.30	2.10	1.30	4.01	1.30	1.60	11.00	1.70	0.90	1.70	0.40	
18	1.60	1.30	1.60	1.30	3.46	2.70	3.24	15.88	1.70	0.90	1.70	0.56	
19	1.60	1.30	1.70	1.30	3.68	1.50	2.20	41.76	2.10	0.90	1.60	0.48	
20	1.50	2.10	1.60	1.90	4.89	1.80	1.70	21.60	2.20	0.08	1.60	0.16	
21	1.60	2.30	1.50	2.80	3.68	1.50	1.30	15.72	7.38	0.64	1.50	0.40	
22	1.60	1.80	1.30	1.70	3.46	1.80	1.40	51.48	3.35	0.56	1.50	0.56	
23	1.50	1.90	1.10	1.60	5.00	1.80	1.30	18.60	2.70	0.48	1.40	0.40	
24	1.50	2.10	1.00	1.30	2.60	1.60	1.30	13.24	2.20	1.40	1.30	0.40	
25	1.40	2.00	1.00	1.10	2.20	2.20	1.60	6.68	1.80	3.68	1.20	0.32	
26	1.40	1.90	1.00	1.00	5.42	1.40	0.00	6.96	2.91	2.00	1.10	0.32	
27	1.40	1.90	0.90	1.00	3.57	1.50	0.48	6.54	2.60	3.02	1.00	0.32	
28	5.56	2.10	1.30	1.00	3.02	1.30	0.64	4.67	2.70	1.80	1.20	0.32	
29	2.50	1.60	1.20	0.90	2.91	1.30	0.24	3.90	2.80	4.67	1.10	0.24	
30	2.40	1.50	1.20	1.00	2.91	1.30	1.30	3.79	2.91	2.80		0.24	
31		1.40		1.40	2.10		1.80		2.80	2.10		0.24	
Total	57.86	43.46	42.70	43.80	88.51	55.32	47.72	328.49	83.43	50.57	117.39	15.42	974.67 CMSDAY
Mean	1.93	1.40	1.42	1.41	2.86	1.84	1.54	10.95	2.69	1.63	4.05	0.50	2.66 CMS
Max	5.56	2.40	2.20	2.80	5.42	3.02	3.24	51.48	7.38	4.67	37.44	1.10	51.48 CMS
Min	1.40	0.00	0.90	0.90	1.10	1.30	0.00	1.40	1.70	0.08	1.00	0.00	0.00 CMS
Runoff	4.999	3.755	3.689	3.784	7.647	4.780	4.123	28.382	7.208	4.369	10.142	1.332	84.211 MCM

Momentary Peak 123.16 CMS, at 5.37 M (AD), at 15.00 Hours, on Nov 22, 1995
Runoff Yield 106.52 Liters/Second/Square KM, Momentary Peak Yield 4926.400 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

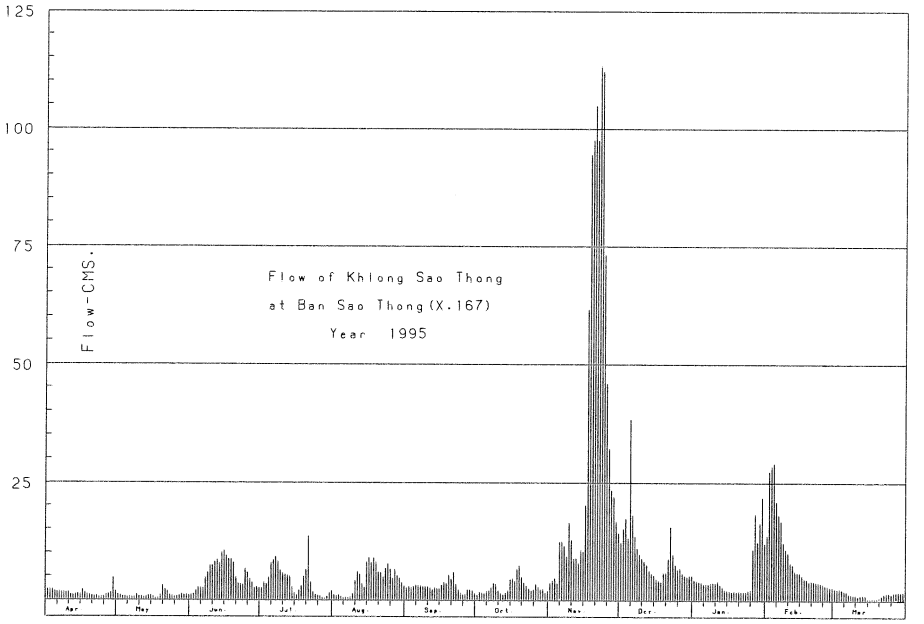
Khlong Sao Thong at Ban Sao Thong, Nakhon Si Thammarat (X.167)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +3.53 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	0.49	0.46	0.66	0.47	0.66	0.45	0.76	1.37	0.83	1.45	0.65	
2	0.64	0.43	0.51	0.78	0.40	0.70	0.58	0.81	1.53	0.81	2.10	0.65	
3	0.63	0.38	0.61	0.75	0.46	0.67	0.55	0.86	1.65	0.80	2.14	0.65	
4	0.60	0.37	0.68	0.87	0.37	0.70	0.54	0.76	1.42	0.78	2.17	0.64	
5	0.59	0.35	0.67	1.10	0.31	0.72	0.60	1.38	2.50	0.75	1.82	0.61	
6	0.58	0.35	0.67	1.14	0.30	0.72	0.62	1.38	1.68	0.75	1.68	0.60	
7	0.57	0.34	0.86	1.19	0.32	0.71	0.67	1.33	1.45	0.75	1.62	0.51	
8	0.57	0.32	0.96	1.12	0.33	0.70	0.77	1.19	1.30	0.77	1.37	0.50	
9	0.56	0.50	1.06	1.00	0.52	0.69	0.74	1.60	1.22	0.78	1.28	0.48	
10	0.56	0.39	1.07	0.94	0.81	0.70	0.62	1.40	1.17	0.77	1.24	0.46	
11	0.48	0.36	1.12	0.92	0.97	0.67	0.52	1.16	1.12	0.80	1.10	0.45	
12	0.45	0.33	1.14	0.90	0.93	0.64	0.49	1.17	1.08	0.74	1.08	0.45	
13	0.47	0.37	1.10	0.89	0.75	0.67	0.54	1.10	0.99	0.69	0.98	0.45	
14	0.51	0.43	1.24	0.69	0.68	0.66	0.62	1.27	0.95	0.64	0.96	0.45	
15	0.47	0.42	1.27	0.55	1.11	0.65	0.84	1.26	0.91	0.62	0.95	0.48	
16	0.63	0.35	1.20	0.44	1.18	0.73	0.85	1.78	0.85	0.61	0.90	0.48	
17	0.55	0.28	1.16	0.62	1.11	0.78	0.81	3.07	0.81	0.60	0.85	0.48	
18	0.50	0.27	1.15	0.71	1.17	0.76	1.02	3.52	0.80	0.60	0.83	0.48	
19	0.44	0.48	1.11	0.88	1.12	0.91	1.07	3.55	0.95	0.60	0.80	0.48	
20	0.41	0.72	0.87	1.01	0.96	0.84	0.87	3.62	0.96	0.60	0.80	0.57	
21	0.40	0.64	0.76	1.45	0.96	0.97	0.78	3.55	1.16	0.59	0.80	0.78	
22	0.40	0.60	0.74	0.79	0.87	0.75	0.71	3.69	1.56	0.58	0.78	0.81	
23	0.34	0.46	0.74	0.57	1.02	0.63	0.66	3.68	1.22	0.59	0.78	0.84	
24	0.34	0.40	1.02	0.49	1.09	0.55	0.61	3.27	1.08	0.61	0.76	0.85	
25	0.39	0.37	0.96	0.45	1.02	0.49	0.64	2.72	1.01	0.64	0.75	0.81	
26	0.46	0.36	0.85	0.40	0.86	0.48	0.75	2.28	1.03	1.28	0.72	0.85	
27	0.51	0.44	0.77	0.31	1.01	0.64	0.68	1.93	0.95	1.69	0.70	0.87	
28	0.55	0.49	0.67	0.26	0.91	0.63	0.64	1.86	0.90	1.38	0.69	0.87	
29	0.87	0.47	0.68	0.38	0.85	0.62	0.64	1.62	0.89	1.60	0.67	0.87	
30	0.59	0.46	0.67	0.54	0.78	0.52	0.56	1.48	0.90	1.86		0.87	
31		0.45		0.61	0.70		0.61		0.90	1.35		0.92	
Mean	0.52	0.42	0.89	0.76	0.79	0.69	0.68	1.97	1.17	0.85	1.13	0.64	
Max	0.87	0.72	1.27	1.45	1.18	0.97	1.07	3.69	2.50	1.86	2.17	0.92	3.69
Min	0.34	0.27	0.46	0.26	0.30	0.48	0.45	0.76	0.80	0.58	0.67	0.45	0.26

Annual Max Momentary Gage Height 3.69 M (AD), at 18.00 Hours, on Nov 21, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -1.08 M (AD)
Left Bank Elevation 3.52 M (AD)
Right Bank Elevation 3.92 M (AD), Drainage Area 268 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.31	1.36	1.24	2.63	1.28	2.63	1.20	3.68	12.39	4.46	13.80	2.52	
2	2.42	1.12	1.46	3.89	1.00	3.05	1.88	4.22	15.24	4.22	27.55	2.52	
3	2.31	0.93	2.11	3.57	1.24	2.74	1.70	4.82	17.55	4.10	28.53	2.52	
4	2.00	0.90	2.84	4.94	0.90	3.05	1.64	3.68	13.26	3.89	29.27	2.42	
5	1.94	0.83	2.74	8.00	0.69	3.26	2.00	12.56	38.60	3.57	21.14	2.11	
6	1.88	0.83	2.74	8.60	0.65	3.26	2.21	12.56	18.18	3.57	18.18	2.00	
7	1.82	0.79	4.82	9.35	0.72	3.15	2.74	11.71	13.80	3.57	16.92	1.46	
8	1.82	0.72	6.02	8.30	0.76	3.05	3.78	9.35	11.20	3.78	12.39	1.40	
9	1.76	1.40	7.40	6.50	1.52	2.94	3.47	16.50	9.84	3.89	10.86	1.32	
10	1.76	0.97	7.55	5.78	4.22	3.05	2.21	12.90	9.05	3.78	10.18	1.24	
11	1.32	0.86	8.30	5.54	6.14	2.74	1.52	8.90	8.30	4.10	8.00	1.20	
12	1.20	0.76	8.60	5.30	5.66	2.42	1.36	9.05	7.70	3.47	7.70	1.20	
13	1.28	0.90	8.00	5.18	3.57	2.74	1.64	8.00	6.38	2.94	6.26	1.20	
14	1.46	1.12	10.18	2.94	2.84	2.63	2.21	10.69	5.90	2.42	6.02	1.20	
15	1.28	1.08	10.69	1.70	8.15	2.52	4.58	10.52	5.42	2.21	5.90	0.50	
16	2.31	0.83	9.50	1.16	9.20	3.37	4.70	20.28	4.70	2.11	5.30	0.50	
17	1.70	0.58	8.90	2.21	8.15	3.89	4.22	61.64	4.22	2.00	4.70	0.50	
18	1.40	0.55	8.75	3.15	9.05	3.68	6.80	94.60	4.10	2.00	4.46	0.50	
19	1.16	1.32	8.15	5.06	8.30	5.42	7.55	97.60	5.90	2.00	4.10	0.50	
20	1.04	3.26	4.94	6.65	6.02	4.58	4.94	104.98	6.02	2.00	4.10	0.72	
21	1.00	2.42	3.68	13.80	6.02	6.14	3.89	97.60	8.90	1.94	4.10	1.34	
22	1.00	2.00	3.47	4.00	4.94	3.57	3.15	113.31	15.78	1.88	3.89	1.46	
23	0.79	1.24	3.47	1.82	6.80	2.31	2.63	112.12	9.84	1.94	3.89	1.64	
24	0.79	1.00	6.80	1.36	7.85	1.70	2.11	73.37	7.70	2.11	3.68	1.70	
25	0.97	0.90	6.02	1.20	6.80	1.36	2.42	46.14	6.65	2.42	3.57	1.46	
26	1.24	0.86	4.70	1.00	4.82	1.32	3.57	32.20	6.95	10.86	3.26	1.70	
27	1.46	1.16	3.78	0.69	6.65	2.42	2.84	23.56	5.90	18.39	3.05	1.82	
28	1.70	1.36	2.74	0.51	5.42	2.31	2.42	22.02	5.30	12.56	2.94	1.82	
29	4.94	1.28	2.84	0.93	4.70	2.21	2.42	16.92	5.18	16.50	2.74	1.82	
30	1.94	1.24	2.74	1.64	3.89	1.52	1.76	14.34	5.30	22.02		1.82	
31		1.20		2.11	3.05		2.11		5.30	12.05		2.12	
Total	50.00	35.77	165.17	129.51	141.00	89.03	91.67	1069.82	300.55	166.75	276.48	46.23	2561.98 CMSDAY
Mean	1.67	1.15	5.51	4.18	4.55	2.97	2.96	35.66	9.70	5.38	9.53	1.49	7.00 CMS
Max	4.94	3.26	10.69	13.80	9.20	6.14	7.55	113.31	38.60	22.02	29.27	2.52	113.31 CMS
Min	0.79	0.55	1.24	0.51	0.65	1.32	1.20	3.68	4.10	1.88	2.74	0.50	0.50 CMS
Runoff	4.320	3.091	14.271	11.190	12.182	7.692	7.920	92.432	25.968	14.407	23.888	3.994	221.355 MCM

Momentary Peak 113.31 CMS, at 3.69 M (AD), at 18.00 Hours, on Nov 21, 1995
Runoff Yield 26.12 Liters/Second/Square KM, Momentary Peak Yield 422.798 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

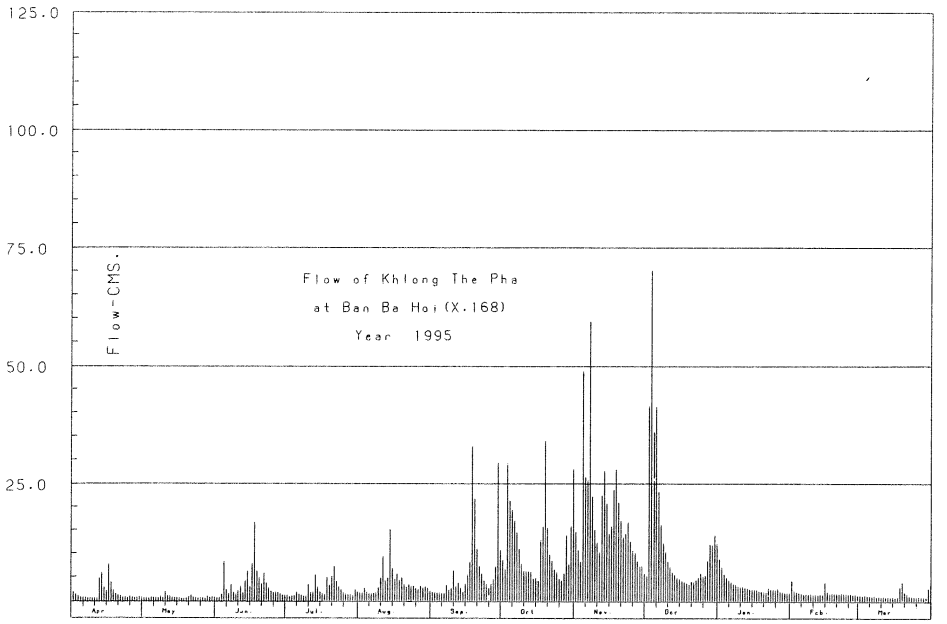
Khlong The Pha at Ban Ba Hoi, Yala (X.168)

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 fair. Stage-discharge relation defined by 100 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.57	0.58	0.63	0.68	0.70	1.06	1.30	0.91	1.08	0.85	0.63	
2	0.65	0.57	0.57	0.61	0.67	0.69	0.98	1.16	1.97	1.00	0.72	0.63	
3	0.62	0.56	0.66	0.61	0.75	0.68	1.71	1.05	2.49	0.93	0.70	0.63	
4	0.60	0.58	1.05	0.63	0.69	0.68	1.51	2.12	1.86	0.89	0.69	0.63	
5	0.60	0.58	0.73	0.69	0.67	0.67	1.45	1.64	1.97	0.86	0.67	0.62	
6	0.57	0.57	0.66	0.66	0.66	0.67	1.38	1.62	1.56	0.83	0.66	0.62	
7	0.56	0.56	0.80	0.63	0.68	0.79	1.30	2.31	1.35	0.81	0.66	0.62	
8	0.55	0.62	0.69	0.62	0.68	0.72	1.17	1.53	1.22	0.80	0.66	0.61	
9	0.56	0.58	0.65	0.61	0.76	0.75	1.03	1.32	1.14	0.78	0.66	0.61	
10	0.55	0.70	0.71	0.80	0.88	0.96	0.96	1.22	1.06	0.77	0.65	0.61	
11	0.55	0.63	0.77	0.69	1.10	0.77	0.96	1.14	1.00	0.77	0.65	0.61	
12	0.88	0.62	0.68	0.69	0.85	0.82	0.96	1.54	0.95	0.76	0.65	0.60	
13	0.94	0.58	0.84	0.92	0.88	0.75	0.95	1.67	0.92	0.75	0.65	0.60	
14	0.76	0.58	0.96	0.76	1.32	0.70	0.88	1.49	0.89	0.74	0.65	0.60	
15	0.71	0.56	0.77	0.70	0.99	0.80	0.88	1.29	0.87	0.73	0.83	0.60	
16	1.03	0.56	1.03	0.66	0.87	0.92	0.85	1.34	0.85	0.73	0.70	0.59	
17	0.83	0.54	1.37	0.64	0.93	1.05	1.24	1.57	0.83	0.73	0.67	0.59	
18	0.72	0.53	0.96	0.89	0.85	1.79	1.34	1.68	0.82	0.71	0.67	0.76	
19	0.67	0.56	0.88	0.79	0.89	1.52	1.82	1.50	0.80	0.71	0.67	0.83	
20	0.64	0.60	0.80	0.90	0.80	1.17	1.33	1.38	0.84	0.70	0.67	0.70	
21	0.62	0.64	0.94	1.01	0.76	1.01	1.12	1.26	0.83	0.70	0.67	0.66	
22	0.60	0.60	0.82	0.84	0.80	0.93	1.06	1.29	0.86	0.75	0.67	0.62	
23	0.59	0.57	0.75	0.76	0.77	0.85	0.98	1.37	0.89	0.74	0.67	0.61	
24	0.58	0.56	0.71	0.73	0.78	0.80	0.95	1.23	0.94	0.73	0.66	0.61	
25	0.61	0.55	0.69	0.69	0.75	0.75	0.88	1.15	0.91	0.73	0.66	0.60	
26	0.59	0.56	0.69	0.66	0.73	0.80	0.85	1.13	0.91	0.74	0.66	0.60	
27	0.58	0.55	0.69	0.65	0.78	0.87	0.94	1.06	1.06	0.71	0.65	0.60	
28	0.58	0.61	0.66	0.64	0.75	1.00	1.28	1.01	1.21	0.70	0.65	0.59	
29	0.61	0.59	0.64	0.63	0.77	1.71	1.03	1.01	1.20	0.69	0.64	0.59	
30	0.59	0.60	0.63	0.73	0.75	1.16	1.34	0.93	1.28	0.68		0.75	
31		0.59		0.69	0.71		1.68		1.21	0.68		0.81	
Mean	0.65	0.58	0.78	0.71	0.80	0.92	1.16	1.38	1.15	0.77	0.68	0.64	
Max	1.03	0.70	1.37	1.01	1.32	1.79	1.82	2.31	2.49	1.08	0.85	0.83	2.49
Min	0.55	0.53	0.57	0.61	0.66	0.67	0.85	0.93	0.80	0.68	0.64	0.59	0.53

Annual Max Momentary Gage Height 2.88 M (AD), at 6.00 Hours, on Nov 7, 1995
Zero Gage at Bottom Elevation 0.38 M (AD), River Bed 0.15 M (AD)
Left Bank Elevation 8.27 M (AD)
Right Bank Elevation 8.72 M (AD), Drainage Area 315 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.10	0.85	0.90	1.33	1.88	2.10	8.68	14.80	5.50	9.14	4.50	1.33	
2	1.55	0.85	0.85	1.11	1.77	1.99	6.90	11.04	41.50	7.30	2.42	1.33	
3	1.22	0.80	1.66	1.11	2.90	1.88	29.43	8.45	70.39	5.90	2.10	1.33	
4	1.00	0.90	8.45	1.33	1.99	1.88	21.58	49.04	36.12	5.14	1.99	1.33	
5	1.00	0.90	2.58	1.99	1.77	1.77	19.50	26.60	41.50	4.66	1.77	1.22	
6	0.85	0.85	1.66	1.66	1.66	1.77	17.20	25.80	23.48	4.18	1.66	1.22	
7	0.80	0.80	3.70	1.33	1.88	3.54	14.80	59.59	16.30	3.86	1.66	1.22	
8	0.75	1.22	1.99	1.22	1.88	2.42	11.28	22.34	12.56	3.70	1.66	1.11	
9	0.80	0.90	1.55	1.11	3.06	2.90	7.99	15.40	10.56	3.38	1.66	1.11	
10	0.75	2.10	2.26	3.70	4.98	6.50	6.50	12.56	8.68	3.22	1.55	1.11	
11	0.75	1.33	3.22	1.99	9.60	3.22	6.50	10.56	7.30	3.22	1.55	1.11	
12	4.98	1.22	1.88	1.99	4.50	4.02	6.50	22.72	6.30	3.06	1.55	1.00	
13	6.10	0.90	4.34	5.70	4.98	2.90	6.30	27.80	5.70	2.90	1.55	1.00	
14	3.06	0.90	6.50	3.06	15.40	2.10	4.98	20.86	5.14	2.74	1.55	1.00	
15	2.26	0.80	3.22	2.10	7.10	3.70	4.98	14.52	4.82	2.58	4.18	1.00	
16	7.99	0.80	7.99	1.66	4.82	5.70	4.50	16.00	4.50	2.58	2.10	0.95	
17	4.18	0.70	16.90	1.44	5.90	8.45	13.12	23.86	4.18	2.58	1.77	0.95	
18	2.42	0.65	6.50	5.14	4.50	32.87	16.00	28.20	4.02	2.26	1.77	3.06	
19	1.77	0.80	4.98	3.54	5.14	21.96	34.24	21.20	3.70	2.26	1.77	4.18	
20	1.44	1.00	3.70	5.30	3.70	11.28	15.70	17.20	4.34	2.10	1.77	2.10	
21	1.22	1.44	6.10	7.53	3.06	7.53	10.08	13.68	4.18	2.10	1.77	1.66	
22	1.00	1.00	4.02	4.34	3.70	5.90	8.68	14.52	4.66	2.90	1.77	1.22	
23	0.95	0.85	2.90	3.06	3.22	4.50	6.90	16.90	5.14	2.74	1.77	1.11	
24	0.90	0.80	2.26	2.58	3.38	3.70	6.30	12.84	6.10	2.58	1.66	1.11	
25	1.11	0.75	1.99	1.99	2.90	2.90	4.98	10.80	5.50	2.58	1.66	1.00	
26	0.95	0.80	1.99	1.66	2.58	3.70	4.50	10.32	5.50	2.74	1.66	1.00	
27	0.90	0.75	1.99	1.55	3.38	4.82	6.10	8.68	8.68	2.26	1.55	1.00	
28	0.90	1.11	1.66	1.44	2.90	7.30	14.24	7.53	12.28	2.10	1.55	0.95	
29	1.11	0.95	1.44	1.33	3.22	29.43	7.99	7.53	12.00	1.99	1.44	0.95	
30	0.95	1.00	1.33	2.58	2.90	11.04	16.00	5.90	14.24	1.88		2.90	
31		0.95		1.99	2.26		28.20		12.28	1.88		3.86	
Total	55.76	29.67	110.51	77.86	122.91	203.77	370.65	557.24	407.15	102.51	55.36	45.42	2138.81 CMSDAY
Mean	1.86	0.96	3.68	2.51	3.96	6.79	11.96	18.57	13.13	3.31	1.91	1.47	5.84 CMS
Max	7.99	2.10	16.90	7.53	15.40	32.87	34.24	59.59	70.39	9.14	4.50	4.18	70.39 CMS
Min	0.75	0.65	0.85	1.11	1.66	1.77	4.50	5.90	3.70	1.88	1.44	0.95	0.65 CMS
Runoff	4.818	2.563	9.548	6.727	10.619	17.606	32.024	48.146	35.178	8.857	4.783	3.924	184.793 MCM

Momentary Peak 96.60 CMS, at 2.88 M (AD), at 6.00 Hours, on Nov 7, 1995
Runoff Yield 18.55 Liters/Second/Square KM, Momentary Peak Yield 306.667 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENNINSULA EAST COAST

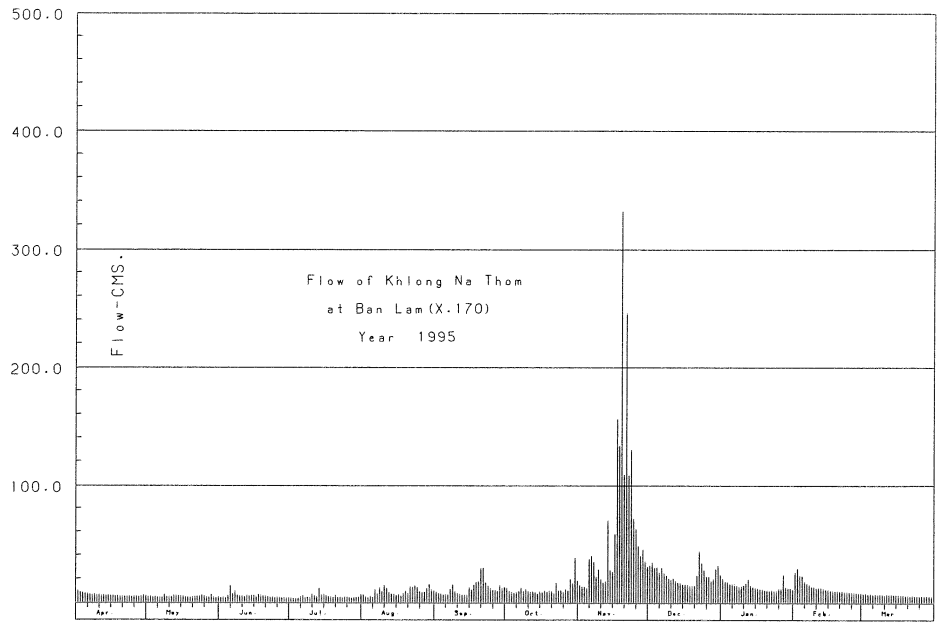
Khlong Na Thom at Ban Lam, Phattalung (X.170)

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 fair. Stage-discharge relation defined by 30 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.87	0.73	0.70	0.68	0.78	0.84	0.93	0.99	1.35	1.12	1.22	0.81	
2	0.85	0.73	0.71	0.68	0.72	0.82	0.87	0.95	1.39	1.07	1.30	0.81	
3	0.83	0.72	0.70	0.67	0.70	0.80	0.84	0.96	1.31	1.05	1.17	0.80	
4	0.82	0.72	0.75	0.68	0.73	0.79	0.83	0.92	1.31	1.02	1.17	0.80	
5	0.81	0.72	0.98	0.73	0.71	0.78	0.83	1.45	1.22	1.01	1.06	0.79	
6	0.80	0.71	0.81	0.75	0.89	0.79	0.87	1.51	1.31	0.99	1.03	0.79	
7	0.79	0.71	0.86	0.70	0.81	0.90	0.93	1.41	1.22	0.98	0.99	0.79	
8	0.79	0.78	0.77	0.70	0.93	1.00	0.87	1.15	1.17	0.96	0.96	0.79	
9	0.78	0.73	0.74	0.70	0.86	0.85	0.90	1.28	1.13	0.96	0.95	0.79	
10	0.78	0.72	0.74	0.79	0.98	0.82	0.87	1.11	1.09	0.99	0.93	0.78	
11	0.77	0.73	0.73	0.75	0.93	0.80	0.84	1.05	1.13	1.05	0.93	0.78	
12	0.77	0.77	0.76	0.72	0.83	0.78	0.86	1.06	1.07	1.11	0.94	0.79	
13	0.77	0.75	0.75	0.93	0.81	0.77	0.83	1.95	1.05	0.97	0.91	0.78	
14	0.76	0.76	0.76	0.78	0.79	0.78	0.81	1.27	1.03	0.95	0.90	0.78	
15	0.76	0.74	0.76	0.80	0.77	0.93	0.85	1.23	1.01	0.93	0.89	0.77	
16	0.75	0.73	0.74	0.75	0.78	0.90	0.84	1.79	1.00	0.92	0.88	0.77	
17	0.75	0.72	0.79	0.73	0.75	0.99	0.87	2.96	0.99	0.91	0.87	0.77	
18	0.75	0.71	0.76	0.72	0.81	1.06	0.85	2.73	0.98	0.90	0.87	0.76	
19	0.74	0.71	0.75	0.71	0.86	1.06	0.87	4.42	0.97	0.89	0.86	0.76	
20	0.74	0.71	0.74	0.76	0.82	1.29	0.86	2.45	0.98	0.88	0.86	0.75	
21	0.74	0.74	0.73	0.71	0.96	1.31	0.82	3.77	1.18	0.88	0.86	0.75	
22	0.74	0.74	0.71	0.70	0.94	1.05	1.04	2.45	1.57	0.88	0.85	0.75	
23	0.73	0.73	0.71	0.70	0.98	0.97	0.87	2.70	1.39	0.87	0.85	0.75	
24	0.73	0.77	0.70	0.71	0.94	0.93	0.88	1.97	1.26	0.87	0.84	0.74	
25	0.73	0.74	0.70	0.71	0.86	0.89	0.85	1.85	1.16	0.92	0.84	0.74	
26	0.73	0.71	0.71	0.70	0.83	0.88	0.90	1.64	1.15	0.91	0.83	0.74	
27	0.73	0.71	0.70	0.69	0.85	0.87	0.88	1.51	1.08	1.19	0.83	0.74	
28	0.75	0.78	0.69	0.69	0.92	0.98	1.12	1.60	1.11	0.94	0.82	0.74	
29	0.77	0.71	0.69	0.71	1.01	0.92	1.02	1.41	1.29	0.93	0.82	0.74	
30	0.75	0.70	0.68	0.71	0.89	0.95	1.47	1.32	1.34	0.92		0.73	
31		0.71		0.78	0.88		1.08		1.19	0.90		0.73	
Mean	0.77	0.73	0.74	0.73	0.85	0.92	0.91	1.76	1.18	0.96	0.94	0.77	
Max	0.87	0.78	0.98	0.93	1.01	1.31	1.47	4.42	1.57	1.19	1.30	0.81	4.42
Min	0.73	0.70	0.68	0.67	0.70	0.77	0.81	0.92	0.97	0.87	0.82	0.73	0.67

Annual Max Momentary Gage Height 4.65 M (AD), at 16.00 Hours, on Nov 19, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.49 M (AD)
Left Bank Elevation 6.73 M (AD)
Right Bank Elevation 7.27 M (AD), Drainage Area 269 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.80	5.90	5.00	4.40	7.40	9.60	13.20	15.60	32.50	21.00	26.00	8.40	
2	10.00	5.90	5.30	4.40	5.60	8.80	10.80	14.00	34.50	18.80	30.00	8.40	
3	9.20	5.60	5.00	4.10	5.00	8.00	9.60	14.40	30.50	18.00	23.50	8.00	
4	8.80	5.60	6.50	4.40	5.90	7.70	9.20	12.80	30.50	16.80	23.5	8.00	
5	8.40	5.60	15.20	5.90	5.30	7.40	9.20	37.50	26.00	16.40	18.40	7.70	
6	8.00	5.30	8.40	6.50	11.60	7.70	10.80	40.60	30.50	15.60	17.20	7.70	
7	7.70	5.30	10.40	5.00	8.40	12.00	13.20	35.50	26.00	15.20	15.60	7.70	
8	7.70	7.40	7.10	5.00	13.20	16.00	10.80	22.50	23.50	14.40	14.40	7.70	
9	7.40	5.90	6.20	5.00	10.40	10.00	12.00	29.00	21.50	14.40	14.00	7.70	
10	7.40	5.60	6.20	7.70	15.20	8.80	10.80	20.50	19.60	15.60	13.20	7.40	
11	7.10	5.90	5.90	6.50	13.20	8.00	9.60	18.00	21.50	18.00	13.20	7.40	
12	7.10	7.10	6.80	5.60	9.20	7.40	10.40	18.40	18.80	20.50	13.60	7.70	
13	7.10	6.50	6.50	13.20	8.40	7.10	9.20	70.50	18.00	14.80	12.40	7.40	
14	6.80	6.80	6.80	7.40	7.70	7.40	8.40	28.50	17.20	14.00	12.00	7.40	
15	6.80	6.20	6.80	8.00	7.10	13.20	10.00	26.50	16.40	13.20	11.60	7.10	
16	6.50	5.90	6.20	6.50	7.40	12.00	9.60	59.30	16.00	12.80	11.20	7.10	
17	6.50	5.60	7.70	5.90	6.50	15.60	10.80	157.00	15.60	12.40	10.80	7.10	
18	6.50	5.30	6.80	5.60	8.40	18.40	10.00	134.00	15.20	12.00	10.80	6.80	
19	6.20	5.30	6.50	5.30	10.40	18.40	10.80	332.80	14.80	11.60	10.40	6.80	
20	6.20	5.30	6.20	6.80	8.80	29.50	10.40	109.00	15.20	11.20	10.40	6.50	
21	6.20	6.20	5.90	5.30	14.40	30.50	8.80	246.10	24.00	11.20	10.40	6.50	
22	6.20	6.20	5.30	5.00	13.60	18.00	17.60	109.00	44.20	11.20	10.00	6.50	
23	5.90	5.90	5.30	5.00	15.20	14.80	10.80	131.00	34.50	10.80	10.00	6.50	
24	5.90	7.10	5.00	5.30	13.60	13.20	11.20	71.90	28.00	10.80	9.60	6.20	
25	5.90	6.20	5.00	5.30	10.40	11.60	10.00	63.50	23.00	12.80	9.60	6.20	
26	5.90	5.30	5.30	5.00	9.20	11.20	12.00	48.80	22.50	12.40	9.20	6.20	
27	5.90	5.30	5.00	4.70	10.00	10.80	11.20	40.60	19.20	24.50	9.20	6.20	
28	6.50	7.40	4.70	4.70	12.80	15.20	21.00	46.00	20.50	13.60	8.80	6.20	
29	7.10	5.30	4.70	5.30	16.40	12.80	16.80	35.50	29.50	13.20	8.80	6.20	
30	6.50	5.00	4.40	5.30	11.60	14.00	38.50	31.00	32.00	12.80		5.90	
31		5.30		7.40	11.20		19.20		24.50	12.00		5.90	
Total	214.20	183.20	192.10	181.50	313.50	385.10	385.90	2019.80	745.70	452.00	397.80	218.50	5689.30 CMSDAY
Mean	7.14	5.91	6.40	5.85	10.11	12.84	12.45	67.33	24.05	14.58	13.72	7.05	15.54 CMS
Max	10.80	7.40	15.20	13.20	16.40	30.50	38.50	332.80	44.20	24.50	30.00	8.40	332.80 CMS
Min	5.90	5.00	4.40	4.10	5.00	7.10	8.40	12.80	14.80	10.80	8.80	5.90	4.10 CMS
Runoff	18.507	15.828	16.597	15.682	27.086	33.273	33.342	174.511	64.428	39.053	34.370	18.878	491.556 MCM

Momentary Peak 365.00 CMS, at 4.65 M (AD), at 16.00 Hours, on Nov 19, 1995
Runoff Yield 57.79 Liters/Second/Square KM, Momentary Peak Yield 1356.877 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

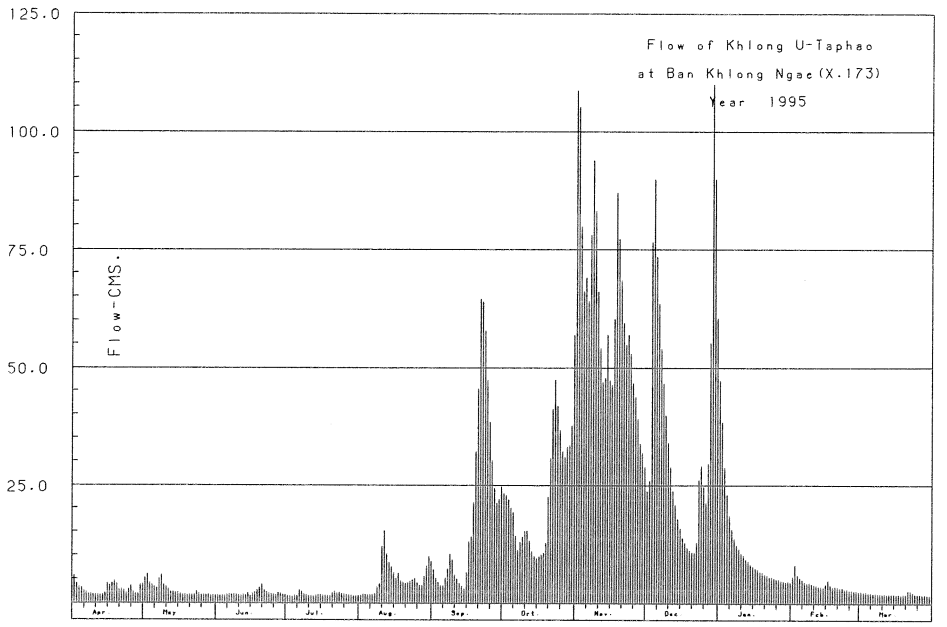
Khlong U Taphao at Ban Khlong Ngae, Songkhla (X.173)

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 fair. Stage-discharge relation defined by 35 discharge measurements made in 1995.

