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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 36 volumes of yearbooks presenting streamflow data as early as 1912 up to 1993 totalling 7,148 station-years of record had been published.

This Volume 37 which is the thirty-seventh issues of the series was prepared by the Data Processing and statistic Branch. It consists record, during 1994 water year, of stage and discharge of 155 streams at 224 currently calibrating sites.

Hydrology Division

August 1996

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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.Visal Maitreeyuenyong, 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 complete issue of Thailand Hydrological yearbook Volume 37.

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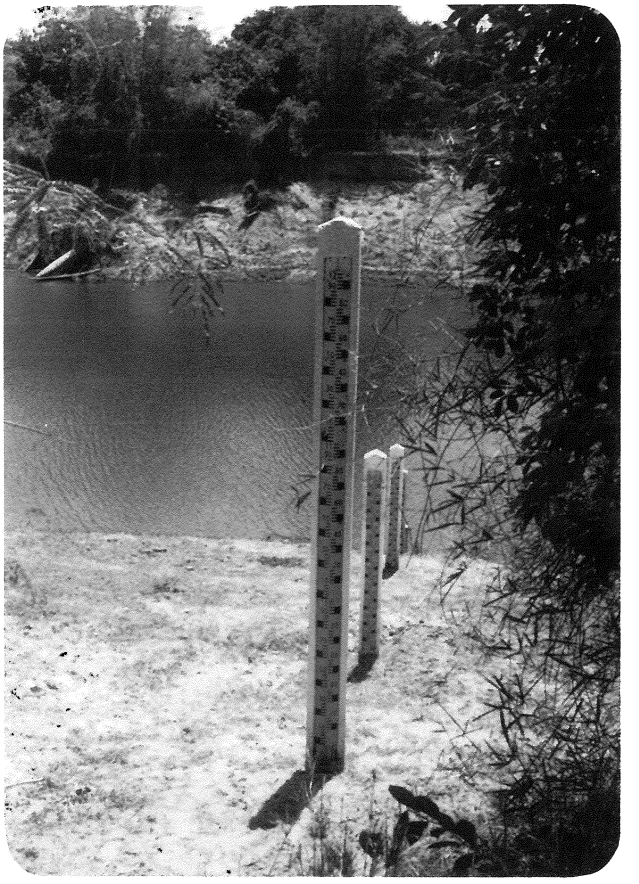


Fig. 1 Typical vertical staff gage

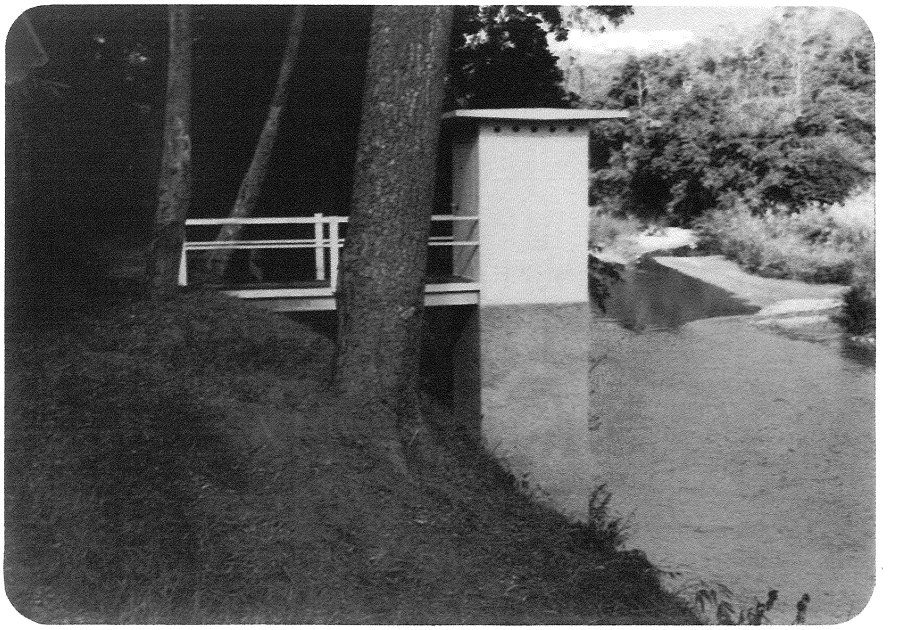


Fig. 2 Typical shelter for water level recorder (Float Type)



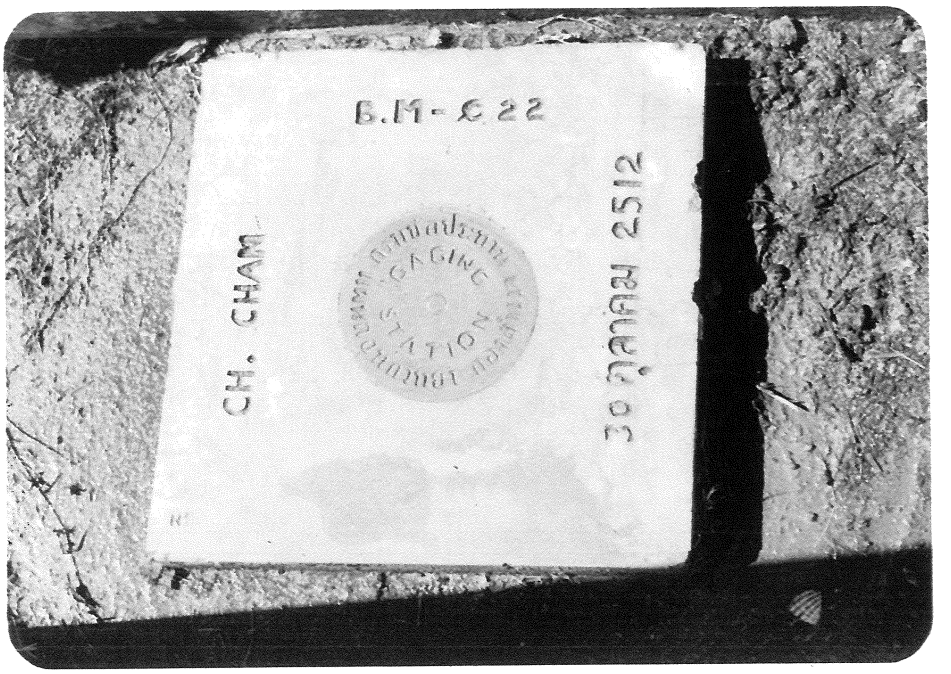


Fig. 3 Standard bench mark



Fig. 4 Close - up of rating operation

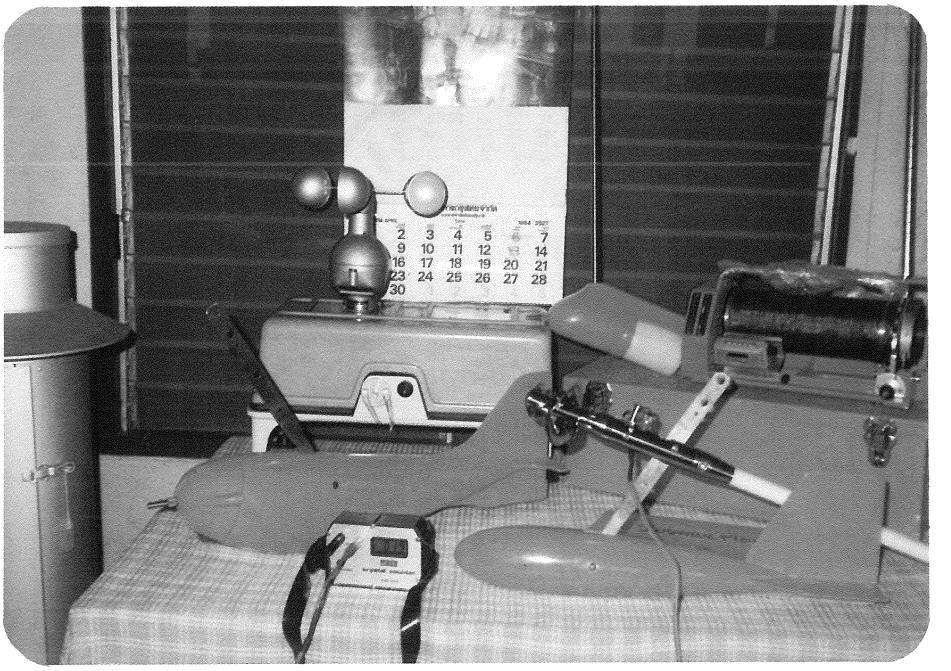


Fig. 5 Standard hydrologic equipment

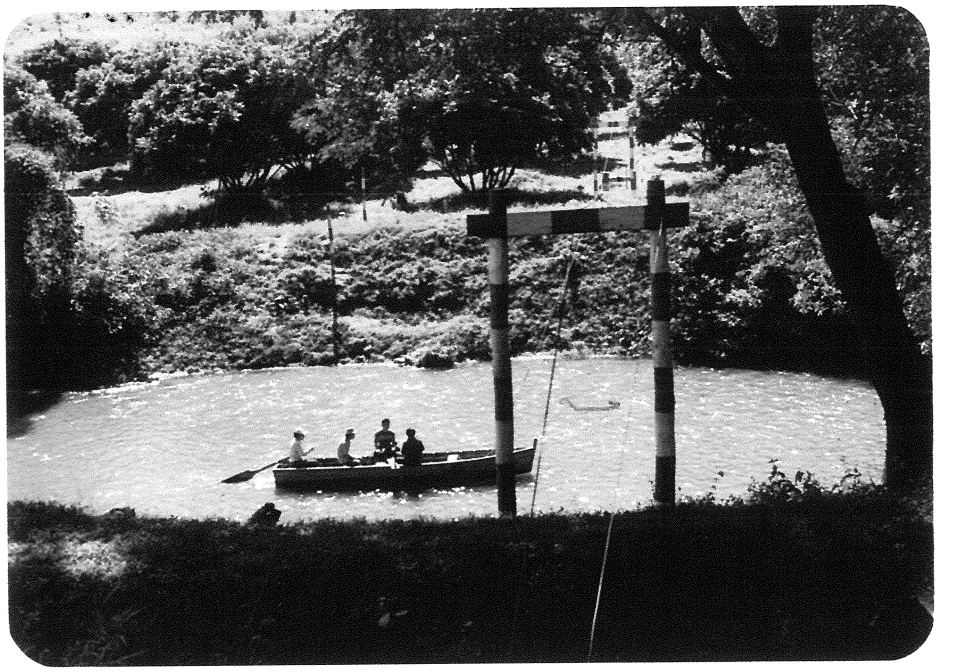


Fig. 6 Measuring line



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

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

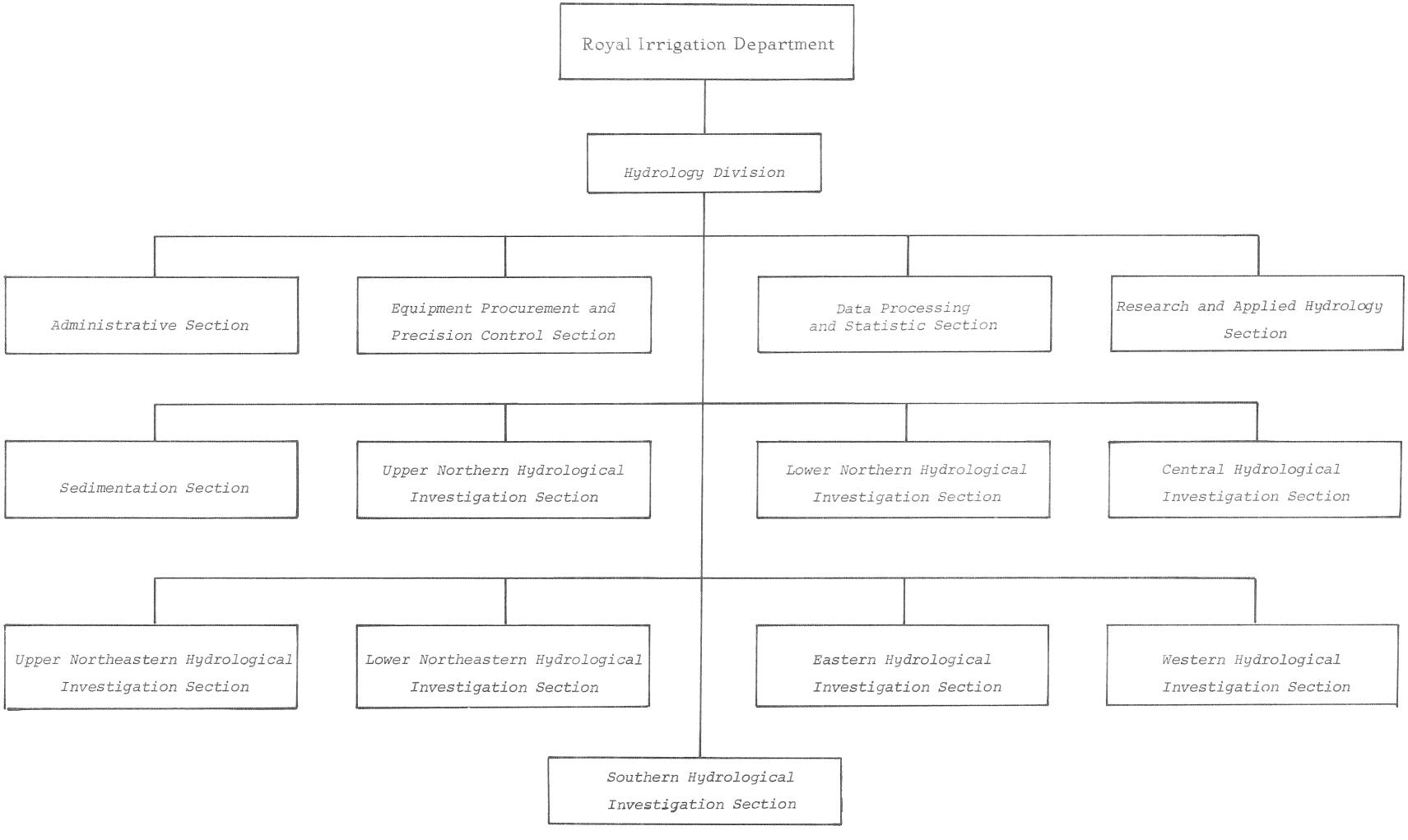
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement 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 LowerMekongCommittee. During the period of November 1958 - Mary 1962, seven hydrologic stations were installed and operated by the Harza Engineering Company contracted by the Agency for International Development of the United States Government. At present the NEA operates about 90 discharge stations and 140 stage stations. A series of yearbooks has also been published.

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

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

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

UNITS OF MEASURE AND CONVERSION FACTORS

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

Multiply metric or Thai units	By	To obtain English units
	Length	
millimeters (mm)	.03973	inches (in)
meters (m)	39.73	inches (in)
	3.2808	feet (ft)
	1.0936	yards (yd)
	.1988	rods
kilometers (km)	.6214	miles (mi)
	Area	
square meters (m^2)	10.76	square feet (ft^2)
	1.196	square yards (yd^2)
	2.47×10^{-4}	acres
rai (1,600 m^2-Thai)	.3952	acres
hectares (ha)	2.4709	acres
square hectometers (hm^2)	2.4709	acres
square kilometers (km^2)	247.1	acres
	.3861	square miles (mi^2)
	Volume	
liters (l)	.2642	gallons (gal)
cubic decimeters (dm^3)	.2642	gallons (gal)
	.03531	cubic feet (ft^3)
cubic meters (m^3)	264.2	gallons (gal)
	2.642×10^{-4}	million gallons (10^6 gal)
	35.31	cubic feet (ft^3)
	4.086×10^{-4}	cfs-day (ft^3/s-day)
	8.11×10^{-4}	acre-feet (acre-ft)
cubic hectometers (hm^3)	264.2	million gallons (10^6 gal)
	408.6	cfs-day (ft^3/s-day)
	811	acre-feet (acre-ft)
million cubic meters (mcm)	811	acre-feet (acre-ft)
cubic kilometers (km^3)	811×10^3	acre-feet (acre-ft)
	Flow	
liters per second (l/s)	.03531	cubic feet per second (ft^3/s)
	15.85	gallons per minute (gpm)
cubic decimeters per second (dm^3/s)	.03531	cubic feet per second (ft^3/s)
	15.85	gallons per minute (gpm)
	22.82×10^{-3}	million gallons per day (mgd)

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

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Stream Gaging Data

Water Year **1994**

WATER YEAR 1994

PING RIVER BASIN

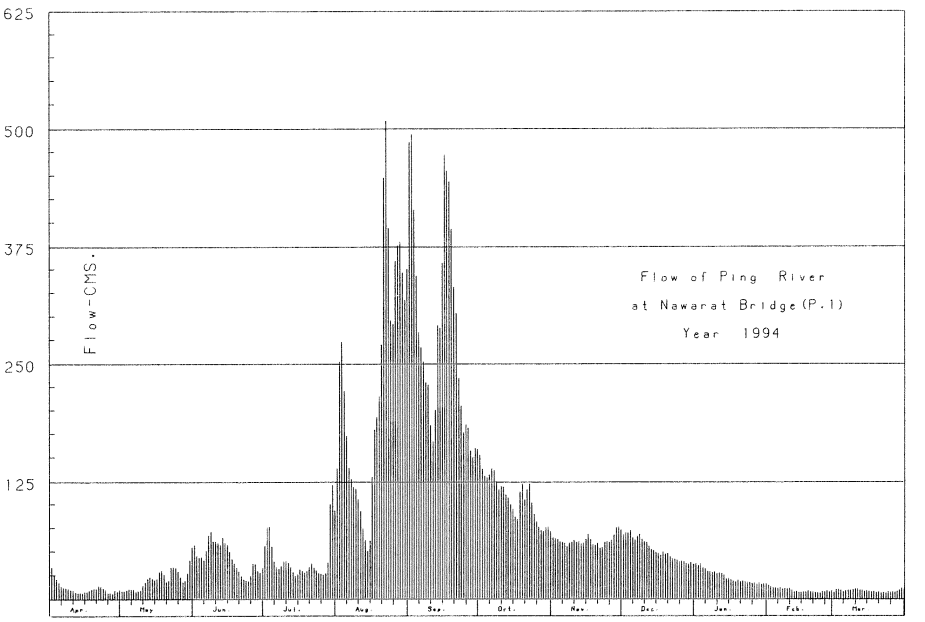
Ping River at Nawarat Bridge, Chiang Mai (P.1)

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	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Mae Ngat Dam and Mae Taeng Weir above gage site. The local weir situated about 700 meters downstream from the gage site. Stage-discharge relation defined by 50 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.79	301.53	301.96	301.95	302.53	304.71	302.64	302.01	302.03	301.82	301.62	301.51	
2	301.72	301.52	301.88	302.08	303.32	304.76	302.53	302.00	302.04	301.81	301.60	301.55	
3	301.68	301.55	301.87	302.08	303.45	304.30	302.47	302.00	302.04	301.82	301.59	301.56	
4	301.65	301.56	301.87	301.95	303.12	303.89	302.46	301.98	302.06	301.79	301.58	301.54	
5	301.61	301.56	301.85	301.84	302.79	303.51	302.48	301.98	302.01	301.78	301.58	301.52	
6	301.58	301.55	301.92	301.79	302.54	303.41	302.53	301.97	301.99	301.76	301.58	301.53	
7	301.58	301.52	302.02	301.78	302.45	303.32	302.52	301.95	302.02	301.75	301.57	301.55	
8	301.56	301.52	302.05	301.80	302.38	303.18	302.43	301.97	302.03	301.75	301.57	301.54	
9	301.55	301.54	301.98	301.84	302.37	303.16	302.36	301.98	302.00	301.75	301.57	301.56	
10	301.53	301.61	301.98	301.84	302.28	302.87	302.39	301.99	301.98	301.74	301.58	301.57	
11	301.51	301.65	301.97	301.83	302.19	302.75	302.38	301.98	301.98	301.74	301.54	301.56	
12	301.50	301.69	301.96	301.79	302.07	302.98	302.32	301.98	301.95	301.74	301.52	301.55	
13	301.48	301.70	302.01	301.75	301.99	303.56	302.29	301.97	301.93	301.72	301.52	301.54	
14	301.49	301.69	301.97	301.71	301.92	303.54	302.24	301.97	301.92	301.69	301.51	301.53	
15	301.51	301.67	301.96	301.73	301.99	303.97	302.20	302.00	301.91	301.69	301.50	301.53	
16	301.52	301.68	301.91	301.77	302.46	304.64	302.15	302.03	301.90	301.68	301.51	301.52	
17	301.53	301.75	301.86	301.76	302.84	304.54	302.13	302.00	301.89	301.66	301.52	301.52	
18	301.56	301.76	301.82	301.74	302.93	304.48	302.34	301.96	301.91	301.66	301.53	301.52	
19	301.56	301.73	301.79	301.76	303.08	304.18	302.41	301.96	301.90	301.67	301.52	301.51	
20	301.57	301.65	301.75	301.79	303.43	303.81	302.28	301.97	301.90	301.66	301.51	301.51	
21	301.61	301.66	301.71	301.82	304.50	303.64	302.36	301.94	301.88	301.66	301.51	301.50	
22	301.60	301.79	301.68	301.79	304.84	303.21	302.41	301.94	301.86	301.66	301.49	301.50	
23	301.58	301.79	301.66	301.76	304.19	303.01	302.25	301.98	301.86	301.65	301.50	301.50	
24	301.54	301.79	301.66	301.74	303.59	302.82	302.17	301.98	301.85	301.65	301.52	301.51	
25	301.49	301.75	301.71	301.73	303.57	302.88	302.12	301.98	301.84	301.64	301.52	301.51	
26	301.48	301.70	301.82	301.72	303.98	302.85	302.08	301.99	301.84	301.64	301.53	301.51	
27	301.47	301.65	301.82	301.74	304.08	302.68	302.06	302.03	301.84	301.63	301.52	301.51	
28	301.53	301.66	301.76	301.83	304.10	302.62	302.05	302.08	301.82	301.64	301.53	301.52	
29	301.52	301.74	301.74	302.24	303.91	302.70	302.08	302.08	301.82	301.63		301.55	
30	301.54	301.85	301.79	302.40	303.73	302.69	302.08	302.06	301.83	301.63		301.57	
31		301.94		302.19	303.93		302.05		301.82	301.63		301.56	
Mean	301.56	301.67	301.86	301.86	303.11	303.49	302.30	301.99	301.92	301.70	301.54	301.53	
Max	301.79	301.94	302.05	302.40	304.84	304.76	302.64	302.08	302.06	301.82	301.62	301.57	304.84
Min	301.47	301.52	301.66	301.71	301.92	302.62	302.05	301.94	301.82	301.63	301.49	301.50	301.47

Annual Max Momentary Gage Height 304.93 M (MSL), at 5.00 Hours, on Aug 22, 1994
Zero Gage at Bottom Elevation 300.50 M (MSL), River Bed 299.37 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.82	9.16	58.14	56.55	138.90	485.80	153.20	66.05	69.15	37.72	15.44	7.92	
2	25.56	8.54	45.88	76.90	253.20	494.80	138.90	64.50	70.70	36.36	13.50	10.40	
3	21.26	10.40	44.52	76.90	274.00	414.00	131.10	64.50	70.70	37.72	12.88	11.02	
4	18.35	11.02	44.52	56.55	222.00	344.40	129.80	61.32	73.80	33.82	12.26	9.78	
5	14.47	11.02	41.80	40.44	173.60	283.60	132.40	61.32	66.05	32.64	12.26	8.54	
6	12.26	10.40	51.78	33.82	140.20	267.60	138.90	59.73	62.91	30.28	12.26	9.16	
7	12.26	8.54	67.60	32.64	128.50	253.20	137.60	56.55	67.60	29.10	11.64	10.40	
8	11.02	8.54	72.25	35.00	119.40	231.00	125.90	59.73	69.15	29.10	11.64	9.78	
9	10.40	9.78	61.32	40.44	118.10	228.00	116.80	61.32	64.50	29.10	11.64	11.02	
10	9.16	14.47	61.32	40.44	106.40	184.80	120.70	62.91	61.32	27.92	12.26	11.64	
11	7.92	18.35	59.73	39.08	94.40	168.00	119.40	61.32	61.32	27.92	9.78	11.02	
12	7.30	22.23	58.14	33.82	75.35	201.00	111.60	61.32	56.55	27.92	8.54	10.40	
13	6.74	23.20	66.05	29.10	62.91	291.60	107.70	59.73	53.37	25.56	8.54	9.78	
14	7.02	22.23	59.73	24.38	51.78	288.40	101.20	59.73	51.78	22.23	7.92	9.16	
15	7.92	20.29	58.14	26.74	62.91	357.90	96.00	64.50	50.19	22.23	7.30	9.16	
16	8.54	21.26	50.19	31.46	129.80	473.20	88.00	69.15	48.60	21.26	7.92	8.54	
17	9.16	29.10	43.16	30.28	180.60	455.20	84.80	64.50	47.24	19.32	8.54	8.54	
18	11.02	30.28	37.72	27.92	193.50	444.60	114.20	58.14	50.19	19.32	9.16	8.54	
19	11.02	26.74	33.82	30.28	216.00	393.60	123.30	58.14	48.60	20.29	8.54	7.92	
20	11.64	18.35	29.10	33.82	270.80	331.60	106.40	59.73	48.60	19.32	7.92	7.92	
21	14.47	19.32	24.38	37.72	448.00	304.40	116.80	54.96	45.88	19.32	7.92	7.30	
22	13.50	33.82	21.26	33.82	509.20	235.60	123.30	54.96	43.16	19.32	7.02	7.30	
23	12.26	33.82	19.32	30.28	395.30	205.50	102.50	61.32	43.16	18.35	7.30	7.30	
24	9.78	33.82	19.32	27.92	296.40	177.80	91.20	61.32	41.80	18.35	8.54	7.92	
25	7.02	29.10	24.38	26.74	293.20	186.20	83.20	61.32	40.44	17.38	8.54	7.92	
26	6.74	23.20	37.72	25.56	359.60	182.00	76.90	62.91	40.44	17.38	9.16	7.92	
27	6.46	18.35	37.72	27.92	376.60	158.40	73.80	69.15	40.44	16.41	8.54	7.92	
28	9.16	19.32	30.28	39.08	380.00	150.60	72.25	76.90	37.72	17.38	9.16	8.54	
29	8.54	27.92	27.92	101.20	347.70	161.00	76.90	76.90	37.72	16.41		10.40	
30	9.78	41.80	33.82	122.00	318.80	159.70	76.90	73.80	39.08	16.41		11.64	
31		54.96		94.40	351.10		72.25		37.72	16.41		11.02	
Total	354.55	669.33	1321.03	1363.20	7088.25	8513.50	3343.90	1887.73	1639.88	742.25	276.12	285.82	27485.56 CMSDAY
Mean	11.82	21.59	44.03	43.97	228.65	283.78	107.87	62.92	52.90	23.94	9.86	9.22	75.30 CMS
Max	33.82	54.96	72.25	122.00	509.20	494.80	153.20	76.90	73.80	37.72	15.44	11.64	509.20 CMS
Min	6.46	8.54	19.32	24.38	51.78	150.60	72.25	54.96	37.72	16.41	7.02	7.30	6.46 CMS
Runoff	30.633	57.830	114.137	117.780	612.425	735.567	288.913	163.100	141.686	64.130	23.857	24.695	2374.752 MCM

Momentary Peak 525.40 CMS, at 304.93 M (MSL), at 5.00 Hours, on Aug 22, 1994
Runoff Yield 11.85 Liters/Second/Square KM, Momentary Peak Yield 82.68 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

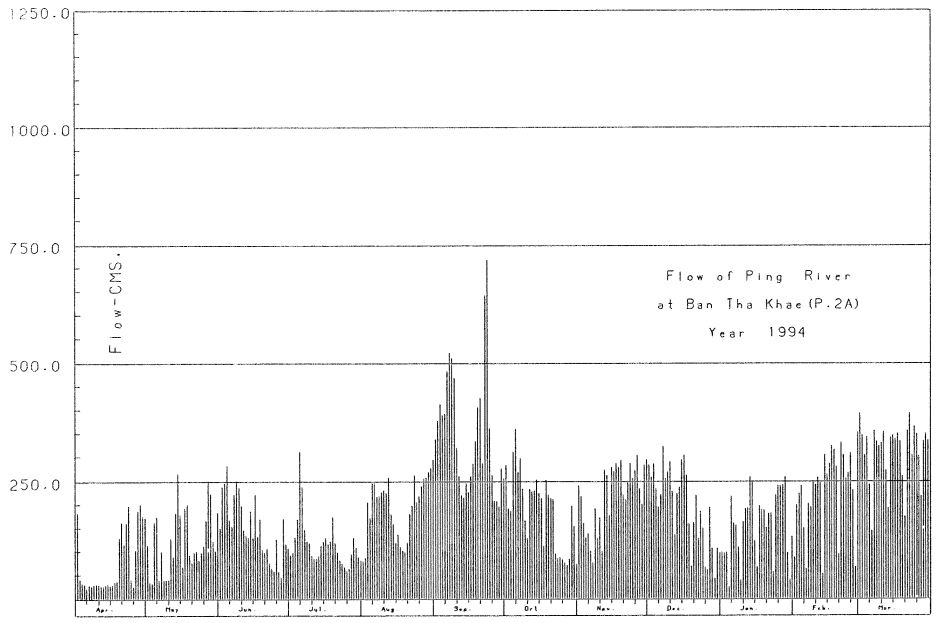
Ping River at Ban Tha Khae, Tak (P.2A)

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 52 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.09	104.83	104.97	104.73	104.67	105.55	105.40	105.27	105.40	104.76	104.71	105.69	
2	104.46	104.41	105.26	104.76	104.71	105.65	105.12	105.20	105.33	104.76	105.14	105.57	
3	104.39	104.40	105.29	104.89	105.16	105.74	105.10	105.01	105.41	104.76	105.22	105.46	
4	104.38	105.01	105.40	105.04	105.05	105.68	105.48	104.89	105.25	104.33	105.27	105.56	
5	104.28	105.06	105.03	105.48	105.29	105.69	105.61	104.93	105.13	105.20	104.97	105.28	
6	104.36	104.44	104.98	105.26	105.29	105.90	105.36	104.78	105.21	105.01	104.59	104.95	
7	104.34	104.77	105.21	104.96	105.20	105.99	105.44	104.65	105.51	104.99	105.15	105.60	
8	104.36	104.45	105.30	104.86	105.20	105.96	105.25	105.12	105.32	104.81	105.13	105.54	
9	104.38	104.44	105.26	104.85	105.23	105.87	105.03	104.89	105.36	104.44	105.30	105.51	
10	104.36	104.45	105.14	104.73	105.24	105.50	104.89	105.05	105.42	105.02	105.28	105.53	
11	104.34	104.88	104.95	104.69	105.22	105.33	105.25	104.77	105.23	105.12	105.33	105.59	
12	104.33	104.71	104.91	104.70	105.32	105.21	105.23	105.37	104.92	105.12	105.29	105.37	
13	104.37	105.09	104.89	104.72	105.08	105.19	105.24	105.34	105.22	105.33	104.53	105.12	
14	104.37	105.35	105.10	104.82	105.00	105.29	105.31	105.07	105.26	105.30	105.46	105.56	
15	104.35	105.07	104.89	104.86	104.85	105.23	105.22	105.39	105.43	104.86	105.34	105.57	
16	104.36	104.61	105.21	104.89	104.92	105.33	105.19	105.36	105.46	104.61	105.41	105.55	
17	104.42	105.12	104.90	104.84	104.81	105.41	104.82	105.41	105.34	105.14	105.51	105.58	
18	104.42	105.15	105.04	104.86	104.78	105.54	105.31	105.39	105.00	105.11	105.49	105.54	
19	104.89	104.73	104.79	105.06	104.76	105.72	105.21	105.43	104.62	105.11	105.39	105.33	
20	105.01	104.65	104.76	104.85	104.85	105.77	105.19	105.21	105.01	104.97	104.74	105.06	
21	104.83	104.76	104.80	104.76	105.08	105.41	105.18	105.18	105.21	105.08	105.53	105.60	
22	105.01	104.77	104.65	104.68	105.14	106.24	104.75	105.30	104.89	105.09	105.46	105.69	
23	105.14	104.68	104.59	104.64	105.34	106.38	104.70	105.41	105.10	104.55	105.32	105.46	
24	104.45	104.76	104.56	104.61	105.16	105.61	104.71	105.32	104.97	105.21	105.35	105.62	
25	104.33	104.82	104.88	104.56	105.20	105.34	104.69	105.37	104.61	105.27	105.47	105.58	
26	104.78	105.03	104.55	104.59	105.27	105.17	104.65	105.46	104.57	105.27	105.24	105.45	
27	105.10	105.30	104.49	104.74	105.32	105.17	104.63	105.25	105.13	105.28	104.61	105.20	
28	105.15	105.22	105.04	104.89	105.32	105.13	104.69	105.15	104.80	105.33	105.59	105.54	
29	105.06	104.86	104.84	104.81	105.36	105.38	105.14	105.40	104.47	104.76		105.58	
30	105.05	104.78	104.80	104.71	105.38	105.32	104.98	105.43	104.80	104.46		105.54	
31		105.09		104.68	105.43		104.64		104.76	104.90		105.53	
Mean	104.61	104.83	104.95	104.82	105.12	105.56	105.08	105.19	105.10	104.97	105.21	105.48	
Max	105.15	105.35	105.40	105.48	105.43	106.38	105.61	105.46	105.51	105.33	105.59	105.69	106.38
Min	104.28	104.40	104.49	104.56	104.67	105.13	104.63	104.65	104.47	104.33	104.53	104.95	104.28

Annual Max Momentary Gage Height 106.61 M (MSL), at 7.00 Hours, on Sep 23, 1994
Zero Gage at Bottom Elevation 104.00 M (MSL), River Bed 103.62 M (MSL)
Left Bank Elevation 109.63 M (MSL)
Right Bank Elevation 109.34 M (MSL), Drainage Area 38862 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.3	115.5	151.9	93.3	81.0	340.5	285.0	241.4	285.0	99.6	89.1	394.1	
2	43.0	35.5	238.2	99.6	89.1	378.5	193.4	219.0	261.2	99.6	199.8	347.9	
3	33.0	34.0	247.8	130.5	206.2	415.2	187.0	162.7	288.7	99.6	225.4	307.2	
4	32.0	162.7	285.0	170.8	173.5	390.2	314.6	130.5	235.0	27.0	241.4	344.2	
5	22.2	176.2	168.1	314.6	247.8	394.1	362.9	141.1	196.6	219.0	151.9	244.6	
6	30.0	40.0	154.6	238.2	247.8	484.0	271.4	103.8	222.2	162.7	65.2	146.5	
7	28.0	101.7	222.2	149.2	219.0	524.5	299.8	77.0	325.7	157.3	203.0	359.0	
8	30.0	41.5	251.0	123.0	219.0	511.0	235.0	193.4	257.8	110.5	196.6	336.8	
9	32.0	40.0	238.2	120.5	228.6	471.1	168.1	130.5	271.4	40.0	251.0	325.7	
10	30.0	41.5	199.8	93.3	231.8	322.0	130.5	173.5	292.4	165.4	244.6	333.1	
11	28.0	128.0	146.5	85.0	225.4	261.2	235.0	101.7	228.6	193.4	261.2	355.3	
12	27.0	89.1	135.7	87.0	257.8	222.2	228.6	274.8	138.4	193.4	247.8	274.8	
13	31.0	184.3	130.5	91.2	181.6	215.8	231.8	264.6	225.4	261.2	54.4	193.4	
14	31.0	268.0	187.0	113.0	160.0	247.8	254.4	178.9	238.2	251.0	307.2	344.2	
15	29.0	178.9	130.5	123.0	120.5	228.6	225.4	281.6	296.1	123.0	264.6	347.9	
16	30.0	69.0	222.2	130.5	138.4	261.2	215.8	271.4	307.2	69.0	288.7	340.5	
17	37.0	193.4	133.0	118.0	110.5	288.7	113.0	288.7	264.6	199.8	325.7	351.6	
18	37.0	203.0	170.8	123.0	103.8	336.8	254.4	281.6	160.0	190.2	318.3	336.8	
19	130.5	93.3	105.9	176.2	99.6	406.6	222.2	296.1	71.0	190.2	281.6	261.2	
20	162.7	77.0	99.6	120.5	120.5	428.1	215.8	222.2	162.7	151.9	95.4	176.2	
21	115.5	99.6	108.0	99.6	181.6	288.7	212.6	212.6	222.2	181.6	333.1	359.0	
22	162.7	101.7	77.0	83.0	199.8	645.0	97.5	251.0	130.5	184.3	307.2	394.1	
23	199.8	83.0	65.2	75.0	264.6	719.0	87.0	288.7	187.0	58.0	257.8	307.2	
24	41.5	99.6	59.8	69.0	206.2	362.9	89.1	257.8	151.9	222.2	268.0	366.8	
25	27.0	113.0	128.0	59.8	219.0	264.6	85.0	274.8	69.0	241.4	310.9	351.6	
26	103.8	168.1	58.0	65.2	241.4	209.4	77.0	307.2	61.6	241.4	231.8	303.5	
27	187.0	251.0	47.5	95.4	257.8	209.4	73.0	235.0	196.6	244.6	69.0	219.0	
28	203.0	225.4	170.8	130.5	257.8	196.6	85.0	203.0	108.0	261.2	355.3	336.8	
29	176.2	123.0	118.0	110.5	271.4	278.2	199.8	285.0	44.5	99.6		351.6	
30	173.5	103.8	108.0	89.1	278.2	257.8	154.6	296.1	108.0	43.0		336.8	
31		184.3		83.0	296.1		75.0		99.6	133.0		333.1	
Total	2397.7	3825.1	4558.8	3660.5	6135.8	10559.7	5879.7	6645.7	6107.1	4914.1	6446.0	9780.5	70910.7 CMSDAY
Mean	79.9	123.4	152.0	118.1	197.9	352.0	189.7	221.5	197.0	158.5	230.2	315.5	194.3 CMS
Max	203.0	268.0	285.0	314.6	296.1	719.0	362.9	307.2	325.7	261.2	355.3	394.1	719.0 CMS
Min	22.2	34.0	47.5	59.8	81.0	196.6	73.0	77.0	44.5	27.0	54.4	146.5	22.2 CMS
Runoff	207.16	330.49	393.88	316.27	530.13	912.36	508.01	574.19	527.65	424.58	556.93	845.04	6126.69 MCM

Momentary Peak 853.50 CMS, at 106.61 M (MSL), at 7.00 Hours, on Sep 23, 1994

Runoff Yield 5.00 Liters/Second/Square KM, Momentary Peak Yield 21.96 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

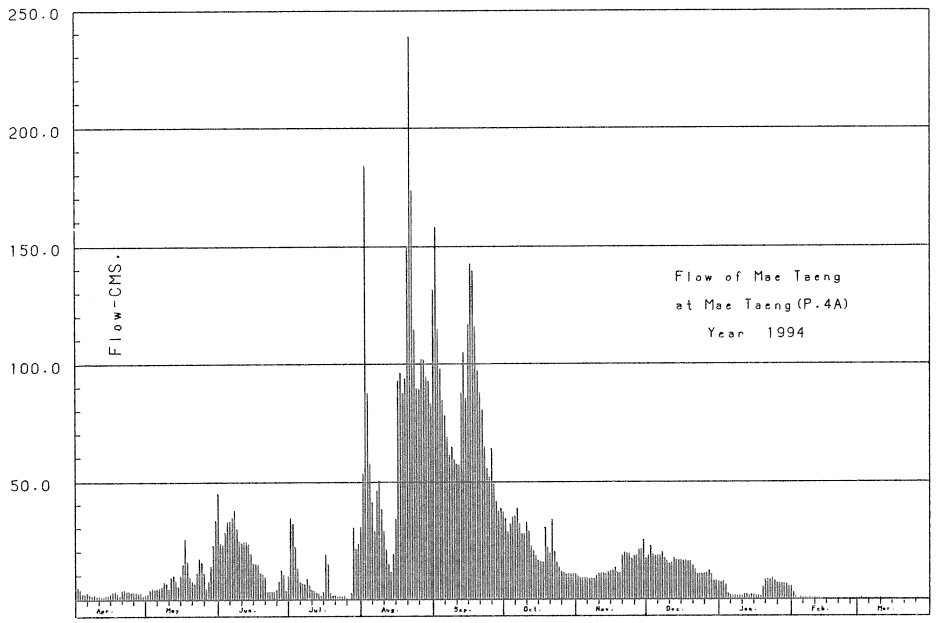
Mae Taeng River at Mae Taeng, Chiang Mai (P.4A)

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 good. Flow regulated by Mae Taeng weir about 7 kilometers above gage site. Stage-discharge relation defined by 49 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	335.15	334.85	336.03	336.35	336.81	337.93	336.34	335.46	335.84	335.34	335.06	334.84	
2	335.04	335.04	336.01	336.28	338.09	337.59	336.18	335.43	336.00	335.34	334.89	334.84	
3	334.88	335.09	336.18	335.98	337.30	337.42	336.28	335.42	335.86	335.28	334.87	334.82	
4	334.85	335.07	336.30	335.62	336.88	337.26	336.36	335.42	335.84	335.03	334.87	334.81	
5	334.93	335.09	336.31	335.34	336.53	337.18	336.38	335.42	335.84	334.96	334.87	334.82	
6	334.82	335.10	336.36	335.29	336.19	337.06	336.47	335.41	335.84	334.94	334.85	334.82	
7	334.77	335.16	336.44	335.28	336.66	336.94	336.28	335.41	335.90	334.94	334.85	334.82	
8	334.79	335.30	336.22	335.41	336.75	337.00	336.16	335.41	335.81	334.94	334.85	334.82	
9	334.74	335.27	336.06	335.26	336.46	336.91	336.16	335.47	335.75	334.94	334.84	334.82	
10	334.72	335.07	336.04	335.14	336.19	336.88	336.30	335.52	335.71	334.94	334.83	334.82	
11	334.69	335.43	336.05	335.10	335.94	336.87	336.19	335.52	335.72	334.99	334.83	334.82	
12	334.69	335.48	336.06	335.06	335.70	337.30	335.99	335.53	335.81	335.00	334.83	334.81	
13	334.74	335.34	336.02	335.02	335.55	337.49	335.92	335.51	335.77	334.94	334.82	334.81	
14	334.79	335.18	335.87	334.94	335.87	337.27	335.84	335.55	335.77	334.99	334.82	334.81	
15	334.84	335.48	335.71	335.06	336.34	337.61	335.77	335.57	335.77	334.97	334.82	334.81	
16	334.94	335.69	335.71	335.86	337.36	337.82	335.74	335.59	335.76	334.95	334.82	334.80	
17	334.98	336.09	335.69	335.71	337.40	337.80	335.74	335.63	335.76	334.94	334.79	334.79	
18	334.87	335.75	335.54	335.04	337.30	337.60	336.24	335.54	335.75	334.93	334.79	334.79	
19	334.73	335.43	335.50	334.95	337.37	337.41	335.97	335.53	335.75	335.21	334.79	334.79	
20	335.02	335.34	335.45	334.94	337.87	337.30	335.88	335.85	335.68	335.39	334.79	334.79	
21	335.03	335.30	335.08	334.92	338.40	337.21	336.33	335.89	335.60	335.39	334.79	334.79	
22	334.98	335.53	335.08	334.92	338.03	337.00	335.91	335.88	335.51	335.39	334.76	334.79	
23	334.97	335.79	335.08	334.92	337.59	336.85	335.74	335.87	335.51	335.42	334.76	334.78	
24	334.95	335.73	335.07	334.92	337.32	336.78	335.64	335.80	335.52	335.37	334.76	334.78	
25	334.94	335.54	335.14	334.82	337.32	336.99	335.57	335.84	335.53	335.31	334.76	334.78	
26	334.93	335.15	335.34	334.76	337.46	336.72	335.53	335.84	335.53	335.31	334.76	334.78	
27	334.90	335.34	335.59	335.05	337.46	336.55	335.51	335.94	335.59	335.30	334.81	334.78	
28	334.91	335.66	335.49	336.23	337.38	336.43	335.51	335.94	335.50	335.29	334.84	334.78	
29	334.73	336.01	335.11	335.95	337.36	336.47	335.51	336.08	335.36	335.29		334.78	
30	334.80	336.32	335.46	336.02	337.24	336.42	335.51	335.80	335.36	335.23		334.77	
31		336.63		336.24	337.73		335.51		335.34	335.23		334.77	
Mean	334.87	335.46	335.73	335.37	337.03	337.14	335.95	335.64	335.69	335.14	334.83	334.80	
Max	335.15	336.63	336.44	336.35	338.40	337.93	336.47	336.08	336.00	335.42	335.06	334.84	338.40
Min	334.69	334.85	335.07	334.76	335.55	336.42	335.51	335.41	335.34	334.93	334.76	334.77	334.69

Annual Max Momentary Gage Height 338.44 M (MSL), at 9.00 Hours, on Aug 21, 1994
Zero Gage at Bottom Elevation 333.74 M (MSL), River Bed 334.36 M (MSL)
Left Bank Elevation 339.63 M (MSL)
Right Bank Elevation 338.46 M (MSL), Drainage Area 1902 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.40	2.40	23.90	34.75	53.60	158.50	34.40	9.94	18.68	7.66	3.18	0.88	
2	4.20	4.20	23.30	32.30	184.30	115.00	28.80	9.37	23.00	7.66	1.23	0.88	
3	2.64	4.70	28.80	22.46	88.00	98.40	32.30	9.18	19.22	6.56	1.09	0.74	
4	2.40	4.50	33.00	13.26	57.80	84.80	35.10	9.18	18.68	2.79	1.09	0.67	
5	3.10	4.70	33.35	7.66	41.20	78.40	35.80	9.18	18.68	1.96	1.09	0.74	
6	2.16	4.80	35.10	6.73	29.15	69.20	38.95	8.99	18.68	1.74	0.95	0.74	
7	1.82	5.52	37.90	6.56	46.40	61.40	32.30	8.99	20.30	1.74	0.95	0.74	
8	1.94	7.40	30.20	8.99	50.50	65.00	28.10	8.99	17.87	1.74	0.95	0.74	
9	1.64	6.98	24.80	6.22	38.60	59.60	28.10	10.13	16.35	1.74	0.88	0.74	
10	1.52	4.50	24.20	4.30	29.15	57.80	33.00	11.12	15.35	1.74	0.81	0.74	
11	1.34	9.37	24.50	3.70	21.38	57.20	29.15	11.12	15.60	2.29	0.81	0.74	
12	1.34	10.32	24.80	3.18	15.10	88.00	22.73	11.33	17.87	2.40	0.81	0.67	
13	1.64	7.96	23.60	2.66	11.75	105.05	20.84	10.91	16.85	1.74	0.74	0.67	
14	1.94	5.76	19.49	1.74	19.49	85.60	18.68	11.75	16.85	2.29	0.74	0.67	
15	2.32	10.32	15.35	3.18	34.40	117.20	16.85	12.17	16.85	2.07	0.74	0.67	
16	3.20	14.87	15.35	19.22	93.10	142.80	16.10	12.59	16.60	1.85	0.74	0.60	
17	3.60	25.70	14.87	15.35	96.50	140.00	16.10	13.49	16.60	1.74	0.58	0.58	
18	2.56	16.35	11.54	2.92	88.00	116.00	30.90	11.54	16.35	1.63	0.58	0.58	
19	1.58	9.37	10.70	1.85	93.95	97.45	22.19	11.33	16.35	5.37	0.58	0.58	
20	4.00	7.66	9.75	1.74	149.80	88.00	19.76	18.95	14.64	8.61	0.58	0.58	
21	4.10	6.90	3.44	1.52	239.00	80.80	34.05	20.03	12.80	8.61	0.58	0.58	
22	3.60	11.33	3.44	1.52	174.10	65.00	20.57	19.76	10.91	8.61	0.52	0.58	
23	3.50	17.35	3.44	1.52	115.00	56.00	16.10	19.49	10.91	9.18	0.52	0.56	
24	3.30	15.85	3.31	1.52	89.70	52.00	13.72	17.60	11.12	8.23	0.52	0.56	
25	3.20	11.54	4.30	0.74	89.70	64.40	12.17	18.68	11.33	7.09	0.52	0.56	
26	3.10	4.45	7.66	0.52	102.20	49.00	11.33	18.68	11.33	7.09	0.52	0.56	
27	2.80	7.66	12.59	3.05	102.20	42.00	10.91	21.38	12.59	6.90	0.67	0.56	
28	2.90	14.18	10.51	30.55	94.80	37.55	10.91	21.38	10.70	6.73	0.88	0.56	
29	1.58	23.30	3.85	21.65	93.10	38.95	10.91	25.40	8.04	6.73		0.56	
30	2.00	33.70	9.94	23.60	83.20	37.20	10.91	17.60	8.04	5.71		0.54	
31		45.20		30.90	131.60		10.91		7.66	5.71		0.54	
Total	80.42	358.84	526.98	315.86	2556.77	2408.30	702.64	420.25	466.80	145.91	23.85	20.11	8026.73 CMSDAY
Mean	2.68	11.58	17.57	10.19	82.48	80.28	22.67	14.01	15.06	4.71	0.85	0.65	21.99 CMS
Max	5.40	45.20	37.90	34.75	239.00	158.50	38.95	25.40	23.00	9.18	3.18	0.88	239.00 CMS
Min	1.34	2.40	3.31	0.52	11.75	37.20	10.91	8.99	7.66	1.63	0.52	0.54	0.52 CMS
Runoff	6.948	31.004	45.531	27.290	220.905	208.077	60.708	36.310	40.332	12.607	2.061	1.738	693.510 MCM

Momentary Peak 246.60 CMS, at 338.44 M (MSL), at 9.00 Hours, on Aug 21, 1994

Runoff Yield 11.56 Liters/Second/Square KM, Momentary Peak Yield 129.65 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

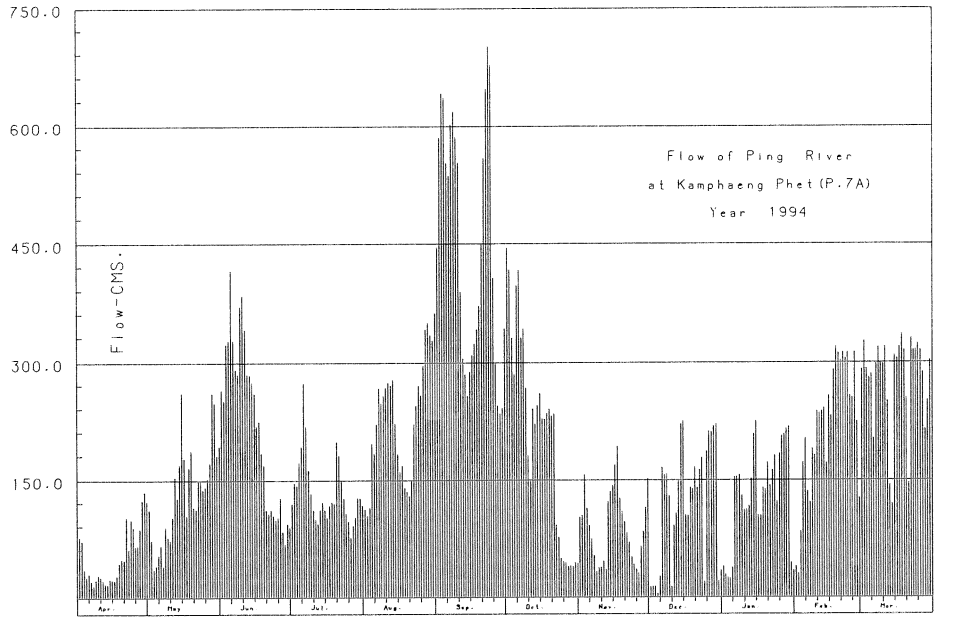
Ping River at Ban Huai Yang, Kamphaeng Phet (P.7A)

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 28 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.90	73.04	73.55	73.07	73.04	74.00	74.00	73.00	72.58	72.73	72.73	73.63	
2	72.88	72.88	73.51	73.17	73.01	74.27	73.94	73.01	72.58	72.67	72.68	73.73	
3	72.71	72.71	73.72	73.16	73.05	74.37	73.74	73.21	72.58	72.65	72.93	73.63	
4	72.65	72.73	73.73	73.26	73.34	74.36	73.61	73.05	72.53	72.64	73.26	73.60	
5	72.68	72.80	73.94	73.33	73.30	74.21	73.90	72.96	72.66	72.72	73.36	73.61	
6	72.62	72.85	73.73	73.58	73.42	74.18	73.94	72.89	73.24	73.20	73.13	73.36	
7	72.59	72.73	73.63	73.41	73.56	74.30	73.74	72.80	73.21	73.20	73.08	73.65	
8	72.63	72.95	73.61	73.23	73.50	74.33	73.77	72.69	73.21	73.21	73.32	73.71	
9	72.67	72.90	73.84	73.12	73.53	74.27	73.56	72.72	73.11	73.11	73.29	73.65	
10	72.65	72.88	73.87	73.04	73.56	74.21	73.29	72.72	72.58	73.04	73.47	73.65	
11	72.63	73.00	73.77	72.99	73.58	73.88	73.18	72.76	72.96	73.04	73.46	73.71	
12	72.60	73.20	73.61	72.97	73.57	73.67	73.48	72.71	73.02	73.06	73.47	73.51	
13	72.60	73.10	73.61	73.04	73.59	73.61	73.42	73.08	73.18	73.19	73.48	73.16	
14	72.64	73.25	73.58	73.08	73.42	73.53	73.49	73.13	73.42	73.38	73.26	73.07	
15	72.63	73.54	73.54	73.04	73.30	73.62	73.54	73.16	73.43	73.43	73.53	73.68	
16	72.63	73.28	73.41	73.00	73.22	73.68	73.44	73.25	73.01	73.01	73.45	73.67	
17	72.66	73.01	73.43	73.06	73.25	73.72	73.44	73.33	73.01	73.01	73.63	73.71	
18	72.75	73.24	73.30	73.08	73.15	73.77	73.46	73.10	73.15	73.15	73.71	73.75	
19	72.77	73.31	73.25	73.07	73.13	73.84	73.48	73.03	73.14	73.14	73.69	73.70	
20	72.77	73.05	73.04	73.35	73.11	74.01	73.45	72.98	73.24	73.26	73.66	73.52	
21	73.00	73.04	73.02	73.29	73.18	74.22	73.46	72.92	73.15	73.16	73.69	73.17	
22	72.83	73.18	73.04	73.18	73.42	74.38	72.96	72.87	73.23	73.23	73.67	73.74	
23	72.99	73.18	73.01	73.10	73.49	74.47	72.90	72.79	73.28	73.29	73.69	73.70	
24	72.95	73.14	72.99	73.02	73.57	74.43	72.78	72.74	72.62	73.08	73.53	73.70	
25	72.85	73.15	73.00	72.98	73.53	73.92	72.76	72.71	73.31	73.30	73.52	73.72	
26	72.85	73.19	73.10	72.90	73.64	73.65	72.75	72.68	73.39	73.37	73.69	73.70	
27	72.94	73.26	72.93	72.96	73.77	73.49	72.73	72.85	73.39	73.38	73.43	73.62	
28	73.09	73.54	72.86	73.00	73.79	73.46	72.73	72.93	73.41	73.40	73.10	73.40	
29	73.13	73.50	72.97	73.10	73.75	73.48	72.73	73.05	73.42	73.41		73.51	
30	73.08	73.29	72.95	73.10	73.73	73.77	72.75	73.19	72.62	72.75		73.66	
31		73.33		73.06	73.82		72.75		72.70	72.70		73.67	
Mean	72.78	73.10	73.38	73.12	73.43	73.97	73.33	72.94	73.04	73.09	73.39	73.59	
Max	73.13	73.54	73.94	73.58	73.82	74.47	74.00	73.33	73.43	73.43	73.71	73.75	74.47
Min	72.59	72.71	72.86	72.90	73.01	73.46	72.73	72.68	72.53	72.64	72.68	73.07	72.53

Annual Max Momentary Gage Height 74.62 M (MSL), at 6.00 Hours, on Sep 24, 1994
Zero Gage at Bottom Elevation 71.73 M (MSL), River Bed 72.25 M (MSL)
Left Bank Elevation 78.07 M (MSL)
Right Bank Elevation 77.51 M (MSL), Drainage Area 42700 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	77.0	112.0	264.5	119.5	112.0	446.0	446.0	102.0	13.6	40.0	40.0	291.5	
2	72.4	72.4	251.3	145.9	104.5	585.8	417.2	104.5	13.6	28.9	30.6	327.4	
3	36.0	36.0	323.6	143.2	114.5	641.9	331.2	157.0	13.6	25.5	84.5	291.5	
4	25.5	40.0	327.4	172.0	196.4	636.2	284.5	114.5	5.1	23.8	172.0	281.0	
5	30.6	54.0	417.2	193.3	184.0	553.4	398.0	92.0	27.2	38.0	202.6	284.5	
6	20.4	65.5	327.4	274.4	221.6	537.2	417.2	74.7	166.0	154.0	135.1	202.6	
7	15.3	40.0	291.5	218.3	267.8	602.0	331.2	54.0	157.0	154.0	122.0	298.5	
8	22.1	89.5	284.5	163.0	248.0	619.1	342.6	32.3	157.0	157.0	190.2	319.8	
9	28.9	77.0	371.6	132.4	257.9	585.8	267.8	38.0	129.7	129.7	181.0	298.5	
10	25.5	72.4	384.8	112.0	267.8	553.4	181.0	38.0	13.6	112.0	238.1	298.5	
11	22.1	102.0	342.6	99.5	274.4	389.2	148.6	46.0	92.0	112.0	234.8	319.8	
12	17.0	154.0	284.5	94.5	271.1	305.5	241.4	36.0	107.0	117.0	238.1	251.3	
13	17.0	127.0	284.5	112.0	277.7	284.5	221.6	122.0	148.6	151.3	241.4	143.2	
14	23.8	169.0	274.4	122.0	221.6	257.9	244.7	135.1	221.6	208.8	172.0	119.5	
15	22.1	261.2	261.2	112.0	184.0	288.0	261.2	143.2	224.9	224.9	257.9	309.0	
16	22.1	178.0	218.3	102.0	160.0	309.0	228.2	169.0	104.5	104.5	231.5	305.5	
17	27.2	104.5	224.9	117.0	169.0	323.6	228.2	193.3	104.5	104.5	291.5	319.8	
18	44.0	166.0	184.0	122.0	140.5	342.6	234.8	127.0	140.5	140.5	319.8	335.0	
19	48.0	187.1	169.0	119.5	135.1	371.6	241.4	109.5	137.8	137.8	312.5	316.0	
20	48.0	114.5	112.0	199.5	129.7	450.8	231.5	97.0	166.0	172.0	302.0	254.6	
21	102.0	112.0	107.0	181.0	148.6	558.8	234.8	82.0	140.5	143.2	312.5	145.9	
22	60.9	148.6	112.0	148.6	221.6	647.6	92.0	70.1	163.0	163.0	305.5	331.2	
23	99.5	148.6	104.5	127.0	244.7	701.7	77.0	52.0	178.0	181.0	312.5	316.0	
24	89.5	137.8	99.5	107.0	271.1	677.3	50.0	42.0	20.4	122.0	257.9	316.0	
25	65.5	140.5	102.0	97.0	257.9	407.6	46.0	36.0	187.1	184.0	254.6	323.6	
26	65.5	151.3	127.0	77.0	295.0	298.5	44.0	30.6	211.9	205.7	312.5	316.0	
27	87.0	172.0	84.5	92.0	342.6	244.7	40.0	65.5	211.9	208.8	224.9	288.0	
28	124.5	261.2	67.8	102.0	350.2	234.8	40.0	84.5	218.3	215.0	127.0	215.0	
29	135.1	248.0	94.5	127.0	335.0	241.4	40.0	114.5	221.6	218.3		251.3	
30	122.0	181.0	89.5	127.0	327.4	342.6	44.0	151.3	20.4	44.0		302.0	
31		193.3		117.0	362.8		44.0		34.0	34.0		305.5	
Total	1596.5	4116.4	6587.5	4176.6	7094.5	13438.5	6450.1	2713.6	3750.9	4055.2	6105.0	8678.0	68762.8 CMSDAY
Mean	53.2	132.8	219.6	134.7	228.9	447.9	208.1	90.5	121.0	130.8	218.0	279.9	188.4 CMS
Max	135.1	261.2	417.2	274.4	362.8	701.7	446.0	193.3	224.9	224.9	319.8	335.0	701.7 CMS
Min	15.3	36.0	67.8	77.0	104.5	234.8	40.0	30.6	5.1	23.8	30.6	119.5	5.1 CMS
Runoff	137.94	355.66	569.16	360.86	612.96	1161.09	557.29	234.46	324.08	350.37	527.47	749.78	5941.11 MCM