Gage Height in Meter (A.D), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.23	1.16	0.45	0.43	0.45	1.46	3.35	5.54	3.39	4.63	1.20	0.61	
2	0.96	1.30	0.44	0.40	0.48	1.14	3.30	5.51	3.55	4.30	1.60	0.60	
3	0.80	0.98	0.43	0.39	0.47	1.01	3.21	5.26	5.22	3.78	1.28	0.59	
4	0.78	0.92	0.44	0.42	0.45	0.85	3.02	5.06	5.37	3.32	1.16	0.56	
5	0.65	0.83	0.49	0.43	0.49	0.87	2.94	5.11	5.18	2.86	1.11	0.55	
6	0.57	0.75	0.49	0.69	0.48	1.15	2.43	5.02	5.01	2.58	1.01	0.54	
7	0.53	1.14	0.49	0.61	0.54	1.49	2.07	5.24	4.81	2.37	0.98	0.54	
8	0.50	1.26	0.49	0.52	0.80	1.94	2.30	5.41	4.61	2.22	0.98	0.53	
9	0.49	0.91	0.49	0.46	0.94	1.77	2.41	5.30	4.37	2.09	0.95	0.52	
10	0.48	0.81	0.45	0.43	2.17	1.25	2.54	5.06	4.10	1.98	0.91	0.51	
11	0.46	0.73	0.44	0.41	2.55	1.11	2.54	4.81	3.78	1.90	0.87	0.51	
12	0.46	0.60	0.48	0.40	1.94	0.97	2.33	4.62	3.40	1.79	0.84	0.50	
13	0.47	0.59	0.45	0.44	1.70	0.83	2.01	4.64	3.09	1.72	0.81	0.50	
14	0.56	0.58	0.54	0.49	1.54	0.73	1.88	4.88	2.80	1.63	0.80	0.51	
15	0.97	0.57	0.42	0.48	1.34	1.35	1.80	4.63	2.59	1.56	0.91	0.49	
16	0.87	0.51	0.55	0.43	1.15	2.30	1.86	4.60	2.40	1.51	1.07	0.48	
17	0.97	0.49	0.57	0.44	1.33	2.42	1.93	4.95	2.27	1.45	0.90	0.48	
18	1.05	0.48	0.69	0.41	1.05	3.15	1.96	5.34	2.14	1.39	0.80	0.47	
19	0.95	0.47	0.77	0.42	1.02	4.00	2.27	5.23	2.05	1.35	0.84	0.48	
20	0.70	0.46	0.91	0.54	0.95	4.58	3.26	5.10	1.99	1.30	0.80	0.50	
21	0.71	0.48	0.69	0.62	1.00	5.03	3.92	4.93	2.00	1.25	0.77	0.63	
22	0.68	0.48	0.60	0.55	1.03	5.02	4.42	4.83	2.29	1.21	0.76	0.65	
23	0.54	0.63	0.53	0.58	1.10	4.90	4.63	4.88	3.57	1.18	0.72	0.57	
24	0.72	0.52	0.53	0.51	1.13	4.63	4.45	4.78	3.80	1.16	0.71	0.52	
25	0.86	0.49	0.48	0.49	0.99	4.31	4.23	4.61	3.47	1.12	0.68	0.50	
26	0.60	0.48	0.47	0.50	0.86	3.88	4.00	4.52	3.13	1.11	0.66	0.48	
27	0.53	0.48	0.57	0.47	0.88	3.44	3.93	4.33	3.84	1.07	0.65	0.47	
28	0.52	0.46	0.52	0.43	1.23	3.14	4.05	4.09	4.84	1.03	0.64	0.46	
29	0.89	0.44	0.49	0.41	1.57	3.21	4.07	3.98	5.55	1.03	0.62	0.45	
30	0.94	0.43	0.46	0.39	1.88	3.46	4.27	3.78	5.37	1.03		0.43	
31		0.46		0.40	1.71		4.88		4.95	1.02		0.46	
Mean	0.71	0.67	0.53	0.47	1.14	2.51	3.11	4.87	3.71	1.87	0.90	0.52	
Max	1.23	1.30	0.91	0.69	2.55	5.03	4.88	5.54	5.55	4.63	1.60	0.65	5.55
Min	0.46	0.43	0.42	0.39	0.45	0.73	1.80	3.78	1.99	1.02	0.62	0.43	0.39

Annual Max Momentary Gage Height 5.60 M (A.D), at 18.00 Hours, on Nov 1, 1995
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -3.81 M (A.D)
Left Bank Elevation 7.30 M (A.D)
Right Bank Elevation 7.70 M (A.D), Drainage Area 982 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.88	5.46	1.80	1.72	1.80	7.26	23.50	108.80	23.90	47.41	5.70	2.55	
2	4.30	6.30	1.76	1.60	1.92	5.34	23.00	105.20	25.95	38.40	8.10	2.50	
3	3.50	4.40	1.72	1.56	1.88	4.56	22.10	79.98	76.66	28.94	6.18	2.45	
4	3.40	4.10	1.76	1.68	1.80	3.75	20.20	66.30	90.09	23.20	5.46	2.30	
5	2.75	3.65	1.96	1.72	1.96	3.85	19.40	69.15	73.70	18.60	5.16	2.25	
6	2.35	3.25	1.96	2.95	1.92	5.40	14.30	64.10	63.55	15.80	4.56	2.20	
7	2.15	5.34	1.96	2.55	2.20	7.44	11.39	78.32	54.13	13.73	4.40	2.20	
8	2.00	6.06	1.96	2.10	3.50	10.48	13.10	94.10	46.67	12.46	4.40	2.15	
9	1.96	4.05	1.96	1.84	4.20	9.29	14.10	83.30	40.01	11.53	4.25	2.10	
10	1.92	3.55	1.80	1.72	12.09	6.00	15.40	66.30	34.20	10.76	4.05	2.05	
11	1.84	3.15	1.76	1.64	15.50	5.16	15.40	54.13	28.94	10.20	3.85	2.05	
12	1.84	2.50	1.92	1.60	10.48	4.35	13.37	47.04	24.00	9.43	3.70	2.00	
13	1.88	2.45	1.80	1.76	8.80	3.65	10.97	47.78	20.90	8.94	3.55	2.00	
14	2.30	2.40	2.20	1.96	7.74	3.15	10.06	57.14	18.00	8.31	3.50	2.05	
15	4.35	2.35	1.68	1.92	6.54	6.60	9.50	47.41	15.90	7.86	4.05	1.96	
16	3.85	2.05	2.25	1.72	5.40	13.10	9.92	46.30	14.00	7.56	4.92	1.92	
17	4.35	1.96	2.35	1.76	6.48	14.20	10.41	60.50	12.86	7.20	4.00	1.92	
18	4.80	1.92	2.95	1.64	4.80	21.50	10.62	87.18	11.88	6.84	3.50	1.88	
19	4.25	1.88	3.35	1.68	4.62	32.20	12.86	77.49	11.25	6.60	3.70	1.92	
20	3.00	1.84	4.05	2.20	4.25	45.70	22.60	68.50	10.83	6.30	3.50	2.00	
21	3.05	1.92	2.95	2.60	4.50	64.65	30.92	59.50	10.90	6.00	3.35	2.65	
22	2.90	1.92	2.50	2.25	4.68	64.10	41.22	54.99	13.02	5.76	3.30	2.75	
23	2.20	2.65	2.15	2.40	5.10	58.00	47.41	57.14	26.21	5.58	3.10	2.35	
24	3.10	2.10	2.15	2.05	5.28	47.41	42.00	52.96	29.20	5.46	3.05	2.10	
25	3.80	1.96	1.92	1.96	4.45	38.63	36.86	46.67	24.91	5.22	2.90	2.00	
26	2.50	1.92	1.88	2.00	3.80	30.32	32.20	43.90	21.30	5.16	2.80	1.92	
27	2.15	1.92	2.35	1.88	3.90	24.52	31.08	39.09	29.76	4.92	2.75	1.88	
28	2.10	1.84	2.10	1.72	5.88	21.40	33.20	34.00	55.42	4.68	2.70	1.84	
29	3.95	1.76	1.96	1.64	7.92	22.10	33.60	31.88	110.00	4.68	2.60	1.80	
30	4.20	1.72	1.84	1.56	10.06	24.78	37.74	28.94	90.09	4.68		1.72	
31		1.84		1.60	8.87		57.14		60.50	4.62		1.84	
Total	92.62	90.21	64.75	58.98	172.32	608.89	725.57	1858.09	1168.73	356.83	117.08	65.30	5379.37 CMSDAY
Mean	3.09	2.91	2.16	1.90	5.56	20.30	23.41	61.94	37.70	11.51	4.04	2.11	14.70 CMS
Max	5.88	6.30	4.05	2.95	15.50	64.65	57.14	108.80	110.00	47.41	8.10	2.75	110.00 CMS
Min	1.84	1.72	1.68	1.56	1.80	3.15	9.50	28.94	10.83	4.62	2.60	1.72	1.56 CMS
Runoff	8.002	7.794	5.594	5.096	14.888	52.608	62.689	160.539	100.978	30.830	10.116	5.642	464.778 MCM

Momentary Peak 116.00 CMS, at 5.60 M (A.D), at 18.00 Hours, on Nov 1, 1995
Runoff Yield 14.97 Liters/Second/Square KM, Momentary Peak Yield 118.126 Liters/Second/Square KM

WATER YEAR 1995

SOUTHERN PENNINSULA EAST COAST

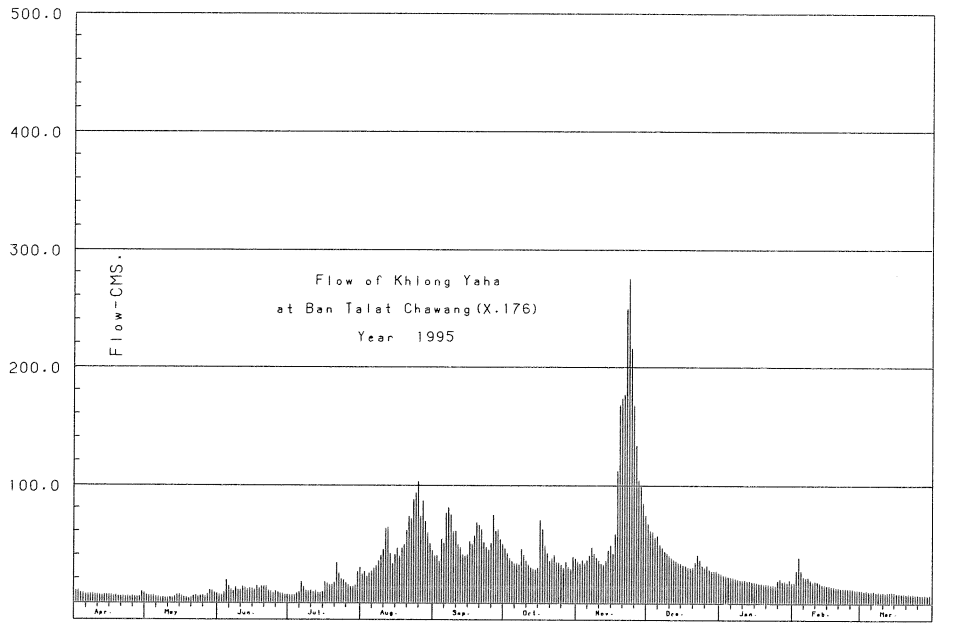
Tapi River at Chawang, Nakhon Si Thammarat (X.176)

Location	Lat. 08°-25'-38" E., Long. 99°-30'-40" N., 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 +4.01 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 60 discharge measurements made in 1995.

Gage Height in Meter (AD), Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.03	0.90	0.90	0.90	1.46	1.89	2.06	1.75	2.51	1.46	1.25	1.02	
2	1.02	0.87	0.90	0.89	1.51	1.89	1.94	1.70	2.38	1.43	1.53	1.01	
3	0.97	0.88	0.96	0.90	1.40	1.77	1.83	1.79	2.38	1.41	1.86	1.01	
4	0.94	0.88	1.31	0.94	1.47	2.24	1.77	1.71	2.27	1.40	1.52	1.00	
5	0.93	0.86	1.16	0.99	1.53	2.18	1.71	1.79	2.31	1.38	1.40	1.00	
6	0.92	0.84	1.05	1.27	1.60	2.67	1.70	1.90	2.14	1.36	1.36	1.00	
7	0.93	0.83	1.02	1.13	1.65	2.76	1.69	2.07	2.06	1.35	1.38	0.98	
8	0.93	0.82	1.12	1.03	1.78	2.65	2.04	1.93	1.99	1.33	1.30	0.98	
9	0.92	0.82	1.05	1.00	1.89	2.37	1.90	1.85	1.94	1.31	1.26	0.97	
10	0.91	0.81	1.04	1.02	2.02	2.39	1.77	1.77	1.88	1.30	1.27	0.97	
11	0.90	0.84	1.12	0.99	2.43	2.14	1.69	1.71	1.84	1.30	1.27	0.96	
12	0.89	0.83	1.11	1.02	2.44	2.07	1.62	1.67	1.80	1.29	1.23	0.98	
13	0.90	0.85	1.04	0.97	1.94	1.92	1.57	1.78	1.76	1.28	1.20	0.96	
14	0.91	0.91	1.10	0.95	1.71	1.87	1.57	2.00	1.73	1.27	1.18	0.99	
15	0.90	0.90	1.09	0.99	1.92	1.92	1.60	2.13	1.70	1.26	1.17	0.96	
16	0.89	0.87	1.04	1.27	2.05	2.21	2.56	1.93	1.66	1.24	1.15	0.95	
17	0.88	0.84	1.16	1.22	1.87	2.16	2.42	2.34	1.66	1.23	1.14	0.94	
18	0.88	0.82	1.08	1.19	2.07	2.30	2.11	3.21	1.61	1.22	1.12	0.94	
19	0.87	0.81	1.15	1.18	2.14	2.52	1.95	3.76	1.61	1.21	1.12	0.93	
20	0.87	0.82	1.13	1.25	2.40	2.49	1.76	3.81	1.61	1.20	1.10	0.93	
21	0.86	0.87	1.13	1.73	2.62	2.41	1.82	3.84	1.74	1.19	1.09	0.93	
22	0.86	0.89	1.03	1.47	2.59	2.20	1.91	4.34	1.91	1.18	1.09	0.92	
23	0.86	0.85	0.99	1.34	2.86	2.08	1.74	4.50	1.79	1.17	1.08	0.92	
24	0.85	0.88	0.96	1.30	2.95	2.03	1.72	4.13	1.66	1.17	1.08	0.91	
25	0.86	0.88	1.00	1.25	3.09	2.17	1.67	3.76	1.60	1.29	1.07	0.90	
26	0.85	0.85	0.98	1.18	2.62	2.65	1.61	3.45	1.65	1.34	1.06	0.90	
27	0.85	0.92	0.95	1.14	2.85	2.39	1.75	3.10	1.57	1.27	1.05	0.90	
28	0.86	1.04	0.93	1.13	2.55	2.41	1.62	3.05	1.52	1.27	1.04	0.89	
29	0.99	1.01	0.91	1.18	2.35	2.25	1.58	2.81	1.53	1.25	1.03	0.89	
30	0.95	0.97	0.90	1.50	2.17	2.15	1.86	2.63	1.53	1.30		0.89	
31		0.93		1.61	2.00		1.83		1.49	1.23		0.88	
Mean	0.91	0.87	1.04	1.16	2.13	2.24	1.82	2.61	1.83	1.29	1.22	0.95	
Max	1.03	1.04	1.31	1.73	3.09	2.76	2.56	4.50	2.51	1.46	1.86	1.02	4.50
Min	0.85	0.81	0.90	0.89	1.40	1.77	1.57	1.67	1.49	1.17	1.03	0.88	0.81

Annual Max Momentary Gage Height 4.53 M (AD), at 15.00 Hours, on Nov 23, 1995
Zero Gage at Bottom Elevation 0.00 M (AD), River Bed -0.05 M (AD)
Left Bank Elevation 4.12 M (AD)
Right Bank Elevation 4.00 M (AD), Drainage Area 684 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.90	7.00	7.00	7.00	24.90	40.38	46.75	35.20	67.72	24.90	17.70	10.60	
2	10.60	6.10	7.00	6.70	26.65	40.38	42.25	33.40	61.00	23.85	27.35	10.30	
3	9.10	6.40	8.80	7.00	22.80	35.92	38.13	36.64	61.00	23.15	39.25	10.30	
4	8.20	6.40	19.74	8.20	25.25	54.00	35.92	33.76	55.50	22.80	27.00	10.00	
5	7.90	5.80	14.80	9.70	27.35	51.25	33.76	36.64	57.50	22.12	22.80	10.00	
6	7.60	5.20	11.50	18.38	29.80	76.46	33.40	40.75	49.75	21.44	21.44	10.00	
7	7.90	4.90	10.60	13.90	31.60	81.68	33.04	47.12	46.75	21.10	22.12	9.40	
8	7.90	4.60	13.60	10.90	36.28	75.30	46.00	41.88	44.13	20.42	19.40	9.40	
9	7.60	4.60	11.50	10.00	40.38	60.50	40.75	38.88	42.25	19.74	18.04	9.10	
10	7.30	4.30	11.20	10.60	45.25	61.50	35.92	35.92	40.00	19.40	18.38	9.10	
11	7.00	5.20	13.60	9.70	63.56	49.75	33.04	33.76	38.50	19.40	18.38	8.80	
12	6.70	4.90	13.30	10.60	64.08	47.12	30.52	32.32	37.00	19.06	17.02	9.40	
13	7.00	5.50	11.20	9.10	42.25	41.50	28.75	36.28	35.56	18.72	16.00	8.80	
14	7.30	7.30	13.00	8.50	33.76	39.63	28.75	44.50	34.48	18.38	15.40	9.70	
15	7.00	7.00	12.70	9.70	41.50	41.50	29.80	49.38	33.40	18.04	15.10	8.80	
16	6.70	6.10	11.20	18.38	46.38	52.50	70.32	41.88	31.96	17.36	14.50	8.50	
17	6.40	5.20	14.80	16.68	39.63	50.50	63.04	59.00	31.96	17.02	14.20	8.20	
18	6.40	4.60	12.40	15.70	47.12	57.00	48.62	112.85	30.16	16.68	13.60	8.20	
19	6.10	4.30	14.50	15.40	49.75	68.24	42.63	167.92	30.16	16.34	13.60	7.90	
20	6.10	4.60	13.90	17.70	62.00	66.68	35.56	173.63	30.16	16.00	13.00	7.90	
21	5.80	6.10	13.90	34.48	73.56	62.52	37.75	177.32	34.84	15.70	12.70	7.90	
22	5.80	6.70	10.90	25.25	71.88	52.00	41.13	249.54	41.13	15.40	12.70	7.60	
23	5.80	5.50	9.70	20.76	87.78	47.50	34.84	275.80	36.64	15.10	12.40	7.60	
24	5.50	6.40	8.80	19.40	93.45	45.63	34.12	216.50	31.96	15.10	12.40	7.30	
25	5.80	6.40	10.00	17.70	103.53	50.88	32.32	167.92	29.80	19.06	12.10	7.00	
26	5.50	5.50	9.40	15.40	73.56	75.30	30.16	134.25	31.60	20.76	11.80	7.00	
27	5.50	7.60	8.50	14.20	87.15	61.50	35.20	104.30	28.75	18.38	11.50	7.00	
28	5.80	11.20	7.90	13.90	69.80	62.52	30.52	100.45	27.00	18.38	11.20	6.70	
29	9.70	10.30	7.30	15.40	59.50	54.50	29.10	84.63	27.35	17.70	10.90	6.70	
30	8.50	9.10	7.00	26.30	50.88	50.13	39.25	74.14	27.35	19.40		6.70	
31		7.90		30.16	44.50		38.13		25.95	17.02		6.40	
Total	215.40	192.70	339.74	466.79	1615.88	1654.27	1179.47	2716.56	1201.31	587.92	491.98	262.30	10924.32 CMSDAY
Mean	7.18	6.22	11.32	15.06	52.13	55.14	38.05	90.55	38.75	18.97	16.96	8.46	29.85 CMS
Max	10.90	11.20	19.74	34.48	103.53	81.68	70.32	275.80	67.72	24.90	39.25	10.60	275.80 CMS
Min	5.50	4.30	7.00	6.70	22.80	35.92	28.75	32.32	25.95	15.10	10.90	6.40	4.30 CMS
Runoff	18.611	16.649	29.354	40.331	139.612	142.929	101.906	234.711	103.793	50.796	42.507	22.663	943.861 MCM

Momentary Peak 280.78 CMS, at 4.53 M (AD), at 15.00 Hours, on Nov 23, 1995
Runoff Yield 43.64 Liters/Second/Square KM, Momentary Peak Yield 410.497 Liters/Second/Square KM

SUSPENDED SEDIMENT STATIONS

1. Ping River at Nawarat Bridge, Chiang Mai (P.1)
2. Ping River at Ban Tha Khae, Tak (P.2A)
3. Mae Taeng River at Mae Taeng, Chiang Mai (P.4A)
4. Ping River at Ban Huai Yang, Kamphaeng Phet (P.7A)
5. Khlong Khlung at Ban Pand Wai, Kamphaeng Phet (P.35)
6. Khlong Suan Mak at Ban Pong Nam Ron, Kamphaeng Phet (P.47)
7. Nam Mae Taeng at Ban Muang Pog, Chiantg Mai (P.65)
8. Nam Mae Taeng at Ban Huai Khrai, Chiang Mai (P.70)
9. Wang River at Setu Wari Bridge, Lampang (W.1C)
10. Wang River at Ban Wang Man, Tak (W.4A)
11. Nan River at Muang, Phitsanulok (N.5A)
12. Nan River at Ban Bun Nak, Nan (N.13A)
13. Nam Mae Ing at Ban Nam Ing, Chiang Rai (I.14)
14. Chao Phraya River at Khai Chira Prawat, Nakhon Sawan (C.2)
15. Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (Ct.5A)
16. Pasak River at Ban Muang Nua, Saraburi (S.9)
17. Pasak River at Ban Pang Hu Sua, Lop Buri (S.31)
18. Chi River at Ban Nong O, Chaiyaphum (E.32A)
19. Nam Yang at Ban Kaeng Yao, Kalasin (E.54)
20. Khlong Phra Prong at Ban Kaeng, Sa Kaeo (Kgt.12)
21. Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt.18)
22. Khlong Luang at Ban Mai, Chon Buri (Kgt.19)
23. Chanthaburi River at Ban Puk, Chanthaburi (Z.13)
24. Khlong Phayat at Ban Chaman, Chanthaburi (Z.14)
25. Khlong Yai at Ban Pak Phraek, Rayong (Z.15)
26. Khlong Hin Dat at Ban Rong Sen, Chanthaburi (Z.21)
27. Khlong Samo Pun at Haew Narok, Prachin Buri (Ny.4)
28. Huai Tha Khoei at Ban Kha, Ratchaburi (K.25A)
29. Huai Phak at Ban Kariang, Phetchaburi (B.8)

30. Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)
31. Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan (Gt.9)
32. Khlong Cha Kra at Ban Cha Kra Bon, Prachuap Khiri Khan (Gt.18)
33. Khlong Phum Duang at Khiri Ratthanikhom, Surat Thani (X.36)
34. Tapi River at Phrasaeng, Surat Thani (X.37A)
35. Khlong Tha Di at Ban Pak Prik, Nakhon Si Thammarat (X.55)
36. Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)
37. Khlong Tan Yong Mat at Rangae, Narathiwat (X.73)
38. Khlong U Taphao at Ban Bang Sala, Songkhla (X.90)
39. Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103)
40. Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104)
41. Khlong Sadao at Ban Phrai, Songkhla (X.111)
42. Khlong Lam at Ban Thung Prap(1), Songkhla (X.113)
43. Khlong Waeng at Waeng, Narathiwat (X.121)
44. Khlong Palian at Ban Lam Khlaeng (2), Trang (X.139)
45. Khlong Chandi at Ban Chandi Nua, Nakhon Si Thammarat (X.163)

WATER YEAR 1995

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.D - 49
Period of Available Records	1993 - Cont'd
Actual Measurement	1993 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:04.12 LQS/LQS02D/12

Station - Nawarat Bridge, A. Muang, Chiang Mai, (P.1)
Stream - Ping
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division
1.71160
QS = 0.7697 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.0	101.6	181.5	69.2	4568.8	9619.4	2770.4	644.1	434.1	101.6	139.2	152.9	
2	63.3	90.3	139.2	57.6	22186.9	15739.5	4119.6	612.1	383.2	101.6	139.2	139.2	
3	63.3	113.7	101.6	63.3	27934.3	21550.4	3645.3	644.1	383.2	113.7	139.2	139.2	
4	69.2	101.6	90.3	52.2	13218.2	18484.8	3473.7	980.8	407.0	101.6	139.2	126.1	
5	101.6	126.1	69.2	196.7	5566.7	23646.9	3820.4	1151.3	383.2	113.7	113.7	79.4	
6	113.7	294.0	90.3	490.6	3417.3	27934.3	5057.5	1064.6	383.2	101.6	69.2	79.4	
7	113.7	315.3	90.3	359.9	3195.4	28496.2	7084.6	783.9	383.2	101.6	101.6	69.2	
8	79.4	253.1	113.7	273.2	4706.3	20455.3	8171.4	644.1	383.2	101.6	126.1	47.0	
9	63.3	315.3	152.9	1107.6	9619.4	13955.3	6407.5	676.9	383.2	90.3	126.1	42.0	
10	126.1	273.2	214.8	1990.8	7985.8	12736.0	4986.5	580.7	383.2	69.2	126.1	52.2	
11	126.1	462.0	294.0	1476.4	5866.8	11448.7	3879.5	519.9	359.9	79.4	139.2	52.2	
12	101.6	1022.3	383.2	783.9	4568.8	8453.2	3140.9	490.6	337.3	57.6	139.2	52.2	
13	90.3	676.9	294.0	383.2	3645.3	7985.8	2719.1	519.9	315.3	57.6	139.2	52.2	
14	90.3	462.0	273.2	273.2	4180.6	5641.1	2275.2	783.9	315.3	57.6	139.2	47.0	
15	101.6	462.0	253.1	253.1	4568.8	4180.6	1990.8	1990.8	315.3	63.3	126.1	47.0	
16	63.3	462.0	181.5	273.2	3530.6	4433.0	1868.0	1575.4	294.0	57.6	126.1	47.0	
17	79.4	315.3	139.2	434.1	4706.3	4180.6	1868.0	1064.6	294.0	52.2	139.2	37.3	
18	63.3	294.0	126.1	580.7	6407.5	3417.3	1868.0	860.5	315.3	52.2	126.1	37.3	
19	57.6	253.1	101.6	676.9	6736.8	2719.1	1807.8	783.9	273.2	57.6	113.7	37.3	
20	69.2	196.7	126.1	899.8	5492.8	2979.8	1332.9	746.7	273.2	52.2	101.6	28.5	
21	63.3	166.9	233.6	860.5	3305.6	5641.1	1107.6	710.3	294.0	52.2	152.9	28.5	
22	69.2	139.2	214.8	490.6	3473.7	12261.3	980.8	644.1	253.1	52.2	273.2	37.3	
23	63.3	126.1	315.3	407.0	4241.9	10882.5	899.8	644.1	273.2	52.2	315.3	42.0	
24	52.2	90.3	315.3	294.0	6251.0	10659.4	821.8	612.1	273.2	47.0	253.1	42.0	
25	37.3	79.4	196.7	315.3	6997.0	11448.7	860.5	549.9	253.1	42.0	196.7	42.0	
26	28.5	113.7	139.2	1151.3	4986.5	7172.7	783.9	549.9	214.8	42.0	166.9	42.0	
27	32.8	139.2	113.7	2419.5	4433.0	5129.0	746.7	549.9	152.9	57.6	273.2	47.0	
28	47.0	101.6	101.6	1748.5	4568.8	3998.8	676.9	549.9	181.5	166.9	273.2	57.6	
29	57.6	196.7	101.6	1064.6	3195.4	3140.9	676.9	490.6	152.9	181.5	214.8	57.6	
30	52.2	181.5	90.3	939.9	2275.2	2719.1	644.1	490.6	152.9	139.2		57.6	
31		166.9		2227.9	3473.7		580.7		126.1	126.1		63.3	
Total	2186.7	8092.0	5237.9	22614.7	199305.2	321110.8	81066.8	22910.2	9327.2	2542.7	4628.5	1881.5	680904.1 Ton
Mean	72.9	261.0	174.6	729.5	6429.2	10703.7	2615.1	763.7	300.9	82.0	159.6	60.7	
Max	126.1	1022.3	383.2	2419.5	27934.3	28496.2	8171.4	1990.8	434.1	181.5	315.3	152.9	28496.2
Min	28.5	79.4	69.2	52.2	2275.2	2719.1	580.7	490.6	126.1	42.0	69.2	28.5	28.5

WATER YEAR 1995

PING RIVER BASIN

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

Location	Lat. 16-52-10 N., Long. 99-07-50 E., on right bank about 200 meters downstream from Kittikhachon I Bridge, Ban Tha Khae, Amphoe Muang, Tak.
Drainage Area	38,862 sq.km.
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 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:08.89 LQS/LQS02D/12