Momentary Peak 793.00 CMS, at 74.62 M (MSL), at 6.00 Hours, on Sep 24, 1994
Runoff Yield 4.41 Liters/Second/Square KM, Momentary Peak Yield 18.57 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

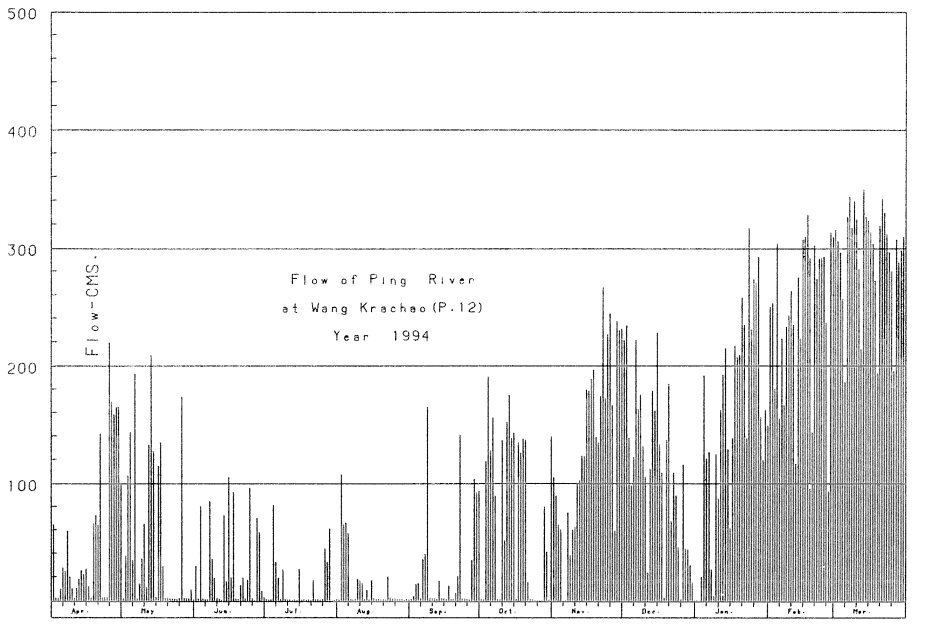
Ping River at Wang Kra Chao, Tak (P.12)

Location	Lat. 17°-14'-30" N., Long. 99°-00'-45" E., on right bank about 4 kilometers downstream from Phumiphol Dam reservoir, at Wang Kra Chao, Amphoe Sam Ngao, Tak.
Drainage Area	26,396 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+132.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	About 25 meters north of automatic gage building.
Elevation	+143.825 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1952 to date.
Rating Operation	
Period of Rating	1952 to date.
Rated by Float	-
Rated by Current Meter	1952 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Phumiphol Dam reservior above gage site. Stage-discharge relation defined by 26 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	132.84	131.92	132.43	131.89	131.88	131.89	131.90	133.19	134.02	131.85	134.19	134.56	
2	131.93	132.54	131.91	131.88	133.21	131.96	131.89	133.06	134.10	131.85	134.21	134.51	
3	131.91	133.20	132.98	131.87	132.84	132.18	133.30	132.84	133.46	132.29	133.75	134.46	
4	132.11	133.50	131.91	132.99	132.86	132.20	133.82	132.80	133.13	133.83	134.50	134.23	
5	132.41	132.50	131.88	132.48	132.76	131.92	133.38	131.84	133.33	133.32	133.58	133.79	
6	132.36	133.84	131.88	132.28	131.90	132.51	133.59	131.83	134.02	133.37	134.03	134.62	
7	132.79	131.92	133.02	131.89	131.88	132.56	133.06	132.94	133.64	132.39	133.66	134.71	
8	132.29	132.19	132.51	132.38	131.88	133.65	131.90	132.55	133.72	131.97	134.09	134.57	
9	132.12	132.51	132.28	131.88	132.26	131.92	131.89	132.80	133.41	133.35	134.15	134.69	
10	131.92	132.85	131.91	131.87	132.23	131.91	133.45	132.82	133.19	133.04	134.27	134.61	
11	132.11	132.13	131.88	131.87	132.19	131.91	132.70	133.14	132.35	133.63	134.10	134.38	
12	132.26	133.42	131.87	131.87	131.88	131.90	133.56	133.17	133.25	133.83	133.28	133.97	
13	132.38	133.94	132.92	131.87	132.09	132.23	133.72	133.34	133.74	133.98	134.34	134.74	
14	132.32	133.37	132.22	131.87	131.88	131.92	133.46	133.34	133.63	133.39	134.03	134.62	
15	132.39	131.94	133.19	132.39	132.25	131.90	133.50	133.75	134.06	132.81	134.52	134.60	
16	132.15	133.27	132.28	131.88	131.91	131.90	131.89	133.74	133.42	133.46	134.53	134.55	
17	131.92	133.43	133.08	131.87	131.90	132.16	133.43	133.81	133.22	133.99	134.63	134.50	
18	132.85	132.43	131.91	131.87	131.89	131.90	133.36	133.86	131.93	133.93	134.43	134.32	
19	132.92	131.92	131.88	131.87	131.88	131.90	133.46	133.47	133.45	133.94	133.50	133.84	
20	132.84	131.92	132.17	131.87	131.88	132.03	133.45	133.43	133.78	134.24	134.49	134.58	
21	133.49	131.91	132.28	132.24	131.88	132.30	132.22	133.71	132.87	134.10	134.33	134.70	
22	131.93	131.90	131.91	131.89	132.30	133.48	131.90	134.29	133.22	133.46	134.43	134.64	
23	131.93	131.91	132.25	131.87	131.92	131.91	131.87	133.70	133.06	134.57	134.43	134.54	
24	131.94	131.88	133.11	131.87	131.91	131.89	131.86	134.05	132.63	134.08	134.44	134.46	
25	134.01	131.92	131.91	131.87	131.90	131.89	131.85	134.16	131.90	134.33	134.11	134.37	
26	133.68	133.71	131.87	132.62	131.89	131.89	131.85	133.66	133.28	134.31	133.09	133.85	
27	133.61	131.92	132.90	132.48	131.89	132.50	131.85	132.79	132.62	134.44	134.55	134.52	
28	133.65	131.91	132.77	132.81	131.89	133.18	132.98	134.12	132.61	133.59	134.53	134.41	
29	133.65	131.91	132.07	131.89	131.88	133.08	132.59	134.07	132.44	133.31		134.47	
30	133.14	132.09	131.93	131.87	131.89	133.09	131.87	134.08	132.21	133.63		134.53	
31		131.89		131.87	131.89		133.47		131.86	133.54		134.57	
Mean	132.59	132.51	132.30	132.06	132.09	132.26	132.74	133.35	133.15	133.48	134.15	134.45	
Max	134.01	133.94	133.19	132.99	133.21	133.65	133.82	134.29	134.10	134.57	134.63	134.74	134.74
Min	131.91	131.88	131.87	131.87	131.88	131.89	131.85	131.83	131.86	131.85	133.09	133.79	131.83

Annual Max Momentary Gage Height 135.49 M (MSL), at 12.00 Hours, on Mar 17, 1994
Zero Gage at Bottom Elevation 132.00 M (MSL), River Bed 131.76 M (MSL)
Left Bank Elevation 142.18 M (MSL)
Right Bank Elevation 143.05 M (MSL), Drainage Area 26396 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.00	2.80	30.10	1.80	1.60	1.80	2.00	105.80	222.20	1.00	250.30	315.40	
2	3.20	38.20	2.40	1.60	108.20	4.40	1.80	90.20	235.00	1.00	253.70	305.90	
3	2.40	107.00	80.60	1.40	65.00	14.40	119.00	65.00	138.80	20.45	180.50	296.80	
4	10.55	144.00	2.40	81.80	67.00	15.50	191.00	61.00	98.60	192.50	304.00	257.10	
5	28.70	35.00	1.60	33.60	57.40	2.80	128.60	0.80	122.60	121.40	155.20	186.50	
6	25.20	194.00	1.60	19.90	2.00	35.80	156.60	0.60	222.20	127.40	223.80	326.80	
7	60.10	2.80	85.40	1.80	1.60	39.80	90.20	75.80	164.00	27.30	167.00	343.90	
8	20.45	14.95	35.80	26.60	1.60	165.50	2.00	39.00	176.00	4.80	233.40	317.30	
9	11.10	35.80	19.90	1.60	18.80	2.80	1.80	61.00	132.30	125.00	243.50	340.10	
10	2.80	66.00	2.40	1.40	17.15	2.40	137.50	63.00	105.80	87.80	263.90	324.90	
11	10.55	11.65	1.60	1.40	14.95	2.40	52.00	99.80	24.50	162.50	235.00	282.60	
12	18.80	133.60	1.40	1.40	1.60	2.00	152.40	103.40	113.00	192.50	116.60	214.20	
13	26.60	209.40	73.40	1.40	9.60	17.15	176.00	123.80	179.00	215.80	275.80	349.60	
14	22.40	127.40	16.60	1.40	1.60	2.80	138.80	123.80	162.50	129.80	223.80	326.80	
15	27.30	3.60	105.80	27.30	18.25	2.00	144.00	180.50	228.60	62.00	307.80	323.00	
16	12.75	115.40	19.90	1.60	2.40	2.00	1.80	179.00	133.60	138.80	309.70	313.50	
17	2.80	134.90	92.60	1.40	2.00	13.30	134.90	189.50	109.40	217.40	328.70	304.00	
18	66.00	30.10	2.40	1.40	1.80	2.00	126.20	197.00	3.20	207.80	291.40	272.40	
19	73.40	2.80	1.60	1.40	1.60	2.00	138.80	140.10	137.50	209.40	144.00	194.00	
20	65.00	2.80	13.85	1.40	1.60	7.20	137.50	134.90	185.00	258.80	302.20	319.20	
21	142.70	2.40	19.90	17.70	1.60	21.00	16.60	174.50	68.00	235.00	274.10	342.00	
22	3.20	2.00	2.40	1.80	21.00	141.40	2.00	267.30	109.40	138.80	291.40	330.60	
23	3.20	2.40	18.25	1.40	2.80	2.40	1.40	173.00	90.20	317.30	291.40	311.60	
24	3.60	1.60	96.20	1.40	2.40	1.80	1.20	227.00	45.70	231.80	293.20	296.80	
25	220.60	2.80	2.40	1.40	2.00	1.80	1.00	245.20	2.00	274.10	236.70	280.90	
26	170.00	174.50	1.40	44.80	1.80	1.80	1.00	167.00	116.60	270.70	93.80	195.50	
27	159.50	2.80	71.00	33.60	1.80	35.00	1.00	60.10	44.80	293.20	313.50	307.80	
28	165.50	2.40	58.30	62.00	1.80	104.60	80.60	238.40	43.90	156.60	309.70	287.80	
29	165.50	2.40	8.80	1.80	1.60	92.60	42.20	230.20	30.80	120.20		298.60	
30	99.80	9.60	3.20	1.40	1.80	93.80	1.40	231.80	16.05	162.50		309.70	
31		1.80		1.40	1.80		140.10		1.20	149.60		317.30	
Total	1688.70	1616.90	873.20	380.30	436.15	834.25	2321.40	4048.50	3462.45	4853.25	6914.10	9192.60	36621.80 CMSDAY
Mean	56.29	52.16	29.11	12.27	14.07	27.81	74.88	134.95	111.69	156.56	246.93	296.54	100.33 CMS
Max	220.60	209.40	105.80	81.80	108.20	165.50	191.00	267.30	235.00	317.30	328.70	349.60	349.60 CMS
Min	2.40	1.60	1.40	1.40	1.60	1.80	1.00	0.60	1.20	1.00	93.80	186.50	0.60 CMS
Runoff	145.904	139.700	75.444	32.858	37.683	72.079	200.569	349.790	299.156	419.321	597.378	794.241	3164.124 MCM

Momentary Peak 499.90 CMS, at 135.49 M (MSL), at 12.00 Hours, on Mar 17, 1994

Runoff Yield 3.80 Liters/Second/Square KM, Momentary Peak Yield 18.94 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

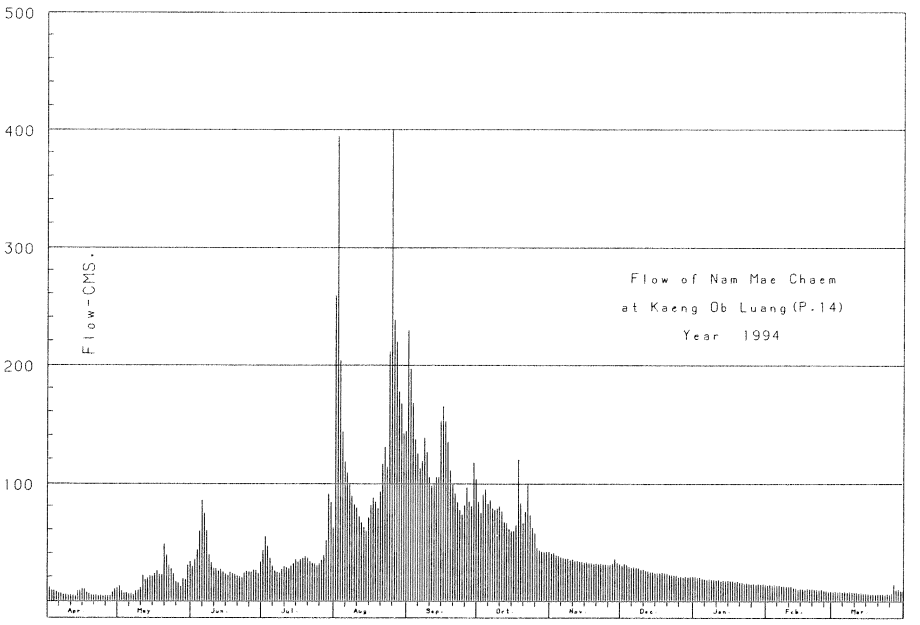
Nam Mae Chaem at Kaeng Ob Luang, Chiang Mai (P.14)

Location	Lat. 18°-13'-49" N., Long. 98°-33'-35" E., on right bank near the bridge of Hot-Mae Sariang Highway at guidepost 7+500, Amphoe Hot, Chiang Mai.
Drainage Area	3,853 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+275.80 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	About 10 meters infront of automatic gage building.
Elevation	+282.200 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1953 to date.
Rating Operation	
Period of Rating	1954-1960, 1967 to date.
Rated by Float	-
Rated by Current Meter	1954-1960, 1967 to date.
Stability of Channel Regimes	Fairly stable by some silting.
Overbank Flow Conditions	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 123 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	277.85	277.90	278.32	278.65	281.34	280.65	279.16	278.60	278.35	278.09	277.91	277.74	
2	277.79	277.76	278.48	278.89	282.33	280.39	279.02	278.60	278.38	278.08	277.91	277.74	
3	277.77	277.70	278.66	278.72	280.45	280.13	279.25	278.57	278.37	278.08	277.91	277.74	
4	277.75	277.70	278.96	278.52	279.90	279.83	279.31	278.55	278.32	278.06	277.91	277.74	
5	277.71	277.68	279.39	278.34	279.62	279.70	279.14	278.53	278.31	278.04	277.90	277.73	
6	277.68	277.67	279.21	278.24	279.50	279.55	279.18	278.51	278.31	278.04	277.90	277.73	
7	277.66	277.65	278.97	278.20	279.39	279.62	279.08	278.51	278.31	278.04	277.89	277.73	
8	277.64	277.75	278.58	278.19	279.23	279.84	279.05	278.50	278.29	278.04	277.88	277.73	
9	277.63	277.79	278.41	278.26	279.13	279.71	279.08	278.48	278.26	278.03	277.88	277.73	
10	277.62	277.84	278.30	278.34	279.08	279.45	279.10	278.48	278.26	278.03	277.88	277.72	
11	277.61	278.14	278.28	278.30	278.97	279.35	279.04	278.46	278.24	278.03	277.87	277.71	
12	277.60	278.04	278.24	278.29	278.88	279.39	278.89	278.45	278.22	278.01	277.85	277.70	
13	277.77	278.06	278.26	278.34	278.82	279.45	278.87	278.44	278.21	278.01	277.83	277.70	
14	277.77	278.13	278.21	278.40	278.76	279.45	278.79	278.43	278.20	278.01	277.81	277.69	
15	277.83	278.10	278.16	278.48	278.96	279.99	278.75	278.42	278.19	278.01	277.81	277.67	
16	277.81	278.16	278.14	278.44	279.12	280.11	278.76	278.42	278.18	278.01	277.81	277.67	
17	277.73	278.24	278.20	278.48	279.21	279.99	278.84	278.41	278.19	278.00	277.81	277.66	
18	277.68	278.14	278.18	278.52	279.16	279.80	279.64	278.40	278.19	277.99	277.82	277.66	
19	277.65	278.15	278.15	278.54	279.08	279.53	279.14	278.39	278.19	277.99	277.82	277.66	
20	277.63	278.75	278.13	278.52	279.29	279.37	278.88	278.39	278.17	277.98	277.81	277.66	
21	277.62	278.57	278.10	278.44	279.59	279.26	279.03	278.39	278.15	277.96	277.81	277.66	
22	277.61	278.35	278.09	278.41	279.76	279.16	279.37	278.39	278.14	277.95	277.80	277.66	
23	277.61	278.28	278.18	278.39	279.56	279.05	278.99	278.38	278.14	277.95	277.80	277.65	
24	277.60	278.16	278.23	278.36	280.51	279.00	278.81	278.37	278.13	277.95	277.80	277.66	
25	277.60	277.99	278.22	278.39	281.83	279.12	278.73	278.37	278.10	277.94	277.78	277.65	
26	277.59	277.95	278.20	278.48	280.72	279.34	278.68	278.36	278.10	277.93	277.76	277.69	
27	277.61	277.88	278.26	278.56	280.58	279.16	278.65	278.40	278.09	277.93	277.76	277.93	
28	277.73	278.05	278.24	278.82	280.22	279.10	278.62	278.49	278.10	277.93	277.74	277.80	
29	277.81	278.04	278.18	279.46	280.13	279.61	278.62	278.42	278.10	277.93		277.80	
30	277.84	278.35	278.43	279.36	279.88	279.43	278.62	278.38	278.09	277.93		277.77	
31		278.44		279.01	279.90		278.62		278.11	277.92		277.75	
Mean	277.69	278.05	278.38	278.53	279.77	279.58	278.96	278.45	278.21	278.00	277.84	277.71	
Max	277.85	278.75	279.39	279.46	282.33	280.65	279.64	278.60	278.38	278.09	277.91	277.93	282.33
Min	277.59	277.65	278.09	278.19	278.76	279.00	278.62	278.36	278.09	277.92	277.74	277.65	277.59

Annual Max Momentary Gage Height 283.29 M (MSL), at 1.00 Hours, on Aug 2, 1994
Zero Gage at Bottom Elevation 275.80 M (MSL), River Bed 277.24 M (MSL)
Left Bank Elevation M (MSL)
Right Bank Elevation 282.25 M (MSL), Drainage Area 3853 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.80	13.60	29.36	43.50	259.30	229.60	84.52	41.00	30.50	20.62	13.96	8.32	
2	9.72	8.88	35.44	55.50	394.50	197.35	75.30	41.00	31.64	20.24	13.96	8.32	
3	9.16	7.20	44.00	47.00	204.50	168.11	90.75	39.56	31.26	20.24	13.96	8.32	
4	8.60	7.20	59.60	37.16	144.10	137.73	95.02	38.60	29.36	19.48	13.96	8.32	
5	7.48	6.70	86.35	30.12	118.96	126.00	83.18	37.64	28.98	18.72	13.60	8.04	
6	6.70	6.45	74.65	26.32	109.00	113.10	85.86	36.68	28.98	18.72	13.60	8.04	
7	6.20	5.95	60.20	24.80	100.78	118.96	79.20	36.68	28.98	18.72	13.24	8.04	
8	5.70	8.60	40.04	24.42	89.33	138.64	77.25	36.20	28.22	18.72	12.88	8.04	
9	5.45	9.72	32.78	27.08	82.51	126.90	79.20	35.44	27.08	18.34	12.88	8.04	
10	5.20	11.44	28.60	30.12	79.20	105.25	80.50	35.44	27.08	18.34	12.88	7.76	
11	4.95	22.52	27.84	28.60	72.20	97.90	76.60	34.68	26.32	18.34	12.52	7.48	
12	4.70	18.72	26.32	28.22	66.80	100.78	67.40	34.30	25.56	17.58	11.80	7.20	
13	9.16	19.48	27.08	30.12	63.20	105.25	66.20	33.92	25.18	17.58	11.08	7.20	
14	9.16	22.14	25.18	32.40	59.84	105.25	61.46	33.54	24.80	17.58	10.36	6.95	
15	11.08	21.00	23.28	35.44	71.60	153.19	59.30	33.16	24.42	17.58	10.36	6.45	
16	10.36	23.28	22.52	33.92	81.84	165.97	59.84	33.16	24.04	17.58	10.36	6.45	
17	8.04	26.32	24.80	35.44	87.91	153.19	64.40	32.78	24.42	17.20	10.36	6.20	
18	6.70	22.52	24.04	37.16	84.52	135.00	120.72	32.40	24.42	16.84	10.72	6.20	
19	5.95	22.90	22.90	38.12	79.20	111.46	83.18	32.02	24.42	16.84	10.72	6.20	
20	5.45	48.50	22.14	37.16	93.59	99.34	66.80	32.02	23.66	16.48	10.36	6.20	
21	5.20	39.56	21.00	33.92	116.38	91.46	75.95	32.02	22.90	15.76	10.36	6.20	
22	4.95	30.50	20.62	32.78	131.40	84.52	99.34	32.02	22.52	15.40	10.00	6.20	
23	4.95	27.84	24.04	32.02	113.92	77.25	73.40	31.64	22.52	15.40	10.00	5.95	
24	4.70	23.28	25.94	30.88	211.75	74.00	62.60	31.26	22.14	15.40	10.00	6.20	
25	4.70	16.84	25.56	32.02	400.37	81.84	58.22	31.26	21.00	15.04	9.44	5.95	
26	4.49	15.40	24.80	35.44	238.86	97.18	45.00	30.88	21.00	14.68	8.88	6.95	
27	4.95	12.88	27.08	39.08	220.50	84.52	43.50	32.40	20.62	14.68	8.88	14.68	
28	8.04	19.10	26.32	52.00	177.88	80.50	42.00	35.82	21.00	14.68	8.32	10.00	
29	10.36	18.72	24.04	91.20	168.11	118.08	42.00	33.16	21.00	14.68		10.00	
30	11.44	30.50	33.54	84.40	142.28	103.75	42.00	31.64	20.62	14.68		9.16	
31		33.92		62.60	144.10		42.00		21.38	14.32		8.60	
Total	215.34	601.66	990.06	1208.94	4408.43	3582.07	2182.69	1032.32	776.02	530.46	319.44	237.66	16085.09 CMSDAY
Mean	7.18	19.41	33.00	39.00	142.21	119.40	70.41	34.41	25.03	17.11	11.41	7.67	44.07 CMS
Max	11.80	48.50	86.35	91.20	400.37	229.60	120.72	41.00	31.64	20.62	13.96	14.68	400.37 CMS
Min	4.49	5.95	20.62	24.42	59.84	74.00	42.00	30.88	20.62	14.32	8.32	5.95	4.49 CMS
Runoff	18.605	51.983	85.541	104.452	380.888	309.491	188.584	89.192	67.048	45.832	27.600	20.534	1389.752 MCM

Momentary Peak 548.00 CMS, at 283.29 M (MSL), at 1.00 Hours, on Aug 2, 1994

Runoff Yield 11.44 Liters/Second/Square KM, Momentary Peak Yield 142.23 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

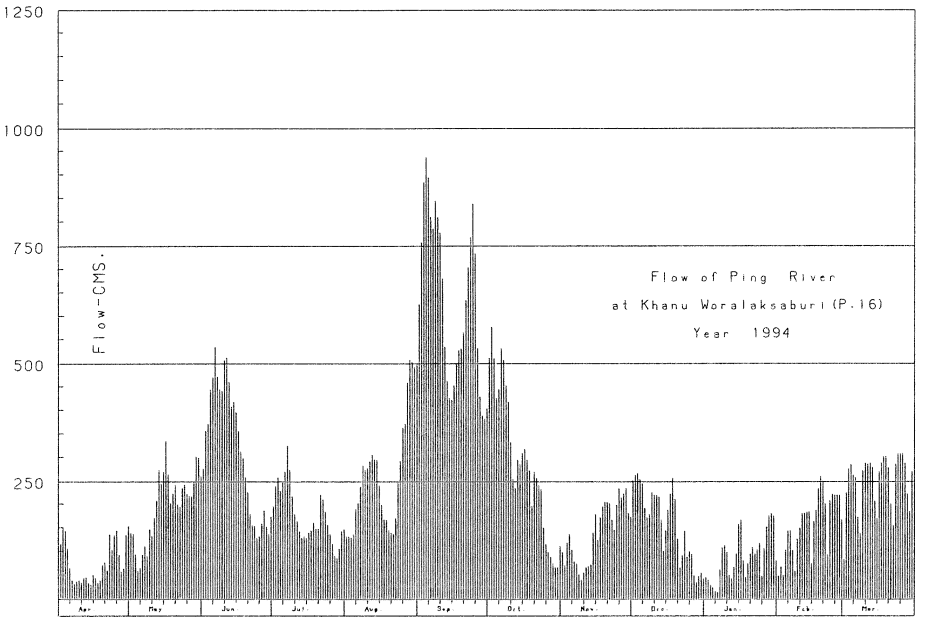
Ping River at Khanu Woralaksaburi, Kamphaeng Phet (P.16)

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 107 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.70	42.79	43.25	42.99	42.76	44.17	43.90	42.63	43.17	42.36	42.38	42.56	
2	42.83	42.78	43.49	43.13	42.76	44.45	44.06	42.50	43.21	42.31	42.49	43.09	
3	42.81	42.61	43.53	43.19	42.75	44.71	43.90	42.71	43.22	42.22	42.39	43.25	
4	42.66	42.44	43.73	43.10	42.78	44.81	43.68	42.78	43.18	42.16	42.65	43.28	
5	42.47	42.47	43.80	43.16	42.97	44.73	43.73	42.65	43.15	42.06	42.81	43.21	
6	42.31	42.61	43.96	43.23	43.01	44.56	43.95	42.54	42.98	42.04	42.81	43.19	
7	42.24	42.68	43.80	43.40	43.13	44.51	43.89	42.52	42.91	42.46	42.65	42.91	
8	42.28	42.59	43.73	43.24	43.27	44.63	43.75	42.40	42.93	42.67	42.44	42.79	
9	42.31	42.82	43.72	43.06	43.24	44.56	43.66	42.32	43.09	42.69	42.74	43.24	
10	42.26	42.76	43.89	42.93	43.25	44.49	43.42	42.42	43.07	42.63	42.83	43.29	
11	42.35	42.90	43.90	42.88	43.30	44.29	43.18	42.48	43.07	42.39	42.94	43.28	
12	42.35	43.03	43.77	42.80	43.34	43.96	43.12	42.49	43.06	42.34	42.94	43.29	
13	42.26	43.24	43.63	42.75	43.31	43.78	43.31	42.51	42.89	42.48	42.95	43.26	
14	42.22	43.15	43.66	42.76	43.31	43.68	43.28	42.79	42.64	42.62	42.95	43.03	
15	42.40	43.23	43.60	42.75	43.14	43.67	43.35	42.93	42.81	42.86	42.52	42.90	
16	42.34	43.43	43.49	42.79	43.00	43.75	43.38	42.73	42.96	42.89	42.88	43.23	
17	42.26	43.21	43.36	42.81	42.89	43.87	43.31	42.91	43.08	42.55	42.96	43.29	
18	42.30	43.01	43.32	42.87	42.89	43.94	43.24	42.99	43.19	42.36	43.12	43.33	
19	42.51	43.08	43.19	42.82	42.81	43.95	42.99	43.02	43.04	42.52	43.20	43.33	
20	42.53	43.14	43.09	42.82	42.79	44.03	43.23	43.02	42.74	42.62	43.17	43.26	
21	42.45	43.00	42.93	43.07	42.78	44.19	43.19	43.01	42.48	42.67	43.01	43.01	
22	42.78	42.99	42.85	43.04	42.90	44.34	43.14	42.89	42.60	42.62	42.61	42.85	
23	42.65	43.12	42.84	42.95	43.16	44.47	43.11	42.81	42.81	42.65	43.03	43.28	
24	42.77	43.14	42.75	42.85	43.30	44.62	42.83	43.00	42.59	42.71	43.08	43.35	
25	42.81	43.08	42.76	42.78	43.51	44.40	42.70	43.12	42.64	42.38	43.07	43.35	
26	42.61	43.06	42.86	42.70	43.53	43.95	42.63	43.05	42.61	42.66	43.07	43.35	
27	42.43	43.06	42.96	42.60	43.77	43.69	42.59	43.08	42.39	42.84	43.07	43.29	
28	42.47	43.15	42.84	42.57	43.89	43.58	42.52	43.12	42.26	42.92	42.89	43.08	
29	42.77	43.33	42.78	42.66	43.88	43.56	42.48	42.94	42.37	42.94		42.95	
30	42.84	43.32	42.91	42.80	43.85	43.62	42.48	42.91	42.42	42.92		43.23	
31		43.20		42.82	43.87		42.68		42.33	42.55		43.31	
Mean	42.50	42.98	43.35	42.91	43.20	44.17	43.25	42.78	42.84	42.55	42.84	43.16	
Max	42.84	43.43	43.96	43.40	43.89	44.81	44.06	43.12	43.22	42.94	43.20	43.35	44.81
Min	42.22	42.44	42.75	42.57	42.75	43.56	42.48	42.32	42.26	42.04	42.38	42.56	42.04

Annual Max Momentary Gage Height 44.82 M (MSL), at 1.00 Hours, on Sep 4, 1994
Zero Gage at Bottom Elevation 41.78 M (MSL), River Bed 41.14 M (MSL)
Left Bank Elevation 46.28 M (MSL)
Right Bank Elevation 46.59 M (MSL), Drainage Area 45677 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.0	140.4	277.0	197.1	132.6	626.8	512.0	99.5	251.7	46.8	49.4	83.6	
2	151.4	137.8	357.5	239.3	132.6	758.3	578.8	71.0	264.2	40.3	69.1	227.0	
3	145.8	94.5	371.8	257.9	130.0	885.4	512.0	119.6	267.4	30.2	50.7	277.0	
4	107.0	59.6	445.4	230.0	137.8	939.6	426.6	137.8	254.8	24.4	104.5	286.6	
5	65.3	65.3	472.0	248.6	191.3	896.2	445.4	104.5	245.5	16.4	145.8	264.2	
6	40.3	94.5	536.6	270.6	203.0	811.9	532.5	79.4	194.2	15.1	145.8	257.9	
7	32.4	112.0	472.0	326.0	239.3	787.5	508.0	75.2	173.9	63.4	104.5	173.9	
8	36.8	89.9	445.4	273.8	283.4	845.9	453.0	52.0	179.7	109.5	59.6	140.4	
9	40.3	148.6	441.6	218.0	273.8	811.9	419.2	41.6	227.0	114.5	127.4	273.8	
10	34.6	132.6	508.0	179.7	277.0	777.8	333.0	55.8	221.0	99.5	151.4	289.8	
11	45.5	171.0	512.0	165.4	293.0	681.4	254.8	67.2	221.0	50.7	182.6	286.6	
12	45.5	209.0	460.6	143.0	306.2	536.6	236.2	69.1	218.0	44.2	182.6	289.8	
13	34.6	273.8	408.1	130.0	296.3	464.4	296.3	73.1	168.2	67.2	185.5	280.2	
14	30.2	245.5	419.2	132.6	296.3	426.6	286.6	140.4	102.0	97.0	185.5	209.0	
15	52.0	270.6	397.0	130.0	242.4	422.9	309.5	179.7	145.8	159.8	75.2	171.0	
16	44.2	336.5	357.5	140.4	200.0	453.0	319.4	124.8	188.4	168.2	165.4	270.6	
17	34.6	264.2	312.8	145.8	168.2	500.0	296.3	173.9	224.0	81.5	188.4	289.8	
18	39.0	203.0	299.6	162.6	168.2	528.4	273.8	197.1	257.9	46.8	236.2	302.9	
19	73.1	224.0	257.9	148.6	145.8	532:5	197.1	206.0	212.0	75.2	261.0	302.9	
20	77.3	242.4	227.0	148.6	140.4	565.9	270.6	206.0	127.4	97.0	251.7	280.2	
21	61.5	200.0	179.7	221.0	137.8	635.6	257.9	203.0	67.2	109.5	203.0	203.0	
22	137.8	197.1	157.0	212.0	171.0	705.2	242.4	168.2	92.0	97.0	94.5	157.0	
23	104.5	236.2	154.2	185.5	248.6	768.1	233.1	145.8	145.8	104.5	209.0	286.6	
24	135.2	242.4	130.0	157.0	293.0	841.1	151.4	200.0	89.9	119.6	224.0	309.5	
25	145.8	224.0	132.6	137.8	364.6	734.0	117.0	236.2	102.0	49.4	221.0	309.5	
26	94.5	218.0	159.8	117.0	371.8	532.5	99.5	215.0	94.5	107.0	221.0	309.5	
27	57.7	218.0	188.4	92.0	460.6	430.3	89.9	224.0	50.7	154.2	221.0	289.8	
28	65.3	245.5	154.2	85.7	508.0	389.8	75.2	236.2	34.6	176.8	168.2	224.0	
29	135.2	302.9	137.8	107.0	504.0	382.6	67.2	182.6	48.1	182.6		185.5	
30	154.2	299.6	173.9	143.0	492.0	404.4	67.2	173.9	55.8	176.8		270.6	
31		261.0		148.6	500.0		112.0		42.9	81.5		296.3	
Total	2338.6	6159.9	9546.6	5494.6	8309.0	19076.6	8973.9	4258.6	4967.6	2806.6	4484.0	7798.5	84214.5 CMSDAY
Mean	78.0	198.7	318.2	177.2	268.0	635.9	289.5	142.0	160.2	90.5	160.1	251.6	230.7 CMS
Max	154.2	336.5	536.6	326.0	508.0	939.6	578.8	236.2	267.4	182.6	261.0	309.5	939.6 CMS
Min	30.2	59.6	130.0	85.7	130.0	382.6	67.2	41.6	34.6	15.1	49.4	83.6	15.1 CMS
Runoff	202.06	532.22	824.83	474.73	717.90	1648.22	775.35	367.94	429.20	242.49	387.42	673.79	7276.13 MCM

Momentary Peak 945.20 CMS, at 44.82 M (MSL), at 1.00 Hours, on Sep 4, 1994

Runoff Yield 5.05 Liters/Second/Square KM, Momentary Peak Yield 20.69 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

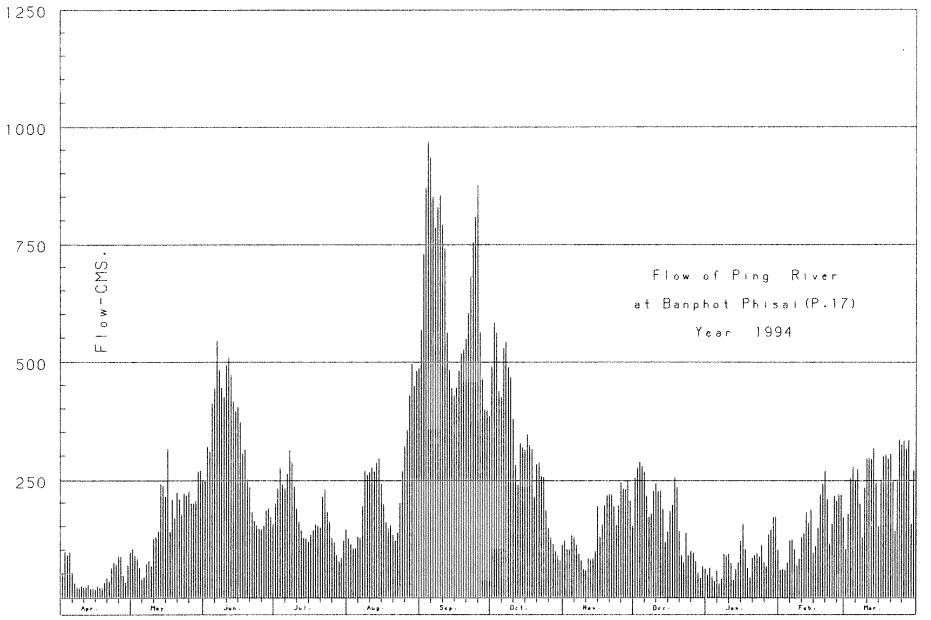
Ping River at Banphot Phisai, Nakhon Sawan (P.17)

Location	Lat. 15°-56'-02" N., Long. 99°-58'-49" E., on right bank at Som Sieo Market, Amphoe Banphot Phisai, Nakhon Sawan.
Drainage Area	45,851 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+32.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 5.00 meters from the top staff gage.
Elevation	+37.940 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1960, 1967 - 1974, 1990 to date.
Rated by Float	-
Rated by Current Meter	1954 - 1979, 1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Phumiphol Dam. Stage-discharge relation defined by 45 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.43	34.68	35.19	35.03	34.76	36.06	35.87	34.75	35.21	34.40	34.47	34.68	
2	34.65	34.62	35.40	35.13	34.72	36.42	36.10	34.68	35.27	34.49	34.47	34.95	
3	34.63	34.60	35.37	35.27	34.68	36.69	36.05	34.67	35.31	34.36	34.47	35.21	
4	34.65	34.49	35.66	35.16	34.69	36.87	35.73	34.79	35.28	34.30	34.55	35.28	
5	34.42	34.34	35.75	35.14	34.78	36.81	35.70	34.77	35.25	34.46	34.75	35.19	
6	34.27	34.35	36.01	35.23	34.76	36.65	35.97	34.71	35.08	34.23	34.75	35.26	
7	34.19	34.54	35.85	35.38	35.01	36.53	36.00	34.64	34.93	34.34	34.68	35.03	
8	34.14	34.57	35.75	35.30	35.25	36.61	35.87	34.57	34.95	34.64	34.53	34.77	
9	34.21	34.52	35.70	35.15	35.23	36.66	35.81	34.48	35.12	34.62	34.59	35.14	
10	34.16	34.76	35.88	34.99	35.24	36.54	35.57	34.45	35.17	34.64	34.77	35.33	
11	34.19	34.77	35.92	34.89	35.27	36.44	35.29	34.60	35.11	34.54	34.81	35.33	
12	34.22	34.82	35.83	34.83	35.25	36.05	35.16	34.58	35.12	34.32	34.96	35.33	
13	34.14	35.17	35.67	34.77	35.30	35.85	35.42	34.60	34.99	34.48	34.88	35.39	
14	34.13	35.15	35.62	34.76	35.33	35.75	35.40	34.66	34.73	34.56	34.99	35.17	
15	34.13	35.08	35.64	34.74	35.17	35.71	35.38	35.01	34.82	34.74	34.65	34.86	
16	34.19	35.39	35.55	34.79	35.02	35.75	35.48	34.78	34.97	34.88	34.70	35.20	
17	34.17	34.82	35.36	34.83	34.89	35.85	35.41	34.87	35.02	34.68	34.85	35.34	
18	34.14	35.05	35.38	34.87	34.84	35.94	35.39	35.01	35.21	34.49	35.09	35.35	
19	34.28	34.92	35.20	34.86	34.86	35.96	35.07	35.09	35.14	34.36	35.17	35.33	
20	34.34	35.10	35.14	34.85	34.79	36.02	35.29	35.09	34.82	34.60	35.25	35.36	
21	34.30	35.06	34.97	35.07	34.75	36.14	35.31	35.09	34.63	34.63	35.06	35.19	
22	34.49	34.94	34.90	35.13	34.81	36.32	35.22	35.01	34.56	34.64	34.72	34.82	
23	34.56	35.10	34.86	34.97	35.03	36.47	35.21	34.87	34.81	34.62	34.88	35.20	
24	34.53	35.08	34.84	34.89	35.25	36.57	34.98	35.01	34.62	34.71	35.08	35.44	
25	34.62	35.11	34.83	34.77	35.40	36.70	34.84	35.18	34.66	34.56	35.05	35.41	
26	34.61	35.03	34.86	34.73	35.50	36.05	34.77	35.13	34.65	34.51	35.09	35.44	
27	34.39	35.03	34.98	34.63	35.71	35.80	34.72	35.13	34.57	34.80	35.09	35.39	
28	34.26	35.04	34.99	34.57	35.89	35.63	34.66	35.18	34.42	34.83	34.92	35.44	
29	34.53	35.25	34.93	34.60	35.76	35.62	34.62	35.05	34.35	34.93		34.88	
30	34.65	35.25	34.87	34.75	35.85	35.59	34.58	34.86	34.51	34.93		35.26	
31		35.19		34.83	35.86		34.71		34.48	34.67		35.32	
Mean	34.35	34.90	35.36	34.93	35.15	36.20	35.34	34.84	34.90	34.58	34.83	35.20	
Max	34.65	35.39	36.01	35.38	35.89	36.87	36.10	35.18	35.31	34.93	35.25	35.44	36.87
Min	34.13	34.34	34.83	34.57	34.68	35.59	34.58	34.45	34.35	34.23	34.47	34.68	34.13

Annual Max Momentary Gage Height 36.88 M (MSL), at 12.00 Hours, on Sep 4, 1994
Zero Gage at Bottom Elevation 32.00 M (MSL), River Bed 32.44 M (MSL)
Left Bank Elevation 37.88 M (MSL)
Right Bank Elevation 37.77 M (MSL), Drainage Area 45851 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.5	105.0	250.0	202.0	126.2	568.8	490.7	123.5	256.4	50.0	60.5	105.0	
2	97.5	90.0	321.3	232.0	115.4	731.8	586.0	105.0	276.8	63.5	60.5	179.0	
3	92.5	85.0	311.0	276.8	105.0	872.3	564.5	102.5	290.4	44.8	60.5	256.4	
4	97.5	63.5	412.2	241.0	107.5	968.9	438.2	134.3	280.2	37.0	75.0	280.2	
5	53.0	42.2	445.7	235.0	131.6	936.7	427.0	128.9	270.0	59.0	123.5	250.0	
6	33.7	43.5	547.3	263.2	126.2	850.8	530.7	112.7	217.0	29.3	123.5	273.4	
7	25.1	73.0	483.2	314.5	196.0	786.9	543.0	95.0	173.4	42.2	105.0	202.0	
8	20.6	79.0	445.7	287.0	270.0	829.4	490.7	79.0	179.0	95.0	71.0	128.9	
9	27.1	69.0	427.0	238.0	263.2	856.2	468.3	62.0	229.0	90.0	83.0	235.0	
10	22.4	126.2	494.5	190.2	266.6	792.2	379.7	57.5	244.0	95.0	128.9	297.3	
11	25.1	128.9	510.2	162.2	276.8	741.6	283.6	85.0	226.0	73.0	139.8	297.3	
12	28.2	142.6	475.8	145.4	270.0	564.5	241.0	81.0	229.0	39.6	181.8	297.3	
13	20.6	244.0	415.9	128.9	287.0	483.2	328.2	85.0	190.2	62.0	159.4	317.9	
14	19.7	238.0	397.4	126.2	297.3	445.7	321.3	100.0	118.1	77.0	190.2	244.0	
15	19.7	217.0	404.8	120.8	244.0	430.7	314.5	196.0	142.6	120.8	97.5	153.8	
16	25.1	317.9	372.8	134.3	199.0	445.7	348.8	131.6	184.6	159.4	110.0	253.0	
17	23.3	142.6	307.6	145.4	162.2	483.2	324.8	156.6	199.0	105.0	151.0	300.7	
18	20.6	208.0	314.5	156.6	148.2	518.4	317.9	196.0	256.4	63.5	220.0	304.2	
19	34.8	170.6	253.0	153.8	153.8	526.6	214.0	220.0	235.0	44.8	244.0	297.3	
20	42.2	223.0	235.0	151.0	134.3	551.6	283.6	220.0	142.6	85.0	270.0	307.6	
21	37.0	211.0	184.6	214.0	123.5	603.8	290.4	220.0	92.5	92.5	211.0	250.0	
22	63.5	176.2	165.0	232.0	139.8	684.4	259.8	196.0	77.0	95.0	115.4	142.6	
23	77.0	223.0	153.8	184.6	202.0	756.3	256.4	156.6	139.8	90.0	159.4	253.0	
24	71.0	217.0	148.2	162.2	270.0	808.1	187.4	196.0	90.0	112.7	217.0	335.1	
25	90.0	226.0	145.4	128.9	321.3	877.7	148.2	247.0	100.0	77.0	208.0	324.8	
26	87.5	202.0	153.8	118.1	355.7	564.5	128.9	232.0	97.5	67.0	220.0	335.1	
27	48.7	202.0	187.4	92.5	430.7	464.5	115.4	232.0	79.0	137.0	220.0	317.9	
28	32.6	205.0	190.2	79.0	498.2	401.1	100.0	247.0	53.0	145.4	170.6	335.1	
29	71.0	270.0	173.4	85.0	449.5	397.4	90.0	208.0	43.5	173.4		159.4	
30	97.5	270.0	156.6	123.5	483.2	386.6	81.0	153.8	67.0	173.4		273.4	
31		250.0		145.4	487.0		112.7		62.0	102.5		293.9	
Total	1459.0	5261.2	9483.3	5469.5	7641.2	19329.6	9666.7	4560.0	5241.0	2701.8	4176.5	8000.6	82990.4 CMSDAY
Mean	48.6	169.7	316.1	176.4	246.5	644.3	311.8	152.0	169.1	87.2	149.2	258.1	227.4 CMS
Max	97.5	317.9	547.3	314.5	498.2	968.9	586.0	247.0	290.4	173.4	270.0	335.1	968.9 CMS
Min	19.7	42.2	145.4	79.0	105.0	386.6	81.0	57.5	43.5	29.3	60.5	105.0	19.7 CMS
Runoff	126.06	454.57	819.36	472.56	660.20	1670.08	835.20	393.98	452.82	233.44	360.85	691.25	7170.37 MCM

Momentary Peak 974.27 CMS, at 36.88 M (MSL), at 12.00 Hours, on Sep 4, 1994

Runoff Yield 4.96 Liters/Second/Square KM, Momentary Peak Yield 21.25 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

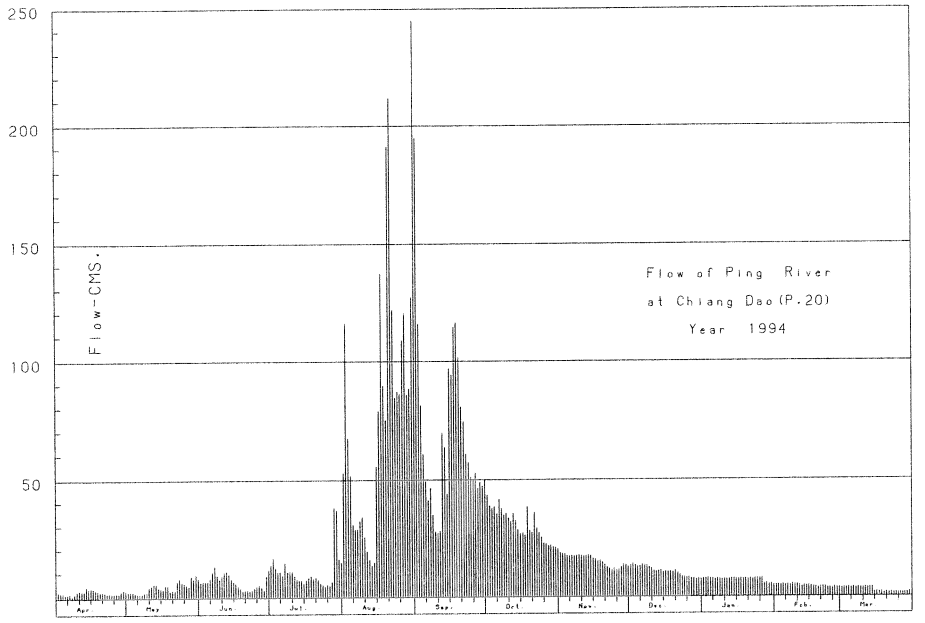
Ping River at Chiang Dao, Chiang Mai (P.20)

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. The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 39 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	0.53	0.74	1.00	1.60	2.65	1.09	0.68	0.57	0.41	0.33	0.29	
2	0.51	0.52	0.75	1.08	2.16	2.16	1.03	0.67	0.58	0.42	0.33	0.29	
3	0.49	0.53	0.76	0.97	1.76	1.88	1.01	0.67	0.57	0.42	0.33	0.29	
4	0.45	0.49	0.74	0.91	1.59	1.69	1.02	0.65	0.55	0.42	0.33	0.29	
5	0.46	0.47	0.82	0.92	1.34	1.56	0.98	0.65	0.56	0.41	0.33	0.29	
6	0.47	0.44	0.91	0.87	1.31	1.47	1.07	0.65	0.57	0.41	0.33	0.29	
7	0.40	0.47	0.99	1.02	1.31	1.53	1.01	0.65	0.57	0.41	0.33	0.29	
8	0.46	0.50	0.86	0.92	1.36	1.39	0.97	0.65	0.56	0.41	0.34	0.29	
9	0.55	0.52	0.81	0.92	1.38	1.30	0.98	0.66	0.55	0.40	0.34	0.29	
10	0.56	0.63	0.85	0.92	1.26	1.29	0.95	0.65	0.53	0.41	0.34	0.29	
11	0.54	0.67	0.91	0.86	1.14	1.30	0.92	0.65	0.51	0.40	0.32	0.29	
12	0.55	0.71	0.93	0.80	1.06	1.78	0.98	0.65	0.50	0.41	0.31	0.29	
13	0.66	0.70	0.88	0.78	0.99	1.72	0.93	0.66	0.51	0.41	0.32	0.29	
14	0.60	0.63	0.82	0.77	1.03	1.50	0.86	0.65	0.51	0.42	0.32	0.30	
15	0.63	0.60	0.76	0.72	1.63	2.01	0.83	0.63	0.50	0.41	0.32	0.47	
16	0.61	0.58	0.71	0.80	1.86	1.99	0.84	0.62	0.50	0.41	0.31	0.48	
17	0.58	0.68	0.66	0.82	2.31	2.15	0.82	0.61	0.50	0.41	0.31	0.49	
18	0.55	0.66	0.60	0.86	1.95	1.83	1.02	0.61	0.50	0.41	0.30	0.48	
19	0.53	0.55	0.55	0.81	1.83	1.71	0.86	0.60	0.50	0.41	0.29	0.46	
20	0.53	0.56	0.55	0.84	2.63	1.51	0.84	0.57	0.51	0.41	0.30	0.47	
21	0.50	0.57	0.56	0.79	2.74	1.45	0.99	0.55	0.49	0.41	0.31	0.47	
22	0.48	0.77	0.55	0.72	2.20	1.31	0.88	0.53	0.46	0.41	0.30	0.46	
23	0.48	0.81	0.55	0.68	1.91	1.27	0.84	0.52	0.44	0.41	0.29	0.47	
24	0.48	0.75	0.62	0.66	1.93	1.19	0.81	0.53	0.43	0.42	0.28	0.46	
25	0.46	0.71	0.64	0.68	1.92	1.18	0.76	0.52	0.43	0.42	0.29	0.46	
26	0.47	0.68	0.67	0.67	2.11	1.21	0.75	0.52	0.43	0.42	0.30	0.46	
27	0.48	0.66	0.64	0.74	2.19	1.13	0.74	0.55	0.42	0.35	0.29	0.46	
28	0.53	0.86	0.57	1.43	1.92	1.16	0.74	0.57	0.41	0.35	0.29	0.46	
29	0.57	0.80	0.86	1.42	1.94	1.14	0.73	0.57	0.41	0.34		0.47	
30	0.55	0.88	0.94	1.06	2.24	1.18	0.72	0.55	0.41	0.34		0.49	
31		0.81		1.03	2.90		0.71		0.41	0.33		0.47	
Mean	0.52	0.64	0.74	0.89	1.79	1.55	0.89	0.61	0.50	0.40	0.31	0.39	
Max	0.66	0.88	0.99	1.43	2.90	2.65	1.09	0.68	0.58	0.42	0.34	0.49	2.90
Min	0.40	0.44	0.55	0.66	0.99	1.13	0.71	0.52	0.41	0.33	0.28	0.29	0.28

Annual Max Momentary Gage Height 3.11 M (A.D), at 19.00 Hours, on Aug 31, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.77 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.52	2.68	6.60	13.80	53.00	195.00	43.48	19.00	13.74	7.74	5.16	3.96	
2	2.36	2.52	6.80	17.00	116.40	116.40	39.16	18.50	14.16	8.08	5.16	3.96	
3	2.08	2.68	7.00	12.78	68.00	81.60	37.72	18.50	13.74	8.08	5.16	3.96	
4	1.60	2.08	6.60	10.74	52.10	61.10	38.44	17.50	12.90	8.08	5.16	3.96	
5	1.72	1.84	8.32	11.08	31.24	49.40	35.80	17.50	13.32	7.74	5.16	3.96	
6	1.84	1.48	10.74	9.62	28.96	41.54	42.04	17.50	13.74	7.74	5.16	3.96	
7	1.00	1.84	13.46	14.60	28.96	46.70	37.72	17.50	13.74	7.74	5.16	3.96	
8	1.72	2.20	9.36	11.08	32.76	35.04	35.20	17.50	13.32	7.74	5.48	3.96	
9	3.00	2.52	8.06	11.08	34.28	28.20	35.80	18.00	12.90	7.40	5.48	3.96	
10	3.16	4.40	9.10	11.08	25.88	27.62	34.00	17.50	12.06	7.74	5.48	3.96	
11	2.84	5.20	10.74	9.36	19.64	28.20	32.20	17.50	11.22	7.40	4.84	3.96	
12	3.00	6.00	11.42	7.80	16.20	70.00	35.80	17.50	10.80	7.74	4.52	3.96	
13	5.00	5.80	9.88	7.40	13.46	64.00	32.80	18.00	11.22	7.74	4.84	3.96	
14	3.80	4.40	8.32	7.20	15.00	44.00	28.68	17.50	11.22	8.08	4.84	4.20	
15	4.40	3.80	7.00	6.20	55.70	97.20	26.94	16.50	10.80	7.74	4.84	1.84	
16	4.00	3.48	6.00	7.80	79.20	94.80	27.52	16.00	10.80	7.74	4.52	1.96	
17	3.48	5.40	5.00	8.32	137.60	115.00	26.36	15.50	10.80	7.74	4.52	2.08	
18	3.00	5.00	3.80	9.36	90.00	116.60	38.44	15.50	10.80	7.74	4.20	1.96	
19	2.68	3.00	3.00	8.06	75.60	102.20	28.68	15.00	10.80	7.74	3.96	1.72	
20	2.68	3.16	3.00	8.84	191.40	81.00	27.52	13.74	11.22	7.74	4.20	1.84	
21	2.20	3.32	3.16	7.60	212.00	75.00	36.40	12.90	10.46	7.74	4.52	1.84	
22	1.96	7.20	3.00	6.20	122.00	61.00	29.84	12.06	9.44	7.74	4.20	1.72	
23	1.96	8.06	3.00	5.40	85.20	57.60	27.52	11.64	8.76	7.74	3.96	1.84	
24	1.96	6.80	4.20	5.00	87.60	51.22	25.78	12.06	8.42	8.08	3.72	1.72	
25	1.72	6.00	4.60	5.40	86.40	50.44	23.12	11.64	8.42	8.08	3.96	1.72	
26	1.84	5.40	5.20	5.20	109.40	52.80	22.60	11.64	8.42	8.08	4.20	1.72	
27	1.96	5.00	4.60	6.60	120.60	46.54	22.08	12.90	8.08	5.80	3.96	1.72	
28	2.68	9.36	3.32	38.26	86.40	48.88	22.08	13.74	7.74	5.80	3.96	1.72	
29	3.32	7.80	9.36	37.44	88.80	47.32	21.56	13.74	7.74	5.48		1.84	
30	3.00	9.88	11.76	16.20	127.60	50.44	21.04	12.90	7.74	5.48		2.08	
31		8.06		15.00	245.00		20.52		7.74	5.16		1.84	
Total	78.48	146.36	206.40	351.50	2536.38	2036.84	956.84	466.96	336.26	230.66	130.32	86.84	7563.84 CMSDAY
Mean	2.62	4.72	6.88	11.34	81.82	67.89	30.87	15.57	10.85	7.44	4.65	2.80	20.72 CMS
Max	5.00	9.88	13.46	38.26	245.00	195.00	43.48	19.00	14.16	8.08	5.48	4.20	245.00 CMS
Min	1.00	1.48	3.00	5.00	13.46	27.62	20.52	11.64	7.74	5.16	3.72	1.72	1.00 CMS
Runoff	6.781	12.646	17.833	30.370	219.143	175.983	82.671	40.345	29.053	19.929	11.260	7.503	653.516 MCM

Momentary Peak 292.40 CMS, at 3.11 M (A.D), at 19.00 Hours, on Aug 31, 1994
Runoff Yield 15.29 Liters/Second/Square KM, Momentary Peak Yield 215.79 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