Station - Ban Tha Khae, A. Muang, Tak, (P.2A)
Stream - Ping
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division
0.94701
QS = 5.6132 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1385.7	658.7	1082.2	1123.4	301.0	865.5	658.7	478.0	929.5	111.6	1385.7	1755.0	
2	1266.7	563.8	955.1	583.5	64.2	806.0	692.8	613.0	980.6	101.7	1281.6	1772.0	
3	817.3	1326.3	955.1	270.3	34.5	715.6	681.5	372.8	783.5	243.2	1448.2	1687.9	
4	1311.4	1370.9	715.6	828.6	34.5	817.3	624.4	277.9	316.3	783.5	1432.6	1311.4	
5	1311.4	1417.0	364.4	760.9	48.7	878.3	603.2	450.6	760.9	806.0	534.2	1704.1	
6	1463.7	1194.4	1222.7	670.1	148.6	1006.0	635.9	398.0	217.3	772.2	1236.9	1526.0	
7	1448.2	1137.6	1109.1	817.3	249.7	1417.0	658.7	772.2	839.8	544.1	1266.7	1687.9	
8	1401.4	891.1	1044.2	865.5	372.8	1655.4	624.4	1281.6	347.6	301.0	1296.5	1655.4	
9	1432.6	1069.5	980.6	593.3	167.1	1574.1	670.1	749.6	398.0	942.3	1236.9	1721.1	
10	726.9	1370.9	980.6	262.5	126.4	1479.3	726.9	534.2	514.4	1056.9	1417.0	1856.6	
11	1251.8	929.5	967.8	658.7	197.8	1341.2	554.0	544.1	441.4	1031.5	1166.0	1311.4	
12	1180.2	839.8	277.9	828.6	249.7	1044.2	487.1	544.1	1018.8	1166.0	593.3	1738.1	
13	1109.1	878.3	1180.2	468.9	249.7	1006.0	554.0	223.8	942.3	1166.0	1479.3	1839.7	
14	1417.0	942.3	1137.6	1018.8	230.3	955.1	603.2	929.5	955.1	1069.5	1622.9	1910.4	
15	1137.6	603.2	1082.2	865.5	243.2	891.1	534.2	1208.5	891.1	647.3	1526.0	1983.9	
16	1222.7	839.8	1082.2	573.7	865.5	980.6	583.5	1094.9	839.8	1056.9	1772.0	1873.5	
17	817.3	1123.4	1222.7	270.3	505.3	878.3	635.9	468.9	817.3	1251.8	2002.3	1557.8	
18	1341.2	1463.7	1311.4	468.9	704.2	865.5	839.8	364.4	514.4	1151.8	1704.1	1109.1	
19	1194.4	967.8	670.1	783.5	583.5	929.5	955.1	692.8	1385.7	1401.4	980.6	1822.8	
20	1094.9	942.3	1296.5	658.7	364.4	1031.5	760.9	496.2	1479.3	1180.2	1208.5	2002.3	
21	1069.5	1266.7	1341.2	704.2	414.7	1069.5	406.4	749.6	1311.4	1236.9	1639.2	1839.7	
22	955.1	670.1	1094.9	878.3	563.8	865.5	308.6	459.7	1031.5	534.2	1687.9	1772.0	
23	1018.8	1281.6	1180.2	828.6	1266.7	715.6	256.1	478.0	828.6	1356.0	1590.4	1910.4	
24	583.5	1031.5	1056.9	270.3	1479.3	603.2	256.1	381.2	647.3	1622.9	1687.9	1983.9	
25	1044.2	1044.2	806.0	583.5	478.0	524.3	236.7	593.3	154.8	1069.5	1687.9	1166.0	
26	1208.5	1123.4	270.3	524.3	993.3	624.4	210.8	381.2	432.3	1296.5	1044.2	1839.7	
27	865.5	1137.6	1341.2	406.4	715.6	980.6	191.7	270.3	285.6	1370.9	1704.1	1738.1	
28	955.1	839.8	1370.9	478.0	670.1	1123.4	249.7	1018.8	563.8	1326.3	1622.9	1822.8	
29	993.3	524.3	1194.4	603.2	1385.7	1094.9	249.7	1208.5	301.0	593.3	1590.4	1738.1	
30	993.3	1151.8	1311.4	308.6	1109.1	1094.9	256.1	980.6	364.4	1266.7		1755.0	
31		967.8		301.0	916.7		478.0		185.5	1311.4		1822.8	
Total	34018.3	31569.1	30605.6	19257.4	15734.1	29833.8	16184.2	19016.3	21479.3	29769.5	40846.2	53214.9	341528.7 Ton
Mean	1133.9	1018.4	1020.2	621.2	507.6	994.5	522.1	633.9	692.9	960.3	1408.5	1716.6	
Max	1463.7	1463.7	1370.9	1123.4	1479.3	1655.4	955.1	1281.6	1479.3	1622.9	2002.3	2002.3	2002.3
Min	583.5	524.3	270.3	262.5	34.5	524.3	191.7	223.8	154.8	101.7	534.2	1109.1	34.5

WATER YEAR 1995

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 1992 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:14.79

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

0.55732
QS = 36.0240 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.10	65.21	129.56	84.12	686.40	478.15	346.25	156.55	141.20	49.99	36.02	75.81	
2	27.10	72.41	99.59	68.16	758.74	511.96	299.84	155.17	147.53	48.89	36.02	72.07	
3	27.10	101.01	96.87	62.14	509.52	475.83	285.00	151.04	147.53	47.78	36.02	68.16	
4	27.10	111.88	95.49	63.69	397.65	499.65	311.59	156.55	147.53	60.30	36.02	61.49	
5	27.10	141.34	92.68	115.75	308.14	536.38	280.07	171.61	146.28	82.78	36.02	54.04	
6	27.10	138.47	120.75	137.22	278.41	582.74	329.28	170.21	142.49	75.81	36.02	45.49	
7	27.10	138.47	130.86	128.24	296.47	514.40	437.92	159.28	141.20	68.16	36.02	44.31	
8	27.10	142.75	133.43	135.97	299.84	447.23	417.95	159.28	141.20	61.49	36.02	41.87	
9	27.10	173.00	141.34	159.28	318.76	426.76	349.57	159.28	139.98	61.49	36.02	41.87	
10	23.08	207.58	163.31	255.42	318.76	409.87	291.46	157.92	138.74	61.49	36.02	41.87	
11	20.07	226.11	236.56	184.31	336.15	393.76	263.79	168.80	136.25	61.49	36.02	40.61	
12	20.07	212.34	178.47	159.28	245.09	349.57	255.42	181.33	137.50	57.86	35.01	41.87	
13	20.07	165.96	165.96	151.04	231.38	278.41	263.79	196.14	134.99	56.61	35.01	40.61	
14	18.42	191.61	153.78	144.16	238.27	241.65	210.76	263.79	134.99	52.71	33.97	40.61	
15	18.42	205.98	144.16	132.15	257.11	275.15	209.18	207.78	134.99	49.99	32.90	40.61	
16	18.42	159.28	139.91	125.59	285.00	285.00	205.98	198.33	133.72	48.89	32.90	39.32	
17	16.64	128.24	123.18	121.97	339.55	252.01	199.46	178.13	133.72	47.78	32.90	39.32	
18	16.64	121.97	119.51	124.39	411.90	212.34	197.81	175.75	133.72	45.49	32.90	37.99	
19	16.64	135.97	115.75	160.64	378.04	202.74	201.11	174.55	134.99	43.11	33.97	37.99	
20	16.64	124.39	126.92	185.79	303.18	217.00	187.26	172.13	134.99	41.87	33.97	37.99	
21	14.69	114.47	134.71	151.04	280.07	507.07	178.47	168.45	134.99	40.61	35.01	37.99	
22	14.69	113.18	129.56	84.12	289.86	459.32	170.21	165.96	138.74	39.32	57.86	37.02	
23	14.69	110.57	119.51	79.09	344.58	456.92	164.64	159.90	142.49	39.32	70.78	37.99	
24	14.69	111.88	119.51	69.60	379.90	475.83	163.31	162.34	147.53	39.32	85.44	37.99	
25	23.08	111.88	115.75	84.12	351.21	429.01	161.98	168.45	145.03	39.32	95.03	37.99	
26	29.53	123.18	109.25	252.01	294.77	391.80	160.64	173.34	141.20	37.99	89.32	37.99	
27	39.88	137.22	105.19	212.34	293.06	366.73	159.28	174.55	120.90	37.99	84.12	37.99	
28	43.80	161.98	99.59	257.11	281.72	320.53	156.55	164.76	108.24	37.99	80.05	37.02	
29	57.30	134.71	98.24	273.55	239.97	248.57	155.17	161.13	92.21	37.99	77.24	36.02	
30	77.79	142.75	101.01	293.06	236.56	241.65	153.78	159.90	66.82	37.99		36.02	
31		146.94		309.78	306.49		153.78		56.61	37.02		36.02	
Total	779.15	4372.73	3840.40	4765.13	10496.55	11488.03	7321.30	5172.40	4078.30	1548.84	1374.60	1353.94	56591.38 Ton
Mean	25.97	141.06	128.01	153.71	338.60	382.93	236.17	172.41	131.56	49.96	47.40	43.68	
Max	77.79	226.11	236.56	309.78	758.74	582.74	437.92	263.79	147.53	82.78	95.03	75.81	758.74
Min	14.69	65.21	92.68	62.14	231.38	202.74	153.78	151.04	56.61	37.02	32.90	36.02	14.69

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
Actual Measurement	1995
Remarks	Continued Sediment Station Using Rating Curve Water Year 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:19.36

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
1.95503
QS = 0.0278 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	713.5	1007.0	673.7	1201.6	66.3	2355.7	3339.4	172.2	1172.8	89.9	1290.1	2091.2	
2	775.2	561.2	1172.8	928.8	66.3	2049.5	3106.4	188.8	980.6	80.1	1508.5	2262.2	
3	1544.5	437.7	754.3	396.6	66.3	2355.7	2355.7	197.4	1116.2	80.1	1444.4	2406.0	
4	673.7	1580.9	273.9	495.6	62.0	2456.7	1768.9	206.2	775.2	66.3	1617.6	1886.7	
5	1692.4	2133.3	437.7	543.4	62.0	2262.2	1508.5	215.2	206.2	285.1	1476.3	1544.5	
6	1768.9	2262.2	906.0	635.1	53.8	1847.0	1350.8	308.4	525.9	437.7	357.5	2718.4	
7	1768.9	1617.6	839.3	673.7	62.0	2406.0	1381.7	273.9	156.3	357.5	1508.5	2306.0	
8	1886.7	1088.4	1260.2	673.7	62.0	3788.1	1350.8	525.9	510.7	164.2	1412.9	3049.4	
9	1730.5	495.6	928.8	561.2	66.3	4128.0	1260.2	1320.3	262.8	164.2	1476.3	2306.0	
10	1730.5	635.1	796.3	561.2	66.3	4197.7	1847.0	861.3	188.8	480.8	1320.3	2262.2	
11	451.9	1116.2	693.5	320.3	66.3	3788.1	2665.0	423.8	172.2	861.3	1617.6	2091.2	
12	1580.9	954.5	673.7	495.6	89.9	3106.4	1768.9	437.7	148.7	928.8	1116.2	1580.9	
13	1544.5	839.3	510.7	754.3	119.9	2406.0	1290.1	410.1	713.5	1144.3	383.3	2718.4	
14	1116.2	928.8	1088.4	383.3	172.2	5507.4	1201.6	180.4	817.7	1116.2	1476.3	2559.8	
15	1476.3	713.5	1172.8	1172.8	243.2	5176.0	1060.9	883.5	906.0	733.7	1768.9	2993.0	
16	1172.8	344.9	1172.8	1088.4	332.5	7315.0	980.6	2133.3	597.6	383.3	2008.1	3399.0	
17	1320.3	525.9	1260.2	543.4	654.3	6200.4	906.0	1768.9	344.9	954.5	3462.4	2718.4	
18	525.9	1260.2	1508.5	451.9	635.1	5340.4	1007.0	654.3	396.6	1260.2	3788.1	2008.1	
19	1320.3	2008.1	1692.4	423.8	883.5	4197.7	1144.3	423.8	164.2	1172.8	2508.0	1412.9	
20	1260.2	1088.4	480.8	437.7	616.2	3721.8	1144.3	817.7	1444.4	1886.7	775.2	3854.9	
21	1144.3	954.5	1412.9	495.6	510.7	3339.4	883.5	510.7	1617.6	1201.6	1290.1	3221.9	
22	1172.8	1412.9	1580.9	525.9	561.2	3049.4	480.8	597.6	1412.9	1444.4	1926.7	2456.7	
23	883.5	410.1	1260.2	561.2	1320.3	2262.2	180.4	215.2	980.6	510.7	2355.7	2937.0	
24	928.8	1350.8	1444.4	597.6	2993.0	1617.6	215.2	188.8	928.8	1088.4	2133.3	3399.0	
25	396.6	1033.8	1201.6	344.9	1320.3	1116.2	243.2	164.2	713.5	1476.3	2306.0	2262.2	
26	1060.9	1116.2	597.6	383.3	1260.2	906.0	206.2	233.7	616.2	1007.0	2091.2	1172.8	
27	1654.8	1381.7	357.5	396.6	1033.8	2456.7	206.2	206.2	188.8	1144.3	883.5	2508.0	
28	928.8	1350.8	1350.8	357.5	1116.2	4128.0	172.2	172.2	654.3	1412.9	2133.3	2306.0	
29	1033.8	635.1	1807.7	296.6	1320.3	3590.9	156.3	635.1	197.4	980.6	2262.2	2612.2	
30	1088.4	133.9	1886.7	197.4	4482.2	3221.9	141.2	1508.5	172.2	451.9		2133.3	
31		525.9		156.3	3163.9		141.2		106.7	1350.8		2559.8	
Total	36346.8	31904.5	31197.1	17055.3	23528.5	100294.1	35464.5	16835.3	19190.3	24716.6	49698.5	75738.1	461969.6 Ton
Mean	1211.6	1029.2	1039.9	550.2	759.0	3343.1	1144.0	561.2	619.0	797.3	1713.7	2443.2	
Max	1886.7	2262.2	1886.7	1201.6	4482.2	7315.0	3339.4	2133.3	1617.6	1886.7	3788.1	3854.9	7315.0
Min	396.6	133.9	273.9	156.3	53.8	906.0	141.2	164.2	106.7	66.3	357.5	1172.8	53.8

WATER YEAR 1995

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 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:24.50

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
1.26931
QS = 4.2163 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.03	2.35	2.11	26.46	246.24	451.69	88.67	44.66	7.17	1.49	0.55	
2	0.17	0.03	8.15	1.66	25.91	257.20	560.41	71.78	44.05	7.17	1.49	0.55	
3	0.17	0.03	8.39	1.49	24.27	227.24	488.94	74.92	43.43	6.70	1.57	0.55	
4	0.23	0.03	5.09	2.35	22.04	285.16	447.08	159.49	41.42	6.00	1.57	0.55	
5	0.14	0.09	5.31	3.08	27.57	393.10	590.79	300.95	36.28	4.65	1.40	0.48	
6	0.14	0.09	4.65	49.75	32.68	596.91	809.70	219.29	35.69	4.65	1.15	0.41	
7	0.14	0.09	4.22	141.89	19.56	474.90	665.67	145.06	35.02	5.09	1.15	0.35	
8	0.14	0.07	3.33	66.65	20.83	316.92	716.03	108.19	30.96	4.65	1.32	0.35	
9	0.14	3.85	3.18	98.90	42.12	269.55	947.23	103.52	32.11	3.18	1.32	0.29	
10	0.14	3.95	3.69	335.23	47.42	300.95	2132.95	96.61	27.57	1.84	1.23	0.29	
11	0.12	0.76	16.79	342.84	109.36	377.48	1396.16	88.67	27.57	1.66	1.15	0.23	
12	0.12	3.43	19.56	162.73	176.45	358.15	817.87	80.08	25.91	1.49	1.07	0.23	
13	0.12	18.38	17.51	88.67	154.65	679.96	479.57	72.86	24.27	1.40	0.99	0.20	
14	0.12	19.93	44.05	115.81	157.87	1625.75	346.65	66.65	20.83	3.95	0.91	0.17	
15	0.12	9.52	33.26	71.78	201.63	2075.96	278.89	381.38	22.04	3.95	0.91	0.17	
16	0.09	9.52	12.81	63.01	331.45	2190.27	518.47	768.61	19.12	5.77	0.84	0.14	
17	0.09	3.33	8.39	45.99	263.36	1449.53	651.45	354.31	17.94	1.40	0.76	0.14	
18	0.07	1.66	23.34	77.99	297.78	1783.50	584.69	248.90	17.51	1.57	0.76	0.14	
19	0.05	3.08	44.05	90.92	203.45	1006.01	362.00	171.14	17.51	1.57	0.69	0.14	
20	0.05	2.11	28.13	266.45	149.83	590.79	269.55	130.26	16.79	1.84	3.08	0.14	
21	0.05	1.57	40.12	266.45	128.93	365.86	272.65	113.22	16.36	4.11	58.49	0.12	
22	0.05	1.07	40.12	146.65	143.47	272.65	213.98	101.21	15.23	1.40	29.82	0.12	
23	0.05	0.35	54.96	71.78	381.38	331.45	164.36	90.92	13.83	1.40	9.21	0.12	
24	0.05	1.49	33.26	45.37	190.75	327.67	141.89	83.29	13.49	1.57	4.11	0.12	
25	0.03	0.84	17.94	77.99	291.45	275.77	137.17	74.92	11.47	1.66	3.33	0.12	
26	0.03	1.66	8.64	174.67	335.23	373.60	109.36	68.67	14.88	1.57	2.44	0.14	
27	0.03	0.99	4.65	406.04	235.38	957.03	102.36	65.69	10.49	1.40	1.66	0.14	
28	0.03	0.76	3.33	327.67	199.80	723.20	100.05	63.01	8.89	1.40	1.49	0.14	
29	0.03	0.69	2.58	153.04	313.72	451.69	103.52	54.04	7.90	1.32	1.40	0.14	
30	0.01	0.91	2.44	92.05	307.32	331.45	97.75	47.42	7.17	1.32		0.12	
31		0.84		100.05	257.20		96.61		6.23	1.23		0.12	
Total	2.92	91.15	504.29	3891.06	5119.32	19915.94	15055.49	4493.73	706.62	94.08	136.80	7.47	50018.87 Ton
Mean	0.10	2.94	16.81	125.52	165.14	663.86	485.66	149.79	22.79	3.03	4.72	0.24	
Max	0.23	19.93	54.96	406.04	381.38	2190.27	2132.95	768.61	44.66	7.17	58.49	0.55	2190.27
Min	0.01	0.03	2.35	1.49	19.56	227.24	96.61	47.42	6.23	1.23	0.69	0.12	0.01

WATER YEAR 1995

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.
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 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:29:43.88

LQS/LQS02D/12

Station - Ban Pong Nam Ron, Khlong Lan, Kamphaeng Phet, (P.47)
Stream - Khlong Suan Mak
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division
1.44849
QS = 0.9343 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.56	3.73	1.41	3.73	62.28	166.39	20.39	14.00	4.81	2.74	2.10	
2	0.48	1.10	2.35	1.75	4.15	66.09	152.37	18.99	13.41	4.81	2.61	2.48	
3	0.40	0.82	2.10	1.98	2.93	43.61	110.62	48.13	12.82	4.59	2.61	2.35	
4	0.48	1.00	2.22	1.63	2.48	39.23	103.57	241.67	12.82	4.59	2.48	2.10	
5	0.40	2.48	2.48	2.22	2.10	35.84	93.27	155.06	12.37	4.37	2.48	2.10	
6	1.20	2.93	1.75	3.12	1.98	25.49	101.83	98.38	11.48	4.37	2.48	1.98	
7	1.10	1.86	1.41	2.74	2.35	21.09	103.57	74.12	10.61	4.37	2.48	1.98	
8	0.48	1.86	2.35	1.98	3.32	40.10	110.62	57.56	10.18	4.15	2.48	1.86	
9	0.48	2.93	6.96	3.94	3.52	39.23	333.15	51.84	9.75	4.15	2.35	1.86	
10	0.40	1.98	6.22	11.04	15.82	47.21	432.40	45.40	9.34	4.15	2.35	1.75	
11	0.33	4.81	23.26	5.15	9.34	42.72	194.76	40.10	8.93	3.94	2.35	1.75	
12	0.40	2.61	8.52	3.94	8.12	61.09	127.12	34.17	8.52	3.94	2.35	1.75	
13	0.48	1.98	4.37	2.74	6.96	312.07	98.38	32.54	8.12	3.94	2.22	1.75	
14	0.73	1.52	3.94	3.12	8.12	432.40	78.46	30.92	7.73	3.73	2.22	1.63	
15	0.48	1.63	4.37	3.94	11.48	556.81	74.12	72.76	7.34	3.73	2.22	1.63	
16	0.48	1.63	3.12	3.52	8.52	241.67	91.58	58.73	7.34	3.73	2.10	1.52	
17	0.73	1.31	2.22	3.12	8.52	340.27	84.94	44.50	6.96	3.52	2.10	1.52	
18	0.82	1.75	1.98	4.37	12.82	194.76	66.09	37.52	6.96	3.52	1.98	1.52	
19	0.73	6.58	2.35	4.37	10.61	118.78	49.05	33.35	6.58	3.52	5.50	1.41	
20	0.56	2.48	3.73	4.37	7.34	80.07	43.61	31.73	6.58	3.52	21.81	1.41	
21	0.56	1.63	4.59	3.12	6.22	72.76	40.97	27.01	6.22	3.52	10.61	1.31	
22	0.56	1.20	3.12	2.61	14.60	54.11	37.52	24.74	5.85	3.32	4.15	1.31	
23	0.40	1.00	2.35	2.10	14.60	63.47	33.35	23.26	5.50	3.32	3.32	1.20	
24	0.33	0.82	1.98	2.10	81.68	55.25	30.92	21.81	5.50	3.32	2.74	1.20	
25	0.56	0.73	2.35	1.75	40.97	47.21	30.92	20.39	5.50	3.12	2.61	1.41	
26	1.20	0.73	2.10	2.35	36.68	139.12	27.01	18.34	5.50	3.12	2.35	1.31	
27	1.10	0.56	1.75	2.48	57.56	155.06	26.24	17.70	5.15	3.12	2.35	1.20	
28	0.82	0.82	1.41	2.22	49.97	110.62	25.49	16.44	5.15	2.93	2.22	1.20	
29	0.91	2.22	1.31	1.86	49.05	81.68	49.05	15.82	5.15	2.93	2.22	1.31	
30	0.64	10.18	1.31	1.75	27.78	84.94	31.73	14.60	5.15	2.74		1.20	
31		11.92		2.10	39.23		26.24		5.15	2.74		1.20	
Total	18.80	75.63	111.70	94.89	552.55	3665.03	2975.34	1427.97	251.66	115.63	102.48	50.30	9441.98 Ton
Mean	0.63	2.44	3.72	3.06	17.82	122.17	95.98	47.60	8.12	3.73	3.53	1.62	
Max	1.20	11.92	23.26	11.04	81.68	556.81	432.40	241.67	14.00	4.81	21.81	2.48	556.81
Min	0.33	0.56	1.31	1.41	1.98	21.09	25.49	14.60	5.15	2.74	1.98	1.20	0.33

WATER YEAR 1995

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, King Amphoe Wiang Haeng , Chiang Mai.
Drainage Area	240 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1992 - Cont'd
Actual Measurement	1992 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:28.74

LQS/LQS02D/12

Station - Ban Muang Pok, A. Wiang Haeng, Chiang Mai, (P.65)
Stream - Mae Taeng
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division
1.22934
QS = 5.1643 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.41	7.54	11.81	4.41	622.14	419.44	68.82	25.37	12.63	8.85	4.54	2.76	
2	4.41	6.73	10.49	5.16	451.39	300.99	58.77	24.18	11.66	8.85	3.81	2.42	
3	3.69	9.20	17.35	9.20	252.17	208.10	188.79	25.37	10.71	8.85	3.45	2.42	
4	3.69	21.74	18.80	9.20	191.52	249.03	95.28	21.74	10.71	8.85	3.45	1.78	
5	3.69	11.81	10.49	11.81	135.70	537.60	77.46	19.36	10.71	8.85	3.10	1.78	
6	3.69	8.36	7.54	14.53	104.65	479.32	77.46	19.36	11.66	7.95	3.10	2.42	
7	3.69	15.93	7.54	13.16	102.76	293.69	199.78	18.15	12.63	9.77	3.45	2.09	
8	3.69	10.49	11.81	55.89	151.87	255.32	114.53	15.85	12.63	9.77	3.45	1.78	
9	3.69	8.36	60.28	109.57	164.74	261.65	84.46	16.95	11.66	8.85	3.81	1.78	
10	3.69	20.26	24.94	87.79	135.70	191.52	70.57	16.95	11.66	8.85	3.81	1.78	
11	2.31	60.28	31.92	47.31	89.73	169.96	63.81	15.85	10.71	9.77	3.81	1.78	
12	1.67	20.26	24.94	28.39	67.07	122.73	58.77	15.85	10.71	9.77	3.81	1.78	
13	1.67	30.14	18.80	18.80	67.07	99.01	53.92	15.85	9.77	7.95	3.81	2.09	
14	1.67	64.73	14.53	13.16	74.00	89.73	49.04	26.74	9.77	7.06	3.81	2.09	
15	1.67	28.39	11.81	10.49	67.07	82.64	52.25	22.91	9.77	5.36	3.81	2.09	
16	1.67	14.53	10.49	9.20	86.17	77.46	45.87	18.15	9.77	6.20	3.45	1.78	
17	1.67	24.94	7.54	10.49	326.81	68.82	42.74	18.15	10.71	6.20	3.45	1.78	
18	2.31	47.31	6.73	33.71	308.33	63.81	44.26	16.95	10.71	6.20	3.45	1.78	
19	2.31	15.93	6.73	55.89	177.91	60.48	41.24	16.95	10.71	6.20	3.81	2.09	
20	1.67	11.81	10.49	33.71	128.95	74.00	36.71	15.85	9.77	6.20	3.81	1.78	
21	1.67	9.20	9.20	17.35	135.70	138.04	36.71	15.85	8.85	6.20	7.06	2.09	
22	1.67	7.54	8.36	14.53	147.23	97.14	36.71	16.95	7.95	4.54	12.63	2.42	
23	1.67	11.81	8.36	11.81	233.42	114.53	33.80	19.36	7.95	6.20	20.51	2.42	
24	1.67	14.53	5.94	10.49	142.62	93.42	33.80	21.74	7.95	6.20	10.71	2.42	
25	1.52	14.53	5.16	62.09	110.47	75.67	32.36	24.18	8.85	6.20	6.20	1.78	
26	2.31	9.20	3.69	45.87	104.65	65.44	30.94	24.18	10.71	7.06	4.54	1.18	
27	5.94	11.81	3.69	25.37	79.14	57.18	30.94	22.91	8.85	7.06	4.54	2.09	
28	4.41	17.35	3.69	13.61	67.07	52.25	29.53	19.36	7.06	6.20	4.54	2.76	
29	37.35	13.16	2.98	16.95	55.49	62.09	25.37	18.15	7.06	4.54	4.17	3.45	
30	10.49	11.81	2.98	55.49	49.04	52.25	25.37	13.61	7.06	4.54		2.76	
31		14.53		516.84	151.87		25.37		7.06	4.54		2.09	
Total	125.66	574.21	379.08	1372.27	4982.45	4913.31	1865.43	582.82	308.41	223.63	147.89	65.51	15540.67 Ton
Mean	4.19	18.52	12.64	44.27	160.72	163.78	60.18	19.43	9.95	7.21	5.10	2.11	
Max	37.35	64.73	60.28	516.84	622.14	537.60	199.78	26.74	12.63	9.77	20.51	3.45	622.14
Min	1.52	6.73	2.98	4.41	49.04	52.25	25.37	13.61	7.06	4.54	3.10	1.18	1.18

WATER YEAR 1995

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1995
Actual Measurement	1995
Remarks	Continued Sediment Station Using Rating Curve Water Year 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:33.93

LQS/LQS02D/12

Station - Ban Huai Khrai, A. Wiang Heang, Chiang Mai, (P.70)
Stream - Nam Mae Taeng
River - Ping River
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division
1.12981
QS = 4.9294 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.66	2.66	3.29	1.17	159.49	67.52	15.65	6.06	3.94	3.14	1.90	1.55	
2	2.66	2.66	3.29	1.17	64.22	48.17	13.75	5.77	3.94	2.98	2.05	1.55	
3	2.51	2.35	3.51	1.90	32.44	33.48	38.73	5.77	3.94	3.14	2.05	1.55	
4	2.51	4.16	3.72	1.65	27.98	38.73	20.96	5.77	3.94	3.14	2.05	1.46	
5	2.51	3.94	3.51	1.90	20.96	82.59	17.06	5.77	3.94	3.14	2.05	1.36	
6	2.35	3.14	3.29	2.51	16.09	77.53	17.06	5.77	3.72	3.14	2.05	1.36	
7	2.35	4.16	2.98	2.20	15.14	46.87	34.52	5.49	3.72	3.14	2.20	1.36	
8	2.20	3.29	2.82	2.98	22.94	39.79	23.61	5.04	3.94	3.29	2.20	1.26	
9	2.20	2.51	22.28	8.09	26.22	35.57	18.99	5.04	3.94	3.29	2.20	1.26	
10	2.20	4.16	4.82	9.94	20.30	28.87	16.61	5.04	3.72	2.98	2.20	1.26	
11	2.05	11.95	4.16	6.06	16.61	28.87	14.70	5.04	3.51	2.66	2.20	1.36	
12	2.05	3.72	3.94	4.38	14.70	24.47	13.75	5.04	3.51	2.66	1.90	1.36	
13	2.05	4.60	3.94	3.29	14.19	20.96	13.25	5.26	3.29	2.66	1.55	1.36	
14	2.05	7.50	3.14	2.98	15.14	20.30	12.82	7.21	3.29	2.66	1.55	1.46	
15	2.05	4.38	1.90	2.66	15.14	17.70	12.82	5.77	3.29	2.35	1.55	1.46	
16	2.05	3.29	1.90	2.51	16.61	17.06	11.15	4.82	3.29	2.35	1.55	1.46	
17	2.05	2.98	1.55	2.82	60.94	15.65	10.73	4.60	3.29	2.51	1.65	1.36	
18	2.20	6.92	1.55	5.49	52.09	14.70	11.52	4.60	3.29	2.51	1.75	1.36	
19	2.20	3.29	1.36	7.79	31.54	14.70	11.15	4.60	3.29	2.35	1.75	1.36	
20	2.05	3.29	2.05	5.26	24.47	17.70	9.94	4.60	3.29	2.35	1.75	1.36	
21	2.05	2.35	1.90	3.51	26.22	28.87	9.52	4.38	3.29	2.35	2.51	1.36	
22	2.05	2.35	1.90	3.14	29.76	24.47	9.52	4.16	3.29	2.05	2.98	1.36	
23	2.05	2.51	1.75	2.98	36.62	21.62	8.74	3.94	3.29	2.05	4.16	1.46	
24	2.05	3.29	1.55	2.51	26.22	20.30	8.38	3.94	3.51	2.05	2.66	1.46	
25	1.90	3.14	1.46	12.32	22.28	17.06	8.38	4.16	3.51	2.05	2.05	1.55	
26	1.75	2.98	1.46	10.36	20.96	15.65	7.79	4.60	3.51	2.05	1.90	1.46	
27	2.51	3.14	1.26	7.50	16.61	14.70	7.79	4.60	3.29	2.05	1.75	1.46	
28	2.35	2.98	1.26	5.77	14.19	13.25	7.79	4.38	3.14	2.05	1.75	1.55	
29	11.15	2.82	1.17	6.34	11.95	15.65	6.92	4.38	3.14	2.05	1.65	1.55	
30	3.29	2.66	1.08	11.52	10.73	14.19	6.06	4.16	3.29	2.05		1.65	
31		2.98		129.13	22.28		6.06		3.29	2.05		1.55	
Total	76.10	116.15	93.79	271.83	905.03	876.99	425.72	149.76	108.63	79.29	59.56	44.28	3207.13 Ton
Mean	2.54	3.75	3.13	8.77	29.19	29.23	13.73	4.99	3.50	2.56	2.05	1.43	
Max	11.15	11.95	22.28	129.13	159.49	82.59	38.73	7.21	3.94	3.29	4.16	1.65	159.49
Min	1.75	2.35	1.08	1.17	10.73	13.25	6.06	3.94	3.14	2.05	1.55	1.26	1.08

WATER YEAR 1995

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 1994 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:41.30 LQS/LQS02D/12

Station - Setuwaree Bridge, Muang, Lampang, (W.1C)
Stream - Wang
River - Wang
River System - Wang River

Royal Irrigation Department
Thailand
Hydrology Division
1.27183
QS = 3.2683 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.56	2.50	2.31	24.41	478.11	4345.33	226.40	192.03	123.62	104.10	2.50	2.31	
2	4.56	5.24	1.96	29.50	236.73	7498.42	226.40	192.03	110.41	100.97	2.11	3.27	
3	5.24	2.66	1.63	31.24	91.72	7981.87	216.16	201.01	80.18	104.10	2.31	5.94	
4	5.94	2.31	1.49	29.50	85.83	6864.44	247.16	201.01	71.88	97.87	2.50	7.39	
5	5.94	2.31	1.63	33.00	412.77	5057.03	284.40	211.08	69.15	94.78	2.11	8.14	
6	5.94	2.31	2.11	46.31	807.48	4700.27	201.01	226.40	69.15	94.78	2.66	10.86	
7	5 94	2.31	2.11	27.78	874.17	4237.34	165.63	211.08	69.15	91.72	5.24	15.96	
8	5.94	2.31	1.96	15.96	826.42	2087.67	141.97	201.01	52.55	94.78	7.39	22.76	
9	5.24	2.11	1.78	15.96	520.73	464.88	311.66	165.63	44.27	104.10	13.39	22.76	
10	3.90	2.11	1.63	15.96	572.88	356.35	705.03	145.70	42.25	107.24	17.26	22.76	
11	3.90	1.78	1.49	14.63	751.23	231.55	751.23	141.97	38.41	107.24	21.39	19.97	
12	2.66	3.90	1.49	13.39	933.62	236.73	695.87	141.97	42.25	100.97	21.39	8.14	
13	3.27	5.94	1.49	22.76	816.94	247.16	231.55	127.25	138.26	91.72	9.69	5.24	
14	5.94	7.39	1.63	31.24	633.73	659.47	127.25	279.01	145.70	80.18	6.66	4.56	
15	8.14	5.24	1.63	29.50	626.06	1344.07	120.02	2475.94	145.70	54.66	5.24	8.14	
16	8.91	7.39	1.49	40.24	855.00	1595.53	97.87	1267.80	141.97	3.90	4.56	12.11	
17	7.39	8.14	1.63	134.57	883.79	1680.30	97.87	268.30	141.97	3.27	4.56	15.96	
18	5.24	2.11	1.78	97.87	686.73	1421.27	104.10	262.98	141.97	2.66	3.90	19.97	
19	3.90	2.11	2.11	58.95	572.88	788.63	107.24	464.88	145.70	4.56	3.90	19.97	
20	4.56	1.96	2.50	71.88	542.95	273.64	94.78	542.95	145.70	5.24	5.24	19.97	
21	2.66	1.96	2.66	54.66	412.77	161.32	80.18	183.14	127.25	5.24	12.11	19.97	
22	2.66	1.96	5.24	66.45	491.42	120.02	77.39	110.41	116.80	5.24	13.39	19.97	
23	2.66	1.78	8.14	46.31	1244.07	120.02	71.88	85.83	116.80	2.66	8.14	24.41	
24	2.66	1.63	8.91	40.24	1473.25	134.57	97.87	82.99	120.02	2.31	6.66	31.24	
25	2.50	1.49	8.14	46.31	2117.48	138.26	100.97	77.39	113.59	3.27	5.24	34.78	
26	2.50	1.32	8.14	63.77	2970.11	116.80	94.78	82.99	97.87	4.56	3.90	36.59	
27	2.50	1.32	12.11	82.99	3183.85	123.62	192.03	97.87	94.78	7.39	3.27	26.09	
28	2.50	1.49	12.11	71.88	2775.42	216.16	192.03	97.87	91.72	8.14	2.66	38.41	
29	2.50	1.78	13.39	74.62	2422.06	216.16	196.51	97.87	94.78	12.11	2.31	34.78	
30	2.50	2.50	17.26	97.87	1765.98	226.40	192.03	97.87	94.78	8.14		18.57	
31		2.50		317.18	1867.08		192.03		100.97	4.56		12.11	
Total	132.75	91.86	131.95	1746.93	32933.26	53645.29	6641.30	8934.26	3129.60	1512.46	201.68	553.10	109654.44 Ton
Mean	4.43	2.96	4.40	56.35	1062.36	1788.18	214.24	297.81	100.95	48.79	6.95	17.84	
Max	8.91	8.14	17.26	317.18	3183.85	7981.87	751.23	2475.94	145.70	107.24	21.39	38.41	7981.87
Min	2.50	1.32	1.49	13.39	85.83	116.80	71.88	77.39	38.41	2.31	2.11	2.31	1.32

WATER YEAR 1995

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 1989 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:48.52

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
1.22743
QS = 2.9122 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.88	20.43	5.51	9.59	43.49	2160.25	528.22	133.02	120.44	33.97	17.65	16.02	
2	10.80	10.31	5.51	6.16	47.06	1670.48	687.26	127.60	118.66	33.13	18.75	15.48	
3	12.33	5.51	5.19	5.19	59.93	2528.16	647.64	120.44	116.89	33.13	20.43	15.48	
4	10.80	4.25	5.19	5.51	174.74	2694.45	535.73	115.12	115.12	33.13	19.31	14.41	
5	9.95	11.31	5.51	8.18	425.30	3080.07	461.58	113.35	116.89	31.46	17.10	17.10	
6	8.88	22.55	4.87	9.23	490.99	3027.54	487.30	104.61	111.59	31.46	15.48	14.94	
7	8.88	30.62	3.64	12.84	281.59	2993.91	815.24	111.59	104.61	36.53	14.41	11.31	
8	7.84	39.11	3.16	19.31	172.46	2993.91	1181.66	101.15	97.71	36.53	13.36	9.95	
9	7.49	36.53	2.98	24.93	255.55	2893.44	1004.28	131.21	89.22	33.97	12.33	9.23	
10	7.49	33.97	3.31	34.82	414.53	2694.45	774.32	153.25	84.19	32.29	10.80	9.95	
11	5.83	29.80	4.25	28.97	487.30	2102.62	714.42	140.32	79.22	30.62	12.33	10.31	
12	3.64	17.65	3.94	28.16	483.61	1624.21	832.03	124.01	72.68	28.97	13.89	12.33	
13	3.64	17.65	3.46	22.55	414.53	1342.94	916.89	118.66	71.06	29.80	15.48	13.89	
14	5.83	13.89	2.66	19.87	465.24	1090.43	843.26	111.59	69.45	32.29	17.10	14.94	
15	9.59	21.00	2.18	18.20	561.20	1288.58	749.25	122.22	63.07	33.13	20.43	14.94	
16	7.84	32.29	1.91	15.48	652.02	1532.40	498.40	158.85	58.36	33.13	25.73	14.41	
17	6.16	39.98	1.75	10.80	647.64	1863.81	364.94	258.42	58.36	38.25	25.73	10.80	
18	4.87	37.39	1.75	9.95	643.26	2275.75	308.08	1351.86	56.81	39.11	21.00	8.18	
19	6.16	27.34	1.91	12.84	754.25	2405.37	302.15	1174.60	54.34	32.29	14.94	8.18	
20	7.49	21.00	2.66	14.94	1219.30	2185.82	333.70	638.89	53.42	28.97	15.48	8.18	
21	10.31	18.20	2.35	21.00	1250.00	1830.14	330.26	447.01	51.59	25.73	15.48	7.84	
22	10.31	17.10	1.75	29.80	1257.70	1387.63	323.41	468.90	50.68	23.34	15.48	8.53	
23	7.84	15.48	1.75	39.98	1160.49	899.79	281.59	468.90	49.77	21.00	15.48	9.59	
24	2.35	7.84	1.03	32.29	1023.31	799.53	252.69	302.15	48.86	19.31	14.41	9.59	
25	1.75	7.49	0.51	33.97	854.51	848.88	221.60	207.72	47.96	18.75	16.02	9.59	
26	1.91	25.73	0.35	34.82	1405.58	966.42	197.91	172.46	46.16	17.65	22.55	9.95	
27	2.98	28.97	0.35	33.13	1965.51	1505.06	186.26	149.53	44.38	16.56	24.93	12.84	
28	5.19	11.82	3.31	32.29	2198.63	1167.54	179.33	138.49	42.61	17.10	23.34	16.02	
29	9.23	5.19	7.84	29.80	2486.90	1042.41	155.11	133.02	40.86	16.56	20.43	19.87	
30	14.41	4.56	12.33	29.80	2555.74	643.26	143.99	124.01	37.39	17.10		23.34	
31		6.49		39.98	2486.90		134.84		33.97	16.56		22.55	
Total	220.67	621.45	102.91	674.38	27339.26	55539.25	15393.34	8022.95	2206.32	871.82	509.85	399.74	111901.95 Ton
Mean	7.36	20.05	3.43	21.75	881.91	1851.31	496.56	267.43	71.17	28.12	17.58	12.89	
Max	14.41	39.98	12.33	39.98	2555.74	3080.07	1181.66	1351.86	120.44	39.11	25.73	23.34	3080.07
Min	1.75	4.25	0.35	5.19	43.49	643.26	134.84	101.15	33.97	16.56	10.80	7.84	0.35

WATER YEAR 1995

NAN RIVER BASIN

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

Location	Lat. 16-49-15 N., Long. 100-15-49 E., on left bank near the post office and about 1 kilometer upstream from gaging station N.5, Amphoe Muang, Phitsanulok.
Drainage Area	25,286 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1978 - Cont'd
Actual Measurement	1983 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1983 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:48:56.30 LQS/LQS02D/12

Station - Muang, Muang, Phitsanulok, (N.5A)
Stream - Nan
River - Nan
River System - Nan River

Royal Irrigation Department
Thailand
Hydrology Division
1.81028
QS = 0.1302 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3719.	3384.	3359.	1680.	1918.	34940.	37538.	7106.	5755.	127.	731.	4720.	
2	3262.	955.	3095.	1774.	3335.	50274.	34170.	7935.	5464.	99.	773.	4686.	
3	2909.	1297.	2640.	1182.	7433.	67910.	30162.	6511.	3936.	81.	978.	4884.	
4	2002.	2303.	2284.	697.	7474.	75557.	30263.	5217.	3286.	90.	812.	4591.	
5	3408.	3719.	2909.	1132.	7935.	81971.	30465.	3910.	1157.	616.	833.	2265.	
6	4075.	4622.	1258.	1558.	7682.	90970.	30770.	3458.	1727.	1363.	556.	3458.	
7	4046.	3693.	2909.	1853.	10679.	100377.	38805.	3855.	833.	1284.	1663.	4388.	
8	3359.	2978.	4358.	1918.	12533.	130731.	47284.	3910.	1145.	706.	2751.	5048.	
9	3238.	2155.	6707.	2020.	18656.	141502.	47998.	3359.	1072.	226.	2640.	4622.	
10	3829.	1742.	7850.	1789.	23072.	130731.	43667.	6166.	898.	1377.	2618.	4416.	
11	2359.	2036.	8278.	1084.	26385.	95617.	34611.	6945.	1182.	1789.	3001.	3936.	
12	2955.	2640.	7065.	1663.	26570.	70624.	33190.	3433.	483.	1936.	1588.	2533.	
13	3384.	2795.	4655.	2303.	24839.	63294.	31179.	3535.	1886.	1838.	282.	4046.	
14	2841.	2340.	6395.	1258.	23246.	64190.	26022.	1838.	2706.	1390.	1500.	5645.	
15	3262.	3095.	5048.	1458.	25656.	69067.	23596.	3587.	2378.	773.	2436.	5791.	
16	4358.	3719.	3666.	1417.	27508.	69843.	24303.	6945.	2210.	287.	2773.	5321.	
17	2841.	2932.	3286.	1195.	30872.	68294.	17845.	7850.	1903.	932.	2955.	5013.	
18	1821.	4982.	3587.	483.	36963.	67143.	22470.	13202.	2054.	1711.	3119.	4915.	
19	2120.	6786.	3693.	791.	41786.	66761.	24303.	13018.	689.	1472.	2728.	3119.	
20	3335.	4915.	2751.	1048.	44709.	65394.	25745.	11731.	2662.	1195.	1271.	3719.	
21	3483.	3119.	2417.	1084.	43031.	60346.	24926.	4720.	3535.	1284.	2397.	6203.	
22	3587.	3048.	2322.	1012.	37656.	59008.	23596.	4187.	3640.	1258.	4416.	6090.	
23	3286.	1759.	2417.	1207.	36064.	60346.	19026.	5250.	2662.	456.	5828.	4818.	
24	2474.	2247.	2228.	1377.	38805.	72196.	9622.	5572.	2359.	706.	6203.	4720.	
25	1918.	2120.	1789.	601.	39505.	79178.	6015.	4850.	1618.	1145.	5464.	4947.	
26	2228.	2120.	1572.	714.	41292.	77358.	9335.	4622.	463.	1220.	4751.	2494.	
27	3384.	2474.	422.	1821.	41662.	70624.	10467.	3214.	601.	1170.	3666.	3483.	
28	2533.	3166.	921.	3458.	41539.	59426.	9052.	1096.	1170.	1207.	4244.	4655.	
29	2359.	1727.	1602.	3190.	39271.	51241.	6945.	2909.	887.	1233.	4818.	5115.	
30	2841.	587.	1680.	1936.	38924.	43793.	6242.	4915.	390.	563.		5285.	
31		2155.		1727.	36963.		3640.		133.	706.		5048.	
Total	91216.	87610.	103163.	46430.	843963.	2238706.	763252.	164846.	60884.	30240.	77795.	139974.	4648079. Ton
Mean	3041.	2826.	3439.	1498.	27225.	74624.	24621.	5495.	1964.	975.	2683.	4515.	
Max	4358.	6786.	8278.	3458.	44709.	141502.	47998.	13202.	5755.	1936.	6203.	6203.	141502.
Min	1821.	587.	422.	483.	1918.	34940.	3640.	1096.	133.	81.	282.	2265.	81.

WATER YEAR 1995

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 1995

RID Computer Center, Processing : 26-JUN-1997 13:49:01.84 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
1.61505
QS = 0.3360 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.	30.	72.	1860.	62346.	230624.	4640.	1595.	1016.	560.	120.	86.	
2	42.	27.	63.	1185.	75501.	200156.	4518.	1522.	992.	541.	120.	86.	
3	40.	30.	81.	824.	56651.	149320.	4397.	1450.	968.	541.	113.	81.	
4	42.	32.	637.	949.	25018.	137330.	6698.	1415.	921.	541.	113.	81.	
5	58.	40.	745.	1435.	13276.	126208.	13639.	1380.	898.	522.	106.	76.	
6	142.	40.	602.	1828.	65526.	69018.	13423.	1380.	875.	522.	106.	76.	
7	230.	42.	586.	3838.	99839.	50406.	11849.	1345.	853.	522.	99.	76.	
8	177.	58.	328.	3747.	101459.	35690.	10254.	1282.	830.	522.	99.	76.	
9	106.	120.	264.	22066.	76838.	30955.	9490.	1158.	808.	503.	99.	76.	
10	76.	127.	264.	21656.	47946.	24878.	6548.	1158.	786.	485.	99.	72.	
11	58.	230.	328.	7166.	28411.	20881.	5746.	1158.	764.	485.	92.	72.	
12	46.	264.	315.	3612.	31684.	17379.	4764.	1158.	764.	485.	92.	67.	
13	42.	427.	264.	2536.	45187.	14074.	4218.	1099.	743.	485.	92.	63.	
14	40.	384.	1322.	3030.	49148.	13103.	3926.	4100.	743.	197.	92.	63.	
15	40.	398.	1494.	1989.	74703.	21435.	3868.	30626.	721.	197.	92.	58.	
16	37.	384.	906.	3315.	89309.	21435.	3868.	14624.	721.	197.	86.	58.	
17	35.	208.	504.	6179.	69776.	13531.	3754.	5400.	700.	197.	86.	54.	
18	35.	134.	342.	9356.	47548.	10941.	3868.	3420.	700.	197.	86.	54.	
19	30.	120.	264.	6633.	43638.	10941.	3642.	2540.	700.	187.	106.	54.	
20	32.	106.	230.	8731.	37470.	9024.	3475.	2115.	680.	187.	120.	50.	
21	30.	81.	264.	6437.	29475.	13639.	3366.	1866.	680.	187.	120.	50.	
22	30.	63.	241.	7645.	44604.	15750.	2993.	1669.	680.	177.	127.	50.	
23	27.	58.	230.	5813.	45577.	13316.	2993.	1522.	680.	177.	149.	50.	
24	25.	50.	252.	3151.	32694.	10645.	2942.	1415.	680.	177.	134.	46.	
25	25.	46.	241.	6437.	53265.	8658.	2589.	1313.	659.	167.	127.	46.	
26	25.	42.	197.	10842.	47747.	7005.	2253.	1250.	639.	167.	120.	46.	
27	37.	46.	187.	5874.	31039.	6033.	2115.	1219.	619.	134.	113.	46.	
28	58.	40.	157.	4169.	19632.	5270.	1906.	1189.	599.	127.	99.	46.	
29	54.	58.	149.	14577.	13075.	4889.	1866.	1128.	579.	127.	86.	67.	
30	37.	76.	2990.	28411.	27959.	4702.	1825.	1128.	599.	127.		86.	
31		81.		55287.	147405.		1706.		579.	127.		86.	
Total	1706.	3842.	14519.	260578.	1633746.	1297236.	153139.	93624.	23176.	9767.	3093.	1998.	3496424. Ton
Mean	57.	124.	484.	8406.	52701.	43241.	4940.	3121.	748.	315.	107.	64.	
Max	230.	427.	2990.	55287.	147405.	230624.	13639	30626.	1016.	560.	149.	86.	230624.
Min	25.	27.	63.	824.	13075.	4702.	1706	1099.	579.	127.	86.	46.	25.

WATER YEAR 1995

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 1995

RID Computer Center, Processing : 26-JUN-1997 13:49:14.35

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
1.19605
QS = 4.5385 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.4	16.2	37.2	11.0	4039.7	6265.0	2564.9	482.8	468.8	118.5	53.8	33.4	
2	26.0	14.9	38.7	11.0	4198.8	8305.9	2418.3	436.5	422.8	110.2	48.1	30.4	
3	22.4	13.6	33.4	12.9	4158.9	9883.5	2318.4	413.6	382.0	103.9	45.7	26.0	
4	21.7	12.9	37.2	15.6	3934.2	10495.0	2165.4	395.5	350.8	101.2	40.2	24.5	
5	24.5	15.6	57.0	44.2	3444.2	10228.9	2049.5	409.1	324.4	95.8	40.2	21.7	
6	84.2	21.7	74.7	89.5	3750.6	9723.0	2564.9	409.1	307.0	98.5	40.2	21.7	
7	113.0	30.4	74.7	101.2	5215.1	9244.1	3253.5	386.5	289.7	98.5	40.2	21.7	
8	86.9	34.9	62.8	101.2	7050.4	8690.4	3555.6	373.0	270.5	95.8	42.6	21.0	
9	69.6	44.2	79.9	183.0	7953.8	8376.6	3410.4	368.6	243.2	92.2	40.2	21.0	
10	62.8	49.7	95.8	506.2	7674.0	8305.9	3012.6	359.7	227.6	81.6	38.7	21.7	
11	51.3	58.7	84.2	468.8	7119.3	8094.3	2657.2	355.2	216.3	77.3	37.2	21.0	
12	49.7	101.2	67.9	333.2	6711.5	7674.0	2400.1	364.1	220.4	77.3	33.4	16.9	
13	40.2	163.3	55.4	231.8	6765.4	7188.2	2255.2	377.5	216.3	79.9	31.9	16.2	
14	34.9	278.0	48.1	166.2	7050.4	6407.3	2246.2	894.5	198.1	81.6	30.4	16.2	
15	31.9	427.3	51.3	176.1	7119.3	6158.6	2309.3	2192.2	183.0	79.9	28.2	16.2	
16	26.7	468.8	49.7	156.5	7257.3	5946.7	2409.2	2509.7	172.1	74.7	30.4	16.2	
17	23.8	496.8	38.7	169.2	7257.3	5890.4	2518.9	2076.1	163.3	67.9	26.7	15.6	
18	21.0	473.5	31.9	209.2	7326.5	5750.1	2546.5	1537.8	153.6	62.8	26.0	16.9	
19	18.9	413.6	24.5	422.8	7050.4	5485.0	2509.7	1288.8	149.7	65.4	24.5	19.6	
20	16.9	324.4	33.4	668.7	6981.7	5194.4	2427.4	1220.6	144.0	69.6	23.8	16.2	
21	15.6	282.2	37.2	641.7	7326.5	5009.0	2255.2	1234.2	144.0	67.9	30.4	15.6	
22	14.2	278.0	34.9	510.9	7743.8	4787.3	1908.4	1247.8	140.2	67.9	58.7	14.2	
23	13.6	216.3	53.8	400.0	7674.0	4601.0	1427.0	1282.0	140.2	65.4	42.6	11.7	
24	11.7	144.0	49.7	333.2	7534.7	4365.7	1013.2	1309.4	140.2	62.8	51.3	11.0	
25	10.4	101.2	42.6	311.3	7188.2	4185.5	852.1	1261.5	137.3	61.2	55.4	10.4	
26	9.8	69.6	31.9	601.6	6711.5	3960.5	745.7	1146.3	137.3	57.0	48.1	10.4	
27	11.7	53.8	19.6	694.6	6496.5	3750.6	663.8	901.0	125.1	53.8	40.2	9.8	
28	12.9	45.7	14.9	525.1	6300.5	3421.7	601.6	678.6	127.9	51.3	34.9	11.0	
29	17.6	48.1	13.6	641.7	6059.6	3108.9	567.9	577.5	134.5	51.3	34.9	13.6	
30	21.0	44.2	12.3	1978.7	5946.7	2834.0	515.6	520.3	127.9	53.8		16.2	
31		44.2		3275.9	5834.2		501.5		125.1	55.4		17.6	
Total	995.3	4787.0	1387.0	13993.0	196875.0	193331.5	62645.2	27009.5	6583.3	2380.4	1118.9	555.6	511661.7 Ton
Mean	33.2	154.4	46.2	451.4	6350.8	6444.4	2020.8	900.3	212.4	76.8	38.6	17.9	
Max	113.0	496.8	95.8	3275.9	7953.8	10495.0	3555.6	2509.7	468.8	118.5	58.7	33.4	10495.0
Min	9.8	12.9	12.3	11.0	3444.2	2834.0	501.5	355.2	125.1	51.3	23.8	9.8	9.8

WATER YEAR 1995

CHAO PHRAYA RIVER BASIN

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

Location	Lat. 15-40-15 N., Long. 100-06-45 E., on left bank at Khai Chira Prawat about 3 kilometers downstream from Dechatiwong Bridge, Amphoe Muang, Nakhon Sawan.
Drainage Area	110,569 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.P - 61
Period of Available Records	1960 - Cont'd
Actual Measurement	1965 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1965 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:49:27.77 LQS/LQS02D/12

Station - Khai Chira Prawat, A. Muang, Nakhon Sawan, (C.2)
Stream - Chao Phraya
River - Chao Phraya
River System - Chao Phraya

Royal Irrigation Department
Thailand
Hydrology Division
1.45185
QS = 0.9429 QW

Water Year - 1995

Suspended Sediment, in Hundred Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	75.00	58.59	45.41	58.18	143.26	596.37	2097.44	808.17	195.13	39.78	46.18	122.13	
2	80.43	59.63	56.73	64.92	137.82	603.21	2064.67	771.35	214.73	31.26	49.49	128.97	
3	80.89	58.59	71.66	67.29	128.18	612.24	2032.68	746.03	216.91	25.79	51.87	129.77	
4	79.29	44.46	79.75	62.36	128.97	626.50	2000.23	718.25	210.39	20.81	56.73	128.97	
5	71.00	39.04	78.61	48.12	139.17	629.10	1967.94	690.81	199.37	16.88	58.59	128.97	
6	61.73	58.18	72.10	35.97	147.39	639.99	1936.43	661.05	179.64	14.01	58.18	114.64	
7	71.00	78.61	61.31	39.41	149.05	653.13	1872.67	637.37	150.44	19.18	54.28	103.57	
8	79.29	89.04	49.49	47.15	150.44	666.80	1778.89	605.36	140.80	36.69	42.94	113.11	
9	85.99	88.57	63.42	56.12	163.41	685.45	1703.17	572.60	122.13	45.41	57.14	120.57	
10	86.46	79.29	81.58	64.92	182.59	715.54	1646.62	557.06	120.57	41.26	70.56	126.86	
11	84.59	65.99	99.14	77.93	216.91	735.06	1590.67	546.63	110.83	30.24	76.80	127.38	
12	78.61	61.73	115.41	78.61	241.01	751.53	1562.92	514.51	101.35	32.64	78.61	126.06	
13	63.42	67.72	120.57	64.92	262.89	768.57	1521.59	475.41	97.92	50.48	79.75	113.88	
14	69.90	71.00	116.70	65.56	286.38	779.69	1453.47	448.20	95.25	61.31	65.56	105.06	
15	72.10	75.00	100.61	76.12	308.04	817.58	1398.00	418.04	107.81	65.56	49.88	119.79	
16	68.81	75.00	111.59	76.80	324.17	885.34	1347.62	391.91	118.24	64.49	60.68	131.37	
17	71.00	73.88	113.11	89.75	340.55	942.41	1295.09	381.46	116.70	56.12	75.67	139.17	
18	73.88	71.00	105.06	92.37	356.08	1010.13	1223.94	400.94	112.35	42.00	87.16	144.09	
19	68.81	78.61	100.61	85.29	375.53	1077.23	1209.01	400.94	105.06	45.79	107.81	132.97	
20	56.12	103.57	102.83	74.33	387.42	1143.58	1175.10	382.95	95.74	56.73	114.64	117.47	
21	61.73	124.49	98.65	70.56	406.99	1209.01	1156.15	360.46	88.57	64.49	99.14	108.56	
22	69.46	115.93	83.43	76.80	421.10	1286.40	1131.04	347.75	105.56	68.37	77.48	126.86	
23	73.88	104.31	89.04	85.99	435.36	1398.00	1096.80	317.48	119.02	64.49	86.46	140.80	
24	75.00	97.19	87.16	91.18	448.20	1507.89	1063.40	299.04	119.79	59.21	115.41	138.36	
25	69.46	77.48	84.12	99.14	467.47	1604.60	1027.28	270.20	109.31	44.08	132.97	137.00	
26	61.73	78.61	82.73	105.56	505.96	1660.70	989.06	260.25	94.53	49.88	138.36	141.62	
27	51.47	72.10	71.66	99.87	521.05	1717.40	945.86	245.85	77.93	60.68	137.82	119.02	
28	55.71	70.56	55.10	106.31	525.15	1841.65	920.82	234.91	58.59	62.79	118.24	107.81	
29	64.92	76.12	86.46	122.92	542.07	2000.23	895.98	209.16	47.73	64.49	111.59	115.41	
30	61.31	76.12	43.70	137.00	548.71	2032.68	871.36	180.52	46.76	64.92		122.92	
31		61.73		144.09	572.60		840.30		47.15	59.63		131.37	
Total	2122.99	2352.14	2527.74	2465.54	9963.92	31598.01	43816.20	13854.66	3726.30	1459.46	2359.99	3864.53	120111.48 100To
Mean	70.77	75.88	84.26	79.53	321.42	1053.27	1413.43	461.82	120.20	47.08	81.38	124.66	
Max	86.46	124.49	120.57	144.09	572.60	2032.68	2097.44	808.17	216.91	68.37	138.36	144.09	2097.44
Min	51.47	39.04	43.70	35.97	128.18	596.37	840.30	180.52	46.76	14.01	42.94	103.57	14.01

WATER YEAR 1995

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
Actual Measurement	1983 - 1986, 1995
Remarks	Continued Sediment Station Using Rating Curve Water Year 1983 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:49:36.86 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
1.55607
QS = 1.3667 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	2.31	10.56	1.81	13.22	215.94	684.12	119.56	67.01	14.34	9.05	15.54	
2	0.11	1.59	15.54	1.81	13.80	427.34	583.07	109.42	57.03	14.34	9.05	14.34	
3	0.27	2.06	12.14	90.31	15.54	251.86	374.55	112.80	57.03	14.34	9.05	13.80	
4	0.27	1.81	11.59	69.59	13.80	241.38	381.85	826.60	52.27	13.80	8.55	13.22	
5	0.27	2.06	33.07	9.51	13.22	267.95	396.92	1143.73	49.94	13.80	8.55	13.22	
6	0.27	2.57	10.03	12.65	10.03	602.82	1083.07	482.73	43.56	13.80	8.07	12.65	
7	0.27	7.63	6.30	84.21	11.04	404.36	673.75	324.90	39.95	13.80	8.07	12.65	
8	0.27	5.44	4.66	159.25	13.80	622.80	958.92	226.02	38.19	12.65	8.07	12.14	
9	0.33	4.66	3.93	41.74	17.78	482.73	4647.09	215.94	36.45	12.65	7.63	12.14	
10	0.33	9.51	4.66	43.56	16.72	557.36	3719.42	196.28	33.07	12.65	8.07	11.59	
11	0.33	26.98	43.56	61.95	78.26	285.25	1386.55	172.72	33.07	12.65	7.63	11.04	
12	0.33	33.07	25.76	45.40	304.85	622.80	826.60	154.85	33.07	12.65	7.16	11.04	
13	0.27	41.74	33.07	18.85	141.90	2349.70	583.07	177.30	28.23	12.65	6.71	10.56	
14	0.27	17.78	81.17	163.70	102.87	3669.27	404.36	130.02	28.23	12.14	6.71	10.03	
15	0.39	11.04	29.81	43.56	126.46	9384.94	374.55	694.73	26.98	11.59	6.30	10.03	
16	0.33	8.07	19.95	69.59	177.30	6477.52	972.01	781.74	25.76	11.59	6.30	9.51	
17	0.33	6.71	15.54	33.07	236.26	2686.89	759.64	435.15	24.55	11.04	6.30	9.51	
18	0.33	24.55	43.56	99.70	196.28	1698.23	622.80	298.27	24.55	10.56	6.30	9.51	
19	0.27	13.22	12.65	130.02	106.18	804.05	443.01	251.86	23.37	10.03	67.01	9.05	
20	0.39	16.10	12.65	163.70	119.56	498.93	359.80	211.03	23.37	10.03	130.02	8.55	
21	0.39	10.03	59.47	163.70	112.80	318.17	574.39	186.70	22.21	10.03	374.55	8.55	
22	0.39	6.71	38.19	43.56	920.06	298.27	273.44	159.25	21.07	10.56	90.31	8.07	
23	0.39	4.27	28.23	25.76	304.85	716.14	236.26	137.68	19.95	10.56	47.65	8.07	
24	0.33	3.21	13.80	72.38	181.92	515.49	211.03	123.05	19.95	10.03	33.07	7.63	
25	0.27	4.27	11.59	130.02	278.83	412.03	191.41	109.42	18.85	10.03	24.55	10.03	
26	1.16	1.81	8.55	61.95	186.70	565.94	159.25	109.42	17.78	10.03	21.07	13.80	
27	13.22	1.59	5.06	31.43	141.90	3276.98	150.49	90.31	16.72	9.51	18.85	10.03	
28	7.63	0.97	3.56	57.03	109.42	972.01	141.90	84.21	16.10	9.05	16.72	9.05	
29	3.56	1.37	2.31	22.21	168.19	574.39	251.86	78.26	15.54	9.05	16.72	8.55	
30	2.90	3.93	2.06	14.94	109.42	396.92	168.19	72.38	15.54	9.05		7.63	
31		11.04		12.14	109.42		163.70		14.94	9.05		7.63	
Total	35.88	288.10	603.02	1979.10	4352.38	40598.47	22757.07	8216.33	944.33	358.05	978.09	329.16	81439.98 Ton
Mean	1.20	9.29	20.10	63.84	140.40	1353.28	734.10	273.88	30.46	11.55	33.73	10.62	
Max	13.22	41.74	81.17	163.70	920.06	9384.94	4647.09	1143.73	67.01	14.34	374.55	15.54	9384.94
Min	0.01	0.97	2.06	1.81	10.03	215.94	141.90	72.38	14.94	9.05	6.30	7.63	0.01

WATER YEAR 1995

PASAK RIVER BASIN

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

Location	Lat. 14°-37'-33" N., Long. 101°-01'-00" E., on left bank at Ban Muang Nua railway bridge, Amphoe Kaeng Khoi, Saraburi.
Drainage Area	14,374 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1978 - Cont'd
Actual Measurement	1978 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1978 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:30:04.98

LQS/LQS02D/12

Station - Ban Muang Nua, Kaeng Khoi, Saraburi, (S.9)
Stream - Pasak
River - Pasak
River System - Pasak River

Royal Irrigation Department
Thailand
Hydrology Division
1.34226
QS = 3.0432 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.3	9.9	147.3	36.8	2887.2	14102.5	19395.2	2500.1	241.3	44.7	22.2	18.9	
2	9.9	9.9	79.8	33.7	3210.7	13874.5	17535.4	2093.1	235.1	44.7	22.2	18.9	
3	8.8	9.9	58.1	97.1	3405.0	13539.5	15677.7	1705.4	228.9	43.1	20.9	25.0	
4	8.8	18.3	58.1	305.6	3503.2	13790.6	13748.7	1385.6	210.7	41.5	20.9	26.4	
5	12.7	15.1	68.7	83.6	3689.3	13965.6	12383.7	1083.6	198.8	41.5	20.9	23.6	
6	15.7	12.7	59.8	44.7	3731.8	12958.3	11254.7	945.2	181.2	38.3	20.9	15.7	
7	17.0	13.3	51.3	36.8	3817.2	12058.3	10037.7	811.9	175.4	36.8	19.6	15.7	
8	15.7	12.1	47.9	38.3	3751.8	11175.1	8857.3	729.8	164.0	36.8	19.6	18.9	
9	14.5	27.8	44.7	49.6	3405.0	10426.4	7860.8	661.3	158.4	35.2	19.6	20.9	
10	15.7	110.2	46.3	125.8	3424.6	9921.9	6895.5	605.6	164.0	35.2	18.9	20.9	
11	15.7	55.5	47.9	299.0	3624.5	9960.5	6344.8	551.1	164.0	35.2	18.9	22.2	
12	15.1	83.6	44.7	325.6	3731.8	10465.5	5362.0	529.7	158.4	35.2	18.9	22.9	
13	15.1	136.4	36.8	345.9	4402.3	11374.3	4580.8	510.0	136.4	32.2	18.9	22.9	
14	15.7	88.4	32.2	401.6	5417.0	12752.3	4230.7	500.9	136.4	31.5	18.9	22.2	
15	15.7	55.5	32.2	447.7	5974.8	14469.3	3953.8	483.0	125.8	31.5	18.9	20.9	
16	15.7	39.9	51.3	456.4	6488.6	18459.4	4045.6	423.0	125.8	31.5	18.9	19.6	
17	15.1	38.3	110.2	483.0	7101.3	20346.6	4766.5	394.5	125.8	31.5	20.9	18.9	
18	14.5	35.2	198.8	616.6	7547.4	20563.1	5890.3	373.5	110.2	30.7	19.6	18.3	
19	11.5	35.2	222.8	729.8	8857.3	21983.9	6373.5	366.6	106.1	30.7	15.1	17.0	
20	10.4	38.3	216.7	672.6	10231.6	29109.8	6459.8	352.8	102.1	30.7	14.5	15.7	
21	9.9	102.1	235.1	500.9	11534.4	37640.9	6402.2	352.8	93.2	29.3	14.5	15.7	
22	8.8	152.8	175.4	394.5	12588.1	42214.5	5974.8	345.9	83.6	29.3	14.5	15.1	
23	8.8	164.0	152.8	373.5	13289.6	43455.7	5417.0	339.1	71.5	27.8	14.5	13.3	
24	8.8	131.1	120.5	456.4	14056.9	41597.3	4846.6	325.6	65.1	27.8	12.7	13.3	
25	8.8	88.4	71.5	650.1	14469.3	37505.5	4277.3	312.2	59.8	27.8	11.5	14.5	
26	8.2	65.1	53.8	811.9	15630.8	33700.1	3709.2	305.6	58.1	27.1	11.5	14.5	
27	8.8	66.9	44.7	1011.1	15256.6	31157.5	3365.9	292.4	49.6	25.0	12.7	14.5	
28	8.8	110.2	41.5	1308.3	14838.5	27848.3	3095.5	266.6	47.9	25.0	18.9	15.7	
29	9.9	106.1	36.8	1656.4	14607.5	24515.2	2906.0	247.6	47.9	25.0	18.9	18.9	
30	10.4	131.1	36.8	2110.4	14423.3	21544.2	2793.8	241.3	47.9	25.0		17.0	
31		141.8		2591.0	14194.0		2664.3		46.3	23.6		18.3	
Total	363.8	2105.1	2624.5	17494.7	253091.4	636476.6	221107.1	20035.8	3919.7	1011.2	518.9	576.3	1159325.1 Ton
Mean	12.1	67.9	87.5	564.3	8164.2	21215.9	7132.5	667.9	126.4	32.6	17.9	18.6	
Max	17.0	164.0	235.1	2591.0	15630.8	43455.7	19395.2	2500.1	241.3	44.7	22.2	26.4	43455.7
Min	8.2	9.9	32.2	33.7	2887.2	9921.9	2664.3	241.3	46.3	23.6	11.5	13.3	8.2