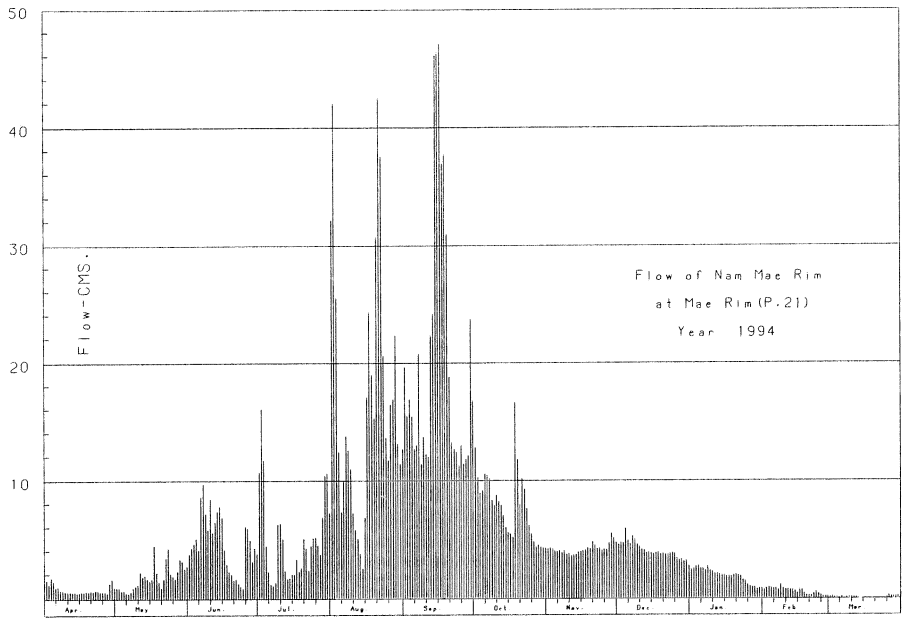
Nam Mae Rim at Mae Rim, Chiang Mai (P.21)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +322.59 m.(M.S.L.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.47	320.39	320.70	321.24	322.49	321.83	321.39	320.74	320.77	320.58	320.36	320.17	
2	320.43	320.38	320.74	321.61	322.97	321.57	321.21	320.74	320.78	320.60	320.37	320.17	
3	320.50	320.34	320.77	321.31	322.16	321.66	321.11	320.74	320.78	320.61	320.40	320.13	
4	320.46	320.34	320.81	320.76	321.36	321.57	321.13	320.72	320.88	320.62	320.38	320.09	
5	320.40	320.31	320.73	320.56	321.00	321.38	321.23	320.72	320.80	320.60	320.38	320.08	
6	320.40	320.29	321.09	320.43	321.19	321.40	321.22	320.72	320.77	320.59	320.37	320.14	
7	320.35	320.33	321.17	320.41	321.46	321.90	321.20	320.71	320.83	320.58	320.36	320.12	
8	320.34	320.38	320.99	320.45	321.37	321.29	321.07	320.72	320.80	320.61	320.42	320.10	
9	320.33	320.41	320.87	320.91	321.26	321.45	321.04	320.70	320.77	320.58	320.38	320.16	
10	320.32	320.42	321.08	320.92	320.99	321.35	321.10	320.70	320.75	320.56	320.36	320.15	
11	320.32	320.56	320.85	320.81	320.87	321.33	321.06	320.69	320.73	320.54	320.36	320.16	
12	320.32	320.51	320.93	320.57	320.81	322.00	321.04	320.69	320.73	320.55	320.36	320.10	
13	320.32	320.52	321.00	320.49	320.70	322.09	320.97	320.70	320.71	320.53	320.35	320.07	
14	320.31	320.49	321.03	320.49	320.60	323.14	320.89	320.71	320.71	320.53	320.34	320.05	
15	320.31	320.46	320.96	320.54	320.96	323.15	320.85	320.72	320.71	320.53	320.30	320.04	
16	320.32	320.48	320.73	320.53	321.67	323.18	320.84	320.72	320.70	320.51	320.37	320.07	
17	320.33	320.76	320.63	320.66	322.10	322.73	320.82	320.73	320.71	320.52	320.36	320.06	
18	320.33	320.55	320.56	320.57	321.79	322.77	321.64	320.74	320.71	320.51	320.29	320.05	
19	320.33	320.45	320.54	320.60	321.56	322.43	321.32	320.74	320.70	320.53	320.23	320.04	
20	320.34	320.39	320.47	320.81	322.42	321.78	321.04	320.79	320.70	320.53	320.22	320.04	
21	320.33	320.49	320.48	320.74	322.99	321.42	321.20	320.76	320.70	320.52	320.23	320.04	
22	320.35	320.67	320.44	320.58	322.76	321.38	321.14	320.74	320.70	320.52	320.30	320.02	
23	320.34	320.74	320.40	320.76	321.89	321.36	321.02	320.74	320.70	320.48	320.32	320.06	
24	320.33	320.54	320.38	320.81	321.45	321.28	320.90	320.73	320.71	320.46	320.29	320.11	
25	320.32	320.51	320.90	320.82	321.31	321.40	320.84	320.73	320.70	320.42	320.23	320.18	
26	320.32	320.49	320.88	320.76	321.63	321.29	320.79	320.73	320.67	320.41	320.15	320.22	
27	320.31	320.57	320.80	320.70	321.66	321.32	320.75	320.78	320.66	320.40	320.20	320.20	
28	320.44	320.66	320.65	320.96	322.00	321.34	320.76	320.85	320.66	320.39	320.18	320.17	
29	320.48	320.65	320.74	321.22	321.41	322.07	320.75	320.81	320.65	320.37		320.20	
30	320.39	320.59	320.70	321.23	321.29	321.65	320.74	320.78	320.65	320.37		320.21	
31		320.61		320.99	321.38		320.74		320.62	320.37		320.20	
Mean	320.36	320.49	320.77	320.78	321.60	321.82	321.03	320.74	320.72	320.51	320.32	320.12	
Max	320.50	320.76	321.17	321.61	322.99	323.18	321.64	320.85	320.88	320.62	320.42	320.22	323.18
Min	320.31	320.29	320.38	320.41	320.60	321.28	320.74	320.69	320.62	320.37	320.15	320.02	320.02

Annual Max Momentary Gage Height 323.38 M (MSL), at 8.00 Hours, on Sep 16, 1994
Zero Gage at Bottom Elevation 319.70 M (MSL), River Bed 319.73 M (MSL)
Left Bank Elevation 322.58 M (MSL)
Right Bank Elevation 323.20 M (MSL), Drainage Area 515 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.56	0.95	3.80	10.76	32.20	19.68	12.86	4.28	4.64	2.44	0.78	0.17	
2	1.24	0.89	4.28	16.16	42.08	15.52	10.34	4.28	4.76	2.60	0.84	0.17	
3	1.80	0.67	4.64	11.74	25.60	16.96	8.94	4.28	4.76	2.72	1.00	0.13	
4	1.48	0.67	5.12	4.52	12.44	15.52	9.22	4.04	5.96	2.84	0.89	0.09	
5	1.00	0.51	4.16	2.28	7.40	12.72	10.62	4.04	5.00	2.60	0.89	0.08	
6	1.00	0.43	8.66	1.24	10.06	13.00	10.48	4.04	4.64	2.52	0.84	0.14	
7	0.73	0.61	9.78	1.08	13.84	20.80	10.20	3.92	5.36	2.44	0.78	0.12	
8	0.67	0.89	7.28	1.40	12.58	11.46	8.38	4.04	5.00	2.72	1.16	0.10	
9	0.61	1.08	5.84	6.32	11.04	13.70	7.96	3.80	4.64	2.44	0.89	0.16	
10	0.56	1.16	8.52	6.44	7.28	12.30	8.80	3.80	4.40	2.28	0.78	0.15	
11	0.56	2.28	5.60	5.12	5.84	12.02	8.24	3.68	4.16	2.12	0.78	0.16	
12	0.56	1.88	6.56	2.36	5.12	22.40	7.96	3.68	4.16	2.20	0.78	0.10	
13	0.56	1.96	7.40	1.72	3.80	24.20	7.04	3.80	3.92	2.04	0.73	0.07	
14	0.51	1.72	7.82	1.72	2.60	46.16	6.08	3.92	3.92	2.04	0.67	0.05	
15	0.51	1.48	6.92	2.12	6.92	46.40	5.60	4.04	3.92	2.04	0.45	0.04	
16	0.56	1.64	4.16	2.04	17.12	47.12	5.48	4.04	3.80	1.88	0.84	0.07	
17	0.61	4.52	2.96	3.32	24.40	37.00	5.24	4.16	3.92	1.96	0.78	0.06	
18	0.61	2.20	2.28	2.36	19.04	37.80	16.64	4.28	3.92	1.88	0.43	0.05	
19	0.61	1.40	2.12	2.60	15.36	31.00	11.88	4.28	3.80	2.04	0.28	0.04	
20	0.67	0.95	1.56	5.12	30.80	18.88	7.96	4.88	3.80	2.04	0.25	0.04	
21	0.61	1.72	1.64	4.28	42.56	13.28	10.20	4.52	3.80	1.96	0.28	0.04	
22	0.73	3.44	1.32	2.44	37.60	12.72	9.36	4.28	3.80	1.96	0.45	0.02	
23	0.67	4.28	1.00	4.52	20.64	12.44	7.68	4.28	3.80	1.64	0.56	0.06	
24	0.61	2.12	0.89	5.12	13.70	11.32	6.20	4.16	3.92	1.48	0.43	0.11	
25	0.56	1.88	6.20	5.24	11.74	13.00	5.48	4.16	3.80	1.16	0.28	0.18	
26	0.56	1.72	5.96	4.52	16.48	11.46	4.88	4.16	3.44	1.08	0.15	0.25	
27	0.51	2.36	5.00	3.80	16.96	11.88	4.40	4.76	3.32	1.00	0.20	0.20	
28	1.32	3.32	3.20	6.92	22.40	12.16	4.52	5.60	3.32	0.95	0.18	0.17	
29	1.64	3.20	4.28	10.48	13.14	23.80	4.40	5.12	3.20	0.84		0.20	
30	0.95	2.52	3.80	10.62	11.46	16.80	4.28	4.76	3.20	0.84		0.22	
31		2.72		7.28	12.72		4.28		2.84	0.84		0.20	
Total	24.57	57.17	142.75	155.64	524.92	613.50	245.60	127.08	126.92	59.59	17.37	3.64	2098.75 CMSDAY
Mean	0.82	1.84	4.76	5.02	16.93	20.45	7.92	4.24	4.09	1.92	0.62	0.12	5.75 CMS
Max	1.80	4.52	9.78	16.16	42.56	47.12	16.64	5.60	5.96	2.84	1.16	0.25	47.12 CMS
Min	0.51	0.43	0.89	1.08	2.60	11.32	4.28	3.68	2.84	0.84	0.15	0.02	0.02 CMS
Runoff	2.123	4.939	12.334	13.447	45.353	53.006	21.220	10.980	10.966	5.149	1.501	0.314	181.332 MCM

Momentary Peak 51.92 CMS, at 323.38 M (MSL), at 8.00 Hours, on Sep 16, 1994

Runoff Yield 11.17 Liters/Second/Square KM, Momentary Peak Yield 100.82 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

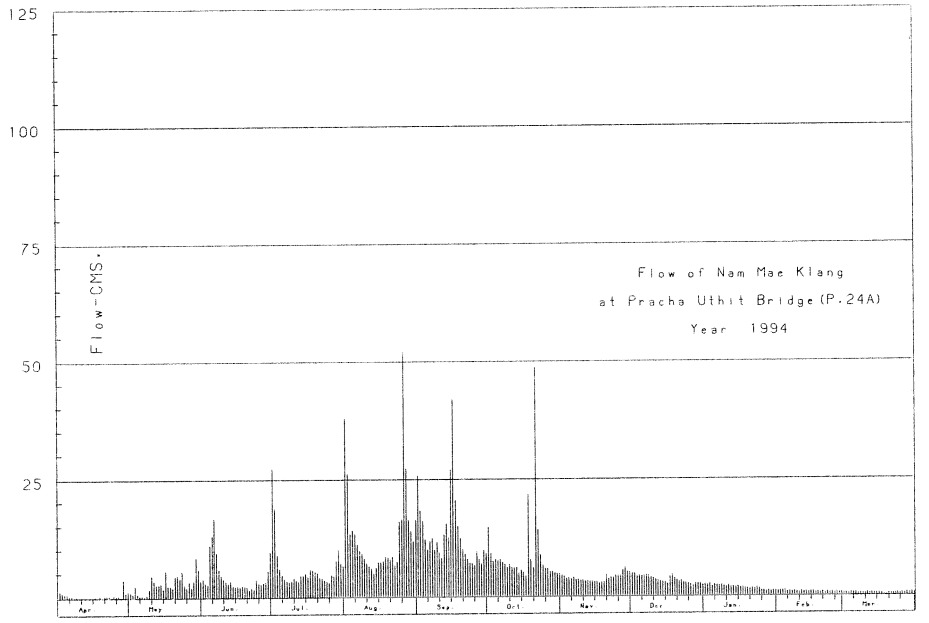
Nam Mae Klang at Pracha Uthit Bridge, Chaiang Mai (P.24A)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +277.86 m.(M.S.L.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.73	275.69	275.94	277.08	277.43	277.02	276.55	275.99	276.01	275.82	275.69	275.63	
2	275.66	275.63	275.86	276.75	277.04	276.73	276.28	275.97	276.00	275.83	275.69	275.61	
3	275.65	275.81	275.85	276.26	276.49	276.63	276.17	275.94	275.97	275.84	275.71	275.61	
4	275.63	275.65	276.36	276.08	276.52	276.42	276.21	275.94	275.97	275.80	275.71	275.62	
5	275.57	275.53	276.47	276.00	276.49	276.32	276.19	275.93	275.97	275.82	275.67	275.63	
6	275.56	275.55	276.65	275.93	276.37	276.40	276.20	275.94	275.97	275.82	275.67	275.62	
7	275.53	275.54	276.29	275.91	276.31	276.44	276.17	275.92	275.99	275.80	275.67	275.60	
8	275.52	275.57	276.08	275.88	276.27	276.31	276.13	275.91	275.97	275.82	275.67	275.60	
9	275.51	275.76	275.98	275.91	276.22	276.39	276.10	275.91	275.95	275.79	275.67	275.61	
10	275.50	275.99	275.94	275.95	276.15	276.28	276.13	275.90	275.93	275.79	275.65	275.60	
11	275.50	275.90	275.89	275.91	276.12	276.22	276.09	275.89	275.92	275.80	275.67	275.63	
12	275.48	275.83	275.87	275.90	276.08	276.48	276.09	275.89	275.90	275.78	275.67	275.61	
13	275.48	275.85	275.90	275.98	276.02	276.59	276.10	275.89	275.89	275.78	275.65	275.61	
14	275.48	275.85	275.83	275.99	276.09	276.44	276.02	275.88	275.87	275.78	275.66	275.61	
15	275.48	275.77	275.80	276.01	276.17	277.07	276.05	275.88	275.86	275.78	275.65	275.59	
16	275.52	276.06	275.81	275.96	276.16	277.55	276.02	275.87	275.84	275.77	275.66	275.60	
17	275.52	275.81	275.81	276.08	276.19	276.82	275.98	275.86	275.96	275.77	275.65	275.59	
18	275.55	275.82	275.81	276.06	276.23	276.57	276.87	275.86	275.99	275.76	275.65	275.59	
19	275.52	275.77	275.82	276.05	276.23	276.44	276.19	275.88	275.94	275.74	275.64	275.57	
20	275.58	275.98	275.79	276.02	276.20	276.32	276.08	275.98	275.90	275.74	275.65	275.57	
21	275.54	275.98	275.75	275.96	276.24	276.27	277.74	275.93	275.89	275.75	275.64	275.58	
22	275.55	275.95	275.78	275.94	276.12	276.20	276.53	275.94	275.89	275.75	275.64	275.58	
23	275.53	276.04	275.76	275.92	276.18	276.16	276.25	275.95	275.87	275.76	275.64	275.60	
24	275.57	275.84	275.92	275.89	276.61	276.14	276.13	275.97	275.85	275.76	275.64	275.60	
25	275.55	275.77	275.87	275.88	276.64	276.13	276.09	275.98	275.85	275.71	275.63	275.59	
26	275.54	275.90	275.84	276.00	277.83	276.29	276.07	275.97	275.82	275.70	275.64	275.60	
27	275.52	275.80	275.88	275.97	277.08	276.21	276.04	276.06	275.81	275.69	275.64	275.61	
28	275.93	275.90	275.88	276.19	276.63	276.14	276.03	276.09	275.84	275.69	275.63	275.62	
29	275.69	276.23	276.06	276.31	276.52	276.31	276.02	276.04	275.85	275.69		275.62	
30	275.71	276.07	276.29	276.16	276.40	276.27	276.00	276.02	275.84	275.69		275.63	
31		275.90		276.11	276.63		276.00		275.82	275.69		275.62	
Mean	275.57	275.83	275.96	276.07	276.44	276.45	276.21	275.94	275.91	275.76	275.66	275.60	
Max	275.93	276.23	276.65	277.08	277.83	277.55	277.74	276.09	276.01	275.84	275.71	275.63	277.83
Min	275.48	275.53	275.75	275.88	276.02	276.13	275.98	275.86	275.81	275.69	275.63	275.57	275.48

Annual Max Momentary Gage Height 278.49 M (MSL), at 23.00 Hours, on Sep 15, 1994
Zero Gage at Bottom Elevation 274.69 M (MSL), River Bed 275.23 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.53	1.14	4.06	27.46	37.96	25.84	14.80	4.76	5.05	2.54	1.14	0.78	
2	0.96	0.78	3.02	19.00	26.38	18.52	9.44	4.48	4.90	2.66	1.14	0.66	
3	0.90	2.42	2.90	9.08	13.60	16.40	7.52	4.06	4.48	2.78	1.31	0.66	
4	0.78	0.90	11.00	6.10	14.20	12.20	8.18	4.06	4.48	2.30	1.31	0.72	
5	0.48	0.32	13.20	4.90	13.60	10.20	7.84	3.92	4.48	2.54	1.02	0.78	
6	0.44	0.40	16.80	3.92	11.20	11.80	8.00	4.06	4.48	2.54	1.02	0.72	
7	0.32	0.36	9.62	3.64	10.00	12.60	7.52	3.78	4.76	2.30	1.02	0.60	
8	0.28	0.48	6.10	3.26	9.26	10.00	6.88	3.64	4.48	2.54	1.02	0.60	
9	0.24	1.86	4.62	3.64	8.36	11.60	6.40	3.64	4.20	2.19	1.02	0.66	
10	0.20	4.76	4.06	4.20	7.20	9.44	6.88	3.50	3.92	2.19	0.90	0.60	
11	0.20	3.50	3.38	3.64	6.72	8.36	6.25	3.38	3.78	2.30	1.02	0.78	
12	0.16	2.66	3.14	3.50	6.10	13.40	6.25	3.38	3.50	2.08	1.02	0.66	
13	0.16	2.90	3.50	4.62	5.20	15.60	6.40	3.38	3.38	2.08	0.90	0.66	
14	0.16	2.90	2.66	4.76	6.25	12.60	5.20	3.26	3.14	2.08	0.96	0.66	
15	0.16	1.97	2.30	5.05	7.52	27.19	5.65	3.26	3.02	2.08	0.90	0.56	
16	0.28	5.80	2.42	4.34	7.36	42.00	5.20	3.14	2.78	1.97	0.96	0.60	
17	0.28	2.42	2.42	6.10	7.84	20.70	4.62	3.02	4.34	1.97	0.90	0.56	
18	0.40	2.54	2.42	5.80	8.54	15.20	21.95	3.02	4.76	1.86	0.90	0.56	
19	0.28	1.97	2.54	5.65	8.54	12.60	7.84	3.26	4.06	1.64	0.84	0.48	
20	0.52	4.62	2.19	5.20	8.00	10.20	6.10	4.62	3.50	1.64	0.90	0.48	
21	0.36	4.62	1.75	4.34	8.72	9.26	48.84	3.92	3.38	1.75	0.84	0.52	
22	0.40	4.20	2.08	4.06	6.72	8.00	14.40	4.06	3.38	1.75	0.84	0.52	
23	0.32	5.50	1.86	3.78	7.68	7.36	8.90	4.20	3.14	1.86	0.84	0.60	
24	0.48	2.78	3.78	3.38	16.00	7.04	6.88	4.48	2.90	1.86	0.84	0.60	
25	0.40	1.97	3.14	3.26	16.60	6.88	6.25	4.62	2.90	1.31	0.78	0.56	
26	0.36	3.50	2.78	4.90	52.20	9.62	5.95	4.48	2.54	1.20	0.84	0.60	
27	0.28	2.30	3.26	4.48	27.46	8.18	5.50	5.80	2.42	1.14	0.84	0.66	
28	3.92	3.50	3.26	7.84	16.40	7.04	5.35	6.25	2.78	1.14	0.78	0.72	
29	1.14	8.54	5.80	10.00	14.20	10.00	5.20	5.50	2.90	1.14		0.72	
30	1.31	5.95	9.62	7.36	11.80	9.26	4.90	5.20	2.78	1.14		0.78	
31		3.50		6.56	16.40		4.90		2.54	1.14		0.72	
Total	17.70	91.06	139.68	193.82	418.01	399.09	275.99	122.13	113.15	59.71	26.80	19.78	1876.92 CMSDAY
Mean	0.59	2.94	4.66	6.25	13.48	13.30	8.90	4.07	3.65	1.93	0.96	0.64	5.14 CMS
Max	3.92	8.54	16.80	27.46	52.20	42.00	48.84	6.25	5.05	2.78	1.31	0.78	52.20 CMS
Min	0.16	0.32	1.75	3.26	5.20	6.88	4.62	3.02	2.42	1.14	0.78	0.48	0.16 CMS
Runoff	1.529	7.868	12.068	16.746	36.116	34.481	23.846	10.552	9.776	5.159	2.316	1.709	162.166 MCM

Momentary Peak 80.16 CMS, at 278.49 M (MSL), at 23.00 Hours, on Sep 15, 1994

Runoff Yield 11.18 Liters/Second/Square KM, Momentary Peak Yield 174.26 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

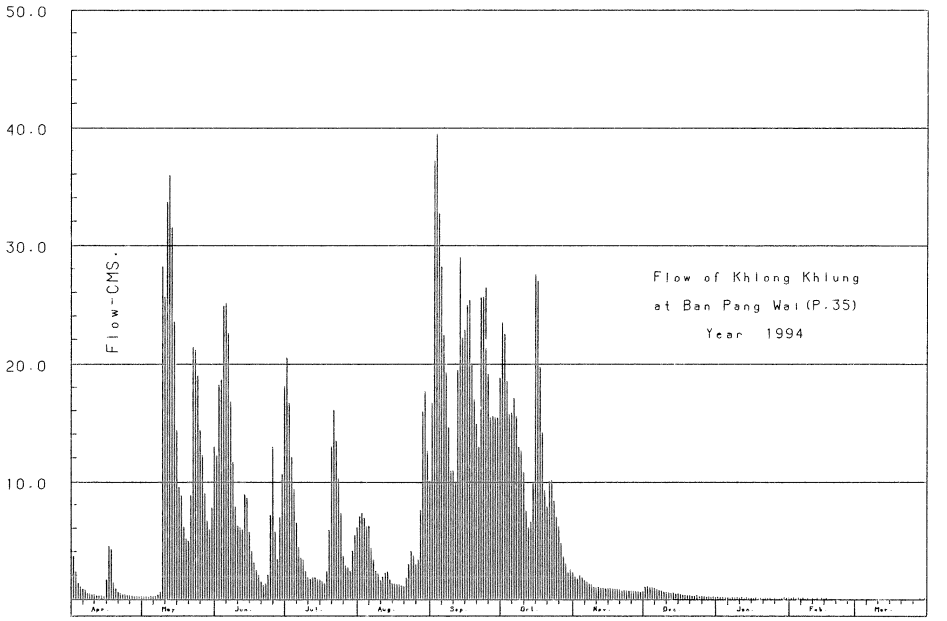
Khlong Khlung at Ban Pang Wai, Kamphaeng Phet (P.35)

Location	Lat. 16°-04'-22" N., Long. 99°-24'-18" E., on right bank at Ban Pang Wai about 1.5 kilometers from Khao Song Phi Nong, Amphoe Khlong Khlung, Kamphaeng Phet.
Drainage Area	730 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 34 meters from the top staff gage.
Elevation	+4.502 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1974 to date.
Rating Operation	
Period of Rating	1974 to date.
Rated by Float	-
Rated by Current Meter	1974 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 95 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.84	-0.06	1.74	2.34	1.24	2.08	2.53	0.53	0.35	-0.09	-0.14	-0.24	
2	0.61	-0.07	2.19	2.08	1.28	3.28	2.47	0.50	0.35	-0.10	-0.14	-0.24	
3	0.44	-0.07	2.22	1.73	1.23	3.39	2.21	0.55	0.33	-0.11	-0.15	-0.23	
4	0.35	-0.03	2.62	1.49	1.14	3.05	2.01	0.52	0.32	-0.11	-0.16	-0.24	
5	0.29	-0.04	2.63	1.18	1.15	2.81	2.02	0.48	0.32	-0.11	-0.17	-0.24	
6	0.24	-0.05	2.47	0.93	0.92	2.46	2.11	0.45	0.26	-0.12	-0.17	-0.24	
7	0.13	0.07	2.09	0.82	0.80	2.26	2.00	0.43	0.24	-0.12	-0.18	-0.24	
8	0.09	0.15	1.69	0.79	0.62	1.93	1.80	0.41	0.21	-0.11	-0.18	-0.24	
9	0.07	2.81	1.34	0.62	0.58	1.63	1.77	0.35	0.18	-0.12	-0.18	-0.24	
10	0.05	2.66	1.15	0.52	0.48	1.63	1.62	0.31	0.15	-0.12	-0.18	-0.24	
11	0.02	3.10	1.13	0.50	0.53	1.55	1.30	0.33	0.15	-0.13	-0.18	-0.24	
12	0.01	3.22	1.11	0.52	0.59	2.27	1.13	0.31	0.13	-0.14	-0.18	-0.24	
13	0.00	2.99	1.45	0.53	0.61	2.85	1.19	0.30	0.13	-0.14	-0.18	-0.25	
14	0.00	2.53	1.42	0.49	0.49	2.45	1.54	0.29	0.10	-0.14	-0.18	-0.25	
15	0.49	1.91	1.09	0.49	0.43	2.49	2.77	0.31	0.09	-0.14	-0.19	-0.25	
16	0.94	1.51	0.89	0.46	0.42	2.62	2.74	0.30	0.08	-0.15	-0.20	-0.25	
17	0.91	1.44	0.75	0.43	0.42	2.65	2.29	0.29	0.05	-0.15	-0.20	-0.25	
18	0.44	1.14	0.64	0.61	0.41	2.31	1.89	0.27	0.03	-0.16	-0.21	-0.25	
19	0.30	1.02	0.56	1.11	0.40	2.10	1.48	0.28	0.03	-0.17	-0.21	-0.26	
20	0.18	1.00	0.46	1.80	0.35	1.95	1.34	0.25	0.02	-0.18	-0.21	-0.26	
21	0.10	1.44	0.40	2.04	0.52	1.80	1.55	0.22	0.01	-0.17	-0.21	-0.26	
22	0.07	2.40	0.43	1.84	0.73	2.66	1.56	0.24	0.01	-0.17	-0.22	-0.27	
23	0.05	2.38	0.56	1.57	0.89	2.66	1.40	0.22	0.02	-0.17	-0.23	-0.27	
24	0.03	2.24	1.26	1.27	0.84	2.71	1.24	0.22	-0.03	-0.18	-0.23	-0.27	
25	0.01	1.91	1.80	0.84	0.72	2.25	1.14	0.21	-0.03	-0.18	-0.23	-0.27	
26	-0.01	1.74	1.09	0.70	0.80	1.99	0.97	0.19	-0.04	-0.19	-0.23	-0.28	
27	-0.03	1.46	0.81	0.68	1.31	2.00	0.83	0.19	-0.06	-0.19	-0.24	-0.27	
28	-0.04	1.20	1.23	0.62	2.03	1.99	0.73	0.18	-0.06	-0.15	-0.24	-0.18	
29	-0.04	1.11	1.61	0.89	2.15	1.99	0.60	0.18	-0.07	-0.13		-0.17	
30	-0.05	1.33	2.18	1.06	1.77	2.23	0.64	0.18	-0.07	-0.13		-0.18	
31		1.80		1.13	1.55		0.60		-0.08	-0.13		-0.19	
Mean	0.22	1.43	1.37	1.03	0.88	2.33	1.60	0.32	0.10	-0.14	-0.19	-0.24	
Max	0.94	3.22	2.63	2.34	2.15	3.39	2.77	0.55	0.35	-0.09	-0.14	-0.17	3.39
Min	-0.05	-0.07	0.40	0.43	0.35	1.55	0.60	0.18	-0.08	-0.19	-0.24	-0.28	-0.28

Annual Max Momentary Gage Height 3.48 M (A.D), at 6.00 Hours, on Sep 3, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.30 M (A.D)
Left Bank Elevation 12.00 M (A.D)
Right Bank Elevation 4.51 M (A.D), Drainage Area 730 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.72	0.24	12.28	20.57	7.04	16.72	23.52	1.91	1.08	0.21	0.16	0.02	
2	2.36	0.23	18.26	16.72	7.38	37.24	22.59	1.75	1.08	0.20	0.16	0.02	
3	1.42	0.23	18.71	12.16	6.96	39.50	18.55	2.03	1.03	0.19	0.15	0.04	
4	1.08	0.27	24.95	9.39	6.19	32.75	15.74	1.86	1.00	0.19	0.14	0.02	
5	0.93	0.26	25.13	6.53	6.28	28.28	15.88	1.64	1.00	0.19	0.13	0.02	
6	0.80	0.25	22.59	4.44	4.36	22.43	17.14	1.48	0.85	0.18	0.13	0.02	
7	0.56	0.44	16.86	3.56	3.40	19.33	15.60	1.37	0.80	0.18	0.12	0.02	
8	0.48	0.60	11.68	3.35	2.41	14.69	13.00	1.26	0.72	0.19	0.12	0.02	
9	0.44	28.28	7.89	2.41	2.19	10.96	12.64	1.08	0.66	0.18	0.12	0.02	
10	0.40	25.65	6.28	1.86	1.64	10.96	10.84	0.98	0.60	0.18	0.12	0.02	
11	0.34	33.70	6.11	1.75	1.91	10.05	7.55	1.03	0.60	0.17	0.12	0.02	
12	0.32	36.01	5.94	1.86	2.25	19.48	6.11	0.98	0.56	0.16	0.12	0.02	
13	0.30	31.61	8.95	1.91	2.36	29.02	6.62	0.95	0.56	0.16	0.12	0.00	
14	0.30	23.52	8.62	1.70	1.70	22.28	9.94	0.93	0.50	0.16	0.12	0.00	
15	1.70	14.43	5.77	1.70	1.37	22.90	27.57	0.98	0.48	0.16	0.11	0.00	
16	4.52	9.61	4.12	1.53	1.31	24.95	27.05	0.95	0.46	0.15	0.10	0.00	
17	4.28	8.84	3.13	1.37	1.31	25.48	19.79	0.93	0.40	0.15	0.10	0.00	
18	1.42	6.19	2.52	2.36	1.26	20.10	14.17	0.88	0.36	0.14	0.08	0.00	
19	0.95	5.17	2.08	5.94	1.20	17.00	9.28	0.90	0.36	0.13	0.08	0.00	
20	0.66	5.00	1.53	13.00	1.08	14.95	7.89	0.83	0.34	0.12	0.08	0.00	
21	0.50	8.84	1.20	16.16	1.86	13.00	10.05	0.75	0.32	0.13	0.08	0.00	
22	0.44	21.50	1.37	13.52	3.02	25.65	10.16	0.80	0.32	0.13	0.06	0.00	
23	0.40	21.19	2.08	10.27	4.12	25.65	8.40	0.75	0.34	0.13	0.04	0.00	
24	0.36	19.02	7.21	7.30	3.72	26.53	7.04	0.75	0.27	0.12	0.04	0.00	
25	0.32	14.43	13.00	3.72	2.96	19.17	6.19	0.72	0.27	0.12	0.04	0.00	
26	0.29	12.28	5.77	2.85	3.40	15.47	4.76	0.68	0.26	0.11	0.04	0.00	
27	0.27	9.06	3.48	2.74	7.63	15.60	3.64	0.68	0.24	0.11	0.02	0.00	
28	0.26	6.70	6.96	2.41	16.02	15.47	3.02	0.66	0.24	0.15	0.02	0.12	
29	0.26	5.94	10.72	4.12	17.70	15.47	2.30	0.66	0.23	0.17		0.13	
30	0.25	7.81	18.12	5.51	12.64	18.86	2.52	0.66	0.23	0.17		0.12	
31		13.00		6.11	10.05		2.30		0.22	0.17		0.11	
Total	30.33	370.30	283.31	188.82	146.72	629.94	361.85	31.83	16.38	4.90	2.72	0.74	2067.84 CMSDAY
Mean	1.01	11.95	9.44	6.09	4.73	21.00	11.67	1.06	0.53	0.16	0.10	0.02	5.67 CMS
Max	4.52	36.01	25.13	20.57	17.70	39.50	27.57	2.03	1.08	0.21	0.16	0.13	39.50 CMS
Min	0.25	0.23	1.20	1.37	1.08	10.05	2.30	0.66	0.22	0.11	0.02	0.00	0.00 CMS
Runoff	2.621	31.994	24.478	16.314	12.677	54.427	31.264	2.750	1.415	0.423	0.235	0.064	178.661 MCM