WATER YEAR 1995

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
Remarks	Continued Sediment Station Using Rating Curve Water Year 1988 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:30:12.05

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
1.16988
QS = 48.5832 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	16.63	42.95	0.00	0.00	32.01	84.19	42.95	16.63	21.59	16.63	11.88	
2	0.00	3.29	21.59	0.00	0.00	32.01	122.20	42.95	16.63	21.59	16.63	11.88	
3	0.00	32.01	16.63	0.00	0.00	32.01	155.28	42.95	16.63	21.59	16.63	16.63	
4	0.00	26.73	11.88	0.00	0.00	32.01	1020.55	42.95	21.59	21.59	16.63	16.63	
5	11.88	109.31	3.29	0.00	0.00	26.73	410.66	42.95	21.59	16.63	16.63	16.63	
6	42.95	32.01	0.00	0.00	128.72	16.63	175.65	42.95	21.59	16.63	16.63	16.63	
7	42.95	11.88	0.00	0.00	26.73	11.88	102.94	42.95	21.59	16.63	16.63	16.63	
8	196.37	545.25	0.00	0.00	32.01	11.88	72.02	37.42	21.59	16.63	16.63	16.63	
9	42.95	245.94	0.00	0.00	32.01	11.88	60.13	37.42	21.59	16.63	16.63	16.63	
10	32.01	54.31	0.00	0.00	109.31	7.39	48.58	32.01	21.59	16.63	16.63	16.63	
11	16.63	32.01	0.00	0.00	109.31	224.50	42.95	32.01	21.59	16.63	16.63	16.63	
12	11.88	21.59	0.00	0.00	90.38	175.65	42.95	32.01	21.59	16.63	16.63	16.63	
13	0.00	21.59	0.00	0.00	78.07	356.96	42.95	32.01	21.59	16.63	16.63	11.88	
14	0.00	11.88	0.00	0.00	48.58	1163.44	155.28	32.01	21.59	16.63	11.88	11.88	
15	0.00	11.88	0.00	0.00	32.01	4699.31	122.20	26.73	21.59	16.63	11.88	11.88	
16	0.00	11.88	0.00	11.88	16.63	854.61	148.58	26.73	21.59	16.63	11.88	11.88	
17	0.00	7.39	0.00	16.63	21.59	334.29	168.82	26.73	21.59	16.63	11.88	11.88	
18	0.00	3.29	0.00	0.00	37.42	175.65	96.63	26.73	21.59	16.63	11.88	11.88	
19	0.00	3.29	0.00	0.00	72.02	109.31	60.13	21.59	21.59	16.63	11.88	11.88	
20	0.00	0.00	0.00	0.00	42.95	135.30	48.58	21.59	21.59	16.63	11.88	11.88	
21	0.00	0.00	0.00	0.00	26.73	148.58	48.58	21.59	21.59	16.63	11.88	11.88	
22	0.00	0.00	0.00	0.00	16.63	90.38	42.95	21.59	21.59	16.63	11.88	11.88	
23	0.00	0.00	0.00	0.00	11.88	2286.22	42.95	21.59	21.59	16.63	11.88	11.88	
24	0.00	0.00	0.00	0.00	115.73	304.41	42.95	16.63	21.59	16.63	11.88	11.88	
25	0.00	0.00	0.00	0.00	37.42	155.28	37.42	16.63	16.63	16.63	11.88	11.88	
26	0.00	0.00	0.00	0.00	135.30	231.61	37.42	16.63	21.59	16.63	11.88	16.63	
27	0.00	16.63	0.00	0.00	282.27	128.72	42.95	16.63	21.59	16.63	11.88	16.63	
28	155.28	21.59	0.00	0.00	410.66	96.63	48.58	16.63	16.63	16.63	11.88	16.63	
29	90.38	96.63	0.00	3.29	115.73	72.02	48.58	16.63	21.59	16.63	11.88	16.63	
30	21.59	78.07	0.00	0.00	54.31	60.13	42.95	16.63	21.59	16.63		11.88	
31		109.31		0.00	37.42		42.95		21.59	16.63		11.88	
Total	664.87	1524.39	96.34	31.80	2121.82	12017.43	3659.55	866.82	644.49	535.37	406.27	434.78	23003.93 Ton
Mean	22.16	49.17	3.21	1.03	68.45	400.58	118.05	28.89	20.79	17.27	14.01	14.03	
Max	196.37	545.25	42.95	16.63	410.66	4699.31	1020.55	42.95	21.59	21.59	16.63	16.63	4699.31
Min	0.00	0.00	0.00	0.00	0.00	7.39	37.42	16.63	16.63	16.63	11.88	11.88	0.00

WATER YEAR 1995

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1979 - Cont'd
Actual Measurement	1979 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1979 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:29:58.52

LQS/LQS02D/12

Station - Ban Nong O, Ban Khwao, Chaiyaphum, (E.32A)
Stream - Chi
River - Chi
River System - CHI

Royal Irrigation Department
Thailand
Hydrology Division
1.34579
QS = 3.7116 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	63.0	227.7	102.8	573.1	1683.5	512.0	357.7	232.0	158.8	36.8	102.8	
2	0.0	21.6	216.2	249.5	440.8	2450.2	546.0	346.5	229.1	158.8	28.9	36.8	
3	0.0	45.1	253.9	253.9	361.0	2594.3	609.9	340.1	227.7	158.8	28.9	14.8	
4	0.0	28.9	240.7	325.8	321.1	4856.9	733.3	343.3	226.2	147.1	28.9	8.8	
5	1.5	28.9	210.6	388.7	300.8	7948.9	743.0	344.9	224.8	147.1	21.6	8.8	
6	1.1	356.1	258.4	324.2	392.0	8728.8	689.0	336.9	219.1	147.1	21.6	3.7	
7	1.9	457.9	214.8	346.5	737.2	6318.8	973.4	322.6	217.6	135.7	21.6	3.7	
8	3.7	245.1	182.9	316.4	1422.1	3585.3	938.1	314.8	216.2	135.7	21.6	3.7	
9	2.3	213.4	124.5	415.4	1792.6	2797.9	694.7	307.0	214.8	135.7	14.8	2.7	
10	3.7	206.3	239.2	383.8	3036.1	2482.1	585.9	305.5	213.4	124.5	14.8	2.3	
11	2.7	213.4	213.4	230.5	4254.5	2191.7	564.0	300.8	213.4	124.5	8.8	1.9	
12	2.7	288.5	200.8	302.4	6454.3	2554.1	515.6	296.2	213.4	113.5	3.7	1.9	
13	1.1	262.8	212.0	267.3	8078.1	3307.8	480.4	293.1	213.4	102.8	3.7	3.2	
14	0.4	274.8	322.6	302.4	8273.1	4475.6	573.1	287.0	213.4	102.8	3.2	2.7	
15	0.4	302.4	258.4	352.9	8371.0	6724.1	996.5	282.4	209.2	92.4	3.2	2.7	
16	0.4	285.5	314.8	314.8	8802.3	9172.2	1661.9	279.4	207.7	82.3	3.2	2.7	
17	0.2	249.5	252.4	252.4	7702.6	12646.6	2839.1	271.8	206.3	82.3	2.7	2.3	
18	0.0	226.2	200.8	261.3	4599.8	9817.3	2031.1	267.3	206.3	72.5	3.7	1.9	
19	0.0	230.5	147.1	279.4	2969.1	4945.5	1090.0	264.3	206.3	72.5	8.8	1.5	
20	0.2	239.2	113.5	475.2	1978.3	2847.3	786.2	262.8	202.1	63.0	28.9	1.1	
21	113.5	223.3	124.5	609.9	1822.0	1401.4	652.9	259.9	200.8	63.0	195.2	1.1	
22	204.9	212.0	124.5	402.0	2913.6	986.0	549.6	256.9	199.4	63.0	124.5	1.1	
23	53.9	198.0	92.4	316.4	3646.8	990.2	496.1	252.4	196.6	63.0	113.5	0.4	
24	3.2	158.8	63.0	296.2	4060.3	1064.3	457.9	249.5	196.6	63.0	82.3	1.1	
25	1.5	113.5	28.9	322.6	3844.7	780.3	430.6	248.0	195.2	63.0	36.8	2.3	
26	1.1	72.5	8.8	349.7	4392.4	733.3	410.3	245.1	195.2	63.0	28.9	2.3	
27	113.5	53.9	2.3	565.9	3451.6	979.7	393.7	243.6	182.9	63.0	28.9	2.7	
28	209.2	158.8	1.9	417.1	3047.3	721.7	378.9	240.7	170.7	63.0	28.9	1.5	
29	202.1	288.5	2.3	333.7	2773.3	567.7	378.9	236.3	158.8	45.1	36.8	3.7	
30	195.2	397.0	1.9	461.3	2474.1	522.7	377.2	233.4	158.8	45.1		63.0	
31		267.3		1004.9	1590.4		369.1		158.8	45.1		28.9	
Total	1120.4	6382.7	4855.2	11225.3	104876.4	110876.2	23458.4	8590.2	6326.2	2997.2	985.2	318.1	282011.4 Ton
Mean	37.3	205.9	161.8	362.1	3383.1	3695.9	756.7	286.3	204.1	96.7	34.0	10.3	
Max	209.2	457.9	322.6	1004.9	8802.3	12646.6	2839.1	357.7	232.0	158.8	195.2	102.8	12646.6
Min	0.0	21.6	1.9	102.8	300.8	522.7	369.1	233.4	158.8	45.1	2.7	0.4	0.0

WATER YEAR 1995

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 1986 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:29:48.43

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 = 4.7577 QW 1.41846

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	1.68	11.82	1019.93	1658.95	4009.47	30.43	41.45	3.78	4.42	0.67	0.26	
2	0.32	0.42	10.10	1278.56	6695.59	4157.99	52.03	36.43	3.78	3.78	0.42	0.18	
3	0.26	0.49	10.10	840.83	4462.30	3960.32	182.89	30.43	3.78	3.16	0.32	0.18	
4	0.26	0.42	22.60	816.09	2554.33	8501.56	271.34	28.13	4.10	1.78	0.42	0.07	
5	0.42	0.32	66.21	1195.04	2101.61	13315.62	305.31	26.99	3.78	1.78	0.49	0.07	
6	0.42	0.26	75.19	1392.48	2046.88	14108.22	326.25	24.77	3.78	1.53	0.26	0.11	
7	0.42	0.11	52.03	1306.77	2028.73	10523.70	278.04	23.68	2.58	1.53	0.78	0.56	
8	0.56	0.07	28.13	1658.95	2457.88	6289.75	232.19	23.68	2.87	2.58	0.49	0.49	
9	0.42	0.07	21.54	2477.08	3408.21	3717.27	188.86	22.60	3.16	1.44	0.49	0.56	
10	0.42	2.87	22.60	2438.72	3198.94	2573.75	165.33	20.50	3.47	1.68	0.56	0.67	
11	0.42	2.87	32.79	1885.29	2534.95	1920.86	142.75	17.45	4.42	1.30	0.56	0.67	
12	0.18	4.76	137.26	1335.16	2046.88	1523.99	110.79	17.45	4.10	0.99	0.42	0.56	
13	0.42	5.45	278.04	929.10	1553.69	1181.28	90.86	15.51	8.46	0.78	0.49	0.56	
14	0.32	20.50	432.97	553.60	1153.91	954.80	81.35	14.56	4.42	0.86	0.42	0.42	
15	2.04	142.75	534.48	326.25	853.28	791.57	121.17	14.56	5.45	1.07	0.26	0.26	
16	1.07	171.13	553.60	284.79	572.91	603.66	207.11	13.63	6.90	1.16	0.56	0.18	
17	0.99	153.92	406.40	779.39	362.04	424.06	200.97	13.63	4.76	0.78	0.56	0.07	
18	2.58	81.35	291.58	1349.42	207.11	326.25	159.59	13.63	6.90	0.99	0.86	0.07	
19	1.53	54.79	182.89	2438.72	131.83	251.54	148.30	13.63	3.47	1.53	0.78	0.07	
20	1.07	52.03	131.83	3268.26	95.74	194.89	115.95	8.46	1.68	1.68	0.56	0.07	
21	0.86	49.32	110.79	3502.46	148.30	153.92	84.49	8.46	3.78	1.53	0.32	0.86	
22	0.86	32.79	100.68	2865.72	207.11	137.26	75.19	10.10	2.58	1.44	0.32	0.42	
23	0.67	26.99	72.16	2028.73	298.42	90.86	49.32	9.27	3.16	1.16	0.56	0.42	
24	0.49	17.45	49.32	1523.99	340.43	72.16	32.79	7.67	2.58	0.86	0.67	0.42	
25	0.49	11.82	31.61	1236.59	398.90	60.42	26.99	7.67	2.87	1.07	0.67	0.26	
26	0.42	8.46	28.13	1059.61	534.48	52.03	22.60	5.45	2.58	1.53	0.78	0.26	
27	0.32	6.90	60.42	719.36	890.95	38.91	25.88	5.45	1.78	1.53	0.49	1.07	
28	0.32	5.45	28.13	469.15	1523.99	29.27	25.88	5.45	1.53	0.86	0.32	1.30	
29	0.32	4.10	17.45	284.79	2119.95	26.99	24.77	4.42	1.16	0.67	0.26	1.07	
30	0.32	3.78	29.27	142.75	1832.30	24.77	54.79	4.10	4.76	0.67		0.99	
31		10.10		284.79	2515.62		54.79		6.16	0.99		0.86	
Total	19.68	873.42	3830.12	41692.36	50936.21	80017.14	3889.00	489.21	118.58	47.13	14.76	14.01	181941.63 Ton
Mean	0.66	28.17	127.67	1344.91	1643.10	2667.24	125.45	16.31	3.83	1.52	0.51	0.45	
Max	2.58	171.13	553.60	3502.46	6695.59	14108.22	326.25	41.45	8.46	4.42	0.86	1.30	14108.22
Min	0.18	0.07	10.10	142.75	95.74	24.77	22.60	4.10	1.16	0.67	0.26	0.07	0.07

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng, Prachin Buri (KGT.12)

Location	Lat. 13°-56'-02" N., Long. 101°-58'-41" E., on left bank near the railway station at Ban Kaeng and about 200 meters upstream from Thot Saphon Sawmill, Amphoe Muang, Sa Kaeo.
Drainage Area	1,540 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1967 - Cont'd
Actual Measurement	1969 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1969 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:49:42.15

LQS/LQS02D/12

Station - Ban Kaeng, A.Muang, Sa Kaeo, (KGT.12)
Stream - Khlong Pra Prong
River - Prachin Buri
River System - Prachin Buri River

Royal Irrigation Department
Thailand
Hydrology Division
1.04193
QS = 4.1216 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.07	0.14	1.18	201.68	756.43	783.99	52.51	12.05	0.85	0.89	1.18	
2	0.07	0.07	0.22	1.50	254.52	758.55	737.37	47.76	11.51	0.81	0.89	1.13	
3	0.11	0.11	0.22	8.84	267.05	718.33	686.65	44.45	10.71	0.81	0.89	1.05	
4	0.14	0.34	0.30	14.98	269.95	637.39	626.35	40.20	10.98	0.85	0.85	1.01	
5	0.14	0.57	0.34	19.75	286.99	551.10	520.49	37.85	10.17	0.93	0.81	0.89	
6	0.14	0.57	0.34	24.90	289.03	482.72	394.95	35.65	10.17	1.01	0.81	0.85	
7	0.14	0.65	0.37	21.04	302.29	422.07	333.49	34.99	10.44	1.09	0.77	0.81	
8	0.61	0.69	0.41	17.20	323.35	363.99	312.10	32.70	10.17	1.09	0.73	0.77	
9	1.09	0.69	0.37	15.29	334.62	338.00	298.21	30.42	9.11	1.09	0.85	0.77	
10	0.93	0.65	0.69	13.40	328.98	310.97	279.86	27.49	8.84	1.09	0.89	0.77	
11	0.97	0.53	0.97	17.84	307.60	278.84	272.84	26.52	8.84	1.05	0.85	0.73	
12	1.01	0.41	1.75	24.58	259.33	307.60	297.18	25.55	8.84	1.05	0.65	0.69	
13	0.93	0.41	2.67	28.14	212.94	420.78	458.61	25.23	9.11	1.05	0.69	0.77	
14	0.81	0.41	25.87	34.67	186.43	528.06	552.67	24.58	8.84	1.01	0.69	0.73	
15	0.65	0.45	44.45	28.79	187.23	673.99	554.24	23.93	8.84	1.01	0.77	0.61	
16	0.57	0.53	27.49	25.87	181.63	794.61	497.82	23.61	7.60	1.01	0.61	0.61	
17	0.65	0.45	17.20	31.72	156.89	891.96	367.38	22.00	6.94	1.05	0.69	0.61	
18	0.53	0.37	11.51	41.15	126.59	989.31	247.78	21.04	6.94	1.05	0.73	0.61	
19	0.41	0.37	9.11	58.23	100.10	1062.88	144.19	20.72	6.73	1.09	0.65	0.61	
20	0.37	0.37	7.38	56.32	79.68	1041.84	116.31	19.43	6.94	1.09	0.57	0.57	
21	0.30	0.34	5.20	49.66	61.58	994.56	112.48	18.16	6.73	1.09	0.53	0.57	
22	0.30	0.22	3.35	45.39	57.75	960.68	113.76	18.16	5.42	1.09	1.26	0.53	
23	0.22	0.22	2.50	41.62	57.28	970.95	108.02	15.93	4.55	1.05	1.67	0.53	
24	0.14	0.22	1.92	37.48	52.03	981.44	97.17	15.29	3.91	0.93	1.75	0.53	
25	0.14	0.18	1.67	32.70	50.13	981.44	85.49	14.98	3.35	0.89	1.67	0.53	
26	0.11	0.18	1.34	35.98	63.50	968.33	73.88	13.71	3.01	0.97	1.67	0.53	
27	0.11	0.14	1.05	55.37	115.67	940.32	65.22	13.13	2.84	0.85	1.59	0.49	
28	0.07	0.14	1.18	64.65	274.77	909.77	60.14	13.13	2.50	0.73	1.42	0.49	
29	0.07	0.07	1.34	62.54	520.49	874.16	57.28	13.13	1.34	0.73	1.18	0.49	
30	0.07	0.11	1.18	67.53	684.54	831.05	55.37	12.59	1.05	0.73		0.45	
31		0.14		116.95	733.14		54.41		0.93	0.85		0.41	
Total	11.87	10.67	172.53	1095.26	7327.76	21742.12	9365.70	764.84	219.40	29.99	28.02	21.32	40789.48 Ton
Mean	0.40	0.34	5.75	35.33	236.38	724.74	302.12	25.49	7.08	0.97	0.97	0.69	
Max	1.09	0.69	44.45	116.95	733.14	1062.88	783.99	52.51	12.05	1.09	1.75	1.18	1062.88
Min	0.07	0.07	0.14	1.18	50.13	278.84	54.41	12.59	0.93	0.73	0.53	0.41	0.07

WATER YEAR 1995

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, King Amphoe Tha Takiap, Chachoengsao.
Drainage Area	951 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 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:49:48.77

LQS/LQS02D/12

Station - Ban Tha Kloi, K.A.Tha Ta Kiap, Chachoengsao, (KGT.18)
Stream - Khlong Si Yat
River - Bang Pakong
River System - Prachin Buri River

Royal Irrigation Department
Thailand
Hydrology Division
1.20749
QS = 3.0445 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	3.60	4.89	4.41	15.36	48.08	555.95	21.98	6.36	4.77	4.65	4.53	
2	0.24	3.49	4.77	4.41	15.65	37.27	382.89	19.83	6.19	5.37	4.65	4.65	
3	0.26	3.49	4.77	4.41	14.20	149.36	224.98	18.62	6.03	5.25	4.53	4.41	
4	0.26	3.38	4.77	4.53	11.66	498.02	212.10	17.72	6.19	5.13	4.53	6.86	
5	1.01	3.38	4.77	4.77	10.01	457.80	148.07	16.83	5.86	5.13	4.41	7.46	
6	6.52	3.38	4.77	5.37	9.20	406.21	169.24	15.65	5.70	5.01	4.41	6.52	
7	6.69	3.38	4.77	5.25	9.47	184.01	916.47	14.78	5.70	5.01	4.41	6.19	
8	5.86	3.49	4.65	5.37	13.06	144.14	1048.38	13.63	5.53	4.89	4.41	5.70	
9	5.37	3.49	4.65	8.54	19.22	182.67	734.21	13.06	5.53	4.89	4.30	5.37	
10	5.13	3.49	4.77	13.63	16.83	283.45	1337.98	12.21	5.37	4.89	4.30	5.13	
11	5.13	4.06	4.89	7.67	18.62	422.63	2227.86	11.94	5.37	4.89	4.18	4.89	
12	5.13	8.98	4.89	7.24	17.42	836.13	1740.10	11.94	5.25	4.89	4.18	4.89	
13	4.89	9.20	4.89	6.52	37.27	1816.99	675.09	11.66	5.25	4.77	4.18	5.86	
14	4.65	9.20	5.01	6.52	71.16	1951.22	477.18	11.10	5.25	4.65	4.18	13.34	
15	4.65	11.66	5.13	10.55	83.33	1172.98	416.80	10.83	5.13	4.77	4.18	8.76	
16	4.65	7.89	5.53	18.02	48.62	705.43	589.04	9.74	5.13	4.77	4.18	6.86	
17	4.53	6.36	5.53	17.12	34.35	548.67	328.91	9.74	5.13	4.65	4.18	6.19	
18	4.30	6.36	5.25	29.83	31.53	530.50	292.45	8.98	5.13	4.65	4.18	5.70	
19	0.95	8.76	5.25	24.16	26.07	362.73	185.42	8.54	5.13	4.65	4.30	5.37	
20	4.06	18.02	5.13	22.29	43.17	250.16	131.19	8.32	5.13	4.65	5.86	5.13	
21	4.06	9.74	5.13	17.42	69.27	274.50	96.22	8.11	5.01	4.53	5.25	4.89	
22	4.18	7.24	5.01	14.20	52.37	380.36	77.14	7.89	4.89	4.41	4.89	4.77	
23	4.18	6.36	4.89	11.66	38.46	247.96	53.57	7.46	4.89	4.41	4.89	4.65	
24	4.06	5.86	4.89	12.50	32.63	724.59	47.55	7.24	4.89	4.30	4.89	4.65	
25	3.95	6.36	4.77	18.62	68.33	1406.79	40.23	7.03	4.77	4.41	4.65	4.53	
26	3.95	5.86	4.77	36.09	132.52	1302.50	33.79	6.86	4.77	5.25	4.65	4.65	
27	3.95	5.53	4.65	103.59	230.53	858.96	29.23	6.69	4.65	6.03	4.41	4.65	
28	3.83	5.25	4.65	43.17	387.95	847.53	28.15	6.69	4.65	5.37	4.41	4.53	
29	3.72	5.13	4.41	24.48	278.97	559.64	28.15	6.52	4.65	5.13	4.41	4.41	
30	3.60	5.01	4.41	18.62	154.61	395.66	26.71	6.36	4.65	5.01		4.30	
31		5.01		16.83	80.23		24.48		4.65	4.77		4.30	
Total	114.00	192.41	146.66	527.79	2072.07	17986.94	13279.53	337.95	162.83	151.30	130.65	174.14	35276.27 Ton
Mean	3.80	6.21	4.89	17.03	66.84	599.56	428.37	11.26	5.25	4.88	4.51	5.62	
Max	6.69	18.02	5.53	103.59	387.95	1951.22	2227.86	21.98	6.36	6.03	5.86	13.34	2227.86
Min	0.24	3.38	4.41	4.41	9.20	37.27	24.48	6.36	4.65	4.30	4.18	4.30	0.24

WATER YEAR 1995

PRACHIN BURI RIVER BASIN

Khlong Luang at Ban Mai, Chon Buri (KGT.19)

Location	Lat. 13°-23'-17" N., Long. 101°-20'-40" E., on left bank about 4 kilometers east of Khok Pho market and about 16 kilometers from Amphoe Phanat Nikhom, Chon Buri.
Drainage Area	535 sq.km.
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 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:30:18.78

LQS/LQS02D/12

Station - Ban Mai, Phanat Nikhom, Chon Buri, (KGT.19)
Stream - Khlong Luang
River - Bang Pakong
River System - Prachin Buri River

Royal Irrigation Department
Thailand
Hydrology Division
0.90669
QS = 23.8840 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.81	7.53	5.80	6.80	11.81	69.73	686.80	60.36	7.53	0.69	6.05	6.05	
2	7.29	5.80	5.30	7.29	8.50	61.93	851.49	54.02	6.55	0.69	6.05	6.55	
3	5.80	178.28	5.80	6.05	8.02	131.46	438.01	52.43	6.05	0.37	6.05	6.55	
4	4.02	201.03	7.53	5.55	5.55	513.78	259.19	66.62	5.55	0.37	6.05	6.55	
5	3.76	192.66	8.02	6.05	4.79	806.39	173.34	63.50	5.30	0.37	6.05	6.30	
6	3.76	177.05	18.18	33.66	4.53	556.24	147.17	50.83	5.30	0.37	6.05	6.05	
7	3.49	41.92	18.18	24.32	4.53	309.04	313.53	41.92	4.02	0.37	6.05	6.05	
8	3.49	13.20	12.28	9.93	4.53	159.69	983.90	34.50	1.29	0.69	5.80	6.30	
9	2.42	10.88	10.41	9.46	4.53	137.08	609.24	31.98	3.76	0.69	5.80	6.55	
10	2.42	6.55	13.66	7.77	4.28	209.36	777.70	30.30	5.05	0.69	5.55	6.80	
11	2.42	2.96	28.60	9.46	4.28	340.33	767.10	29.45	4.79	0.69	5.30	6.80	
12	4.28	2.69	72.83	15.48	23.88	544.95	474.14	29.45	4.02	0.69	5.30	6.55	
13	4.53	5.55	54.02	13.66	82.04	709.29	343.29	39.46	3.76	0.69	5.05	6.80	
14	4.28	4.79	46.80	13.20	87.74	581.55	481.78	42.74	2.14	0.69	5.05	7.04	
15	3.23	6.05	34.08	41.11	62.71	547.77	457.55	32.40	3.49	0.69	5.05	6.80	
16	4.28	22.14	29.88	60.36	97.16	465.85	522.30	31.14	3.49	0.69	5.05	6.55	
17	3.49	24.32	24.32	42.74	180.74	432.55	655.61	21.71	4.53	0.69	5.05	6.55	
18	2.42	22.14	17.73	45.18	275.91	525.13	793.57	20.83	4.53	0.69	5.05	6.55	
19	2.42	7.77	19.07	67.40	109.45	424.50	584.36	18.18	2.96	0.69	6.30	6.55	
20	2.42	7.29	25.61	56.40	70.51	381.60	407.88	17.28	4.53	0.69	6.55	6.30	
21	2.42	7.53	24.75	35.33	159.69	407.88	326.96	16.39	4.53	0.69	6.55	6.30	
22	1.86	3.49	23.02	21.27	99.41	328.45	313.53	14.58	3.49	0.69	6.55	6.30	
23	2.42	1.86	19.07	14.12	81.28	214.89	230.04	11.35	2.69	0.69	6.55	6.05	
24	6.80	3.76	15.48	10.88	137.08	266.80	140.87	8.50	2.42	0.69	6.55	5.80	
25	3.49	5.80	17.73	11.35	101.65	700.12	111.67	8.98	2.42	0.69	6.55	5.55	
26	3.49	4.53	30.30	56.40	213.51	813.93	96.04	7.77	1.86	0.69	6.55	5.55	
27	3.49	5.55	22.58	99.41	371.33	587.47	82.99	8.02	1.86	0.69	6.55	5.30	
28	3.49	3.76	17.28	42.74	441.86	404.97	80.51	8.98	1.86	0.69	6.55	5.30	
29	4.02	2.42	12.74	22.58	309.04	292.52	81.28	8.02	2.14	0.69	6.55	5.30	
30	9.46	2.14	7.53	15.48	137.08	239.62	75.91	7.77	2.42	1.58		5.55	
31		2.14		11.81	99.41		68.18		2.14	4.28		5.30	
Total	122.97	983.58	648.58	823.24	3206.83	12164.87	12335.93	869.46	116.47	24.27	172.20	192.54	31660.94 Ton
Mean	4.10	31.73	21.62	26.56	103.45	405.50	397.93	28.98	3.76	0.78	5.94	6.21	
Max	11.81	201.03	72.83	99.41	441.86	813.93	983.90	66.62	7.53	4.28	6.55	7.04	983.90
Min	1.86	1.86	5.30	5.55	4.28	61.93	68.18	7.77	1.29	0.37	5.05	5.30	0.37

WATER YEAR 1995

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 1994 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:49:54.48

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
1.68045
QS = 0.2334 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	10.81	18.93	121.62	205.75	604.53	296.06	49.10	1.48	0.00	0.00	0.00	
2	0.02	20.93	18.29	222.27	296.06	552.62	234.37	45.20	0.34	0.00	0.00	0.00	
3	0.07	56.61	20.25	165.70	298.76	1041.96	229.50	41.43	0.02	0.00	0.00	0.00	
4	0.16	100.05	28.14	159.36	201.13	1199.21	208.08	38.78	0.00	0.00	0.00	0.00	
5	0.23	80.13	86.91	187.52	178.66	1296.57	185.28	41.43	0.00	0.00	0.00	0.00	
6	0.46	80.13	82.81	215.12	215.12	1122.38	210.42	32.88	0.00	0.00	0.00	0.00	
7	0.51	80.13	54.38	157.28	174.29	1019.43	326.26	31.27	0.00	0.00	0.00	0.00	
8	0.51	78.79	62.33	107.97	157.28	862.12	568.40	31.27	0.00	0.00	0.00	0.00	
9	0.63	77.47	89.73	98.55	149.03	774.92	650.51	30.48	0.00	0.00	0.00	0.00	
10	0.69	74.86	320.68	100.05	161.46	612.69	893.79	29.69	0.00	0.00	0.00	0.00	
11	0.75	86.91	2405.27	104.70	119.75	800.18	800.18	29.69	0.00	0.00	0.00	0.00	
12	0.75	82.81	2305.25	116.34	144.98	1235.36	625.00	26.63	0.00	0.00	0.00	0.00	
13	0.81	43.30	654.80	97.05	277.47	1358.97	387.86	20.25	0.00	0.00	0.00	0.00	
14	0.88	157.28	293.38	82.81	354.50	953.05	326.26	17.02	0.00	0.00	0.00	0.00	
15	1.02	159.36	244.25	107.97	264.49	754.96	491.35	14.60	0.00	0.00	0.00	0.00	
16	1.32	100.05	178.66	196.55	280.10	710.81	461.82	13.45	0.00	0.00	0.00	0.00	
17	1.48	71.00	129.22	461.82	205.75	769.91	304.18	12.89	0.00	0.00	0.00	0.00	
18	2.20	42.36	98.55	398.10	155.20	568.40	229.50	11.79	0.00	0.00	0.00	0.00	
19	2.40	35.36	85.54	498.85	147.00	429.48	203.43	10.22	0.00	0.00	0.00	0.00	
20	2.60	35.36	73.56	450.93	138.99	450.93	194.27	9.23	0.00	0.00	0.00	0.00	
21	2.81	28.91	69.74	364.38	194.27	560.49	157.28	7.82	0.00	0.00	0.00	0.00	
22	3.03	21.61	55.49	259.37	178.66	429.48	140.97	6.93	0.00	0.00	0.00	0.00	
23	3.26	18.93	46.16	210.42	185.28	320.68	114.64	6.08	0.00	0.00	0.00	0.00	
24	3.49	17.02	131.15	267.07	338.27	556.55	98.55	5.28	0.00	0.00	0.00	0.00	
25	4.48	15.19	157.28	244.25	637.70	856.89	85.54	4.53	0.00	0.00	0.00	0.00	
26	4.74	14.02	107.97	219.87	465.47	641.96	77.47	3.82	0.00	0.00	0.00	0.00	
27	5.01	19.59	86.91	174.29	779.95	592.39	72.28	3.49	0.00	0.00	0.00	0.00	
28	5.85	18.93	71.00	142.97	1175.35	487.62	65.99	3.20	0.00	0.00	0.00	0.00	
29	7.05	17.65	63.54	114.64	1134.07	398.10	62.33	2.40	0.00	0.00	0.00	0.00	
30	7.69	16.40	54.38	172.13	667.74	335.07	57.73	2.40	0.00	0.00		0.00	
31		18.29		172.13	584.35		54.38		0.00	0.00		0.00	
Total	64.90	1680.24	8094.55	6392.08	10466.88	22297.71	8813.68	583.25	1.84	0.00	0.00	0.00	58395.14 Ton
Mean	2.16	54.20	269.82	206.20	337.64	743.26	284.31	19.44	0.06	0.00	0.00	0.00	
Max	7.69	159.36	2405.27	498.85	1175.35	1358.97	893.79	49.10	1.48	0.00	0.00	0.00	2405.27
Min	0.00	10.81	18.29	82.81	119.75	320.68	54.38	2.40	0.00	0.00	0.00	0.00	0.00

WATER YEAR 1995

EAST COAST - GULF BASIN

Klong Phayat at Ban Chaman, Chanthaburi (Z.14)

Location	Lat. 12°-44'-25" N., Long. 102°-12'-39" E., on left bank at the bridge at Khlong Phayat near Wat Chaman, A. Makham, Chanthaburi.
Drainage Area	245 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 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:49:59.55

LQS/LQS02D/12

Station - Ban Chaman, Makham, Chanthaburi, (Z.14)
Stream - Khlong Phayat
River - Chanthaburi
River System - East Coast-Gulf Basin

Royal Irrigation Department
Thailand
Hydrology Division

1.62020
QS = 0.3469 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.28	3.15	4.56	148.33	202.05	703.50	107.80	14.00	5.11	3.41	2.17	2.17	
2	2.40	3.02	4.41	180.77	236.89	389.41	92.38	13.32	5.32	3.28	2.28	2.17	
3	2.17	4.11	11.14	16.19	91.43	286.70	89.53	13.32	5.32	3.02	2.52	2.06	
4	2.40	1.53	7.54	37.23	74.34	340.08	110.09	14.35	5.11	2.76	2.40	2.06	
5	2.64	1.95	42.83	32.51	62.12	465.35	95.40	12.64	4.91	2.89	2.17	1.95	
6	2.64	2.40	18.20	54.92	135.53	427.97	94.29	11.42	4.41	2.40	2.40	1.95	
7	2.64	2.64	11.70	28.03	144.47	531.29	282.89	11.42	4.56	2.40	2.40	1.95	
8	2.64	2.89	30.24	22.91	220.04	845.05	90.48	10.59	4.41	2.64	2.40	1.95	
9	2.40	2.64	129.29	20.72	96.51	474.14	439.34	10.06	4.41	2.40	2.17	1.95	
10	2.76	2.52	200.45	19.86	82.39	257.73	171.98	10.59	4.11	2.52	2.28	1.95	
11	2.76	2.52	357.20	18.61	62.86	230.09	223.37	10.87	4.26	2.17	2.52	2.06	
12	2.40	2.64	236.89	19.02	59.20	235.18	113.63	10.59	4.11	1.84	2.17	2.06	
13	2.40	2.89	68.13	15.06	53.52	166.21	79.14	10.33	4.11	1.73	2.17	2.17	
14	2.52	98.70	33.08	13.66	66.61	144.47	68.13	9.79	3.83	1.34	2.06	2.17	
15	2.28	35.43	39.68	15.42	40.31	308.86	60.66	9.28	3.83	2.40	1.95	2.40	
16	2.28	15.80	24.33	44.77	40.31	177.82	53.52	8.27	3.83	2.64	2.17	2.06	
17	2.28	7.78	17.79	368.06	31.36	180.77	45.42	8.02	3.83	2.40	2.40	2.06	
18	2.40	5.74	15.06	75.93	33.66	145.71	39.68	7.78	3.97	1.84	2.28	1.95	
19	2.17	5.52	17.79	95.40	37.23	144.47	34.84	7.78	3.83	2.06	2.40	1.95	
20	1.63	17.39	12.64	128.04	30.24	166.21	33.08	7.07	3.83	2.28	2.40	2.28	
21	1.34	4.56	11.70	77.52	30.80	133.00	29.68	7.31	3.83	2.28	2.17	1.95	
22	2.17	4.56	10.33	54.22	28.03	111.26	26.42	6.39	3.69	2.28	2.17	2.06	
23	2.06	4.11	9.53	37.84	30.24	108.92	23.81	6.84	3.55	2.40	2.28	2.06	
24	2.06	3.83	43.48	48.74	95.40	159.11	21.58	6.17	3.55	2.28	2.17	2.06	
25	2.06	3.69	19.44	75.93	153.57	166.21	20.72	6.17	3.28	2.28	2.06	2.06	
26	2.17	3.97	33.08	69.66	215.07	228.40	18.20	5.95	3.41	2.06	2.06	2.17	
27	2.06	4.11	29.12	43.48	568.65	183.73	18.61	5.74	3.41	1.53	2.17	2.17	
28	2.64	5.11	33.66	45.42	610.22	133.00	17.39	5.74	3.41	2.28	2.28	2.76	
29	2.64	8.02	120.73	33.66	769.65	108.92	18.20	5.74	3.15	2.28	2.28	2.52	
30	2.64	5.11	34.84	228.40	363.70	119.57	18.61	5.74	3.41	2.06		3.15	
31		4.91		226.72	629.78		16.19		3.41	2.17		2.40	
Total	69.93	273.24	1628.86	2297.03	5296.18	8073.13	2555.06	273.28	125.20	72.32	65.35	66.68	20796.26 Ton
Mean	2.33	8.81	54.30	74.10	170.84	269.10	82.42	9.11	4.04	2.33	2.25	2.15	
Max	2.76	98.70	357.20	368.06	769.65	845.05	439.34	14.35	5.32	3.41	2.52	3.15	845.05
Min	1.34	1.53	4.41	13.66	28.03	108.92	16.19	5.74	3.15	1.34	1.95	1.95	1.34

WATER YEAR 1995

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 1994 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:04.94 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
1.28735
QS = 6.6606 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.73	0.04	2.59	2.18	5.98	29.29	63.45	25.07	2.31	0.00	0.00	0.00	
2	0.63	0.34	2.05	2.59	5.49	22.34	61.19	21.00	2.31	0.00	0.00	0.00	
3	0.63	0.73	2.05	17.52	5.49	44.34	45.39	19.68	2.18	0.00	0.00	0.26	
4	0.63	0.73	3.16	76.79	5.00	223.54	61.19	18.38	1.79	0.00	0.00	0.00	
5	0.53	0.84	2.18	47.50	10.27	322.38	69.18	17.10	1.41	0.00	0.00	0.00	
6	1.92	0.95	1.79	44.86	79.61	219.42	68.03	14.09	1.29	0.00	0.00	0.00	
7	1.18	1.18	1.54	26.93	72.08	68.60	1729.71	12.30	1.18	0.00	0.00	0.00	
8	0.84	1.66	1.29	9.15	8.79	50.18	322.38	11.13	1.06	0.00	0.00	0.00	
9	0.73	4.21	1.18	6.49	9.52	42.25	173.81	9.52	0.95	0.00	0.00	0.00	
10	0.63	4.84	1.18	5.32	170.27	56.73	434.67	9.34	0.84	0.00	0.00	0.00	
11	0.53	5.16	18.81	42.77	262.38	195.41	240.21	8.97	0.63	0.00	0.00	0.00	
12	0.43	4.36	34.15	52.88	38.15	1094.03	117.57	16.68	0.34	0.00	0.00	0.00	
13	0.34	4.84	9.52	13.49	48.03	303.55	84.87	20.12	0.34	0.00	0.00	0.00	
14	0.26	6.49	4.52	8.42	67.45	266.86	219.42	11.71	0.34	0.00	0.00	0.00	
15	0.26	12.59	6.49	13.19	24.15	180.95	195.41	9.52	0.34	0.00	0.00	0.00	
16	0.18	19.68	11.71	27.87	15.63	240.21	115.94	8.06	0.34	0.00	0.00	0.00	
17	0.18	8.24	4.68	12.89	19.68	231.84	215.31	7.35	0.34	0.00	0.00	0.00	
18	0.11	7.71	3.60	143.89	60.63	347.88	236.01	6.66	0.34	0.00	0.00	0.00	
19	0.11	15.94	3.90	111.10	14.70	249.02	121.16	6.15	0.04	0.00	0.00	0.00	
20	0.11	37.14	4.36	20.56	10.56	303.55	203.10	5.82	0.04	0.00	0.00	0.00	
21	0.04	9.52	5.65	12.00	18.38	199.06	262.38	5.32	0.04	0.00	0.00	0.00	
22	0.04	4.68	4.36	52.88	103.13	184.54	5.00	0.04	0.00	0.00	0.00	0.00	
23	0.04	4.21	3.01	48.03	21.44	72.67	112.71	4.52	0.04	0.00	0.00	0.00	
24	0.04	4.21	2.45	10.56	13.49	195.41	68.03	4.05	0.04	0.00	0.00	0.00	
25	0.04	4.21	2.31	9.90	25.07	397.98	49.64	3.75	0.00	0.00	0.00	0.00	
26	0.04	4.05	4.05	26.00	48.57	427.27	42.77	3.30	0.00	0.00	0.00	0.00	
27	0.04	3.90	4.21	14.09	405.26	199.06	38.66	3.01	0.00	0.00	0.00	0.00	
28	0.04	3.90	2.87	8.79	223.54	158.34	36.64	3.01	0.00	0.00	0.00	0.00	
29	0.18	3.90	2.31	7.35	55.07	78.57	33.66	2.73	0.00	0.00	0.00	0.00	
30	0.18	3.90	2.18	6.49	41.74	65.16	29.77	2.05	0.00	0.00		0.00	
31		3.90		6.15	39.17		27.87		0.00	0.00		0.00	
Total	11.64	188.05	154.15	853.70	1878.47	6389.02	5664.67	295.39	18.57	0.00	0.00	0.26	15453.92 Ton
Mean	0.39	6.07	5.14	27.54	60.60	212.97	182.73	9.85	0.60	0.00	0.00	0.01	
Max	1.92	37.14	34.15	143.89	405.26	1094.03	1729.71	25.07	2.31	0.00	0.00	0.26	1729.71
Min	0.04	0.04	1.18	2.18	5.00	22.34	27.87	2.05	0.00	0.00	0.00	0.00	0.00

WATER YEAR 1995

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 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:09.60

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

$Q = 1.3803\ Q^{1.55144}$

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	1.93	3.86	129.02	167.93	533.61	129.02	5.37	0.79	0.59	0.30	0.05	
2	0.47	1.78	5.37	131.28	135.85	260.32	120.21	5.37	1.25	0.53	0.27	0.04	
3	1.51	2.70	7.59	48.83	70.85	167.93	120.21	4.69	1.13	0.47	0.26	0.04	
4	0.59	1.13	7.59	31.51	53.00	203.23	116.04	4.69	1.25	0.47	0.24	0.04	
5	1.25	1.01	25.49	28.26	39.59	314.41	109.90	4.36	1.01	0.47	0.22	0.04	
6	1.25	1.51	11.77	28.26	78.82	271.58	40.87	3.86	0.90	0.41	0.21	0.03	
7	1.25	1.51	7.59	21.11	145.15	414.33	150.11	3.86	0.79	0.47	0.20	0.03	
8	1.25	1.38	28.26	17.34	122.31	538.61	63.19	3.86	1.01	0.36	0.19	0.03	
9	1.13	1.51	116.04	15.33	77.20	256.61	249.24	3.38	1.01	0.41	0.18	0.03	
10	1.65	1.51	170.53	17.34	58.75	184.98	101.88	3.86	1.01	0.36	0.17	0.03	
11	1.65	1.51	167.93	16.66	44.79	220.53	116.04	4.11	0.90	0.36	0.16	0.03	
12	1.38	1.65	87.27	19.44	42.16	179.15	61.70	3.62	0.90	0.41	0.15	0.02	
13	1.25	2.48	36.05	15.99	44.79	124.53	44.79	3.38	0.79	0.41	0.14	0.02	
14	1.01	70.85	25.49	14.68	43.47	100.01	34.89	3.14	0.90	0.47	0.13	0.02	
15	1.01	21.11	20.26	19.44	32.63	245.58	31.51	2.92	0.53	0.79	0.12	0.02	
16	0.79	12.79	17.34	85.50	30.41	170.53	26.40	2.70	1.01	0.59	0.11	0.02	
17	0.90	5.37	15.33	290.71	26.40	170.53	21.96	2.70	0.90	0.47	0.10	0.02	
18	0.79	3.86	11.77	120.21	24.59	150.11	19.44	2.70	0.79	0.41	0.10	0.02	
19	1.93	4.69	22.82	107.87	17.34	150.11	17.34	2.48	0.66	0.41	0.10	0.02	
20	1.51	3.62	10.77	61.70	15.99	179.15	15.33	2.28	0.66	0.47	0.09	0.01	
21	0.53	3.38	12.79	40.87	25.49	140.47	14.04	2.07	0.72	0.47	0.08	0.01	
22	1.01	3.86	11.77	32.63	22.82	126.77	12.79	2.07	0.66	0.53	0.08	0.01	
23	0.90	2.48	11.27	30.41	26.40	152.61	11.27	1.93	0.59	0.53	0.07	0.01	
24	1.01	2.70	26.40	46.12	94.47	157.66	10.77	1.78	0.66	0.53	0.07	0.01	
25	0.79	3.14	17.34	69.29	118.12	241.95	7.59	1.93	0.59	0.47	0.07	0.01	
26	1.25	3.38	36.05	58.75	220.53	279.17	7.20	1.78	0.59	0.15	0.07	0.01	
27	1.38	3.86	25.49	36.05	513.82	231.15	7.20	1.78	0.47	0.21	0.06	0.01	
28	2.70	18.03	160.20	34.89	465.50	152.61	6.44	1.78	0.47	0.41	0.05	0.01	
29	1.38	9.34	98.15	37.22	508.91	135.85	6.44	1.51	0.53	0.36	0.05	0.01	
30	1.78	5.03	33.75	234.73	290.71	147.62	6.44	1.38	0.53	0.31		0.01	
31		3.86		193.84	548.64		6.08		0.53	0.31		0.01	
Total	35.33	202.96	1232.33	2035.28	4107.43	6601.70	1686.33	91.34	24.53	13.61	4.04	0.67	16035.55 Ton
Mean	1.18	6.55	41.08	65.65	132.50	220.06	54.40	3.04	0.79	0.44	0.14	0.02	
Max	2.70	70.85	170.53	290.71	548.64	538.61	249.24	5.37	1.25	0.79	0.30	0.05	548.64
Min	0.03	1.01	3.86	14.68	15.99	100.01	6.08	1.38	0.47	0.15	0.05	0.01	0.01

WATER YEAR 1995

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 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:30:25.42 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 = 0.5365 QW 1.65004

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.01	0.07	13.43	66.13	576.22	45.25	1.29	0.06	0.02	0.01	0.00	
2	0.01	0.01	0.06	15.17	144.43	226.39	39.32	1.05	0.05	0.02	0.01	0.00	
3	0.01	0.00	0.05	106.55	68.81	1163.98	33.95	1.17	0.05	0.02	0.01	0.00	
4	0.00	0.00	0.15	220.67	39.32	438.26	58.36	0.93	0.04	0.02	0.01	0.00	
5	0.00	0.00	13.43	86.05	555.61	654.30	51.51	0.72	0.04	0.02	0.01	0.00	
6	0.00	0.00	1.05	29.32	192.95	232.17	43.24	0.54	0.04	0.02	0.01	0.00	
7	0.00	0.00	0.45	15.17	171.85	121.15	30.83	0.54	0.04	0.02	0.01	0.00	
8	0.00	0.01	0.54	15.17	86.05	132.59	22.21	0.49	0.04	0.02	0.01	0.00	
9	0.01	0.01	8.94	15.17	55.86	92.69	18.90	0.45	0.04	0.02	0.01	0.00	
10	0.01	0.01	10.32	39.32	39.32	86.05	16.07	0.41	0.04	0.02	0.00	0.00	
11	0.01	0.02	9.62	24.96	26.38	99.52	11.77	0.37	0.04	0.02	0.00	0.00	
12	0.01	0.07	13.43	274.18	19.88	103.01	9.62	0.20	0.04	0.02	0.00	0.00	
13	0.01	0.06	13.43	43.24	71.53	66.13	15.17	0.26	0.04	0.01	0.00	0.00	
14	0.01	0.05	5.84	17.94	280.41	92.69	17.00	0.20	0.04	0.01	0.00	0.00	
15	0.01	0.04	2.60	29.32	128.73	232.17	12.59	0.16	0.04	0.01	0.00	0.00	
16	0.01	0.05	1.29	192.95	58.36	740.82	10.32	0.13	0.04	0.01	0.00	0.00	
17	0.01	0.10	0.72	177.03	37.42	305.85	9.62	0.12	0.04	0.01	0.00	0.00	
18	0.01	0.07	3.29	525.25	33.95	117.43	9.62	0.12	0.04	0.01	0.00	0.00	
19	0.01	0.07	18.90	124.92	30.83	66.13	12.59	0.11	0.04	0.01	0.00	0.00	
20	0.01	1.05	9.62	187.59	41.26	51.51	16.07	0.10	0.04	0.01	0.00	0.00	
21	0.01	0.23	5.28	53.67	198.38	161.66	15.17	0.09	0.04	0.01	0.00	0.00	
22	0.01	0.12	2.60	30.83	654.30	124.92	9.62	0.09	0.03	0.01	0.00	0.00	
23	0.00	0.10	1.41	23.57	132.59	132.59	7.64	0.07	0.03	0.01	0.00	0.00	
24	0.00	0.07	0.93	17.00	77.08	89.35	5.84	0.07	0.03	0.01	0.00	0.00	
25	0.00	0.06	0.93	51.51	136.49	60.91	4.44	0.07	0.03	0.01	0.00	0.00	
26	0.01	0.05	2.93	318.90	198.38	47.30	3.66	0.06	0.03	0.01	0.00	0.00	
27	0.01	0.04	0.72	77.08	144.43	71.53	3.66	0.06	0.03	0.01	0.00	0.00	
28	0.01	0.04	0.54	37.42	380.23	43.24	3.29	0.06	0.03	0.01	0.00	0.00	
29	0.01	0.05	0.45	43.24	476.16	27.84	2.93	0.06	0.02	0.01	0.00	0.00	
30	0.01	0.06	4.04	121.15	203.87	33.95	2.27	0.06	0.02	0.01		0.00	
31		0.05		92.69	312.35		1.68		0.02	0.01		0.00	
Total	0.21	2.50	133.63	3020.46	5063.34	6392.35	544.21	10.05	1.15	0.43	0.09	0.00	15168.42 Ton
Mean	0.01	0.08	4.45	97.43	163.33	213.08	17.56	0.34	0.04	0.01	0.00	0.00	
Max	0.01	1.05	18.90	525.25	654.30	1163.98	58.36	1.29	0.06	0.02	0.01	0.00	1163.98
Min	0.00	0.00	0.05	13.43	19.88	27.84	1.68	0.06	0.02	0.01	0.00	0.00	0.00

WATER YEAR 1995

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 1994 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:20.43

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
1.82232
QS = 2.7419 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.00	0.01	0.20	0.72	19.20	156.14	130.55	3.65	0.56	0.20	0.11	
2	0.00	0.13	0.01	0.15	0.49	14.99	118.25	80.52	3.15	0.56	0.25	0.13	
3	0.00	0.01	0.01	0.15	0.31	25.37	88.74	65.39	2.89	0.49	0.20	0.15	
4	0.00	0.01	0.05	0.16	0.16	14.99	106.77	56.09	2.45	0.43	0.20	0.13	
5	0.00	0.00	0.02	0.56	0.13	9.09	223.90	48.35	2.26	0.36	0.20	0.13	
6	0.00	0.01	0.01	24.15	0.11	6.24	255.06	36.03	2.26	0.36	0.16	0.12	
7	0.00	0.02	0.01	2.04	0.11	4.74	1454.30	27.87	2.04	0.36	0.16	0.11	
8	0.00	0.01	0.01	0.89	0.12	3.65	624.27	22.96	1.87	0.31	0.16	0.11	
9	0.00	3.65	0.01	4.42	0.11	4.18	679.73	26.61	1.87	0.31	0.15	0.10	
10	0.00	0.03	0.36	2.04	0.11	5.95	5250.04	21.05	1.74	0.36	0.16	0.11	
11	0.00	0.02	0.13	1.51	7.92	38.96	4380.87	22.96	1.62	0.36	0.15	0.11	
12	0.00	0.01	0.03	1.08	4.74	331.45	895.88	22.96	1.51	0.36	0.13	0.36	
13	0.00	0.00	2.26	0.64	2.04	75.32	2778.73	22.06	1.39	0.31	0.13	0.13	
14	0.00	0.01	9.79	0.72	1.29	100.09	1206.23	19.20	1.39	0.31	0.13	0.12	
15	0.00	0.01	8.50	0.72	1.08	110.45	1559.35	24.15	1.39	0.31	0.13	0.11	
16	0.00	0.01	2.26	0.56	3.88	557.68	722.41	17.44	1.29	0.25	0.13	0.10	
17	0.00	0.00	3.65	0.43	1.18	102.89	766.89	15.75	1.29	0.25	0.13	0.10	
18	0.00	0.01	1.29	0.64	0.89	63.11	315.11	13.42	1.18	0.43	0.13	0.09	
19	0.00	0.00	14.99	0.49	11.16	43.54	194.93	11.92	1.18	0.36	0.13	0.10	
20	0.01	0.00	4.42	0.43	1.18	30.49	160.82	10.51	1.08	0.31	0.20	0.10	
21	0.00	0.00	2.04	0.25	11.92	60.66	156.14	9.79	1.08	0.31	0.16	0.11	
22	0.00	0.00	1.51	0.25	4.42	29.17	88.74	8.50	0.98	0.31	0.15	0.16	
23	0.00	0.00	1.18	0.31	14.14	20.18	70.28	7.29	0.89	0.31	0.13	0.13	
24	0.00	0.00	0.89	0.31	11.92	16.64	56.09	6.24	0.80	0.31	0.13	0.11	
25	0.00	0.00	1.87	0.56	4.42	110.45	46.72	5.67	0.80	0.25	0.13	0.09	
26	0.00	0.00	0.72	1.08	18.37	118.25	40.46	5.67	0.72	0.31	0.13	0.09	
27	0.00	0.00	0.43	0.64	13.42	102.89	36.03	5.06	0.64	0.31	0.12	0.09	
28	0.00	0.03	0.36	0.98	5.95	51.69	67.71	5.06	0.56	0.31	0.12	0.13	
29	0.00	0.01	0.25	0.43	6.24	38.96	60.66	4.42	0.64	0.25	0.12	0.20	
30	0.00	0.01	0.20	0.25	25.37	53.96	418.69	3.65	0.64	0.25		0.13	
31		0.01		0.36	22.06		281.13		0.56	0.20		0.12	
Total	0.02	4.00	57.27	47.40	175.96	2165.23	23261.07	757.14	45.81	10.47	4.42	3.88	26532.68 Ton
Mean	0.00	0.13	1.91	1.53	5.68	72.17	750.36	25.24	1.48	0.34	0.15	0.13	
Max	0.01	3.65	14.99	24.15	25.37	557.68	5250.04	130.55	3.65	0.56	0.25	0.36	5250.04
Min	0.00	0.00	0.01	0.15	0.11	3.65	36.03	3.65	0.56	0.20	0.12	0.09	0.00

WATER YEAR 1995

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 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:13.62

LQS/LQS02D/12

Station - Ban Kariang, Tha Yang, Phetchaburi, (B.8)
Stream - Huai Phak
River - Phetchaburi
River System - Phetchaburi River

Royal Irrigation Department
Thailand
Hydrology Division
1.40217
QS = 3.8628 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.52	0.52	0.82	1.46	10.93	468.32	4.14	0.96	0.68	0.68	0.00	
2	0.00	0.52	0.58	0.82	1.34	9.85	159.13	3.33	0.71	0.68	0.58	0.00	
3	0.00	0.43	0.62	0.82	1.34	15.96	114.45	2.73	1.80	0.68	0.52	0.00	
4	0.00	0.38	0.62	0.82	1.34	12.80	59.02	2.73	2.83	0.71	0.46	0.00	
5	0.00	0.46	0.62	0.89	1.14	9.50	38.98	2.58	2.48	0.71	0.43	0.00	
6	0.00	0.58	0.62	0.96	1.07	7.14	72.95	2.48	1.89	0.71	0.38	0.00	
7	0.00	0.62	0.52	0.71	0.96	6.82	589.01	2.25	1.89	0.71	0.35	0.00	
8	29.28	0.68	0.52	0.71	0.96	8.13	373.95	2.02	2.02	0.71	0.27	0.00	
9	13.18	1.80	0.58	0.71	0.89	8.13	266.45	1.67	1.89	0.82	0.20	0.00	
10	5.28	1.07	0.58	0.71	1.07	19.05	317.36	1.59	2.02	0.71	0.17	0.00	
11	3.08	1.14	0.58	0.68	13.57	31.63	380.40	2.11	2.02	0.71	0.13	0.00	
12	2.25	1.14	0.58	0.62	5.88	137.09	157.40	4.14	2.25	0.71	0.11	0.00	
13	1.89	1.14	0.62	0.62	3.59	111.32	124.01	3.59	1.89	0.68	0.04	0.00	
14	1.59	0.96	10.57	0.68	2.58	91.55	125.63	3.08	1.89	0.68	0.01	0.00	
15	1.34	0.89	11.30	0.68	2.34	50.68	90.08	2.73	1.59	0.68	0.00	0.00	
16	1.34	0.82	3.08	0.71	6.82	44.12	77.13	2.48	1.59	0.68	0.00	0.00	
17	1.14	0.82	2.02	0.68	5.28	112.88	82.82	2.25	1.59	0.62	0.00	0.00	
18	1.14	0.82	1.80	0.71	5.58	60.09	81.38	2.02	1.46	0.52	0.00	0.00	
19	0.96	0.71	6.19	0.71	5.28	38.98	46.76	1.67	1.34	0.58	0.00	0.00	
20	0.89	0.71	2.58	0.71	4.42	33.23	34.03	1.67	1.26	0.62	0.00	0.00	
21	0.71	0.71	2.02	0.68	3.08	21.84	23.28	1.34	1.34	0.68	0.00	0.00	
22	0.71	0.62	2.02	0.68	2.73	16.36	17.02	1.26	1.14	0.62	0.00	0.00	
23	0.58	0.58	2.25	0.82	4.42	38.14	13.18	1.14	1.07	0.71	0.00	0.00	
24	0.58	0.58	1.67	1.59	4.14	30.84	10.93	1.07	1.07	0.68	0.00	0.00	
25	0.52	0.58	1.59	3.08	2.83	22.56	9.50	0.82	0.96	0.52	0.00	0.00	
26	0.52	0.58	1.34	2.34	3.59	49.66	8.13	0.82	0.89	0.46	0.00	0.00	
27	0.52	0.58	1.14	2.02	6.50	57.96	6.82	0.82	0.89	0.52	0.00	0.00	
28	0.46	0.58	1.07	1.80	5.28	33.23	6.19	0.82	0.96	0.58	0.00	0.00	
29	0.58	0.58	0.96	1.59	4.99	20.43	5.58	0.96	1.07	0.52	0.00	0.00	
30	0.46	0.52	0.89	1.46	12.80	128.88	4.99	0.96	0.96	0.46		0.00	
31		0.52		1.46	14.35		4.42		0.89	0.58		0.00	
Total	69.00	22.64	60.05	32.29	131.62	1239.78	3769.30	61.27	46.61	19.93	4.33	0.00	5456.82 Ton
Mean	2.30	0.73	2.00	1.04	4.25	41.33	121.59	2.04	1.50	0.64	0.15	0.00	
Max	29.28	1.80	11.30	3.08	14.35	137.09	589.01	4.14	2.83	0.82	0.68	0.00	589.01
Min	0.00	0.38	0.52	0.62	0.89	6.82	4.42	0.82	0.71	0.46	0.00	0.00	0.00

WATER YEAR 1995

WEST COAST-GULF BASIN

Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (GT.7)

Location	Lat. 11°-14'-02" N., Long. 99°-26'-35" E., on left bank near the bridge of Phet Kasem Highway at Ban Wang Yao, Tambon Ron Thong, Amphoe Bang Saphan, Prachuap Khiri Khan.
Drainage Area	346 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1984 - Cont'd
Actual Measurement	1984 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1984 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:25.32 LQS/LQS02D/12

Station - Ban Wang Yao,Bang Saphan, Prachuap Khiri Khan, (GT.7)
Stream - Bang Saphan Yai
River - Khlong Bang Saphan Yai
River System - West Coast-Gulf

Royal Irrigation Department
Thailand
Hydrology Division
1.49037
QS = 3.7263 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.18	0.00	2.28	0.81	13.74	40.05	29.96	26.72	42.25	10.08	4.18	0.81	
2	3.51	0.00	3.51	0.44	8.95	29.96	31.63	16.37	37.88	10.08	4.18	0.81	
3	2.87	0.00	3.51	2.28	6.82	25.14	98.50	13.74	35.76	10.08	4.89	2.28	
4	2.87	0.00	4.18	1.74	4.89	23.60	62.04	12.48	31.63	10.08	4.18	2.87	
5	3.51	0.00	4.18	4.89	4.89	23.60	56.52	5792.03	29.96	8.95	3.51	2.28	
6	2.87	0.00	3.51	2.87	3.51	28.33	67.73	319.00	25.14	8.95	2.87	1.74	
7	2.28	0.00	3.51	2.28	5.83	28.33	226.81	101.78	23.60	8.95	2.87	1.25	
8	2.28	0.16	2.87	2.28	5.83	26.72	129.26	53.83	23.60	7.86	2.28	0.81	
9	8.95	0.16	2.87	5.83	4.89	23.60	111.83	40.05	23.60	7.86	2.28	0.44	
10	4.18	0.00	3.51	13.74	49.09	19.16	98.50	31.63	22.08	7.86	2.28	0.44	
11	2.87	0.81	3.51	111.83	17.75	16.37	701.60	3343.84	22.08	6.82	1.74	0.44	
12	2.28	0.00	3.51	67.73	10.08	13.74	195.38	35966.06	20.60	6.82	1.74	0.44	
13	1.74	0.00	3.51	19.16	8.95	13.74	88.88	3127.72	20.60	6.82	1.74	0.16	
14	4.89	0.00	2.87	11.26	7.86	12.48	221.47	739.27	19.16	6.82	1.74	0.16	
15	3.51	0.00	12.48	7.86	5.83	12.48	310.63	327.44	19.16	5.83	1.25	0.16	
16	2.87	0.00	4.89	4.89	4.89	11.26	118.70	200.51	19.16	5.83	1.25	0.16	
17	2.28	0.00	3.51	5.83	4.89	12.48	73.58	147.50	140.11	5.83	1.25	0.00	
18	2.28	0.00	2.28	5.83	4.18	12.48	59.26	118.70	37.88	5.83	1.25	0.00	
19	2.28	0.00	2.87	7.86	4.89	11.26	42.25	105.10	26.72	4.89	0.81	0.00	
20	1.74	0.00	2.28	7.86	15.04	11.26	33.68	92.05	22.08	4.89	1.74	0.00	
21	1.74	0.00	2.28	5.83	7.86	64.87	28.33	76.56	20.60	4.89	4.18	0.00	
22	0.81	0.00	2.28	4.89	5.83	37.88	25.14	73.58	19.16	4.18	2.87	0.00	
23	0.00	0.00	1.74	4.18	10.08	28.33	22.08	70.63	17.75	4.18	2.87	0.00	
24	0.00	0.00	1.74	3.51	11.26	23.60	20.60	62.04	16.37	4.18	2.87	0.00	
25	0.00	0.00	2.28	4.18	13.74	49.09	17.75	51.44	15.04	4.18	2.87	0.00	
26	0.00	0.00	2.28	3.51	33.68	237.63	16.37	49.09	13.74	4.18	2.28	0.00	
27	0.00	0.00	2.28	3.51	129.26	415.71	15.04	51.44	12.48	4.18	2.28	0.00	
28	0.00	5.83	2.28	3.51	82.64	98.50	13.74	76.56	12.48	4.18	1.74	0.00	
29	0.16	6.82	1.25	4.18	115.25	53.83	13.74	51.44	11.26	4.18	1.25	0.00	
30	0.00	4.89	1.25	3.51	98.50	40.05	12.48	44.49	11.26	3.51		0.00	
31		3.51		6.82	51.44		31.63		11.26	3.51		0.00	
Total	66.95	22.18	95.30	334.90	752.34	1445.53	2975.11	51183.09	804.45	196.48	71.24	15.25	57962.82 Ton
Mean	2.23	0.72	3.18	10.80	24.27	48.18	95.97	1706.10	25.95	6.34	2.46	0.49	
Max	8.95	6.82	12.48	111.83	129.26	415.71	701.60	35966.06	140.11	10.08	4.89	2.87	35966.06
Min	0.00	0.00	1.25	0.44	3.51	11.26	12.48	12.48	11.26	3.51	0.81	0.00	0.00

WATER YEAR 1995

WEST COAST-GULF BASIN

Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan (GT.9)

Location	Lat. 11°29'39" N., Long. 99°36'21" E., on right bank at Ban Klang, Tambon Thap Sakae, Amphoe Thap Sakae, Prachuap Khiri Khan.
Drainage Area	120 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1988 - Cont'd
Actual Measurement	1988 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1988 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:29.94 LQS/LQS02D/12

Station - Ban Klang, Thap Sakae, Prachuap Khiri Khan, (GT.9)
Stream - Khlong Thap Sakae
River - Khlong Thap Sakae
River System - West Coast-Gulf

Royal Irrigation Department
Thailand
Hydrology Division
1.26240
QS = 28.1245 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.14	3.23	19.23	4.89	7.47	63.24	59.07	10.26	2.56	8.85	0.00	0.00	
2	0.64	2.14	19.23	3.69	8.29	61.15	44.96	8.85	1.54	7.47	0.00	0.00	
3	0.34	1.54	23.25	14.14	8.85	76.10	36.15	7.47	0.64	2.14	0.00	0.00	
4	0.34	1.16	14.14	12.92	7.47	50.91	48.91	4.40	0.34	0.00	0.00	0.00	
5	0.34	1.54	11.13	19.23	6.94	37.65	54.95	2.56	0.64	0.00	0.00	0.00	
6	0.34	1.54	8.85	17.93	6.15	27.42	93.05	5.64	0.34	0.00	0.00	0.00	
7	0.34	3.69	7.47	12.92	6.94	20.55	86.72	7.47	1.16	0.00	0.00	0.00	
8	20.55	3.69	6.94	20.55	6.15	19.23	271.17	4.89	0.00	0.00	0.00	0.00	
9	8.29	2.56	6.15	122.60	6.15	14.14	245.84	3.23	1.16	0.00	0.00	0.00	
10	5.64	2.14	6.15	286.62	6.15	11.72	276.30	3.69	1.16	2.56	0.00	0.00	
11	4.40	1.54	6.94	200.53	5.64	10.26	192.03	44.96	0.64	0.00	0.00	0.00	
12	3.23	1.16	6.15	71.76	8.85	8.85	213.44	69.61	0.64	0.00	0.00	0.00	
13	2.56	1.16	16.64	37.65	8.29	15.38	109.26	76.10	0.34	0.00	0.00	0.00	
14	4.89	3.69	12.92	23.25	6.94	12.92	217.77	37.65	0.00	0.00	0.00	0.00	
15	12.92	10.26	8.85	16.64	6.94	11.13	93.05	23.25	0.00	0.00	0.00	0.00	
16	6.15	10.26	6.94	14.14	6.15	10.26	61.15	16.64	0.34	0.00	0.00	0.00	
17	3.69	3.69	8.29	19.23	6.15	9.69	43.01	8.29	1.54	0.00	0.00	0.00	
18	3.23	3.23	6.15	16.64	6.94	8.85	37.65	6.15	0.34	0.00	0.00	0.00	
19	2.56	2.56	11.72	16.64	8.29	8.85	33.18	3.23	0.00	0.00	0.00	0.00	
20	2.14	1.54	10.26	14.14	10.26	6.94	28.84	4.89	0.00	0.00	0.00	0.00	
21	1.16	1.16	8.29	10.26	10.26	9.69	24.62	3.69	0.00	0.00	0.00	0.00	
22	0.64	1.54	11.13	8.85	8.85	11.72	31.72	7.47	0.00	0.00	0.00	0.00	
23	0.64	3.23	8.29	8.29	11.13	39.17	16.64	7.47	0.00	0.00	0.00	0.00	
24	1.16	4.40	11.13	7.47	11.13	31.72	9.69	6.15	0.00	0.00	0.00	0.00	
25	15.38	10.26	11.13	6.94	14.14	222.13	8.85	2.56	0.00	0.00	0.00	0.00	
26	10.26	6.94	8.85	6.94	23.25	567.79	7.47	1.54	0.00	0.00	0.00	0.00	
27	10.26	43.01	6.94	8.29	28.84	390.73	5.64	1.54	0.00	0.00	0.00	0.00	
28	5.64	73.92	5.64	6.94	44.96	119.24	3.69	2.14	4.40	0.00	0.00	0.00	
29	4.40	57.00	4.89	6.94	61.15	65.35	3.69	3.69	7.47	0.00	0.00	0.00	
30	3.69	31.72	4.89	6.15	63.24	61.15	3.23	3.23	7.47	0.00		0.00	
31		24.62		7.47	57.00		8.29		8.29	0.00		0.00	
Total	137.96	320.12	298.58	1030.65	478.96	2003.93	2370.03	388.71	41.01	21.02	0.00	0.00	7090.97 Ton
Mean	4.60	10.33	9.95	33.25	15.45	66.80	76.45	12.96	1.32	0.68	0.00	0.00	
Max	20.55	73.92	23.25	286.62	63.24	567.79	276.30	76.10	8.29	8.85	0.00	0.00	567.79
Min	0.34	1.16	4.89	3.69	5.64	6.94	3.23	1.54	0.00	0.00	0.00	0.00	0.00