Momentary Peak 41.54 CMS, at 3.48 M (A.D), at 6.00 Hours, on Sep 3, 1994

Runoff Yield 7.76 Liters/Second/Square KM, Momentary Peak Yield 56.90 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

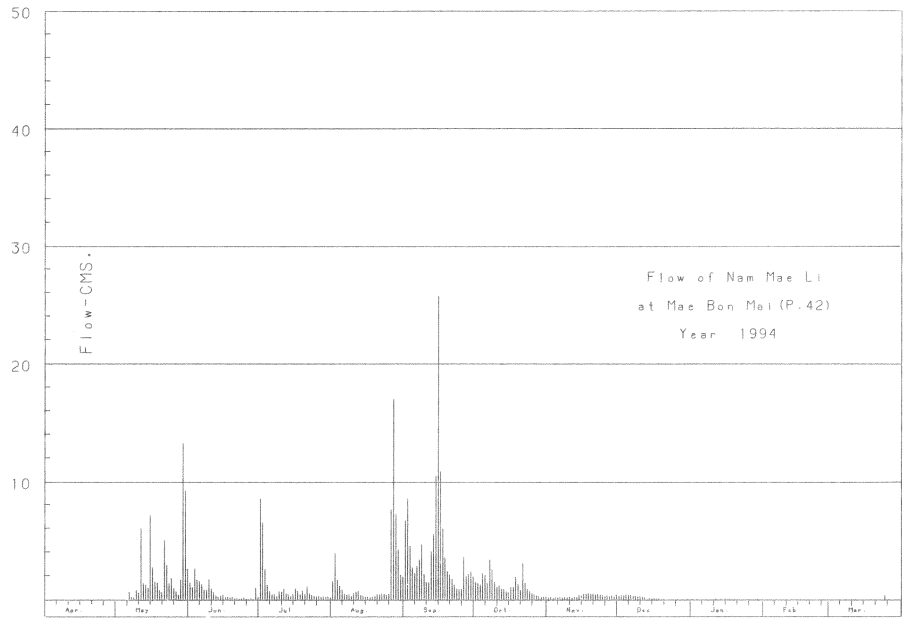
Nam Mae Li at Ban Mae Bon Mai, Lamphun (P.42)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 120 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	500.38	500.36	501.06	502.28	501.10	502.05	501.09	500.56	500.65	500.45	500.41	500.43	
2	500.38	500.37	500.95	502.02	501.63	502.27	501.04	500.56	500.65	500.45	500.41	500.42	
3	500.38	500.36	501.38	501.37	501.15	501.73	501.02	500.55	500.67	500.45	500.41	500.42	
4	500.37	500.36	501.14	501.01	500.97	501.39	501.29	500.55	500.68	500.45	500.41	500.42	
5	500.37	500.36	501.12	500.80	500.88	501.30	501.27	500.56	500.68	500.44	500.41	500.42	
6	500.37	500.78	501.01	500.71	500.71	501.41	501.05	500.55	500.66	500.44	500.41	500.42	
7	500.37	500.55	500.85	500.69	500.70	501.52	501.52	500.56	500.64	500.44	500.41	500.42	
8	500.37	500.53	500.86	500.65	500.69	501.74	501.35	500.56	500.63	500.44	500.41	500.42	
9	500.37	500.84	501.17	500.79	500.64	501.28	501.09	500.56	500.62	500.45	500.41	500.42	
10	500.37	500.74	500.91	500.80	500.73	501.07	500.96	500.57	500.62	500.45	500.41	500.42	
11	500.37	501.95	500.76	500.88	500.80	501.07	500.98	500.57	500.60	500.46	500.41	500.42	
12	500.37	501.05	500.66	500.73	500.81	501.65	500.89	500.57	500.55	500.46	500.41	500.41	
13	500.37	500.99	500.58	500.68	500.69	501.88	500.87	500.59	500.50	500.46	500.41	500.41	
14	500.37	500.92	500.66	500.63	500.63	502.48	500.81	500.66	500.50	500.46	500.41	500.40	
15	500.37	502.10	500.67	500.70	500.60	503.55	500.76	500.66	500.50	500.46	500.41	500.42	
16	500.36	501.40	500.58	500.91	500.59	502.51	500.93	500.71	500.50	500.46	500.41	500.42	
17	500.36	501.08	500.57	500.80	500.57	501.96	500.95	500.73	500.51	500.46	500.41	500.41	
18	500.36	501.07	500.57	500.72	500.58	501.55	501.21	500.74	500.48	500.46	500.41	500.41	
19	500.36	500.82	500.57	500.82	500.63	501.34	501.02	500.73	500.48	500.45	500.40	500.40	
20	500.36	500.77	500.52	500.71	500.69	501.26	500.85	500.71	500.48	500.45	500.40	500.40	
21	500.36	501.81	500.51	500.95	500.71	501.18	501.47	500.71	500.46	500.45	500.40	500.40	
22	500.36	501.44	500.50	500.75	500.71	501.00	501.07	500.71	500.45	500.45	500.40	500.40	
23	500.35	501.03	500.48	500.66	500.73	500.91	500.88	500.70	500.44	500.45	500.40	500.37	
24	500.35	501.18	500.54	500.64	500.67	500.87	500.83	500.65	500.44	500.45	500.40	500.71	
25	500.35	500.91	500.49	500.63	500.72	500.90	500.75	500.63	500.42	500.45	500.40	500.42	
26	500.35	500.78	500.50	500.62	502.16	501.55	500.68	500.64	500.43	500.45	500.40	500.42	
27	500.35	500.69	500.49	500.60	502.99	501.24	500.66	500.64	500.43	500.45	500.40	500.42	
28	500.35	501.16	500.48	500.60	502.12	501.27	500.61	500.64	500.43	500.45	500.43	500.42	
29	500.34	502.71	500.91	500.60	501.67	501.33	500.59	500.62	500.45	500.44		500.42	
30	500.36	502.35	500.59	500.59	501.27	501.22	500.59	500.68	500.45	500.42		500.42	
31		501.37		500.56	501.22		500.57		500.45	500.41		500.42	
Mean	500.36	501.06	500.74	500.84	500.99	501.55	500.96	500.63	500.53	500.45	500.41	500.42	
Max	500.38	502.71	501.38	502.28	502.99	503.55	501.52	500.74	500.68	500.46	500.43	500.71	503.55
Min	500.34	500.36	500.48	500.56	500.57	500.87	500.57	500.55	500.42	500.41	500.40	500.37	500.34

Annual Max Momentary Gage Height 503.91 M (MSL), at 15.00 Hours, on Sep 15, 1994
Zero Gage at Bottom Elevation 500.10 M (MSL), River Bed 500.26 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.03	1.48	8.64	1.60	6.80	1.57	0.24	0.40	0.10	0.06	0.08	
2	0.04	0.04	1.15	6.56	4.06	8.56	1.42	0.24	0.40	0.10	0.06	0.07	
3	0.04	0.03	2.70	2.65	1.75	4.63	1.36	0.22	0.44	0.10	0.06	0.07	
4	0.04	0.03	1.72	1.33	1.21	2.75	2.26	0.22	0.46	0.10	0.06	0.07	
5	0.04	0.03	1.66	0.75	0.95	2.30	2.18	0.24	0.46	0.09	0.06	0.07	
6	0.04	0.70	1.33	0.52	0.52	2.86	1.45	0.22	0.42	0.09	0.06	0.07	
7	0.04	0.22	0.88	0.48	0.50	3.46	3.46	0.24	0.38	0.09	0.06	0.07	
8	0.04	0.19	0.90	0.40	0.48	4.69	2.55	0.24	0.36	0.09	0.06	0.07	
9	0.04	0.85	1.81	0.73	0.38	2.22	1.57	0.24	0.34	0.10	0.06	0.07	
10	0.04	0.60	1.03	0.75	0.58	1.51	1.18	0.26	0.34	0.10	0.06	0.07	
11	0.04	6.05	0.65	0.95	0.75	1.51	1.24	0.26	0.30	0.11	0.06	0.07	
12	0.04	1.45	0.42	0.58	0.77	4.17	0.98	0.26	0.22	0.11	0.06	0.06	
13	0.04	1.27	0.27	0.46	0.48	5.57	0.92	0.28	0.15	0.11	0.06	0.06	
14	0.04	1.06	0.42	0.36	0.36	10.60	0.77	0.42	0.15	0.11	0.06	0.05	
15	0.04	7.20	0.44	0.50	0.30	25.80	0.65	0.42	0.15	0.11	0.06	0.07	
16	0.03	2.80	0.27	1.03	0.28	10.92	1.09	0.52	0.15	0.11	0.06	0.07	
17	0.03	1.54	0.26	0.75	0.26	6.12	1.15	0.58	0.17	0.11	0.06	0.06	
18	0.03	1.51	0.26	0.55	0.27	3.62	1.94	0.60	0.13	0.11	0.06	0.06	
19	0.03	0.80	0.26	0.80	0.36	2.50	1.36	0.58	0.13	0.10	0.05	0.05	
20	0.03	0.67	0.18	0.52	0.48	2.14	0.88	0.52	0.13	0.10	0.05	0.05	
21	0.03	5.12	0.17	1.15	0.52	1.84	3.19	0.52	0.11	0.10	0.05	0.05	
22	0.03	3.02	0.15	0.62	0.52	1.30	1.51	0.52	0.10	0.10	0.05	0.05	
23	0.03	1.39	0.13	0.42	0.58	1.03	0.95	0.50	0.09	0.10	0.05	0.04	
24	0.03	1.84	0.21	0.38	0.44	0.92	0.82	0.40	0.09	0.10	0.05	0.52	
25	0.03	1.03	0.14	0.36	0.55	1.00	0.62	0.36	0.07	0.10	0.05	0.07	
26	0.03	0.70	0.15	0.34	7.68	3.62	0.46	0.38	0.08	0.10	0.05	0.07	
27	0.03	0.48	0.14	0.30	17.06	2.06	0.42	0.38	0.08	0.10	0.05	0.07	
28	0.03	1.78	0.13	0.30	7.36	2.18	0.32	0.38	0.08	0.10	0.08	0.07	
29	0.02	13.32	1.03	0.30	4.29	2.45	0.28	0.34	0.10	0.09		0.07	
30	0.03	9.30	0.28	0.28	2.18	1.98	0.28	0.46	0.10	0.07		0.07	
31		2.65		0.24	1.98		0.26		0.10	0.06		0.07	
Total	1.04	67.70	20.62	34.00	59.50	131.11	39.09	11.04	6.68	3.06	1.61	2.46	377.91 CMSDAY
Mean	0.03	2.18	0.69	1.10	1.92	4.37	1.26	0.37	0.22	0.10	0.06	0.08	1.04 CMS
Max	0.04	13.32	2.70	8.64	17.06	25.80	3.46	0.60	0.46	0.11	0.08	0.52	25.80 CMS
Min	0.02	0.03	0.13	0.24	0.26	0.92	0.26	0.22	0.07	0.06	0.05	0.04	0.02 CMS
Runoff	0.090	5.849	1.782	2.938	5.141	11.328	3.377	0.954	0.577	0.264	0.139	0.213	32.651 MCM

Momentary Peak 31.78 CMS, at 503.91 M (MSL), at 15.00 Hours, on Sep 15, 1994
Runoff Yield 3.29 Liters/Second/Square KM, Momentary Peak Yield 100.89 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

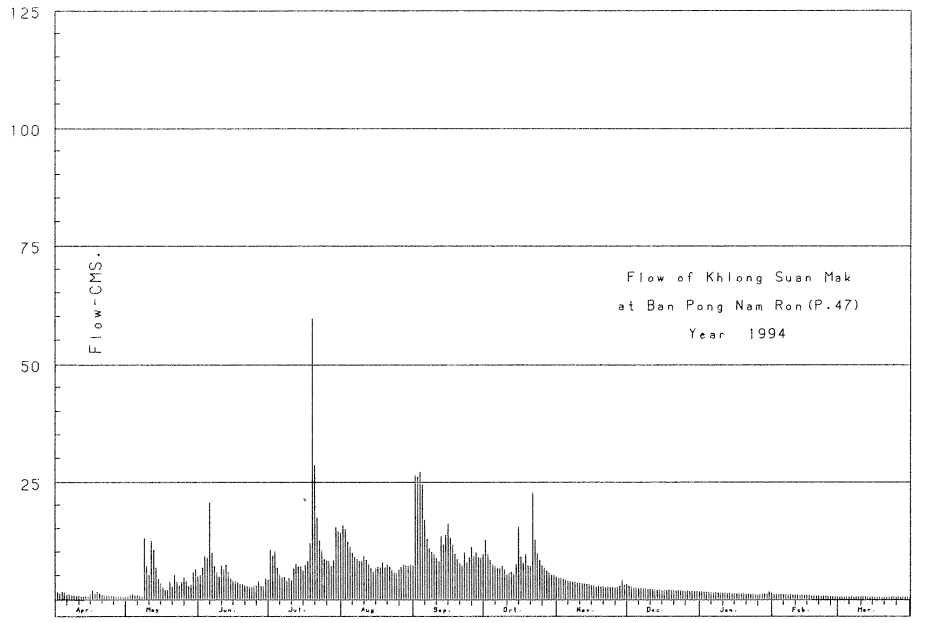
Khlong Suan Mak at Ban Pong Nam Ron, Kamphaeng Phet (P.47)

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 good. Stage-discharge relation defined by 99 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.06	-0.23	0.26	0.57	0.81	1.16	0.68	0.22	0.09	-0.05	-0.12	-0.21	
2	-0.12	-0.15	0.36	0.51	0.77	1.15	0.53	0.21	0.06	-0.05	-0.12	-0.22	
3	-0.05	-0.14	0.50	0.55	0.66	1.18	0.45	0.20	0.05	-0.06	-0.12	-0.22	
4	-0.08	-0.16	0.48	0.36	0.60	1.11	0.40	0.18	0.04	-0.06	-0.13	-0.22	
5	-0.14	-0.16	0.99	0.26	0.54	0.85	0.37	0.17	0.03	-0.07	-0.13	-0.22	
6	-0.15	-0.20	0.54	0.22	0.49	0.69	0.35	0.16	0.03	-0.07	-0.13	-0.22	
7	-0.17	-0.21	0.38	0.23	0.47	0.58	0.34	0.15	0.03	-0.07	-0.14	-0.22	
8	-0.18	0.69	0.29	0.17	0.44	0.55	0.38	0.15	0.02	-0.07	-0.14	-0.22	
9	-0.19	0.37	0.24	0.21	0.44	0.52	0.33	0.14	0.02	-0.08	-0.14	-0.21	
10	-0.20	0.26	0.39	0.17	0.50	0.47	0.27	0.13	0.01	-0.08	-0.14	-0.22	
11	-0.21	0.66	0.33	0.35	0.46	0.44	0.28	0.13	0.01	-0.09	-0.15	-0.20	
12	-0.21	0.57	0.40	0.40	0.40	0.71	0.30	0.12	0.00	-0.09	-0.16	-0.20	
13	-0.21	0.35	0.29	0.37	0.35	0.63	0.26	0.12	0.00	-0.09	-0.16	-0.21	
14	-0.21	0.20	0.21	0.37	0.30	0.72	0.40	0.11	0.00	-0.10	-0.16	-0.22	
15	-0.13	0.12	0.17	0.32	0.35	0.82	0.79	0.10	-0.01	-0.10	-0.16	-0.22	
16	-0.03	0.04	0.16	0.39	0.36	0.70	0.50	0.08	-0.01	-0.10	-0.16	-0.23	
17	-0.10	0.00	0.15	0.44	0.36	0.62	0.41	0.07	-0.01	-0.10	-0.17	-0.23	
18	-0.06	-0.02	0.11	0.64	0.42	0.53	0.52	0.07	-0.01	-0.10	-0.18	-0.24	
19	-0.09	0.15	0.12	1.56	0.36	0.46	0.39	0.07	-0.01	-0.10	-0.18	-0.24	
20	-0.14	0.07	0.09	1.21	0.39	0.42	0.37	0.07	-0.01	-0.12	-0.18	-0.24	
21	-0.17	0.26	0.08	0.87	0.37	0.38	1.06	0.06	-0.02	-0.12	-0.19	-0.23	
22	-0.18	0.15	0.06	0.67	0.32	0.54	0.68	0.06	-0.02	-0.12	-0.19	-0.23	
23	-0.19	0.09	0.06	0.56	0.29	0.43	0.53	0.06	-0.02	-0.12	-0.19	-0.21	
24	-0.19	0.14	0.08	0.47	0.28	0.49	0.46	0.05	-0.03	-0.13	-0.20	-0.21	
25	-0.21	0.23	0.10	0.45	0.33	0.60	0.39	0.05	-0.03	-0.13	-0.20	-0.22	
26	-0.22	0.16	0.16	0.44	0.36	0.50	0.35	0.05	-0.03	-0.13	-0.20	-0.22	
27	-0.22	0.08	0.08	0.38	0.40	0.54	0.32	0.09	-0.03	-0.11	-0.20	-0.22	
28	-0.22	0.10	0.07	0.45	0.38	0.49	0.28	0.18	-0.04	-0.12	-0.21	-0.23	
29	-0.23	0.30	0.20	0.79	0.38	0.48	0.26	0.10	-0.04	-0.10		-0.23	
30	-0.23	0.33	0.19	0.75	0.39	0.52	0.25	0.11	-0.04	-0.06		-0.23	
31		0.23		0.74	0.39		0.23		-0.04	-0.09		-0.23	
Mean	-0.16	0.14	0.25	0.51	0.43	0.64	0.42	0.12	0.00	-0.09	-0.16	-0.22	
Max	-0.03	0.69	0.99	1.56	0.81	1.18	1.06	0.22	0.09	-0.05	-0.12	-0.20	1.56
Min	-0.23	-0.23	0.06	0.17	0.28	0.38	0.23	0.05	-0.04	-0.13	-0.21	-0.24	-0.24

Annual Max Momentary Gage Height 1.67 M (A.D), at 18.00 Hours, on Jul 19, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.77 M (A.D)
Left Bank Elevation 7.34 M (A.D)
Right Bank Elevation 6.08 M (A.D), Drainage Area 521 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.72	0.65	5.40	10.70	16.05	26.54	12.90	4.80	3.10	1.80	1.28	0.75	
2	1.28	1.10	6.96	9.50	15.05	26.15	9.90	4.65	2.80	1.80	1.28	0.70	
3	1.80	1.16	9.30	10.30	12.50	27.32	8.45	4.50	2.70	1.72	1.28	0.70	
4	1.56	1.04	8.96	6.96	11.30	24.59	7.60	4.24	2.60	1.72	1.22	0.70	
5	1.16	1.04	20.82	5.40	10.10	17.05	7.12	4.11	2.50	1.64	1.22	0.70	
6	1.10	0.80	10.10	4.80	9.13	13.10	6.80	3.98	2.50	1.64	1.22	0.70	
7	0.98	0.75	7.28	4.95	8.79	10.90	6.64	3.85	2.50	1.64	1.16	0.70	
8	0.92	13.10	5.85	4.11	8.28	10.30	7.28	3.85	2.40	1.64	1.16	0.70	
9	0.86	7.12	5.10	4.65	8.28	9.70	6.48	3.72	2.40	1.56	1.16	0.75	
10	0.80	5.40	7.44	4.11	9.30	8.79	5.55	3.59	2.30	1.56	1.16	0.70	
11	0.75	12.50	6.48	6.80	8.62	8.28	5.70	3.59	2.30	1.48	1.10	0.80	
12	0.75	10.70	7.60	7.60	7.60	13.55	6.00	3.46	2.20	1.48	1.04	0.80	
13	0.75	6.80	5.85	7.12	6.80	11.90	5.40	3.46	2.20	1.48	1.04	0.75	
14	0.75	4.50	4.65	7.12	6.00	13.80	7.60	3.33	2.20	1.40	1.04	0.70	
15	1.22	3.46	4.11	6.32	6.80	16.30	15.55	3.20	2.12	1.40	1.04	0.70	
16	1.96	2.60	3.98	7.44	6.96	13.30	9.30	3.00	2.12	1.40	1.04	0.65	
17	1.40	2.20	3.85	8.28	6.96	11.70	7.77	2.90	2.12	1.40	0.98	0.65	
18	1.72	2.04	3.33	12.10	7.94	9.90	9.70	2.90	2.12	1.40	0.92	0.60	
19	1.48	3.85	3.46	59.84	6.96	8.62	7.44	2.90	2.12	1.40	0.92	0.60	
20	1.16	2.90	3.10	28.64	7.44	7.94	7.12	2.90	2.12	1.28	0.92	0.60	
21	0.98	5.40	3.00	17.55	7.12	7.28	22.96	2.80	2.04	1.28	0.86	0.65	
22	0.92	3.85	2.80	12.70	6.32	10.10	12.90	2.80	2.04	1.28	0.86	0.65	
23	0.86	3.10	2.80	10.50	5.85	8.11	9.90	2.80	2.04	1.28	0.86	0.75	
24	0.86	3.72	3.00	8.79	5.70	9.13	8.62	2.70	1.96	1.22	0.80	0.75	
25	0.75	4.95	3.20	8.45	6.48	11.30	7.44	2.70	1.96	1.22	0.80	0.70	
26	0.70	3.98	3.98	8.28	6.96	9.30	6.80	2.70	1.96	1.22	0.80	0.70	
27	0.70	3.00	3.00	7.28	7.60	10.10	6.32	3.10	1.96	1.34	0.80	0.70	
28	0.70	3.20	2.90	8.45	7.28	9.13	5.70	4.24	1.88	1.28	0.75	0.65	
29	0.65	6.00	4.50	15.55	7.28	8.96	5.40	3.20	1.88	1.40		0.65	
30	0.65	6.48	4.37	14.55	7.44	9.70	5.25	3.33	1.88	1.72		0.65	
31		4.95		14.30	7.44		4.95		1.88	1.48		0.65	
Total	31.89	132.34	167.17	343.14	256.33	382.84	256.54	103.30	68.90	45.56	28.71	21.45	1838.17 CMSDAY
Mean	1.06	4.27	5.57	11.07	8.27	12.76	8.28	3.44	2.22	1.47	1.03	0.69	5.04 CMS
Max	1.96	13.10	20.82	59.84	16.05	27.32	22.96	4.80	3.10	1.80	1.28	0.80	59.84 CMS
Min	0.65	0.65	2.80	4.11	5.70	7.28	4.95	2.70	1.88	1.22	0.75	0.60	0.60 CMS
Runoff	2.755	11.434	14.443	29.647	22.147	33.077	22.165	8.925	5.953	3.936	2.481	1.853	158.818 MCM

Momentary Peak 74.73 CMS, at 1.67 M (A.D), at 18.00 Hours, on Jul 19, 1994

Runoff Yield 9.67 Liters/Second/Square KM, Momentary Peak Yield 143.44 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

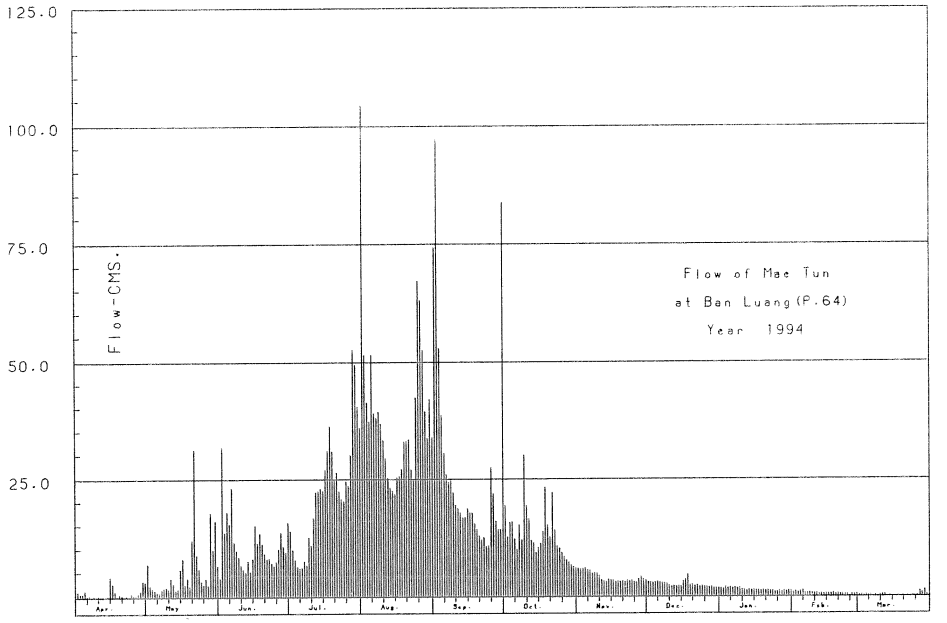
Nam Mae Tun at Ban Luang, Chiang Mai (P.64)

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 132 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.47	0.78	0.65	1.00	2.82	2.34	1.17	0.74	0.61	0.52	0.46	0.41	
2	0.44	0.56	1.51	0.88	1.93	2.71	0.96	0.73	0.60	0.52	0.47	0.41	
3	0.43	0.52	0.99	0.81	1.73	1.96	1.06	0.74	0.60	0.54	0.46	0.41	
4	0.50	0.50	1.13	0.76	1.64	1.67	1.06	0.74	0.60	0.53	0.47	0.41	
5	0.40	0.46	1.05	0.74	1.93	1.48	0.95	0.73	0.61	0.53	0.50	0.41	
6	0.40	0.44	1.28	0.75	1.68	1.36	0.88	0.72	0.60	0.53	0.44	0.41	
7	0.39	0.51	0.93	0.80	1.66	1.31	1.04	0.70	0.60	0.53	0.45	0.40	
8	0.39	0.52	0.87	0.77	1.69	1.32	0.94	0.70	0.59	0.53	0.45	0.40	
9	0.39	0.54	0.83	0.96	1.63	1.25	1.47	0.70	0.59	0.53	0.45	0.40	
10	0.38	0.51	0.77	0.91	1.55	1.17	1.17	0.67	0.56	0.51	0.44	0.41	
11	0.38	0.64	0.73	1.09	1.45	1.15	1.08	0.63	0.55	0.50	0.44	0.42	
12	0.38	0.59	0.71	1.25	1.34	1.12	0.94	0.61	0.55	0.49	0.43	0.41	
13	0.38	0.50	0.80	1.26	1.28	1.09	0.92	0.61	0.55	0.50	0.43	0.40	
14	0.38	0.51	0.71	1.27	1.26	1.09	0.86	0.63	0.55	0.50	0.43	0.40	
15	0.66	0.73	0.82	1.26	1.24	1.15	0.89	0.63	0.55	0.50	0.43	0.40	
16	0.59	0.82	1.04	1.39	1.34	1.12	0.92	0.62	0.61	0.50	0.43	0.38	
17	0.48	0.57	0.92	1.49	1.35	1.12	1.00	0.61	0.63	0.49	0.43	0.37	
18	0.36	0.65	0.99	1.62	1.39	1.05	1.28	0.61	0.69	0.49	0.44	0.38	
19	0.42	0.55	0.92	1.49	1.54	1.01	1.04	0.61	0.57	0.49	0.43	0.39	
20	0.41	0.94	0.85	1.33	1.54	0.97	0.96	0.61	0.57	0.49	0.43	0.39	
21	0.38	1.50	0.82	1.37	1.55	0.94	1.25	0.61	0.56	0.49	0.43	0.38	
22	0.38	0.84	0.82	1.26	1.39	0.96	1.01	0.62	0.56	0.49	0.43	0.38	
23	0.38	0.74	0.79	1.21	1.32	0.90	0.90	0.62	0.55	0.48	0.42	0.38	
24	0.44	0.62	0.76	1.20	1.75	0.90	0.89	0.62	0.55	0.47	0.42	0.37	
25	0.38	0.57	0.80	1.32	2.22	1.40	0.86	0.61	0.55	0.47	0.40	0.37	
26	0.38	0.64	0.88	1.29	2.15	1.24	0.83	0.60	0.54	0.48	0.42	0.37	
27	0.44	0.57	0.99	1.47	1.95	1.07	0.81	0.63	0.54	0.47	0.42	0.48	
28	0.48	1.12	0.90	1.95	1.69	1.01	0.79	0.66	0.54	0.48	0.42	0.44	
29	0.62	0.88	0.86	1.89	1.56	1.01	0.77	0.63	0.53	0.48		0.50	
30	0.60	1.07	1.06	1.71	1.74	2.50	0.75	0.62	0.52	0.48		0.41	
31		0.76		1.61	1.56		0.74		0.53	0.48		0.39	
Mean	0.44	0.68	0.91	1.23	1.64	1.31	0.97	0.65	0.57	0.50	0.44	0.40	
Max	0.66	1.50	1.51	1.95	2.82	2.71	1.47	0.74	0.69	0.54	0.50	0.50	2.82
Min	0.36	0.44	0.65	0.74	1.24	0.90	0.74	0.60	0.52	0.47	0.40	0.37	0.36

Annual Max Momentary Gage Height 3.28 M (A.D), at 16.00 Hours, on Sep 2, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.00 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.15	7.10	4.10	14.00	104.40	74.40	19.51	6.10	3.30	1.82	1.04	0.46	
2	0.81	2.46	31.90	10.16	51.50	97.15	12.72	5.85	3.10	1.82	1.15	0.46	
3	0.70	1.82	13.68	7.92	41.50	53.00	15.92	6.10	3.10	2.14	1.04	0.46	
4	1.50	1.50	18.19	6.60	37.30	38.65	15.92	6.10	3.10	1.98	1.15	0.46	
5	0.35	1.04	15.60	6.10	51.50	30.70	12.40	5.85	3.30	1.98	1.50	0.46	
6	0.35	0.81	23.30	6.35	39.10	26.10	10.16	5.60	3.10	1.98	0.81	0.46	
7	0.31	1.66	11.76	7.60	38.20	24.35	15.28	5.10	3.10	1.98	0.92	0.35	
8	0.31	1.82	9.84	6.85	39.55	24.70	12.08	5.10	2.94	1.98	0.92	0.35	
9	0.31	2.14	8.56	12.72	36.85	22.25	30.30	5.10	2.94	1.98	0.92	0.35	
10	0.28	1.66	6.85	11.12	33.50	19.51	19.51	4.50	2.46	1.66	0.81	0.46	
11	0.28	3.90	5.85	16.88	29.50	18.85	16.56	3.70	2.30	1.50	0.81	0.58	
12	0.28	2.94	5.35	22.25	25.40	17.86	12.08	3.30	2.30	1.39	0.70	0.46	
13	0.28	1.50	7.60	22.60	23.30	16.88	11.44	3.30	2.30	1.50	0.70	0.35	
14	0.28	1.66	5.35	22.95	22.60	16.88	9.52	3.70	2.30	1.50	0.70	0.35	
15	4.30	5.85	8.24	22.60	21.90	18.85	10.48	3.70	2.30	1.50	0.70	0.35	
16	2.94	8.24	15.28	27.15	25.40	17.86	11.44	3.50	3.30	1.50	0.70	0.28	
17	1.27	2.62	11.44	31.10	25.75	17.86	14.00	3.30	3.70	1.39	0.70	0.24	
18	0.21	4.10	13.68	36.40	27.15	15.60	23.30	3.30	4.90	1.39	0.81	0.28	
19	0.58	2.30	11.44	31.10	33.10	14.32	15.28	3.30	2.62	1.39	0.70	0.31	
20	0.46	12.08	9.20	25.05	33.10	13.04	12.72	3.30	2.62	1.39	0.70	0.31	
21	0.28	31.50	8.24	26.45	33.50	12.08	22.25	3.30	2.46	1.39	0.70	0.28	
22	0.28	8.88	8.24	22.60	27.15	12.72	14.32	3.50	2.46	1.39	0.70	0.28	
23	0.28	6.10	7.35	20.85	24.70	10.80	10.80	3.50	2.30	1.27	0.58	0.28	
24	0.81	3.50	6.60	20.50	42.50	10.80	10.48	3.50	2.30	1.15	0.58	0.24	
25	0.28	2.62	7.60	24.70	67.20	27.50	9.52	3.30	2.30	1.15	0.35	0.24	
26	0.28	3.90	10.16	23.65	63.25	21.90	8.56	3.10	2.14	1.27	0.58	0.24	
27	0.81	2.62	13.68	30.30	52.50	16.24	7.92	3.70	2.14	1.15	0.58	1.27	
28	1.27	17.86	10.80	52.50	39.55	14.32	7.35	4.30	2.14	1.27	0.58	0.81	
29	3.50	10.16	9.52	49.50	33.90	14.32	6.85	3.70	1.98	1.27		1.50	
30	3.10	16.24	15.92	40.50	42.00	84.00	6.35	3.50	1.82	1.27		0.46	
31		6.60		35.95	33.90		6.10		1.98	1.27		0.31	
Total	27.84	177.18	335.32	695.00	1200.75	803.49	411.12	125.20	83.10	47.62	22.13	13.69	3942.44 CMSDAY
Mean	0.93	5.72	11.18	22.42	38.73	26.78	13.26	4.17	2.68	1.54	0.79	0.44	10.80 CMS
Max	4.30	31.50	31.90	52.50	104.40	97.15	30.30	6.10	4.90	2.14	1.50	1.50	104.40 CMS
Min	0.21	0.81	4.10	6.10	21.90	10.80	6.10	3.10	1.82	1.15	0.35	0.24	0.21 CMS
Runoff	2.405	15.308	28.972	60.048	103.745	69.422	35.521	10.817	7.180	4.114	1.912	1.183	340.627 MCM

Momentary Peak 137.00 CMS, at 3.28 M (A.D), at 16.00 Hours, on Sep 2, 1994

Runoff Yield 32.15 Liters/Second/Square KM, Momentary Peak Yield 407.74 Liters/Second/Square KM

WATER YEAR 1994

PING RIVER BASIN

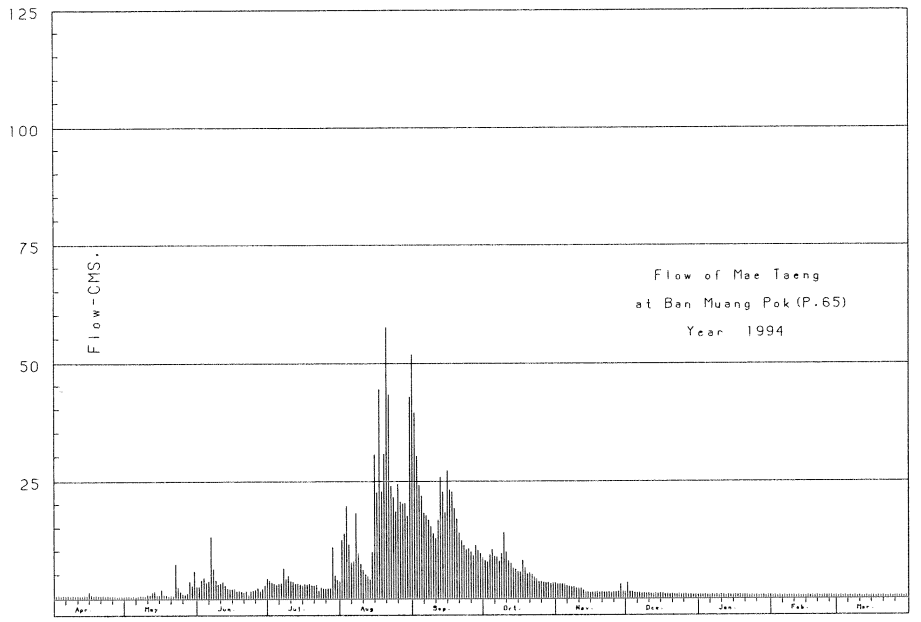
Mae Taeng River at Ban Muang Pok, Chiang Mai, (P.65)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The concrete weir situated about 300 meters upstream from the gage site. Stage-discharge relation defined by 105 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.54	0.93	1.06	1.67	2.61	1.40	0.99	1.01	0.63	0.58	0.56	
2	0.59	0.51	1.07	1.03	1.75	2.37	1.39	0.98	0.80	0.64	0.59	0.56	
3	0.57	0.51	1.13	0.98	2.02	2.17	1.49	0.99	0.77	0.64	0.58	0.56	
4	0.57	0.51	1.01	0.97	1.62	2.10	1.55	0.97	0.76	0.64	0.58	0.56	
5	0.57	0.51	1.06	1.00	1.38	1.96	1.47	0.95	0.75	0.63	0.57	0.56	
6	0.56	0.50	1.71	1.00	1.39	1.93	1.45	0.92	0.74	0.64	0.57	0.55	
7	0.56	0.59	1.28	1.30	1.96	1.89	1.40	0.92	0.73	0.64	0.58	0.55	
8	0.56	0.53	1.08	1.10	1.50	1.82	1.50	0.91	0.73	0.64	0.58	0.55	
9	0.55	0.55	0.97	1.16	1.36	1.75	1.76	0.89	0.73	0.64	0.59	0.54	
10	0.55	0.64	1.01	1.06	1.26	1.69	1.52	0.87	0.72	0.64	0.58	0.55	
11	0.55	0.65	1.03	1.03	1.19	1.89	1.40	0.89	0.72	0.64	0.57	0.55	
12	0.55	0.78	0.96	1.00	1.15	2.23	1.37	0.82	0.72	0.61	0.56	0.54	
13	0.57	0.79	0.87	0.99	1.10	2.13	1.30	0.78	0.72	0.61	0.56	0.55	
14	0.59	0.63	0.87	0.98	1.52	1.96	1.27	0.76	0.72	0.63	0.56	0.55	
15	0.77	0.59	0.87	0.96	2.38	2.28	1.24	0.76	0.72	0.63	0.57	0.55	
16	0.61	0.84	0.86	0.98	2.12	2.14	1.22	0.75	0.72	0.64	0.58	0.55	
17	0.59	0.66	0.81	0.98	2.71	2.13	1.41	0.78	0.71	0.64	0.58	0.56	
18	0.58	0.59	0.81	0.98	2.13	2.00	1.30	0.78	0.70	0.63	0.58	0.56	
19	0.58	0.52	0.80	0.96	2.38	1.90	1.20	0.77	0.70	0.63	0.59	0.56	
20	0.58	0.58	0.75	0.94	2.96	1.75	1.21	0.77	0.70	0.62	0.59	0.56	
21	0.56	0.58	0.80	0.96	2.69	1.67	1.18	0.77	0.70	0.61	0.58	0.55	
22	0.55	1.36	0.66	0.82	2.17	1.61	1.14	0.77	0.69	0.60	0.57	0.54	
23	0.56	0.90	0.80	0.90	2.09	1.55	1.10	0.77	0.69	0.60	0.57	0.55	
24	0.55	0.79	0.82	0.88	1.97	1.56	1.05	0.76	0.68	0.60	0.58	0.54	
25	0.52	0.69	0.84	0.86	2.18	1.53	1.04	0.76	0.68	0.60	0.58	0.54	
26	0.48	0.67	0.90	0.87	2.05	1.47	1.03	0.77	0.68	0.60	0.58	0.54	
27	0.48	0.72	0.81	0.89	2.04	1.61	1.02	0.80	0.66	0.60	0.57	0.54	
28	0.48	1.04	0.86	1.59	2.04	1.54	1.01	0.98	0.65	0.60	0.57	0.54	
29	0.49	0.95	0.96	1.17	1.93	1.51	1.00	0.79	0.65	0.59		0.55	
30	0.49	1.25	1.11	1.07	2.68	1.44	1.01	0.77	0.64	0.60		0.55	
31		0.92		1.05	2.85		1.00		0.65	0.60		0.55	
Mean	0.56	0.71	0.95	1.02	1.94	1.87	1.27	0.84	0.72	0.62	0.58	0.55	
Max	0.77	1.36	1.71	1.59	2.96	2.61	1.76	0.99	1.01	0.64	0.59	0.56	2.96
Min	0.48	0.50	0.66	0.82	1.10	1.44	1.00	0.75	0.64	0.59	0.56	0.54	0.48

Annual Max Momentary Gage Height 3.32 M (A.D), at 15.00 Hours, on Aug 30, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.39 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	0.60	2.67	3.84	12.49	39.50	8.10	3.21	3.39	0.83	0.70	0.65	
2	0.72	0.52	3.93	3.57	14.00	30.45	7.95	3.12	1.60	0.85	0.72	0.65	
3	0.68	0.52	4.56	3.12	19.76	24.10	9.45	3.21	1.42	0.85	0.70	0.65	
4	0.68	0.52	3.39	3.03	11.64	22.00	10.45	3.03	1.36	0.85	0.70	0.65	
5	0.68	0.52	3.84	3.30	7.80	18.36	9.15	2.85	1.30	0.83	0.68	0.65	
6	0.65	0.50	13.20	3.30	7.95	17.73	8.85	2.58	1.24	0.85	0.68	0.63	
7	0.65	0.72	6.36	6.60	18.36	16.89	8.10	2.58	1.18	0.85	0.70	0.63	
8	0.65	0.57	4.02	4.20	9.60	15.42	9.60	2.49	1.18	0.85	0.70	0.63	
9	0.63	0.63	3.03	4.92	7.50	14.00	14.20	2.32	1.18	0.85	0.72	0.60	
10	0.63	0.85	3.39	3.84	6.12	12.83	9.94	2.16	1.12	0.85	0.70	0.63	
11	0.63	0.88	3.57	3.57	5.28	16.89	8.10	2.32	1.12	0.85	0.68	0.63	
12	0.63	1.48	2.94	3.30	4.80	25.90	7.65	1.76	1.12	0.78	0.65	0.60	
13	0.68	1.54	2.16	3.21	4.20	22.90	6.60	1.48	1.12	0.78	0.65	0.63	
14	0.72	0.83	2.16	3.12	9.94	18.36	6.24	1.36	1.12	0.83	0.65	0.63	
15	1.42	0.72	2.16	2.94	30.80	27.40	5.88	1.36	1.12	0.83	0.68	0.63	
16	0.78	1.92	2.08	3.12	22.60	23.20	5.64	1.30	1.12	0.85	0.70	0.63	
17	0.72	0.90	1.68	3.12	44.52	22.90	8.25	1.48	1.06	0.85	0.70	0.65	
18	0.70	0.72	1.68	3.12	22.90	19.20	6.60	1.48	1.00	0.83	0.70	0.65	
19	0.70	0.55	1.60	2.94	30.80	17.10	5.40	1.42	1.00	0.83	0.72	0.65	
20	0.70	0.70	1.30	2.76	57.76	14.00	5.52	1.42	1.00	0.80	0.72	0.65	
21	0.65	0.70	1.60	2.94	43.50	12.49	5.16	1.42	1.00	0.78	0.70	0.63	
22	0.63	7.50	0.90	1.76	24.10	11.47	4.68	1.42	0.98	0.75	0.68	0.60	
23	0.65	2.40	1.60	2.40	21.72	10.45	4.20	1.42	0.98	0.75	0.68	0.63	
24	0.63	1.54	1.76	2.24	18.57	10.62	3.75	1.36	0.95	0.75	0.70	0.60	
25	0.55	0.98	1.92	2.08	24.40	10.11	3.66	1.36	0.95	0.75	0.70	0.60	
26	0.45	0.93	2.40	2.16	20.60	9.15	3.57	1.42	0.95	0.75	0.70	0.60	
27	0.45	1.12	1.68	2.32	20.32	11.47	3.48	1.60	0.90	0.75	0.68	0.60	
28	0.45	3.66	2.08	11.13	20.32	10.28	3.39	3.12	0.88	0.75	0.68	0.60	
29	0.48	2.85	2.94	5.04	17.73	9.77	3.30	1.54	0.88	0.72		0.63	
30	0.48	6.00	4.32	3.93	43.00	8.70	3.39	1.42	0.85	0.75		0.63	
31		2.58		3.75	51.80		3.30		0.88	0.75		0.63	
Total	19.82	46.45	90.92	110.67	654.88	523.64	203.55	59.01	35.95	24.94	19.37	19.47	1808.67 CMSDAY
Mean	0.66	1.50	3.03	3.57	21.13	17.45	6.57	1.97	1.16	0.80	0.69	0.63	4.96 CMS
Max	1.42	7.50	13.20	11.13	57.76	39.50	14.20	3.21	3.39	0.85	0.72	0.65	57.76 CMS
Min	0.45	0.50	0.90	1.76	4.20	8.70	3.30	1.30	0.85	0.72	0.65	0.60	0.45 CMS
Runoff	1.712	4.013	7.855	9.562	56.582	45.243	17.587	5.098	3.106	2.155	1.674	1.682	156.269 MCM

Momentary Peak 83.60 CMS, at 3.32 M (A.D), at 15.00 Hours, on Aug 30, 1994
Runoff Yield 20.65 Liters/Second/Square KM, Momentary Peak Yield 348.33 Liters/Second/Square KM

WATER YEAR 1994

WANG RIVER BASIN

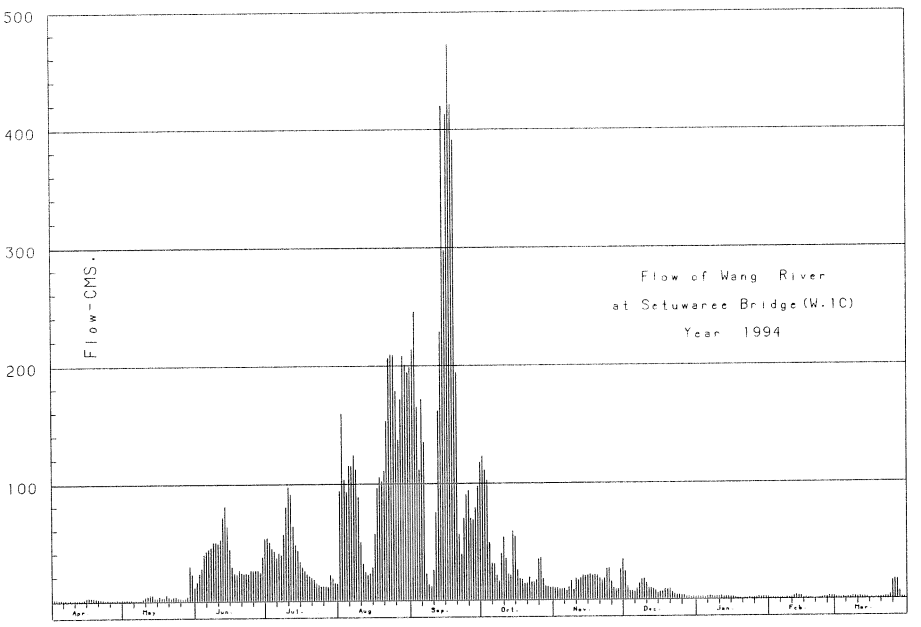
Wang River at Setu Wari Bridge, Lampang (W.1C)

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 with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Kiu Lom Dam. Stage-discharge relation defined by 72 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	229.39	229.33	230.10	230.88	231.43	232.59	231.42	229.67	230.00	229.32	229.25	229.27	
2	229.36	229.32	230.27	230.81	232.14	232.82	231.30	229.66	229.70	229.32	229.23	229.25	
3	229.35	229.34	230.39	230.72	231.55	232.19	231.20	229.64	229.57	229.32	229.24	229.24	
4	229.35	229.33	230.62	230.67	231.42	231.64	230.45	229.63	229.55	229.31	229.24	229.25	
5	229.34	229.32	230.68	230.57	231.68	232.26	230.14	229.64	229.54	229.33	229.24	229.26	
6	229.32	229.28	230.70	230.64	231.67	231.89	230.14	229.58	229.63	229.37	229.23	229.26	
7	229.32	229.27	230.74	230.62	231.78	230.26	229.93	229.68	229.77	229.34	229.23	229.29	
8	229.32	229.29	230.82	230.92	231.64	230.00	229.83	229.83	229.84	229.33	229.24	229.32	
9	229.32	229.39	230.81	231.26	231.37	229.95	230.29	229.62	229.86	229.33	229.26	229.32	
10	229.32	229.48	230.79	231.48	230.81	230.33	230.53	229.86	229.77	229.36	229.28	229.31	
11	229.33	229.54	230.85	231.40	230.47	231.19	230.21	229.84	229.66	229.36	229.36	229.31	
12	229.33	229.62	231.14	231.03	230.30	232.16	229.96	229.87	229.64	229.33	229.39	229.31	
13	229.33	229.58	231.27	230.77	230.24	232.70	229.93	229.93	229.63	229.32	229.38	229.29	
14	229.35	229.44	231.02	230.69	230.26	233.85	230.61	229.91	229.57	229.33	229.35	229.26	
15	229.46	229.40	230.71	230.51	230.40	233.15	230.54	229.93	229.50	229.31	229.28	229.23	
16	229.45	229.50	230.42	230.40	230.93	233.81	230.03	229.94	229.52	229.31	229.25	229.22	
17	229.45	229.45	230.27	230.33	231.46	234.12	229.87	229.93	229.55	229.26	229.23	229.21	
18	229.43	229.44	230.26	230.25	231.57	233.62	229.85	229.93	229.60	229.25	229.21	229.23	
19	229.42	229.62	230.34	230.22	231.53	233.44	229.78	229.92	229.61	229.21	229.21	229.25	
20	229.40	229.47	230.29	230.17	231.63	232.07	229.78	229.87	229.62	229.21	229.20	229.27	
21	229.34	229.44	230.26	230.14	232.07	230.57	229.90	229.82	229.52	229.22	229.20	229.28	
22	229.33	229.49	230.28	230.06	232.54	230.29	229.80	229.87	229.44	229.24	229.21	229.30	
23	229.32	229.50	230.26	229.99	232.56	230.78	229.81	230.05	229.42	229.25	229.26	229.31	
24	229.31	229.43	230.35	229.96	232.56	231.04	229.84	230.05	229.41	229.25	229.29	229.39	
25	229.32	229.39	230.33	229.95	232.32	231.09	230.21	229.81	229.41	229.27	229.31	229.81	
26	229.31	229.36	230.35	229.95	231.91	230.77	230.22	229.65	229.40	229.29	229.34	229.83	
27	229.32	229.41	230.33	229.95	232.26	230.76	229.87	229.62	229.35	229.31	229.35	229.83	
28	229.33	229.50	230.29	230.25	232.55	230.90	229.72	229.61	229.32	229.30	229.32	229.52	
29	229.31	230.43	230.58	230.16	232.50	231.13	229.70	230.03	229.32	229.31		229.28	
30	229.34	230.25	230.86	230.06	232.45	231.37	229.68	230.20	229.32	229.31		229.25	
31		229.93		230.03	232.48		229.68		229.33	229.29		229.23	
Mean	229.35	229.50	230.55	230.48	231.63	231.76	230.14	229.82	229.56	229.30	229.27	229.33	
Max	229.46	230.43	231.27	231.48	232.56	234.12	231.42	230.20	230.00	229.37	229.39	229.83	234.12
Min	229.31	229.27	230.10	229.95	230.24	229.95	229.68	229.58	229.32	229.21	229.20	229.21	229.20

Annual Max Momentary Gage Height 234.24 M (MSL), at 11.00 Hours, on Sep 14, 1994
Zero Gage at Bottom Elevation 229.30 M (MSL), River Bed 228.78 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.35	1.45	16.80	54.30	93.55	213.65	123.10	10.66	24.50	2.34	1.50	1.70	
2	1.90	1.30	23.60	50.10	160.00	246.00	111.50	10.38	11.50	2.34	1.30	1.50	
3	1.75	1.60	28.40	45.10	104.00	165.00	103.00	9.82	7.89	2.34	1.40	1.40	
4	1.75	1.45	39.76	42.41	92.70	112.10	49.50	9.54	7.35	2.17	1.40	1.50	
5	1.60	1.30	42.94	37.14	115.70	172.00	31.70	9.82	7.08	2.51	1.40	1.60	
6	1.30	0.88	44.00	40.82	114.80	135.05	31.70	8.16	9.54	3.19	1.30	1.60	
7	1.30	0.82	46.20	39.76	124.70	23.20	21.35	10.94	14.30	2.68	1.30	1.90	
8	1.30	0.94	50.70	56.84	112.10	13.80	16.85	16.85	17.30	2.51	1.40	2.34	
9	1.30	2.35	50.10	80.50	88.75	12.40	39.95	9.26	18.20	2.51	1.60	2.34	
10	1.30	3.70	48.95	97.80	50.10	26.00	54.30	18.20	14.30	3.02	1.80	2.17	
11	1.45	4.60	52.50	91.00	32.09	75.30	35.55	17.30	10.38	3.02	3.02	2.17	
12	1.45	5.80	71.80	64.24	24.80	162.00	22.70	18.65	9.82	2.51	3.53	2.17	
13	1.45	5.20	81.25	47.85	22.40	228.50	21.35	21.35	9.54	2.34	3.36	1.90	
14	1.75	3.10	63.56	43.47	23.20	420.25	59.15	20.45	7.89	2.51	2.85	1.60	
15	3.40	2.50	44.55	34.02	28.80	297.00	54.90	21.35	6.00	2.17	1.80	1.30	
16	3.25	4.00	29.74	28.80	57.51	412.85	26.00	21.80	6.54	2.17	1.50	1.20	
17	3.25	3.25	23.60	26.00	96.10	472.60	18.65	21.35	7.35	1.60	1.30	1.10	
18	2.95	3.10	23.20	22.80	105.80	421.40	17.75	21.35	8.70	1.50	1.10	1.30	
19	2.80	5.80	26.40	21.60	102.20	391.40	14.70	20.90	8.98	1.10	1.10	1.50	
20	2.50	3.55	24.40	19.60	111.20	194.40	14.70	18.65	9.26	1.10	1.00	1.70	
21	1.60	3.10	23.20	18.40	153.00	56.70	20.00	16.40	6.54	1.20	1.00	1.80	
22	1.45	3.85	24.00	15.60	206.90	39.95	15.50	18.65	4.62	1.40	1.10	2.00	
23	1.30	4.00	23.20	13.52	209.60	70.60	15.95	27.00	4.16	1.50	1.60	2.17	
24	1.15	2.95	26.80	12.68	209.60	90.20	17.30	27.00	3.93	1.50	1.90	3.53	
25	1.30	2.35	26.00	12.40	178.40	94.20	35.55	15.95	3.93	1.70	2.17	15.95	
26	1.15	1.90	26.80	12.40	137.00	69.90	36.10	10.10	3.70	1.90	2.68	16.85	
27	1.30	2.65	26.00	12.40	172.00	69.20	18.65	9.26	2.85	2.17	2.85	16.85	
28	1.45	4.00	24.40	22.80	208.25	79.00	12.30	8.98	2.34	2.00	2.34	6.54	
29	1.15	30.21	37.66	19.20	201.50	97.40	11.50	26.00	2.34	2.17		1.80	
30	1.60	22.80	53.10	15.60	194.75	118.15	10.94	35.00	2.34	2.17		1.50	
31		11.84		14.70	198.80		10.94		2.51	1.90		1.30	
Total	53.55	146.34	1123.61	1113.85	3730.30	4980.20	1073.13	511.12	255.68	65.24	50.60	104.28	13207.90 CMSDAY
Mean	1.79	4.72	37.45	35.93	120.33	166.01	34.62	17.04	8.25	2.10	1.81	3.36	36.19 CMS
Max	3.40	30.21	81.25	97.80	209.60	472.60	123.10	35.00	24.50	3.19	3.53	16.85	472.60 CMS
Min	1.15	0.82	16.80	12.40	22.40	12.40	10.94	8.16	2.34	1.10	1.00	1.10	0.82 CMS
Runoff	4.627	12.644	97.080	96.237	322.298	430.289	92.718	44.161	22.091	5.637	4.372	9.010	1141.163 MCM

Momentary Peak 499.40 CMS, at 234.24 M (MSL), at 11.00 Hours, on Sep 14, 1994

Runoff Yield 10.40 Liters/Second/Square KM, Momentary Peak Yield 143.59 Liters/Second/Square KM

WATER YEAR 1994

WANG RIVER BASIN

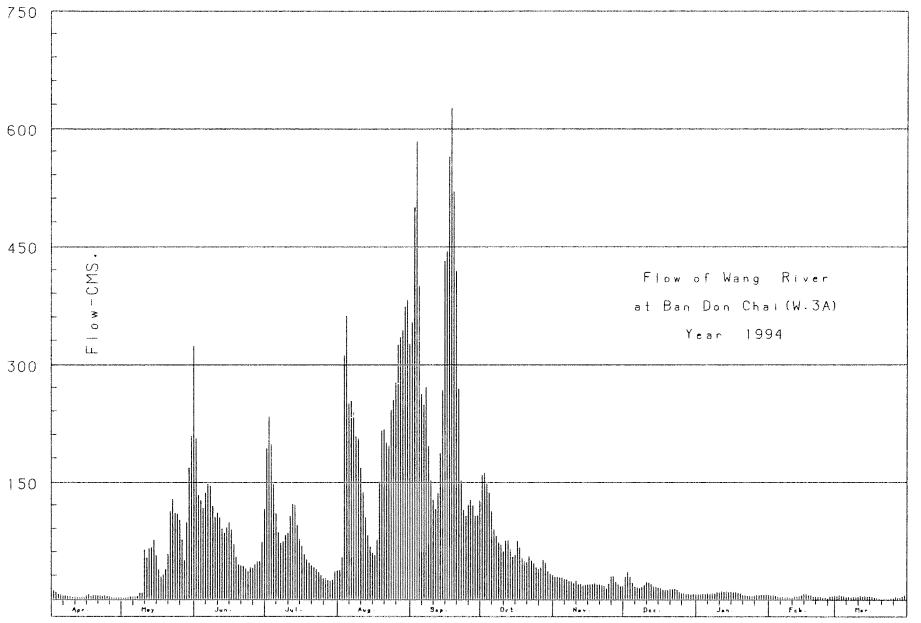
Wang River at Ban Don Chai, Lampang (W.3A)