WATER YEAR 1995

WEST COAST-GULF BASIN

Khlong Cha Kra at Ban Cha Kra Bon, Prachuap Khiri Khan (GT.18)

Location	Lat.11°-26'-46" N., Long. 99°-34'-10" E., on left bank at the bridge of Phet Kasem Highway near the guidepost 371, Tambon Na Hu Kwang, Amphoe Thap Sakae, Prachuap Khiri Khan.
Drainage Area	93 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1988 - Cont'd
Actual Measurement	1988 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1988 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:34.82

LQS/LQS02D/12

Station - Ban Cha Kra Bon, Thap Sakae, Prachuap Khiri Khan, (GT.18)
Stream - Khlong Cha Kra
River - Khlong Cha Kra
River System - West Coast-Gulf

Royal Irrigation Department
Thailand
Hydrology Division
1.42380
QS = 41.4972 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.56	7.12	8.93	4.20	21.01	158.22	150.36	14.59	9.69	8.93	13.74	12.89	
2	7.83	6.10	8.56	4.20	13.74	122.59	80.31	12.89	10.86	8.93	14.59	12.89	
3	7.83	5.77	8.93	12.89	11.66	221.27	45.69	11.26	10.86	9.31	10.07	12.89	
4	7.83	5.12	8.56	9.31	10.07	96.58	114.52	10.07	10.86	10.07	9.31	12.89	
5	7.83	5.12	7.83	15.03	8.93	71.82	80.31	13.31	10.86	10.07	9.31	12.89	
6	7.12	6.43	7.47	40.32	7.83	42.09	118.53	12.48	8.93	10.07	8.93	12.89	
7	5.12	5.77	7.83	15.03	7.83	30.20	91.31	12.89	8.93	21.01	8.93	12.89	
8	77.45	6.10	7.83	12.89	7.47	23.96	366.72	12.89	9.69	28.60	7.83	12.48	
9	33.48	6.43	7.83	15.03	7.47	19.58	307.24	12.48	9.69	33.48	7.83	11.66	
10	13.74	6.43	8.56	141.77	9.69	16.81	307.24	12.48	9.69	33.48	7.83	11.26	
11	12.48	5.77	10.86	150.36	11.66	15.47	271.44	19.58	10.07	31.83	7.12	10.86	
12	11.66	0.00	10.07	114.52	9.31	18.18	215.46	40.32	10.07	22.47	6.43	10.07	
13	10.86	0.00	9.31	36.85	8.56	22.47	138.38	61.62	9.69	16.81	6.43	10.07	
14	10.86	0.00	8.93	21.01	7.12	15.47	134.17	35.15	9.69	12.89	6.10	7.12	
15	10.07	0.00	8.56	14.59	7.12	14.59	83.20	22.47	9.31	12.89	6.10	4.20	
16	10.07	0.00	8.56	12.89	7.12	15.03	71.82	16.81	11.26	12.48	6.10	3.33	
17	9.69	0.00	7.83	15.03	7.12	15.47	51.89	15.03	11.26	12.89	6.10	2.27	
18	9.69	0.00	7.83	15.47	7.12	14.59	42.09	14.59	11.66	13.31	6.10	0.00	
19	9.31	0.00	7.47	13.74	7.12	13.74	31.83	13.31	11.66	13.31	6.10	0.00	
20	8.93	0.00	7.47	21.01	7.12	13.31	28.60	13.31	10.86	12.89	6.10	0.00	
21	8.56	0.00	7.12	18.18	6.43	77.45	40.32	12.89	10.86	13.31	33.48	0.00	
22	7.83	0.00	7.12	13.74	6.43	69.74	30.20	12.89	10.86	13.31	28.60	0.00	
23	7.83	0.00	6.43	11.66	8.93	118.53	22.47	12.48	10.86	12.89	12.89	0.00	
24	7.47	0.00	7.12	10.07	7.83	88.33	18.18	12.48	10.86	12.89	12.89	0.00	
25	7.47	0.00	7.47	9.31	9.69	154.71	15.47	12.48	10.86	13.31	40.32	0.00	
26	7.47	0.00	7.47	8.56	14.59	910.43	15.03	12.48	10.86	13.31	15.03	0.00	
27	7.12	0.00	6.43	7.83	16.81	533.31	13.74	12.48	9.69	13.31	40.32	0.00	
28	7.47	22.47	6.43	7.83	43.88	195.49	13.31	11.66	8.93	13.31	12.89	0.00	
29	7.47	15.47	0.00	7.83	146.05	103.49	12.89	11.26	8.93	13.31	12.89	0.00	
30	7.47	13.74	0.00	7.12	210.66	91.31	12.89	10.07	8.93	13.31		0.00	
31		10.07		7.47	85.39		13.74		8.93	13.31		0.00	
Total	356.57	127.91	224.81	795.74	741.76	3304.23	2939.35	498.70	316.16	481.29	370.36	173.55	10330.43 Ton
Mean	11.89	4.13	7.49	25.67	23.93	110.14	94.82	16.62	10.20	15.53	12.77	5.60	
Max	77.45	22.47	10.86	150.36	210.66	910.43	366.72	61.62	11.66	33.48	40.32	12.89	910.43
Min	5.12	0.00	0.00	4.20	6.43	13.31	12.89	10.07	8.93	8.93	6.10	0.00	0.00

WATER YEAR 1995

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 1989 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:30:31.20 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
1.24273
QS = 0.8965 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	58.47	22.14	55.61	107.11	312.82	300.63	350.87	253.33	267.09	50.91	36.87	7.29	
2	49.98	70.90	40.12	98.50	235.21	203.58	213.75	175.87	207.63	45.38	28.99	6.62	
3	58.47	244.24	65.60	34.47	224.02	213.75	295.78	185.51	173.97	33.67	25.95	10.42	
4	81.73	445.25	36.07	22.14	98.50	589.67	288.54	235.21	130.71	32.10	21.51	7.97	
5	121.75	382.75	24.66	39.30	151.45	1614.90	185.51	385.51	114.39	34.47	16.66	9.35	
6	124.73	151.45	237.46	17.85	300.63	1500.10	195.51	613.30	118.80	31.32	12.62	34.47	
7	54.66	151.45	257.90	24.66	799.47	1809.29	181.61	533.04	111.46	31.32	11.51	19.06	
8	45.38	25.30	138.27	19.66	656.45	2709.07	147.75	839.55	104.22	35.26	12.25	14.33	
9	40.94	32.10	94.25	12.62	402.19	2043.86	160.76	596.40	80.36	37.68	24.03	25.95	
10	97.08	19.66	44.47	23.39	298.21	1227.55	278.94	759.77	80.36	33.67	41.76	19.06	
11	16.66	118.80	98.50	21.51	305.50	576.24	385.51	582.95	57.51	38.49	136.76	26.70	
12	32.88	104.22	114.39	25.30	168.28	345.73	516.61	549.58	49.98	40.94	80.36	14.90	
13	41.76	83.10	226.25	23.39	107.11	248.78	490.52	451.18	52.78	35.26	40.94	32.10	
14	45.38	68.24	199.53	33.67	87.25	262.49	363.79	835.53	54.66	27.46	25.95	149.60	
15	39.30	22.76	185.51	14.90	92.84	343.16	317.72	771.64	40.12	19.66	22.14	112.92	
16	28.22	87.25	197.52	16.66	78.99	226.25	199.53	503.53	34.47	19.06	28.22	147.75	
17	76.28	371.73	120.27	34.47	57.51	317.72	235.21	295.78	44.47	22.14	24.66	110.01	
18	92.84	427.57	40.94	28.22	53.72	1349.22	271.78	881.73	70.90	31.32	21.51	145.92	
19	132.22	149.60	145.92	32.88	42.66	1293.18	262.49	716.57	83.10	24.66	14.33	130.71	
20	219.90	47.21	295.78	34.47	35.26	1557.29	230.72	799.47	366.38	17.85	9.71	147.75	
21	361.20	36.87	288.54	36.87	73.58	2051.17	274.16	1293.18	230.72	17.25	8.66	118.80	
22	158.89	45.38	168.28	34.47	60.39	1746.70	278.94	1494.41	61.69	17.25	9.71	102.79	
23	102.79	264.79	221.96	28.99	211.71	783.54	168.28	847.61	50.91	155.16	8.31	76.28	
24	157.02	224.02	189.50	54.66	667.38	416.19	153.30	513.33	35.26	102.79	9.35	40.94	
25	269.40	51.84	142.85	80.36	831.50	377.23	117.32	338.05	37.68	52.78	7.63	49.05	
26	466.06	59.43	203.58	47.21	402.19	623.89	120.27	295.78	32.88	142.85	7.29	43.57	
27	343.16	45.38	177.78	45.38	616.69	475.03	114.39	317.72	28.22	111.46	9.35	27.46	
28	241.97	14.33	117.32	39.30	1460.32	379.99	124.73	345.73	29.76	55.61	9.35	18.45	
29	183.52	7.63	138.27	45.38	1746.70	562.88	129.21	454.15	32.10	33.67	7.63	11.51	
30	60.39	70.90	129.21	104.22	1103.26	613.30	257.90	382.75	40.12	76.28		12.25	
31		123.24		562.88	427.57		361.20		44.47	55.61		8.66	
Total	3803.03	3969.53	4396.31	1744.89	12109.36	26762.38	7672.60	17248.16	2867.17	1463.33	714.01	1682.64	84433.41 Ton
Mean	126.77	128.05	146.54	56.29	390.62	892.08	247.50	574.94	92.49	47.20	24.62	54.28	
Max	466.06	445.25	295.78	562.88	1746.70	2709.07	516.61	1494.41	366.38	155.16	136.76	149.60	2709.07
Min	16.66	7.63	24.66	12.62	35.26	203.58	114.39	175.87	28.22	17.25	7.29	6.62	6.62

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

Tapi River at Phrasaeng, Surat Thani (X.37A)

Location	Lat. 8-34-03 N., Long. 99-15-15 E., on left bank at Tambon Yan Din Daeng, Amphoe Phrasaeng, Surat Thani.
Drainage Area	5,200 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1990 - Cont'd
Actual Measurement	1990 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1990 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:40.93

LQS/LQS02D/12

Station - Phrasaeng, A. Phrasaeng, Surat Thani, (X.37A)
Stream - Tapi River
River - Tapi
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division
1.15150
QS = 2.0854 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	64.3	49.0	52.6	46.7	238.9	1558.2	1427.7	650.9	2277.9	268.1	171.1	87.3	
2	65.7	47.9	51.4	43.2	268.1	1476.5	1444.0	650.9	2078.3	255.1	159.0	81.8	
3	69.7	43.2	53.9	40.9	240.7	1380.2	1414.1	647.8	1920.7	242.5	200.8	76.4	
4	64.3	44.3	55.2	40.9	212.0	1287.2	1366.7	681.7	1791.0	231.8	221.7	73.7	
5	56.5	39.7	80.4	43.2	188.2	1218.4	1306.0	781.8	1684.4	221.7	220.1	71.0	
6	51.4	35.2	141.3	52.6	196.0	1186.8	1271.3	905.8	1591.1	212.0	192.9	68.3	
7	47.9	31.8	134.0	87.3	275.9	1207.9	1239.5	1012.7	1492.8	205.6	174.2	67.0	
8	44.3	32.9	105.3	109.6	379.2	1260.7	1250.1	1103.1	1400.6	197.6	171.1	65.7	
9	43.2	30.7	94.2	95.5	461.0	1326.2	1281.9	1202.6	1306.0	192.9	157.5	63.0	
10	43.2	30.7	95.5	81.8	519.3	1407.4	1299.3	1281.9	1207.9	185.1	145.7	61.7	
11	63.0	30.7	98.3	81.8	614.2	1525.5	1287.2	1359.9	1092.7	178.8	136.9	60.4	
12	50.2	31.8	122.4	79.1	718.8	1574.6	1207.9	1427.7	956.5	174.2	136.9	59.1	
13	44.3	31.8	161.9	90.0	743.7	1509.1	1082.3	1484.6	834.8	172.6	131.1	59.1	
14	55.2	34.0	161.9	112.4	703.3	1366.7	952.2	1468.4	728.1	166.5	123.8	59.1	
15	75.0	38.6	145.7	105.3	617.3	1223.7	848.8	1435.9	632.5	159.0	118.1	57.8	
16	92.8	46.7	154.5	95.5	596.0	1108.3	801.6	1414.1	558.0	154.5	129.6	57.8	
17	83.1	46.7	147.1	122.4	666.2	1069.2	831.5	1400.6	504.5	148.6	126.7	55.2	
18	71.0	43.2	122.4	136.9	731.3	1078.0	895.1	1387.0	465.7	142.7	123.8	47.9	
19	56.5	36.3	113.8	142.7	775.2	1124.0	922.2	1373.5	435.3	138.3	123.8	45.5	
20	46.7	32.9	102.5	160.5	838.1	1186.8	952.2	1380.2	482.3	136.9	109.6	44.3	
21	42.0	30.7	99.7	164.9	848.8	1244.8	965.1	1460.2	497.1	132.5	101.1	44.3	
22	42.0	31.8	99.7	204.0	859.4	1306.0	943.6	1599.5	463.4	129.6	96.9	43.2	
23	39.7	35.2	91.4	258.8	926.5	1353.2	935.0	1830.8	487.2	131.1	92.8	43.2	
24	37.4	35.2	80.4	228.2	1043.1	1373.5	884.3	2232.1	454.0	132.5	91.4	43.2	
25	38.6	36.3	71.0	199.2	1134.4	1373.5	828.2	3019.8	412.6	134.0	88.6	43.2	
26	39.7	35.2	67.0	166.5	1223.7	1373.5	771.9	3335.3	372.8	142.7	88.6	40.9	
27	49.0	36.3	64.3	147.1	1319.5	1373.5	718.8	3316.6	349.4	163.4	87.3	39.7	
28	44.3	40.9	60.4	126.7	1414.1	1393.8	700.2	3052.3	332.5	169.5	85.9	38.6	
29	40.9	55.2	55.2	121.0	1476.5	1407.4	697.1	2762.3	315.9	177.3	83.1	37.4	
30	43.2	60.4	51.4	141.3	1541.8	1414.1	657.0	2511.5	297.7	166.5		36.3	
31		57.8		166.5	1566.4		641.7		281.8	185.1		36.3	
Total	1605.1	1213.1	2934.8	3692.5	23337.6	39688.7	31824.5	48171.5	27705.5	5448.7	3890.1	1708.4	191220.5 Ton
Mean	53.5	39.1	97.8	119.1	752.8	1323.0	1026.6	1605.7	893.7	175.8	134.1	55.1	
Max	92.8	60.4	161.9	258.8	1566.4	1574.6	1444.0	3335.3	2277.9	268.1	221.7	87.3	3335.3
Min	37.4	30.7	51.4	40.9	188.2	1069.2	641.7	647.8	281.8	129.6	83.1	36.3	30.7

WATER YEAR 1995

SOUTHERN PENNINSULA EAST COAST

Khlong Tha Di at Ban Pak Prik, Nakhon Si Thammarat (X.55)

Location	Lat. 08-23-53 N., Long. 99-50-15 E., on left bank at the bridge on road, Ban Pak Prik, Amphoe Lan Saka, Nakhon Si Thammarat.
Drainage Area	105 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 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:46.21 LQS/LQS02D/12

Station - Ban Pak Prik, Lan Saka, Nakhon Si Thammarat, (X.55)
Stream - Khlong Tha Di
River - Khlong Tha Di
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division
1.51282
QS = 1.1825 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.40	10.07	4.99	4.73	7.53	12.49	9.09	12.13	34.68	13.58	258.48	8.45	
2	9.41	11.43	6.64	4.47	6.64	13.21	8.14	18.23	65.95	12.49	57.08	8.14	
3	8.77	9.41	5.52	4.22	6.07	12.85	7.53	10.07	42.24	11.78	144.81	7.83	
4	8.45	8.14	12.13	10.74	6.36	13.58	6.94	13.21	32.73	11.08	55.36	7.53	
5	7.83	7.83	6.94	9.74	6.07	12.49	6.07	121.92	51.13	10.40	49.47	6.94	
6	7.53	6.36	6.36	7.83	6.07	12.49	9.09	26.29	46.21	10.07	37.64	6.64	
7	7.23	6.64	6.64	5.52	5.80	16.63	13.95	26.86	38.40	9.74	37.64	6.36	
8	6.94	6.36	6.94	5.25	5.52	12.49	11.43	22.02	32.12	9.41	38.40	6.07	
9	6.94	6.07	5.80	4.73	6.07	11.08	9.09	36.89	28.58	9.09	31.52	6.07	
10	6.94	6.07	6.94	4.99	12.85	14.32	7.53	21.59	26.86	10.40	29.16	5.80	
11	6.64	5.80	11.78	4.99	18.64	10.74	6.94	18.64	22.99	10.40	26.29	5.52	
12	6.64	5.80	10.07	5.25	12.85	10.07	6.36	19.05	21.59	15.85	25.73	6.07	
13	8.45	7.83	5.80	5.52	9.74	9.41	5.80	19.05	20.31	11.43	24.07	5.80	
14	7.23	6.64	16.63	5.25	7.83	9.09	9.74	26.86	19.05	10.74	18.64	5.80	
15	6.94	5.80	10.07	4.99	18.64	11.78	8.45	26.86	18.23	9.74	17.03	5.52	
16	6.64	5.25	8.14	4.73	17.03	12.13	9.09	64.14	17.83	9.09	15.85	5.25	
17	6.36	5.25	7.53	4.73	59.69	11.43	8.14	146.64	17.42	8.77	14.32	5.25	
18	6.36	4.99	6.64	5.52	19.88	15.46	9.09	969.80	16.24	8.45	13.58	5.25	
19	6.07	4.73	6.36	6.07	17.42	19.88	11.43	505.23	22.45	7.83	12.85	4.99	
20	5.80	8.77	6.36	9.41	15.08	19.05	8.14	393.09	17.83	7.53	12.49	4.99	
21	5.80	8.14	6.07	15.85	12.49	16.24	7.53	1375.83	258.48	7.53	11.43	4.73	
22	5.52	5.80	5.52	10.74	12.13	12.85	8.14	1211.92	45.41	6.94	12.49	4.73	
23	5.52	4.99	4.99	6.64	17.42	11.08	6.36	545.78	29.74	6.94	11.78	4.73	
24	5.25	5.52	4.73	5.80	22.02	10.07	6.36	224.62	23.53	6.94	11.08	4.73	
25	7.53	4.99	6.07	5.25	19.05	13.95	6.94	167.56	23.53	39.92	11.43	7.23	
26	6.07	10.40	4.99	5.25	15.46	10.40	6.36	121.92	19.88	25.17	10.07	4.73	
27	7.83	7.53	4.73	4.99	20.31	10.07	8.14	86.71	18.23	39.92	11.78	4.47	
28	17.42	6.94	4.73	6.07	19.88	9.74	7.23	60.57	17.03	19.88	9.41	4.22	
29	13.95	6.36	4.73	4.99	16.63	8.45	6.07	46.21	16.63	65.04	8.77	3.98	
30	10.74	5.52	4.73	8.77	14.32	7.83	8.14	39.16	14.70	28.58		3.98	
31		4.99		8.14	12.49		17.83		14.32	22.45		3.74	
Total	233.20	210.42	209.57	201.17	447.98	371.35	261.14	6378.85	1074.32	477.18	1018.65	175.54	11059.37 Ton
Mean	7.77	6.79	6.99	6.49	14.45	12.38	8.42	212.63	34.66	15.39	35.13	5.66	
Max	17.42	11.43	16.63	15.85	59.69	19.88	17.83	1375.83	258.48	65.04	258.48	8.45	1375.83
Min	5.25	4.73	4.73	4.22	5.52	7.83	5.80	10.07	14.32	6.94	8.77	3.74	3.74

WATER YEAR 1995

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 1989 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:51.45

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
1.45664
QS = 3.1053 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.55	1.33	0.70	0.49	0.82	1.13	0.82	2.00	9.53	3.38	36.22	2.16	
2	1.55	1.33	0.70	0.49	1.20	1.07	1.27	1.77	33.33	3.11	20.39	2.08	
3	1.40	1.20	0.70	0.49	0.88	1.07	1.27	1.48	16.59	2.93	67.27	1.85	
4	1.33	1.13	1.20	1.77	0.82	1.27	1.33	1.40	11.66	2.66	20.07	1.85	
5	1.27	1.07	0.82	1.62	0.76	1.13	1.27	59.59	31.25	2.58	11.39	1.85	
6	1.20	1.00	0.70	1.07	0.76	1.13	1.20	9.28	15.09	2.58	22.38	1.77	
7	1.20	0.94	0.70	1.07	0.76	1.13	2.93	5.61	12.21	2.49	16.59	1.70	
8	1.13	0.94	0.70	0.76	0.70	1.13	2.49	3.57	9.28	2.58	11.12	1.70	
9	1.13	0.88	0.65	0.70	1.07	1.13	1.85	7.79	7.55	2.49	9.28	1.62	
10	1.13	0.82	0.65	0.70	1.33	1.20	1.48	3.85	6.78	2.49	7.55	1.62	
11	1.07	0.82	0.65	0.70	1.85	1.07	1.33	3.47	5.44	2.24	6.44	1.55	
12	1.07	0.82	0.65	1.13	1.92	1.00	1.27	11.39	5.28	3.38	5.61	1.40	
13	1.27	0.82	0.65	1.07	1.55	1.00	1.13	7.79	4.35	2.49	4.96	1.40	
14	1.07	0.82	1.20	0.94	1.48	0.88	1.33	7.31	3.95	2.24	4.50	1.40	
15	1.07	0.82	0.94	0.82	2.08	0.88	1.40	13.34	3.47	2.00	4.05	1.40	
16	1.00	0.76	0.82	0.76	3.11	0.88	1.48	45.34	3.29	1.70	3.66	1.40	
17	1.00	0.76	0.76	0.76	24.08	1.07	2.00	50.67	3.29	1.70	3.29	1.40	
18	0.94	0.76	0.76	0.76	3.57	0.88	3.47	429.44	3.11	1.70	3.11	1.40	
19	0.94	0.70	0.70	0.76	3.29	1.13	2.75	90.82	4.81	1.70	3.11	1.40	
20	0.94	1.85	0.82	1.92	2.08	1.13	1.77	115.20	3.66	1.70	3.02	1.40	
21	0.88	1.00	0.65	3.57	1.85	1.07	1.48	143.87	66.56	1.62	3.11	1.27	
22	0.88	0.88	0.65	1.92	1.62	0.94	1.40	235.44	17.21	1.62	3.02	1.27	
23	0.82	0.82	0.65	1.48	1.62	1.00	1.33	154.22	7.55	1.62	2.66	1.27	
24	0.82	1.07	0.59	1.27	2.16	0.94	1.20	61.65	5.77	1.62	2.58	1.13	
25	0.82	0.82	0.59	1.13	1.70	0.88	2.08	6.96	6.27	5.28	2.84	1.13	
26	0.82	0.82	0.54	1.00	1.70	0.88	1.48	31.25	5.61	2.84	2.66	1.13	
27	1.13	0.70	0.54	0.94	1.70	0.88	1.48	21.38	4.50	14.79	3.66	0.94	
28	1.07	0.70	0.54	0.88	1.62	0.82	1.27	20.39	4.20	3.66	2.33	0.82	
29	2.24	0.82	0.54	0.82	1.48	0.82	1.40	13.91	4.96	15.99	2.24	0.94	
30	2.00	0.76	0.54	0.76	1.40	0.82	1.33	10.05	4.50	7.55		1.00	
31		0.76		0.88	1.27		2.00		4.05	4.65		1.07	
Total	34.74	28.72	21.30	33.43	72.23	30.36	50.29	1570.23	325.10	109.38	289.11	44.32	2609.21 Ton
Mean	1.16	0.93	0.71	1.08	2.33	1.01	1.62	52.34	10.49	3.53	9.97	1.43	
Max	2.24	1.85	1.20	3.57	24.08	1.27	3.47	429.44	66.56	15.99	67.27	2.16	429.44
Min	0.82	0.70	0.54	0.49	0.70	0.82	0.82	1.40	3.11	1.62	2.24	0.82	0.49

WATER YEAR 1995

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 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:50:58.22

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
1.40515
QS = 0.9486 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.65	1.85	2.85	3.53	36.57	55.24	21.77	38.30	83.47	425.28	34.30	8.85	
2	5.96	1.74	3.36	3.36	28.27	46.67	20.41	28.81	84.44	258.38	62.78	8.60	
3	5.52	1.85	3.53	3.53	61.98	48.07	30.97	23.64	193.24	170.55	98.37	8.35	
4	5.08	1.85	3.71	3.36	37.72	44.84	170.55	21.77	474.90	137.50	61.98	7.85	
5	4.65	1.74	10.25	3.19	28.27	39.47	175.82	30.97	335.66	112.89	46.67	7.61	
6	4.44	1.63	6.65	4.26	26.17	41.83	73.48	37.14	201.75	100.41	41.83	7.13	
7	4.26	1.52	7.37	4.26	28.27	44.84	57.45	33.74	146.19	83.47	34.86	6.65	
8	4.07	1.74	34.86	9.96	24.11	43.63	47.37	35.43	119.39	74.32	31.52	6.19	
9	3.89	5.08	34.30	14.08	19.95	33.18	103.49	26.69	107.64	66.02	27.22	5.74	
10	3.71	3.19	21.32	9.96	17.47	61.18	67.66	25.13	96.34	60.43	24.11	5.52	
11	3.71	3.19	19.09	10.25	16.28	69.31	41.23	23.64	79.62	59.68	22.24	5.30	
12	3.53	5.96	19.51	9.96	15.14	51.62	33.74	25.65	66.84	58.94	20.86	5.08	
13	3.71	4.65	11.73	14.78	14.08	64.40	28.27	28.81	56.71	51.62	19.09	5.30	
14	3.53	4.86	11.13	17.47	39.47	61.98	23.64	50.19	49.48	44.84	17.47	5.08	
15	3.36	4.86	19.95	14.78	59.68	48.77	28.27	37.72	45.45	40.05	16.67	4.86	
16	3.19	3.19	19.09	14.08	178.47	39.47	75.16	81.54	40.64	36.00	15.88	4.65	
17	3.19	2.69	15.49	13.39	236.11	39.47	71.80	286.80	37.14	32.62	15.14	4.26	
18	2.85	2.44	11.73	14.78	310.53	39.47	53.06	626.70	36.57	30.97	14.43	3.89	
19	3.02	2.32	17.07	15.49	266.47	33.18	36.57	745.87	32.62	28.81	12.71	3.71	
20	2.57	3.53	15.49	32.07	297.58	28.27	47.37	847.09	36.00	26.17	17.07	3.71	
21	2.57	3.19	11.43	32.62	371.59	25.65	32.07	685.54	38.30	23.64	15.88	3.53	
22	2.44	2.69	9.39	21.77	455.81	20.41	37.14	397.64	76.86	21.32	14.78	3.36	
23	2.32	2.44	8.10	24.62	390.82	18.28	26.17	245.58	117.14	20.41	13.74	3.36	
24	2.20	3.02	6.89	121.76	373.68	17.47	34.86	310.53	240.83	19.51	12.71	3.19	
25	2.08	4.86	5.74	90.34	331.76	18.28	27.74	616.33	229.85	37.14	12.04	3.19	
26	2.08	6.19	5.74	55.24	256.77	17.07	26.69	395.36	301.23	36.57	11.13	3.19	
27	1.97	4.26	5.08	105.56	349.42	15.14	23.64	203.19	217.74	27.74	10.25	3.71	
28	2.08	2.85	4.44	91.33	216.28	14.78	21.77	151.23	422.95	24.62	9.39	3.53	
29	2.08	3.02	3.89	44.23	116.07	13.74	21.77	117.14	745.87	27.22	9.10	3.19	
30	1.97	4.44	3.71	44.23	87.38	15.14	28.27	93.33	780.27	36.00		3.53	
31		4.26		49.48	66.84		84.44		661.65	29.34		3.53	
Total	102.68	101.10	352.89	897.72	4759.01	1110.85	1572.64	6271.50	6156.78	2202.46	744.22	155.64	24427.49 Ton
Mean	3.42	3.26	11.76	28.96	153.52	37.03	50.73	209.05	198.61	71.05	25.66	5.02	
Max	6.65	6.19	34.86	121.76	455.81	69.31	175.82	847.09	780.27	425.28	98.37	8.85	847.09
Min	1.97	1.52	2.85	3.19	14.08	13.74	20.41	21.77	32.62	19.51	9.10	3.19	1.52

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

Khlong U Taphao at Ban Bang Sala, Songkhla (X.90)

Location	Lat. 6°55'39" N., Long. 100°26'37" E., on left bank about 5 meters upstream from the bridge on highway and near the Phatthana Tambon Street, Amphoe Hat Yai, Songkhla.
Drainage Area	1,562 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1982 - Cont'd
Actual Measurement	1982 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1982 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:51:02.38 LQS/LQS02D/12

Station - Ban Bang Sala, Hat Yai, Songkhla, (X.90)
Stream - Khlong U Taphao
River - Khlong U Taphao
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division
1.14295
QS = 3.8211 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.90	18.79	4.26	6.54	8.44	59.83	231.06	376.56	260.46	1128.12	49.48	12.50	
2	26.26	22.41	4.48	6.31	9.56	47.68	197.81	716.17	318.98	770.20	81.20	12.14	
3	19.60	29.06	4.48	5.84	9.90	41.15	190.68	1020.71	1040.50	516.70	78.65	11.74	
4	14.08	25.15	4.48	11.74	9.90	35.90	202.11	918.59	1530.14	370.75	64.79	10.64	
5	12.50	18.37	5.16	12.50	10.24	31.32	175.09	756.65	1467.00	290.66	54.93	9.56	
6	11.39	16.00	5.38	9.56	10.64	41.74	151.34	652.66	1271.09	229.60	45.89	8.44	
7	10.64	14.80	5.84	11.39	12.90	57.38	134.86	625.74	1008.86	186.41	42.33	7.96	
8	8.20	15.58	6.07	14.80	17.15	67.91	124.67	682.65	746.50	156.89	39.39	7.48	
9	7.01	25.15	6.31	18.00	25.70	74.84	106.61	804.22	531.24	138.96	35.90	7.48	
10	5.84	22.41	6.31	19.17	54.32	66.03	103.64	811.04	417.54	124.67	33.60	8.20	
11	5.84	16.78	6.31	21.21	253.07	55.54	95.76	672.64	351.46	113.60	31.32	7.96	
12	6.07	14.44	7.01	20.78	263.42	47.08	91.85	499.79	292.54	105.62	29.62	7.96	
13	6.54	10.64	7.96	54.93	180.74	41.15	90.87	611.30	247.17	100.67	28.49	7.72	
14	6.77	9.90	8.20	78.01	138.96	39.98	81.84	852.57	212.19	95.76	27.37	7.48	
15	7.24	8.44	16.78	53.11	127.72	48.88	72.94	753.26	177.91	84.41	25.15	7.72	
16	10.24	7.48	19.17	30.75	127.72	60.45	56.15	634.42	149.27	79.92	26.82	7.72	
17	14.44	6.31	28.49	24.60	128.74	83.77	119.62	856.44	134.86	74.84	27.93	7.48	
18	17.15	5.84	37.06	22.84	129.75	97.72	118.62	1335.39	124.67	69.79	27.93	7.24	
19	21.21	5.84	32.46	21.21	130.77	137.93	124.67	1379.09	107.61	66.66	26.82	7.01	
20	19.17	5.61	33.03	25.15	123.66	203.55	159.68	1276.06	110.60	61.68	25.15	6.77	
21	13.67	5.61	29.62	49.48	86.34	298.18	212.19	1089.07	118.62	57.99	25.15	6.77	
22	11.39	5.84	21.97	52.50	69.79	376.56	222.32	860.31	137.93	54.93	25.15	6.77	
23	9.56	6.54	16.36	33.60	62.30	444.75	217.97	669.30	223.78	52.50	21.21	6.54	
24	7.72	8.20	13.67	29.06	56.15	409.69	247.17	599.78	283.17	49.48	16.36	6.54	
25	7.96	7.48	11.39	25.15	52.50	347.62	266.39	579.68	334.22	47.08	14.80	6.31	
26	8.44	7.72	11.39	22.41	47.68	278.31	256.02	516.70	318.98	45.29	14.44	6.07	
27	9.90	7.01	10.99	17.57	44.10	236.90	228.14	444.75	454.26	44.10	14.08	6.07	
28	7.48	5.84	10.99	13.67	42.92	269.37	222.32	392.11	969.48	42.33	13.67	5.61	
29	4.93	4.93	9.17	10.64	52.50	290.66	324.68	341.87	1608.47	41.74	13.31	5.38	
30	12.14	4.26	7.48	9.17	62.92	270.85	338.04	292.54	1620.57	38.81		5.16	
31		4.04		8.44	67.91		318.98		1455.98	37.06		4.93	
Total	359.28	366.47	392.27	740.13	2418.41	4562.72	5484.09	22022.06	18026.05	5277.22	960.93	237.35	60846.98 Ton
Mean	11.98	11.82	13.08	23.88	78.01	152.09	176.91	734.07	581.49	170.23	33.14	7.66	
Max	35.90	29.06	37.06	78.01	263.42	444.75	338.04	1379.09	1620.57	1128.12	81.20	12.50	1620.57
Min	4.93	4.04	4.26	5.84	8.44	31.32	56.15	292.54	107.61	37.06	13.31	4.93	4.04

WATER YEAR 1995

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 1984 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:30:37.23

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
1.32706
QS = 1.1397 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.03	0.01	0.03	0.58	5.90	6.35	8.84	41.60	6.01	2.13	1.71	
2	0.09	0.03	0.01	0.01	0.58	5.01	15.59	7.80	37.36	5.78	3.66	1.26	
3	0.09	0.03	0.01	0.01	0.58	4.41	16.76	7.36	41.60	5.56	5.12	0.74	
4	0.07	0.01	0.01	0.03	0.54	6.82	15.82	7.22	35.97	5.34	5.45	0.90	
5	0.07	0.01	0.01	0.17	0.58	6.59	12.02	9.60	30.35	5.01	4.49	0.86	
6	0.05	0.01	0.01	0.20	0.54	6.35	9.44	10.53	26.74	4.90	4.41	0.86	
7	0.05	0.01	0.01	0.33	0.66	6.82	9.75	12.45	23.88	4.68	4.68	0.86	
8	0.05	0.01	0.00	0.33	0.62	9.75	8.39	14.00	21.67	4.41	4.49	0.95	
9	0.05	0.01	0.00	0.39	0.58	10.11	7.80	17.23	20.12	4.30	4.03	0.95	
10	0.05	0.01	0.00	0.39	0.66	8.39	7.36	24.85	18.42	4.11	3.66	1.31	
11	0.05	0.00	0.01	0.39	0.62	8.24	7.08	35.97	17.23	3.93	3.30	1.12	
12	0.03	0.00	0.01	0.99	0.78	6.59	7.51	36.43	16.29	3.74	3.11	0.90	
13	0.03	0.00	0.07	1.17	2.27	5.78	6.94	28.73	15.13	3.56	2.86	0.66	
14	0.03	0.03	0.20	1.22	2.13	5.22	6.24	22.93	14.00	3.30	2.71	0.70	
15	0.03	0.07	0.17	1.04	2.20	4.79	10.32	18.18	12.89	3.21	2.49	1.22	
16	0.03	0.05	0.09	0.95	2.13	4.30	8.39	27.93	12.23	3.03	2.34	0.86	
17	0.03	0.03	0.36	0.74	2.13	4.79	7.95	109.74	11.59	2.86	2.20	0.54	
18	0.03	0.01	0.33	0.66	1.71	4.49	7.80	648.81	10.74	2.71	2.13	0.62	
19	0.01	0.01	0.23	0.66	1.45	6.59	15.13	620.79	9.90	2.56	1.92	0.26	
20	0.01	0.01	0.17	0.78	2.41	10.32	11.37	332.02	9.44	2.49	1.78	0.20	
21	0.01	0.01	0.14	0.90	2.56	13.33	8.99	637.57	10.53	2.27	1.92	0.20	
22	0.01	0.01	0.09	0.90	3.30	14.90	7.80	523.15	13.78	2.13	1.71	0.17	
23	0.01	0.01	0.09	0.82	2.71	12.02	6.94	240.57	13.78	2.06	1.65	0.17	
24	0.01	0.01	0.09	0.82	2.49	9.44	6.94	143.51	10.11	1.99	1.52	0.14	
25	0.01	0.01	0.07	0.82	2.34	8.99	7.51	147.41	8.84	2.71	1.45	0.12	
26	0.01	0.09	0.07	0.82	2.13	9.29	9.14	100.38	8.39	3.21	0.50	0.12	
27	0.05	0.03	0.05	0.78	2.56	9.60	11.59	78.54	7.80	2.86	0.39	0.12	
28	0.03	0.03	0.05	0.70	5.67	8.99	28.33	64.58	7.22	2.71	0.36	0.12	
29	0.09	0.03	0.05	0.66	10.74	7.95	24.85	65.81	6.94	2.49	2.56	0.12	
30	0.05	0.03	0.03	0.66	9.60	6.82	13.33	49.67	6.59	2.27		0.17	
31		0.03		0.58	7.22		9.90		6.35	2.06		0.23	
Total	1.25	0.66	2.44	18.95	75.07	232.59	333.33	4052.60	527.48	108.25	79.02	19.16	5450.80 Ton
Mean	0.04	0.02	0.08	0.61	2.42	7.75	10.75	135.09	17.02	3.49	2.72	0.62	
Max	0.12	0.09	0.36	1.22	10.74	14.90	28.33	648.81	41.60	6.01	5.45	1.71	648.81
Min	0.01	0.00	0.00	0.01	0.54	4.30	6.24	7.22	6.35	1.99	0.36	0.12	0.00

WATER YEAR 1995

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 1984 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:30:42.57 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
1.33161
QS = 1.5963 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.24	3.75	5.18	4.02	5.58	32.26	20.30	30.30	154.53	26.47	12.89	5.58	
2	3.24	3.49	5.18	4.02	5.18	22.73	22.73	30.30	147.60	25.53	22.73	5.58	
3	2.98	3.49	4.78	3.75	5.18	19.70	22.12	34.25	136.23	23.98	51.79	5.58	
4	3.49	3.49	4.02	4.02	4.78	19.70	19.10	28.37	112.04	22.73	30.30	5.58	
5	3.49	3.24	5.18	4.40	4.78	24.61	17.93	27.42	100.56	21.51	31.28	4.40	
6	3.49	3.24	4.02	4.78	4.02	23.98	16.78	701.21	87.82	20.30	42.80	4.40	
7	3.24	3.24	4.02	6.41	3.75	32.26	20.90	562.54	77.27	19.10	36.65	4.40	
8	3.24	2.98	3.75	25.53	3.75	36.65	23.35	259.56	68.13	17.93	30.30	4.40	
9	3.24	2.74	3.75	26.47	4.02	37.86	22.12	262.73	62.56	17.35	23.98	3.75	
10	2.98	2.74	3.24	12.89	3.75	45.32	21.51	262.73	58.46	16.78	20.30	3.75	
11	2.98	2.74	3.24	12.89	7.26	31.28	25.53	253.23	53.11	16.20	19.10	3.75	
12	2.98	2.98	2.98	15.64	7.70	23.35	55.77	201.52	47.88	15.64	16.78	3.75	
13	2.98	2.98	3.75	15.64	5.58	20.90	45.32	173.94	45.32	14.52	15.08	3.75	
14	2.98	3.24	4.78	13.43	4.02	19.70	32.26	122.89	40.31	13.43	12.89	3.75	
15	2.98	3.24	41.55	12.39	4.02	17.93	29.33	96.87	36.65	12.39	12.39	2.98	
16	2.98	3.24	44.06	11.90	5.58	16.78	68.13	147.60	34.25	12.39	11.90	2.98	
17	2.74	2.26	23.35	9.98	4.02	17.35	44.06	1323.81	33.26	11.90	10.93	2.98	
18	2.74	2.03	17.93	9.51	3.75	19.10	29.33	1970.36	31.28	11.41	10.93	2.98	
19	2.98	2.03	12.89	17.93	3.75	33.26	27.42	1244.52	29.33	11.41	9.98	2.50	
20	2.98	2.26	11.41	12.39	4.02	61.19	24.61	906.82	28.37	10.45	8.14	2.50	
21	2.74	2.03	9.51	11.90	7.26	59.82	20.30	2763.81	86.04	9.98	8.14	2.50	
22	2.74	2.03	8.14	9.05	6.83	75.54	17.93	1454.66	276.92	9.98	9.51	2.50	
23	2.74	2.03	6.83	7.70	5.18	63.94	16.20	723.74	127.30	9.98	9.98	2.50	
24	2.74	2.26	9.98	7.26	5.58	53.11	15.64	474.63	87.82	10.45	9.51	2.03	
25	3.24	2.50	4.78	6.83	5.99	49.18	25.53	662.21	70.96	14.52	9.51	2.03	
26	3.24	2.74	4.78	5.58	7.70	49.18	50.48	437.09	57.11	16.20	9.51	2.03	
27	3.49	2.74	5.18	5.18	11.41	37.86	70.96	280.61	47.88	16.20	9.51	1.60	
28	3.49	2.74	4.78	5.58	68.13	31.28	54.44	265.92	40.31	14.52	9.51	1.60	
29	3.49	2.98	4.40	5.18	95.05	23.98	44.06	231.40	35.45	11.90	5.58	1.60	
30	3.75	5.99	4.02	5.58	66.73	22.12	36.65	178.88	30.30	10.45		1.81	
31		5.58		5.58	40.31		29.33		29.33	10.45		1.81	
Total	93.61	93.02	271.46	303.41	414.66	1021.92	970.12	16113.92	2274.38	476.05	511.90	101.35	22645.80 Ton
Mean	3.12	3.00	9.05	9.79	13.38	34.06	31.29	537.13	73.37	15.36	17.65	3.27	
Max	3.75	5.99	44.06	26.47	95.05	75.54	70.96	2763.81	276.92	26.47	51.79	5.58	2763.81
Min	2.74	2.03	2.98	3.75	3.75	16.78	15.64	27.42	28.37	9.98	5.58	1.60	1.60

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

Khlong Sadao at Ban Phrai, Songkhla (X.111)

Location	Lat. 6°39'37" N., Long. 100°26'09" E., on left bank at Ban Phrai, Amphoe Sadao, Songkhla.
Drainage Area	256 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1979 - Cont'd
Actual Measurement	1980 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1982 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:51:07.42

LQS/LQS02D/12

Station - Ban Phrai, Sadao, Songkhla, (X.111)
Stream - Khlong Sadao
River - Khlong Lam
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division
1.26783
QS = 2.7736 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.87	7.89	0.13	0.17	0.36	3.13	31.22	163.37	22.32	19.94	4.17	0.60	
2	2.70	3.27	0.10	0.15	0.55	2.77	21.67	131.72	24.75	16.75	5.03	0.60	
3	2.43	2.43	0.19	0.10	0.23	2.56	15.68	115.64	113.02	14.32	3.79	0.60	
4	1.15	1.04	0.32	0.00	0.10	3.06	10.28	94.73	140.93	11.69	3.27	0.55	
5	0.92	1.04	0.34	0.00	0.19	3.20	8.42	113.02	107.81	10.56	2.99	0.50	
6	0.45	2.22	0.36	0.76	0.71	2.77	6.51	137.07	82.82	10.00	2.70	0.45	
7	0.41	0.60	0.45	0.98	1.27	3.20	7.71	174.26	60.68	9.22	2.29	0.36	
8	0.23	0.87	0.17	1.04	1.09	2.36	48.60	167.71	41.70	8.42	2.22	0.29	
9	1.04	0.55	0.17	0.36	1.27	2.99	38.73	114.33	32.40	7.45	2.16	0.29	
10	1.33	0.55	0.36	0.98	2.02	3.06	15.52	84.40	28.61	6.85	1.83	0.29	
11	1.33	0.45	0.17	0.65	7.45	3.13	10.84	60.14	21.45	6.43	1.83	0.27	
12	1.33	0.71	0.15	0.41	9.22	2.09	10.14	47.38	18.46	6.09	1.70	0.27	
13	1.27	0.60	0.11	0.29	5.68	1.70	8.86	66.47	16.75	5.68	1.70	0.25	
14	2.84	0.50	0.11	0.25	3.42	1.83	7.62	96.81	14.62	5.27	1.83	0.23	
15	2.99	0.45	0.13	0.17	3.49	3.42	8.33	74.19	12.84	5.11	1.76	0.19	
16	4.64	0.29	1.21	0.17	3.57	8.42	12.55	53.22	11.55	4.79	1.96	0.19	
17	6.93	0.23	0.87	0.15	2.43	11.83	12.99	81.23	10.70	4.64	1.83	0.13	
18	2.56	0.13	0.81	0.11	2.29	16.59	11.26	127.21	10.42	4.40	1.64	0.27	
19	0.98	0.08	0.76	0.13	3.35	74.19	69.58	114.33	10.00	4.40	1.58	0.25	
20	1.27	0.41	0.76	0.41	5.84	119.76	191.64	83.61	9.86	4.33	1.58	0.27	
21	0.71	0.71	0.98	0.81	3.72	49.96	118.28	67.71	9.31	4.25	1.21	1.04	
22	0.34	0.76	1.33	0.98	3.57	36.59	92.81	64.00	11.69	4.17	1.27	0.55	
23	0.50	0.65	1.15	0.60	5.68	28.61	74.97	105.23	15.52	4.17	1.21	0.32	
24	0.55	0.50	0.71	0.32	4.56	31.52	44.71	94.73	17.99	4.10	1.15	0.21	
25	0.36	0.76	0.32	0.27	3.20	12.26	33.59	63.39	14.02	4.10	1.04	0.17	
26	0.50	0.65	0.25	0.21	3.94	10.14	27.23	48.60	11.83	4.10	0.92	0.17	
27	0.13	0.29	0.92	0.19	5.52	12.41	41.70	37.20	18.62	4.02	0.92	0.17	
28	0.92	0.27	0.60	0.15	8.68	67.09	27.92	29.18	41.70	3.94	0.92	0.15	
29	2.56	0.17	0.41	0.05	9.22	62.84	73.42	32.40	59.06	3.79	0.71	0.19	
30	2.09	0.25	0.25	0.06	12.26	62.30	97.86	31.22	48.15	3.72		0.15	
31		0.19		0.06	5.68		167.71		27.23	3.64		0.17	
Total	50.33	29.51	14.59	10.98	120.56	645.78	1348.35	2674.50	1066.81	210.34	57.21	10.14	6239.10 Ton
Mean	1.68	0.95	0.49	0.35	3.89	21.53	43.50	89.15	34.41	6.79	1.97	0.33	
Max	6.93	7.89	1.33	1.04	12.26	119.76	191.64	174.26	140.93	19.94	5.03	1.04	191.64
Min	0.13	0.08	0.10	0.00	0.10	1.70	6.51	29.18	9.31	3.64	0.71	0.13	0.00

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

Khlong Lam at Ban Thung Prap (1), Songkhla (X.113)

Location	Lat. 6°37′59″ N., Long. 100°23′46″ E., on right bank at Ban Thung Prap (1), Amphoe Sadao, Songkhla.
Drainage Area	129 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1979 - Cont'd
Actual Measurement	1981 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1981 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:51:12.71

LQS/LQS02D/12

Station - Ban Thung Prap 1, Sadao, Songkhla, (X.113)
Stream - Khlong Lam
River - Khlong U Taphao
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division
1.41092
QS = 6.5050 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.11	2.24	1.03	0.97	0.82	4.25	17.91	177.33	5.69	5.26	2.45	1.36	
2	9.62	4.58	1.03	0.92	0.92	2.38	15.73	62.13	48.94	4.75	2.52	1.36	
3	3.02	6.14	1.13	0.97	0.87	1.85	3.78	102.94	218.24	4.33	2.45	1.30	
4	2.11	5.17	1.13	0.97	1.13	1.66	12.63	28.09	61.24	4.17	1.91	1.30	
5	1.85	11.10	1.25	0.97	1.03	1.60	3.47	734.00	60.36	3.85	1.91	1.30	
6	1.60	2.66	1.13	0.97	1.13	1.66	2.94	478.26	18.28	3.70	1.85	1.25	
7	1.54	1.79	1.03	0.92	0.97	1.60	6.41	511.31	9.42	3.54	1.79	1.25	
8	1.48	1.60	1.03	0.92	0.92	1.98	67.32	123.16	9.01	3.47	1.72	1.25	
9	1.30	1.98	1.03	0.92	1.98	4.58	5.34	77.31	9.01	3.39	1.79	1.19	
10	1.30	2.04	1.03	0.92	3.09	2.38	5.43	26.97	6.69	3.31	1.79	1.19	
11	1.25	2.17	1.03	0.92	2.52	1.72	4.83	17.54	6.41	3.16	1.79	1.19	
12	1.13	1.72	1.08	0.92	1.85	1.60	6.50	21.33	5.96	3.09	1.79	1.13	
13	1.98	1.66	1.08	0.92	1.36	2.52	5.87	196.11	5.69	3.02	1.91	1.13	
14	6.41	1.42	1.08	0.92	4.09	2.73	3.93	47.62	5.43	2.94	1.85	1.08	
15	3.09	1.30	1.08	0.92	5.61	46.32	5.26	17.54	5.26	2.87	1.98	1.13	
16	12.96	1.25	1.08	0.92	2.38	22.50	9.22	23.70	4.92	2.66	1.91	1.03	
17	8.61	1.19	1.13	0.87	1.54	16.45	5.78	158.18	4.75	2.52	1.91	1.03	
18	4.01	1.08	1.13	0.87	1.36	419.37	4.01	115.46	4.66	2.52	1.85	1.48	
19	1.98	1.08	1.30	0.87	1.30	312.66	429.91	43.10	4.42	2.45	1.85	1.19	
20	5.87	1.13	1.19	1.13	1.42	467.38	110.19	23.70	4.58	2.31	1.72	1.13	
21	1.79	4.33	1.13	1.03	1.19	204.33	11.96	92.43	4.58	2.31	1.66	1.36	
22	2.59	1.66	1.13	0.97	2.52	26.97	235.80	22.90	8.81	2.38	1.66	1.25	
23	22.11	1.36	1.03	0.97	2.31	6.69	13.98	26.42	8.02	2.17	1.54	1.19	
24	1.85	1.19	1.03	1.72	1.60	5.00	6.69	12.40	17.91	2.04	1.54	1.03	
25	1.48	1.13	0.97	1.03	1.25	4.25	73.94	10.88	5.96	1.98	1.48	0.92	
26	1.36	1.08	1.08	0.92	4.75	4.50	5.87	9.62	6.32	1.98	1.48	0.92	
27	4.17	1.03	1.03	0.87	51.60	15.02	5.34	8.22	31.52	1.98	1.42	0.92	
28	3.62	1.03	1.03	0.87	13.98	212.64	5.09	7.06	60.36	1.98	1.36	0.87	
29	7.83	1.36	1.03	0.82	55.16	11.96	562.07	10.25	77.31	1.91	1.36	0.87	
30	17.18	1.13	0.97	0.82	4.09	5.09	451.21	6.23	9.62	1.91		0.87	
31		1.08		0.82	2.38		1163.88		6.05	1.91		0.87	
Total	137.20	69.68	32.43	29.55	177.12	1813.64	3262.29	3192.19	735.42	89.86	52.24	35.34	9626.96 Ton
Mean	4.57	2.25	1.08	0.95	5.71	60.45	105.24	106.41	23.72	2.90	1.80	1.14	
Max	22.11	11.10	1.30	1.72	55.16	467.38	1163.88	734.00	218.24	5.26	2.52	1.48	1163.88
Min	1.13	1.03	0.97	0.82	0.82	1.60	2.94	6.23	4.42	1.91	1.36	0.87	0.82

WATER YEAR 1995

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.D - 49
Period of Available Records	1985 - Cont'd
Actual Measurement	1985 - cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1986 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:51:18.20

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

1.35826
QS = 1.8261 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.93	0.83	2.03	2.34	7.54	8.19	7.32	4.30	8.42	21.20	11.36	2.23	
2	1.83	0.83	1.83	3.58	6.69	7.11	22.73	3.94	9.78	17.50	9.17	2.23	
3	1.73	0.75	1.73	2.34	6.48	6.69	17.86	4.30	29.01	14.34	9.78	2.13	
4	1.63	0.75	4.30	2.55	7.97	8.86	19.70	7.75	12.99	12.33	6.90	2.03	
5	1.83	0.67	35.02	2.88	8.42	6.27	11.03	14.68	29.01	10.72	9.78	2.03	
6	1.63	0.67	4.12	3.40	7.97	6.69	9.17	10.09	15.03	9.78	11.03	1.93	
7	1.63	0.75	10.72	2.55	8.42	5.86	8.64	136.53	13.66	8.42	8.42	1.83	
8	1.44	0.67	18.22	8.42	7.32	5.86	7.32	19.70	10.40	8.64	7.54	1.83	
9	1.35	0.75	9.47	3.75	6.07	5.66	6.90	16.78	9.47	8.19	6.48	1.83	
10	1.35	1.08	12.99	3.75	5.66	15.72	6.07	14.34	8.19	8.64	5.66	1.83	
11	1.35	32.35	11.36	3.05	4.87	7.32	5.26	10.72	7.11	10.72	5.07	1.73	
12	1.26	4.49	12.00	4.12	4.49	7.11	4.68	8.86	6.27	11.03	4.87	1.73	
13	5.26	2.77	7.97	9.47	4.87	8.42	4.49	8.64	5.86	8.19	4.49	1.54	
14	2.45	2.55	8.19	5.26	4.87	6.48	4.12	21.96	5.26	6.90	4.30	1.44	
15	2.03	2.13	6.90	7.75	30.41	5.46	4.49	15.03	4.68	6.07	3.75	1.44	
16	1.83	2.23	9.47	5.07	20.82	4.87	6.90	21.20	4.49	5.66	3.75	1.63	
17	1.44	1.73	6.69	11.36	46.84	5.07	4.87	23.60	4.12	5.07	3.75	1.54	
18	1.26	1.54	5.46	37.20	62.32	4.68	4.30	25.37	3.75	4.87	3.58	1.44	
19	1.26	1.44	6.07	10.72	22.34	4.49	6.27	26.72	4.12	4.68	3.22	1.44	
20	1.08	1.35	5.26	12.00	15.72	4.30	4.30	20.44	5.66	4.30	3.75	1.35	
21	1.00	1.26	10.09	28.55	17.14	3.75	3.75	18.22	10.40	4.30	3.75	1.35	
22	0.91	1.17	5.46	18.22	14.00	3.40	3.58	13.66	26.27	3.75	3.40	1.35	
23	0.91	11.68	4.49	14.34	21.20	3.22	3.22	12.66	23.16	3.75	3.40	1.26	
24	0.91	12.00	4.12	11.36	20.07	2.88	3.40	405.48	18.96	3.58	3.05	1.26	
25	0.83	6.27	3.58	10.09	22.73	2.77	3.75	36.66	17.86	4.68	2.77	1.73	
26	0.75	3.94	3.40	7.97	14.34	18.59	3.40	22.73	16.78	3.75	2.66	2.34	
27	0.83	3.22	3.05	7.75	11.68	6.27	3.05	16.78	17.86	4.87	2.55	1.83	
28	0.83	2.55	2.66	11.03	10.40	9.17	5.86	13.66	119.86	3.94	2.34	1.73	
29	1.17	3.58	2.55	19.32	37.81	9.17	4.12	11.03	80.50	9.17	2.34	1.63	
30	0.91	2.55	2.45	10.09	13.66	8.19	4.49	9.17	41.50	11.03		1.63	
31		2.23		10.40	9.78		5.66		30.41	6.27		1.54	
Total	44.62	110.78	221.65	290.68	482.90	202.52	210.70	975.00	600.84	246.34	152.91	52.83	3591.77 Ton
Mean	1.49	3.57	7.39	9.38	15.58	6.75	6.80	32.50	19.38	7.95	5.27	1.70	
Max	5.26	32.35	35.02	37.20	62.32	18.59	22.73	405.48	119.86	21.20	11.36	2.34	405.48
Min	0.75	0.67	1.73	2.34	4.49	2.77	3.05	3.94	3.75	3.58	2.34	1.26	0.67

WATER YEAR 1995

SOUTHERN PENINSULA WEST COAST

Khlong Palian at Ban Lam Khlaeng(2), Trang (X.139)

Location	Lat. 7°19'08" N., Long. 99°49'03" n., on right bank at Ban Lam Khlaeng(2), Amphoe Palian, Trang.
Drainage Area	153 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1986 - Cont'd
Actual Measurement	1986 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1986 - 1995

RID Computer Center, Processing : 26-JUN-1997 13:51:24.74 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

QS = 0.4524 QW^1.82728

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.62	2.01	2.01	2.52	12.25	35.88	33.23	34.10	43.52	11.81	24.37	4.89	
2	3.62	1.90	2.12	2.52	7.95	28.21	26.62	122.07	40.50	11.38	10.54	4.70	
3	3.13	1.90	2.12	2.52	7.95	23.67	29.02	66.91	40.50	10.95	7.36	4.51	
4	2.97	2.12	3.13	5.49	7.65	20.96	29.84	76.24	34.10	10.54	7.07	4.51	
5	2.82	2.12	20.31	3.62	16.59	19.03	34.99	64.23	37.70	10.13	6.50	4.33	
6	2.52	2.01	5.70	3.62	45.77	20.96	37.70	42.42	28.21	10.13	6.23	4.33	
7	2.38	2.01	3.79	2.97	43.52	174.96	27.41	51.61	25.84	9.73	5.70	4.33	
8	2.38	2.01	3.62	2.82	59.03	103.96	25.84	74.64	23.67	9.33	5.70	4.14	
9	2.38	2.01	2.97	2.67	29.84	45.77	48.07	50.41	21.63	8.95	5.49	4.14	
10	2.38	2.12	3.45	2.52	134.86	32.37	37.70	35.88	20.31	8.57	5.29	3.96	
11	2.24	2.24	19.67	2.52	34.10	25.07	31.52	31.52	19.67	8.26	5.29	3.79	
12	3.29	2.52	7.07	2.52	25.84	22.30	32.37	31.52	18.41	10.54	5.29	3.79	
13	3.45	2.67	4.51	3.29	20.31	22.98	31.52	56.51	17.79	8.57	5.09	3.79	
14	2.67	2.24	4.70	3.62	23.67	32.37	31.52	39.55	16.59	8.26	5.09	3.79	
15	2.38	2.01	3.96	3.79	29.02	64.23	52.81	43.52	15.43	7.95	4.89	3.45	
16	2.52	1.90	3.62	2.97	29.84	96.53	174.96	146.42	15.43	7.36	4.89	3.45	
17	2.38	1.79	3.96	2.82	33.23	275.04	81.10	315.44	13.76	7.36	4.89	3.45	
18	2.24	1.79	5.09	2.67	24.37	400.11	51.61	132.69	13.22	7.07	4.70	3.62	
19	2.12	1.79	9.73	2.67	30.68	982.71	45.77	213.24	12.69	6.78	4.70	3.79	
20	2.12	2.24	4.89	3.29	98.31	2506.04	44.64	100.12	14.31	6.78	4.70	3.62	
21	2.12	2.01	4.14	2.67	200.53	575.51	35.88	89.52	19.03	6.50	4.70	3.62	
22	2.12	2.01	3.62	2.52	148.92	194.31	49.23	76.24	56.51	6.50	4.70	3.45	
23	2.12	4.33	3.29	2.52	117.93	128.39	29.84	59.03	36.78	6.23	4.70	3.45	
24	2.12	3.29	3.13	3.62	62.92	87.81	26.62	45.77	19.67	6.23	4.70	3.29	
25	2.12	2.97	2.97	3.96	39.55	66.91	25.07	41.45	15.43	6.50	4.70	3.29	
26	2.01	2.52	2.97	3.79	35.88	60.32	23.67	36.78	15.43	6.50	4.89	3.13	
27	1.90	2.24	2.97	3.13	105.91	48.07	22.98	49.23	13.22	6.50	4.89	2.97	
28	2.38	2.52	2.82	2.82	240.83	46.91	29.02	62.92	16.01	6.50	4.89	2.97	
29	2.67	2.24	2.67	2.67	146.42	43.52	25.07	41.45	15.43	6.50	4.89	3.13	
30	2.12	2.12	2.52	9.33	60.32	35.88	29.84	34.99	13.76	6.23		2.97	
31		2.01		40.50	61.61		66.91		13.22	5.96		2.97	
Total	75.29	69.66	147.52	138.96	1935.60	6220.78	1272.37	2266.42	707.77	250.60	176.84	115.62	13377.43 Ton
Mean	2.51	2.25	4.92	4.48	62.44	207.36	41.04	75.55	22.83	8.08	6.10	3.73	
Max	3.62	4.33	20.31	40.50	240.83	2506.04	174.96	315.44	56.51	11.81	24.37	4.89	2506.04
Min	1.90	1.79	2.01	2.52	7.65	19.03	22.98	31.52	12.69	5.96	4.70	2.97	1.79

WATER YEAR 1995

SOUTHERN PENINSULA EAST COAST

Khlong Chandi at Ban Chandi Nua, Nakhon Si Thammarat (X.163)

Location	Lat. 8°-20'-34" N., Long. 99°-37'-12" E., on left bank at the bridge on road near Wat Manao Wan, Amphoe Chawang, Nakhon Si Thammarat.
Drainage Area	97 sq.k.m.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1991 - Cont'd
Actual Measurement	1991 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1989 - 1995

RID Computer Center, Processing : 15-JUL-1997 09:30:50.22

LQS/LQS02D/12

Station - Ban Chandi Nua, Chawang, Nakhon Si Thammarat, (X.163)
Stream - Khlong Chandi
River - Tapi
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division
1.47522
QS = 1.5718 QW

Water Year - 1995

Suspended Sediment, in Tons per Day, Water Year April 1, 1995 to March 31, 1996

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.84	4.05	3.77	4.34	4.93	41.51	18.92	12.60	74.54	15.66	1.13	2.01	
2	6.51	3.77	4.63	3.50	5.54	28.39	17.59	13.19	103.06	13.19	1.46	2.24	
3	5.86	4.05	12.02	4.34	4.63	31.81	15.03	12.02	69.14	13.19	2.24	2.24	
4	6.18	3.77	18.25	5.54	4.93	26.18	16.29	12.02	54.04	13.80	2.97	2.24	
5	5.86	3.77	6.84	29.51	4.63	25.09	13.80	35.35	62.95	13.19	4.05	2.24	
6	5.54	3.50	5.54	10.32	4.93	31.81	14.41	28.39	52.59	13.19	5.23	2.01	
7	5.54	3.23	5.54	5.86	6.18	26.18	14.41	67.57	44.20	12.60	4.34	1.78	
8	5.54	4.63	5.23	4.93	7.68	24.03	14.41	22.97	37.78	12.02	3.77	1.57	
9	5.23	2.97	4.93	4.93	6.84	31.81	13.80	30.65	34.15	12.02	2.72	1.57	
10	5.23	3.23	6.51	4.63	37.78	39.01	11.44	18.92	32.97	12.02	3.50	1.57	
11	4.93	3.23	8.70	4.34	16.29	27.27	12.60	17.59	29.51	12.02	3.23	1.46	
12	4.93	3.23	6.84	4.34	16.94	32.97	11.44	16.94	26.18	12.60	2.24	1.46	
13	5.23	6.84	5.54	4.63	15.66	31.81	11.44	22.97	24.03	12.02	3.50	1.46	
14	4.93	4.93	11.44	4.05	7.68	32.97	11.44	22.97	22.97	11.44	2.01	1.46	
15	4.63	3.77	6.51	5.23	66.02	39.01	15.03	19.91	24.03	10.32	1.24	1.35	
16	5.86	3.23	5.86	4.63	22.97	37.78	42.85	67.57	24.03	8.70	1.24	1.35	
17	4.63	3.23	10.32	4.63	26.18	27.27	20.91	86.40	22.97	7.18	1.24	1.35	
18	4.34	2.97	7.68	6.18	21.93	44.20	17.59	240.20	20.91	6.18	1.03	1.24	
19	4.05	2.97	8.18	6.18	17.59	41.51	18.92	240.20	30.65	6.51	0.83	1.24	
20	4.05	3.77	7.18	7.18	32.97	44.20	16.94	174.28	21.93	4.63	0.65	1.13	
21	3.77	4.34	5.86	40.26	48.34	35.35	15.03	2295.81	103.06	4.05	0.83	1.13	
22	3.77	4.05	5.23	13.19	52.59	36.56	16.29	1510.10	37.78	3.23	0.74	1.03	
23	3.77	3.77	4.93	8.18	52.59	26.18	13.80	789.91	25.09	2.47	0.74	1.03	
24	3.77	4.05	4.63	6.51	58.44	24.03	12.60	236.46	22.97	2.01	0.57	1.03	
25	4.34	4.05	4.93	6.18	42.85	30.65	12.60	161.75	20.91	1.57	0.48	1.03	
26	3.77	9.77	4.34	5.54	31.81	32.97	10.87	129.47	19.91	1.24	0.48	1.13	
27	4.34	11.44	4.05	4.93	51.16	37.78	12.02	100.92	19.91	0.93	0.48	1.03	
28	5.86	5.23	4.05	4.93	41.51	29.51	14.41	145.32	18.25	0.74	0.20	1.03	
29	6.18	4.05	4.05	4.34	34.15	24.03	19.91	103.06	17.59	0.57	0.15	1.03	
30	4.34	4.05	4.05	6.84	30.65	20.91	16.94	88.43	18.25	0.41		1.03	
31		3.77		5.54	28.39		19.91		16.94	0.74		1.03	
Total	149.82	133.71	197.63	235.73	804.78	962.78	493.64	6723.94	1133.29	240.44	53.29	44.50	11173.55 Ton
Mean	4.99	4.31	6.59	7.60	25.96	32.09	15.92	224.13	36.56	7.76	1.84	1.44	
Max	6.84	11.44	18.25	40.26	66.02	44.20	42.85	2295.81	103.06	15.66	5.23	2.24	2295.81
Min	3.77	2.97	3.77	3.50	4.63	20.91	10.87	12.02	16.94	0.41	0.15	1.03	0.15