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 with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.45	160.96	164.34	164.23	162.19	165.32	163.90	162.00	161.99	161.20	161.14	161.10	
2	161.33	160.96	163.63	164.56	162.53	165.86	163.94	161.98	162.15	161.22	161.15	161.14	
3	161.22	160.98	163.56	164.27	165.10	166.12	163.79	161.98	162.00	161.22	161.12	161.12	
4	161.16	161.05	163.44	163.79	165.36	165.51	163.67	161.96	161.77	161.23	161.06	161.07	
5	161.13	161.06	163.67	163.36	164.69	164.78	163.39	161.93	161.63	161.25	161.05	161.04	
6	161.10	161.03	163.79	163.04	164.72	164.68	163.09	161.90	161.58	161.26	161.03	161.02	
7	161.09	161.06	163.77	162.82	164.60	164.84	162.97	161.87	161.57	161.26	161.02	161.01	
8	161.06	161.30	163.48	162.87	164.36	164.25	162.85	161.84	161.59	161.28	161.00	161.01	
9	161.04	161.27	163.30	162.98	164.33	163.84	162.79	161.78	161.70	161.32	160.99	161.03	
10	161.02	162.68	163.37	163.03	164.00	163.56	162.66	161.86	161.80	161.35	160.99	161.07	
11	161.01	162.52	163.29	163.31	163.67	163.43	162.87	161.74	161.81	161.39	161.04	161.08	
12	161.01	162.72	163.11	163.51	163.30	163.66	162.89	161.72	161.73	161.38	161.07	161.07	
13	161.01	162.73	163.02	163.49	162.98	164.18	162.70	161.69	161.64	161.37	161.09	161.07	
14	161.01	162.90	163.13	163.17	162.76	164.81	162.54	161.69	161.61	161.36	161.17	161.07	
15	161.11	162.56	163.21	162.91	162.62	165.63	162.57	161.72	161.58	161.35	161.21	161.05	
16	161.20	162.21	163.08	162.77	162.58	165.67	162.88	161.71	161.55	161.34	161.22	161.04	
17	161.10	161.99	162.81	162.60	162.90	166.06	162.73	161.74	161.49	161.33	161.17	160.99	
18	161.13	162.05	162.53	162.47	163.82	166.25	162.51	161.75	161.45	161.32	161.13	160.96	
19	161.14	162.23	162.35	162.40	164.42	165.92	162.43	161.72	161.47	161.25	161.07	160.93	
20	161.12	162.59	162.31	162.32	164.43	165.58	162.42	161.71	161.51	161.19	161.05	160.89	
21	161.10	163.39	162.31	162.28	164.29	164.83	162.54	161.70	161.52	161.14	161.04	160.88	
22	161.10	163.58	162.23	162.22	164.26	163.84	162.46	161.64	161.51	161.12	161.02	160.88	
23	161.09	163.37	162.17	162.14	164.63	163.41	162.37	161.55	161.49	161.09	160.98	160.90	
24	161.08	163.35	162.26	162.03	164.72	163.32	162.28	161.73	161.34	161.11	160.97	160.92	
25	161.04	163.26	162.26	161.95	164.88	163.50	162.24	162.01	161.29	161.14	160.96	160.96	
26	161.01	162.89	162.35	161.94	165.18	163.56	162.26	162.00	161.25	161.14	161.03	161.02	
27	160.98	162.46	162.42	161.89	165.23	163.49	162.47	161.83	161.22	161.16	161.09	160.98	
28	160.96	163.21	162.43	161.86	165.27	163.31	162.39	161.71	161.21	161.14	161.09	160.98	
29	160.97	164.00	162.84	161.90	165.41	163.33	162.18	161.65	161.20	161.17		161.07	
30	160.98	164.36	163.43	162.15	165.44	163.55	162.08	161.63	161.21	161.18		161.13	
31		165.17		162.19	165.18		162.04		161.21	161.15		161.15	
Mean	161.09	162.45	163.00	162.79	164.19	164.54	162.74	161.79	161.55	161.24	161.07	161.02	
Max	161.45	165.17	164.34	164.56	165.44	166.25	163.94	162.01	162.15	161.39	161.22	161.15	166.25
Min	160.96	160.96	162.17	161.86	162.19	163.31	162.04	161.55	161.20	161.09	160.96	160.88	160.88

Annual Max Momentary Gage Height 166.28 M (MSL), at 16.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 161.00 M (MSL), River Bed 160.09 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.65	2.82	206.80	193.60	37.78	354.40	159.00	30.00	29.60	7.30	6.16	5.40	
2	9.96	2.82	133.70	233.80	54.74	501.20	163.00	29.20	36.10	7.70	6.35	6.16	
3	7.70	3.16	127.40	198.40	312.00	584.40	148.10	29.20	30.00	7.70	5.78	5.78	
4	6.54	4.45	117.20	148.10	363.20	400.60	137.30	28.40	21.60	7.90	4.64	4.83	
5	5.97	4.64	137.30	110.80	250.70	263.20	113.20	27.20	17.40	8.30	4.45	4.26	
6	5.40	4.07	148.10	86.80	254.80	249.40	90.30	26.00	15.96	8.50	4.07	3.88	
7	5.21	4.64	146.30	72.04	239.00	271.60	81.90	24.95	15.69	8.50	3.88	3.69	
8	4.64	9.30	120.40	75.14	209.20	196.00	73.90	23.90	16.23	8.90	3.50	3.69	
9	4.26	8.70	106.00	82.60	205.60	153.00	70.20	21.90	19.50	9.74	3.33	4.07	
10	3.88	63.60	111.60	86.10	169.00	127.40	62.40	24.60	22.50	10.40	3.33	4.83	
11	3.69	54.16	105.20	106.80	137.30	116.40	75.14	20.70	22.85	11.28	4.26	5.02	
12	3.69	66.00	91.70	122.90	106.00	136.40	76.38	20.10	20.40	11.06	4.83	4.83	
13	3.69	66.60	85.40	121.20	82.60	187.80	64.80	19.20	17.70	10.84	5.21	4.83	
14	3.69	77.00	93.10	95.90	68.40	267.40	55.32	19.20	16.80	10.62	6.73	4.83	
15	5.59	56.48	98.80	77.70	60.00	432.70	57.06	20.10	15.96	10.40	7.50	4.45	
16	7.30	38.68	89.60	69.00	57.64	444.30	75.76	19.80	15.15	10.18	7.70	4.26	
17	5.40	29.60	71.42	58.80	77.00	565.20	66.60	20.70	13.57	9.96	6.73	3.33	
18	5.97	32.00	54.74	51.44	151.00	627.00	53.58	21.00	12.65	9.74	5.97	2.82	
19	6.16	39.64	45.40	47.80	216.40	520.40	49.36	20.10	13.11	8.30	4.83	2.31	
20	5.78	58.22	43.48	43.96	217.60	418.80	48.84	19.80	14.07	7.11	4.45	1.62	
21	5.40	113.20	43.48	42.04	200.80	270.20	55.32	19.50	14.34	6.16	4.26	1.44	
22	5.40	129.20	39.64	39.16	197.20	153.00	50.92	17.70	14.07	5.78	3.88	1.44	
23	5.21	111.60	36.94	35.68	242.90	114.80	46.36	15.15	13.57	5.21	3.16	1.80	
24	5.02	110.00	41.08	31.20	254.80	107.60	42.04	20.40	10.18	5.59	2.99	2.14	
25	4.26	102.80	41.08	28.00	277.20	122.00	40.12	30.40	9.10	6.16	2.82	2.82	
26	3.69	76.38	45.40	27.60	326.40	127.40	41.08	30.00	8.30	6.16	4.07	3.88	
27	3.16	50.92	48.84	25.65	336.00	121.20	51.44	23.55	7.70	6.54	5.21	3.16	
28	2.82	98.80	49.36	24.60	344.00	106.80	47.32	19.80	7.50	6.16	5.21	3.16	
29	2.99	169.00	73.28	26.00	374.60	108.40	37.36	18.00	7.30	6.73		4.83	
30	3.16	209.20	116.40	36.10	382.40	126.50	33.20	17.40	7.50	6.92		5.97	
31		324.60		37.78	326.40		31.60		7.50	6.35		6.35	
Total	158.28	2122.28	2669.14	2436.69	6532.66	8175.50	2198.90	677.95	493.90	252.19	135.30	121.88	25974.67 CMSDAY
Mean	5.28	68.46	88.97	78.60	210.73	272.52	70.93	22.60	15.93	8.14	4.83	3.93	71.16 CMS
Max	12.65	324.60	206.80	233.80	382.40	627.00	163.00	30.40	36.10	11.28	7.70	6.35	627.00 CMS
Min	2.82	2.82	36.94	24.60	37.78	106.80	31.60	15.15	7.30	5.21	2.82	1.44	1.44 CMS
Runoff	13.675	183.365	230.614	210.530	564.422	706.363	189.985	58.575	42.673	21.789	11.690	10.530	2244.212 MCM

Momentary Peak 637.20 CMS, at 166.28 M (MSL), at 16.00 Hours, on Sep 18, 1994

Runoff Yield 7.92 Liters/Second/Square KM, Momentary Peak Yield 70.92 Liters/Second/Square KM

WATER YEAR 1994

WANG RIVER BASIN

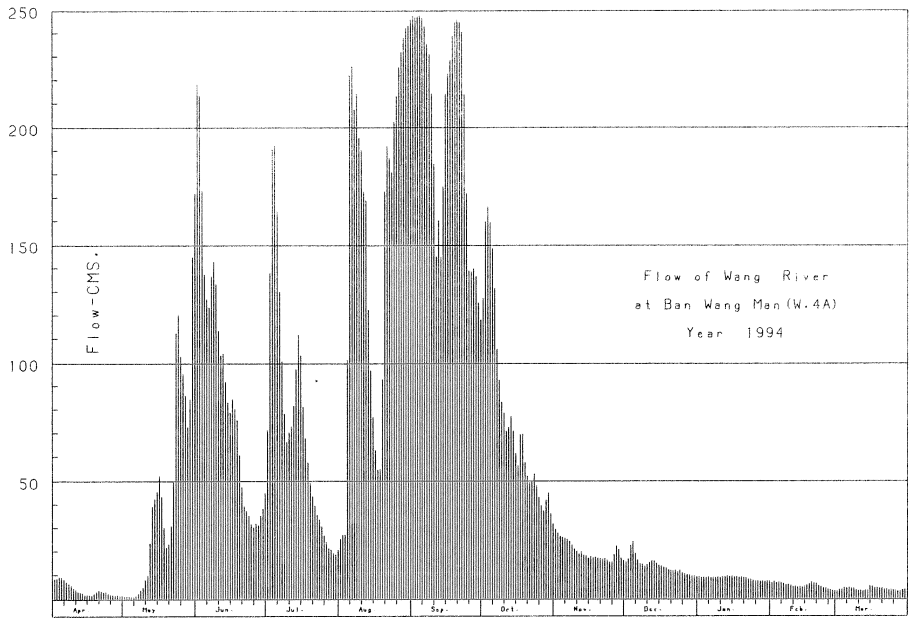
Wang River at Ban Wang Man, Tak (W.4A)

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	Staff gage.
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	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.
Period of Available Gage Records	1968 to date.
Rating Operation	
Period of Rating	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. Flow effected by the local weir in drought period. Stage-discharge relation defined by 27 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.13	130.50	135.68	133.26	132.03	136.02	134.36	132.17	131.66	131.23	130.95	130.72	
2	131.12	130.48	135.62	134.54	132.08	136.01	134.88	132.11	131.71	131.21	130.98	130.75	
3	131.24	130.48	135.08	135.33	132.09	136.02	134.98	132.07	131.94	131.20	130.96	130.77	
4	131.18	130.47	134.53	135.35	133.88	136.02	134.88	132.05	131.99	131.20	130.96	130.80	
5	131.10	130.45	134.35	134.95	135.72	136.01	134.71	132.04	131.83	131.20	130.96	130.81	
6	130.96	130.49	134.29	134.41	135.77	135.97	134.43	132.02	131.69	131.19	130.92	130.82	
7	130.93	130.65	134.52	133.87	135.55	135.88	133.97	132.00	131.62	131.19	130.90	130.80	
8	130.86	130.73	134.62	133.42	135.63	135.83	133.72	131.94	131.60	131.20	130.89	130.78	
9	130.80	130.82	134.46	133.15	135.40	135.63	133.53	131.89	131.57	131.20	130.88	130.75	
10	130.74	131.04	134.11	133.24	135.32	135.24	133.43	131.85	131.59	131.21	130.85	130.73	
11	130.70	131.33	133.92	133.30	135.07	134.65	133.26	131.82	131.65	131.23	130.84	130.72	
12	130.68	131.97	133.93	133.49	135.02	134.89	133.29	131.84	131.67	131.25	130.83	130.72	
13	130.65	132.47	133.71	133.81	134.27	134.65	133.39	131.80	131.68	131.27	130.83	130.73	
14	130.61	132.57	133.52	134.08	133.80	135.10	133.26	131.78	131.62	131.26	130.83	130.74	
15	130.60	132.65	133.43	133.92	133.39	135.63	133.04	131.74	131.59	131.25	130.84	130.85	
16	130.59	132.81	133.55	133.48	133.07	135.73	132.92	131.76	131.56	131.24	130.87	130.83	
17	130.60	132.59	133.46	133.19	132.88	135.80	133.22	131.75	131.55	131.23	130.92	130.81	
18	130.63	132.18	133.36	132.96	132.88	135.92	133.23	131.75	131.52	131.22	130.96	130.80	
19	130.70	131.91	133.03	132.74	133.73	135.99	132.96	131.74	131.49	131.21	130.95	130.80	
20	130.74	131.95	132.70	132.60	135.07	136.00	132.81	131.72	131.47	131.20	130.92	130.79	
21	130.70	132.21	132.48	132.48	135.35	135.99	132.74	131.72	131.47	131.15	130.87	130.77	
22	130.69	132.75	132.42	132.37	135.27	135.94	132.76	131.72	131.47	131.11	130.83	130.76	
23	130.68	134.09	132.36	132.30	135.19	135.63	132.84	131.70	131.45	131.08	130.81	130.75	
24	130.65	134.23	132.23	132.21	135.48	135.06	132.71	131.64	131.47	131.04	130.79	130.75	
25	130.60	133.91	132.19	132.08	135.62	134.56	132.59	131.66	131.43	131.00	130.77	130.75	
26	130.58	133.77	132.24	131.98	135.76	134.55	132.49	131.80	131.40	130.99	130.74	130.72	
27	130.58	133.59	132.22	131.90	135.84	134.57	132.42	131.93	131.36	131.00	130.73	130.71	
28	130.58	133.29	132.35	131.87	135.91	134.52	132.55	131.87	131.32	130.99	130.71	130.71	
29	130.55	133.55	132.45	131.83	135.96	134.32	132.64	131.74	131.29	130.99		130.75	
30	130.52	134.65	132.63	131.80	135.97	134.19	132.39	131.68	131.26	130.99		130.75	
31		135.06		131.87	136.00		132.24		131.24	130.99		130.75	
Mean	130.76	132.25	133.51	133.15	134.68	135.41	133.31	131.84	131.55	131.15	130.87	130.76	
Max	131.24	135.06	135.68	135.35	136.00	136.02	134.98	132.17	131.99	131.27	130.98	130.85	136.02
Min	130.52	130.45	132.19	131.80	132.03	134.19	132.24	131.64	131.24	130.99	130.71	130.71	130.45

Annual Max Momentary Gage Height 136.04 M (MSL), at 7.00 Hours, on Sep 5, 1994
Zero Gage at Bottom Elevation 130.00 M (MSL), River Bed 130.12 M (MSL)
Left Bank Elevation 136.08 M (MSL)
Right Bank Elevation 136.36 M (MSL), Drainage Area 10507 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.98	1.50	218.80	71.70	25.90	247.70	127.80	30.10	16.20	9.72	7.25	3.80	
2	8.90	1.40	213.70	138.40	27.40	246.85	160.20	28.30	17.20	9.58	7.70	4.25	
3	9.80	1.40	173.60	191.10	27.70	247.70	166.70	27.10	23.20	9.50	7.40	4.55	
4	9.35	1.35	137.80	192.50	101.40	247.70	160.20	26.50	24.70	9.50	7.40	5.00	
5	8.75	1.25	127.25	164.75	222.20	246.85	149.15	26.20	19.90	9.50	7.40	5.15	
6	7.40	1.45	123.95	130.60	226.45	243.45	131.80	25.60	16.80	9.43	6.80	5.30	
7	6.95	2.75	137.20	100.85	208.00	235.80	106.35	25.00	15.40	9.43	6.50	5.00	
8	5.90	3.95	143.30	78.90	214.55	231.55	93.00	23.20	15.00	9.50	6.35	4.70	
9	5.00	5.30	133.60	66.75	196.00	214.55	83.85	21.70	14.40	9.50	6.20	4.25	
10	4.10	8.30	114.05	70.80	190.40	184.80	79.35	20.50	14.80	9.58	5.75	3.95	
11	3.50	10.48	103.60	73.50	172.90	145.25	71.70	19.60	16.00	9.72	5.60	3.80	
12	3.20	24.10	104.15	82.05	169.40	160.85	73.05	20.20	16.40	9.88	5.45	3.80	
13	2.75	39.45	92.50	97.55	122.85	145.25	77.55	19.00	16.60	10.03	5.45	3.95	
14	2.15	42.95	83.40	112.40	97.00	175.00	71.70	18.60	15.40	9.95	5.45	4.10	
15	2.00	46.00	79.35	103.60	77.55	214.55	61.80	17.80	14.80	9.88	5.60	5.75	
16	1.95	52.40	84.75	81.60	63.15	223.05	56.80	18.20	14.20	9.80	6.05	5.45	
17	2.00	43.65	80.70	68.55	55.20	229.00	69.90	18.00	14.00	9.72	6.80	5.15	
18	2.45	30.40	76.20	58.40	55.20	239.20	70.35	18.00	13.40	9.65	7.40	5.00	
19	3.50	22.30	61.35	49.60	93.50	245.15	58.40	17.80	12.80	9.58	7.25	5.00	
20	4.10	23.50	48.00	44.00	172.90	246.00	52.40	17.40	12.40	9.50	6.80	4.85	
21	3.50	31.30	39.80	39.80	192.50	245.15	49.60	17.40	12.40	9.12	6.05	4.55	
22	3.35	50.00	37.70	36.10	186.90	240.90	50.40	17.40	12.40	8.83	5.45	4.40	
23	3.20	112.95	35.80	34.00	181.30	214.55	53.60	17.00	12.00	8.60	5.15	4.25	
24	2.75	120.65	31.90	31.30	202.40	172.20	48.40	15.80	12.40	8.30	4.85	4.25	
25	2.00	103.05	30.70	27.40	213.70	139.60	43.65	16.20	11.60	8.00	4.55	4.25	
26	1.90	95.50	32.20	24.40	225.60	139.00	40.15	19.00	11.00	7.85	4.10	3.80	
27	1.90	86.55	31.60	22.00	232.40	140.20	37.70	22.90	10.70	8.00	3.95	3.65	
28	1.90	73.05	35.50	21.10	238.35	137.20	42.25	21.10	10.40	7.85	3.65	3.65	
29	1.75	84.75	38.75	19.90	242.60	125.60	45.60	17.80	10.17	7.85		4.25	
30	1.60	145.25	45.20	19.00	243.45	118.45	36.70	16.60	9.95	7.85		4.25	
31		172.20		21.10	246.00		32.20		9.80	7.85		4.25	
Total	126.58	1439.13	2696.40	2273.70	4924.85	6043.10	2402.30	620.00	446.42	283.05	168.35	138.35	21562.23 CMSDAY
Mean	4.22	46.42	89.88	73.35	158.87	201.44	77.49	20.67	14.40	9.13	6.01	4.46	59.07 CMS
Max	9.80	172.20	218.80	192.50	246.00	247.70	166.70	30.10	24.70	10.03	7.70	5.75	247.70 CMS
Min	1.60	1.25	30.70	19.00	25.90	118.45	32.20	15.80	9.80	7.85	3.65	3.65	1.25 CMS
Runoff	10.937	124.341	232.969	196.448	425.507	522.124	207.559	53.568	38.571	24.456	14.545	11.953	1862.977 MCM

Momentary Peak 249.40 CMS, at 136.04 M (MSL), at 7.00 Hours, on Sep 5, 1994

Runoff Yield 5.62 Liters/Second/Square KM, Momentary Peak Yield 23.74 Liters/Second/Square KM

WATER YEAR 1994

WANG RIVER BASIN

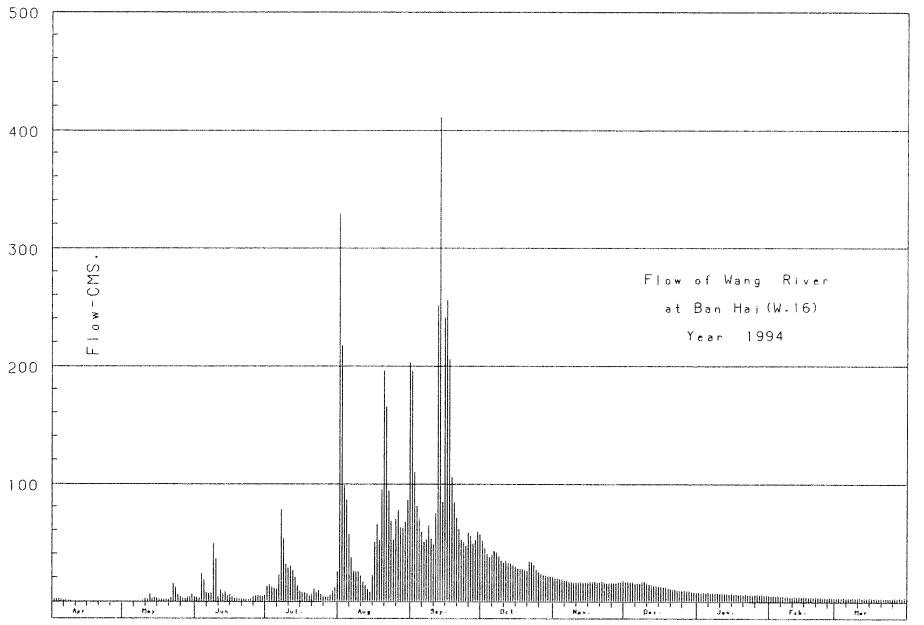
Wang River at Ban Hai, Lampang (W.16)

Location	Lat. 18°-48'-12" N., Long. 99°-38'-45" E., on right bank at Ban Hai, Amphoe Chae Hom Lampang.
Drainage Area	1,284 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+7.676 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1971 to date.
Rated by Float	-
Rated by Current Meter	1971 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.66	0.19	0.77	1.36	5.76	4.71	2.62	1.67	1.55	1.10	0.92	0.75	
2	0.61	0.18	0.74	1.43	4.91	3.71	2.47	1.66	1.54	1.10	0.93	0.75	
3	0.65	0.18	1.82	1.35	3.53	3.24	2.34	1.65	1.54	1.10	0.92	0.75	
4	0.52	0.17	1.62	1.27	3.33	3.02	2.28	1.62	1.53	1.10	0.91	0.75	
5	0.47	0.16	1.10	1.28	2.76	2.80	2.32	1.60	1.49	1.10	0.90	0.75	
6	0.44	0.16	1.03	1.76	2.25	2.60	2.41	1.58	1.49	1.08	0.90	0.74	
7	0.40	0.17	1.08	3.18	1.89	2.64	2.37	1.55	1.49	1.07	0.89	0.74	
8	0.34	0.27	2.56	2.67	1.87	2.90	2.30	1.54	1.54	1.07	0.87	0.74	
9	0.31	0.41	2.24	2.08	1.88	2.67	2.18	1.52	1.56	1.06	0.84	0.74	
10	0.29	0.63	0.85	1.97	1.74	2.53	2.13	1.52	1.50	1.06	0.83	0.74	
11	0.27	0.60	1.24	2.03	1.53	3.12	2.18	1.53	1.46	1.06	0.84	0.74	
12	0.27	1.01	1.02	1.92	1.41	5.18	2.14	1.53	1.43	1.04	0.85	0.73	
13	0.26	0.69	1.14	1.69	1.24	6.30	2.09	1.52	1.41	1.03	0.85	0.72	
14	0.25	0.77	0.90	1.40	1.13	3.29	2.06	1.52	1.38	1.02	0.84	0.72	
15	0.26	0.70	0.99	1.18	1.77	5.11	2.01	1.52	1.37	1.04	0.84	0.72	
16	0.26	0.57	0.82	1.07	2.58	5.22	1.97	1.54	1.34	1.02	0.83	0.72	
17	0.25	0.54	0.71	1.10	2.93	4.80	1.95	1.55	1.34	1.01	0.83	0.72	
18	0.25	0.55	0.69	1.02	2.64	3.65	1.95	1.55	1.34	1.00	0.82	0.72	
19	0.23	0.61	0.63	0.91	3.47	3.29	1.91	1.52	1.30	0.99	0.82	0.71	
20	0.22	0.51	0.58	1.01	4.71	3.04	1.90	1.52	1.26	0.99	0.82	0.70	
21	0.22	0.78	0.56	1.25	4.40	2.85	2.16	1.56	1.24	1.00	0.81	0.69	
22	0.22	1.50	0.53	1.10	3.46	2.65	2.15	1.51	1.23	0.98	0.79	0.68	
23	0.21	1.32	0.48	1.18	2.98	2.59	2.06	1.51	1.20	0.97	0.78	0.68	
24	0.19	0.97	0.62	1.02	2.65	2.52	1.94	1.49	1.19	0.97	0.78	0.68	
25	0.22	0.80	0.84	0.88	3.01	2.79	1.87	1.52	1.19	0.99	0.76	0.70	
26	0.20	0.72	0.92	0.85	3.17	2.72	1.81	1.49	1.19	0.99	0.76	0.71	
27	0.20	0.65	0.95	0.85	2.87	2.57	1.78	1.51	1.18	0.99	0.76	0.72	
28	0.26	0.79	0.90	0.94	2.86	2.64	1.75	1.52	1.16	0.98	0.75	0.72	
29	0.22	0.84	0.90	1.19	2.97	2.81	1.73	1.55	1.15	0.96		0.73	
30	0.21	1.00	0.93	1.30	3.32	2.75	1.72	1.58	1.11	0.96		0.73	
31		0.83		1.88	4.78		1.71		1.12	0.95		0.73	
Mean	0.31	0.62	1.01	1.42	2.90	3.36	2.07	1.55	1.35	1.03	0.84	0.72	
Max	0.66	1.50	2.56	3.18	5.76	6.30	2.62	1.67	1.56	1.10	0.93	0.75	6.30
Min	0.19	0.16	0.48	0.85	1.13	2.52	1.71	1.49	1.11	0.95	0.75	0.68	0.16

Annual Max Momentary Gage Height 6.70 M (A.D), at 15.00 Hours, on Sep 15, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.03 M (A.D)
Left Bank Elevation 7.27 M (A.D)
Right Bank Elevation 7.26 M (A.D), Drainage Area 1284 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.80	0.47	3.70	13.20	329.40	196.10	51.80	20.25	17.25	8.00	5.30	3.50	
2	2.55	0.44	3.40	14.60	218.20	110.20	45.80	20.00	17.00	8.00	5.45	3.50	
3	2.75	0.44	24.10	13.00	98.80	81.70	40.60	19.75	17.00	8.00	5.30	3.50	
4	2.10	0.41	19.00	11.40	86.80	70.50	38.30	19.00	16.75	8.00	5.15	3.50	
5	1.85	0.38	8.00	11.60	57.70	59.50	39.80	18.50	15.80	8.00	5.00	3.50	
6	1.70	0.38	6.95	22.50	37.25	51.00	43.40	18.00	15.80	7.70	5.00	3.40	
7	1.50	0.41	7.70	78.50	26.20	52.60	41.80	17.25	15.80	7.55	4.90	3.40	
8	1.20	0.85	49.40	53.80	25.60	64.50	39.00	17.00	17.00	7.55	4.70	3.40	
9	1.05	1.55	36.90	31.90	25.90	53.80	34.90	16.50	17.50	7.40	4.40	3.40	
10	0.95	2.65	4.50	28.60	22.00	48.20	33.40	16.50	16.00	7.40	4.30	3.40	
11	0.85	2.50	10.80	30.40	16.75	75.50	34.90	16.75	15.20	7.40	4.40	3.40	
12	0.85	6.65	6.80	27.10	14.20	251.40	33.70	16.75	14.60	7.10	4.50	3.30	
13	0.80	2.95	8.80	20.75	10.80	411.21	32.20	16.50	14.20	6.95	4.50	3.20	
14	0.75	3.70	5.00	14.00	8.60	84.45	31.30	16.50	13.60	6.80	4.40	3.20	
15	0.80	3.00	6.35	9.60	22.75	242.30	29.80	16.50	13.40	7.10	4.40	3.20	
16	0.80	2.35	4.20	7.55	50.20	256.60	28.60	17.00	12.80	6.80	4.30	3.20	
17	0.75	2.20	3.10	8.00	66.00	206.00	28.00	17.25	12.80	6.65	4.30	3.20	
18	0.75	2.25	2.95	6.80	52.60	106.25	28.00	17.25	12.80	6.50	4.20	3.20	
19	0.65	2.55	2.65	5.15	95.20	84.45	26.80	16.50	12.00	6.35	4.20	3.10	
20	0.60	2.05	2.40	6.65	196.10	71.50	26.50	16.50	11.20	6.35	4.20	3.00	
21	0.60	3.80	2.30	11.00	166.00	62.00	34.30	17.50	10.80	6.50	4.10	2.95	
22	0.60	16.00	2.15	8.00	94.60	53.00	34.00	16.25	10.60	6.20	3.90	2.90	
23	0.55	12.40	1.90	9.60	68.50	50.60	31.30	16.25	10.00	6.05	3.80	2.90	
24	0.47	6.05	2.60	6.80	53.00	47.80	27.70	15.80	9.80	6.05	3.80	2.90	
25	0.60	4.00	4.40	4.80	70.00	59.05	25.60	16.50	9.80	6.35	3.60	3.00	
26	0.50	3.20	5.30	4.50	78.00	55.90	23.80	15.80	9.80	6.35	3.60	3.10	
27	0.50	2.75	5.75	4.50	63.00	49.80	23.00	16.25	9.60	6.35	3.60	3.20	
28	0.80	3.90	5.00	5.60	62.50	52.60	22.25	16.50	9.20	6.20	3.50	3.20	
29	0.60	4.40	5.00	9.80	68.00	60.00	21.75	17.25	9.00	5.90		3.30	
30	0.55	6.50	5.45	12.00	86.20	57.25	21.50	18.00	8.20	5.90		3.30	
31		4.30		25.90	203.80		21.25		8.40	5.75		3.30	
Total	31.82	105.48	256.55	517.60	2474.65	3125.76	995.05	516.35	403.70	213.20	122.80	100.55	8863.51 CMSDAY
Mean	1.06	3.40	8.55	16.70	79.83	104.19	32.10	17.21	13.02	6.88	4.39	3.24	24.28 CMS
Max	2.80	16.00	49.40	78.50	329.40	411.21	51.80	20.25	17.50	8.00	5.45	3.50	411.21 CMS
Min	0.47	0.38	1.90	4.50	8.60	47.80	21.25	15.80	8.20	5.75	3.50	2.90	0.38 CMS
Runoff	2.749	9.113	22.166	44.721	213.810	270.066	85.972	44.613	34.880	18.420	10.610	8.688	765.807 MCM

Momentary Peak 475.50 CMS, at 6.70 M (A.D), at 15.00 Hours, on Sep 15, 1994
Runoff Yield 18.91 Liters/Second/Square KM, Momentary Peak Yield 370.33 Liters/Second/Square KM

WATER YEAR 1994

WANG RIVER BASIN

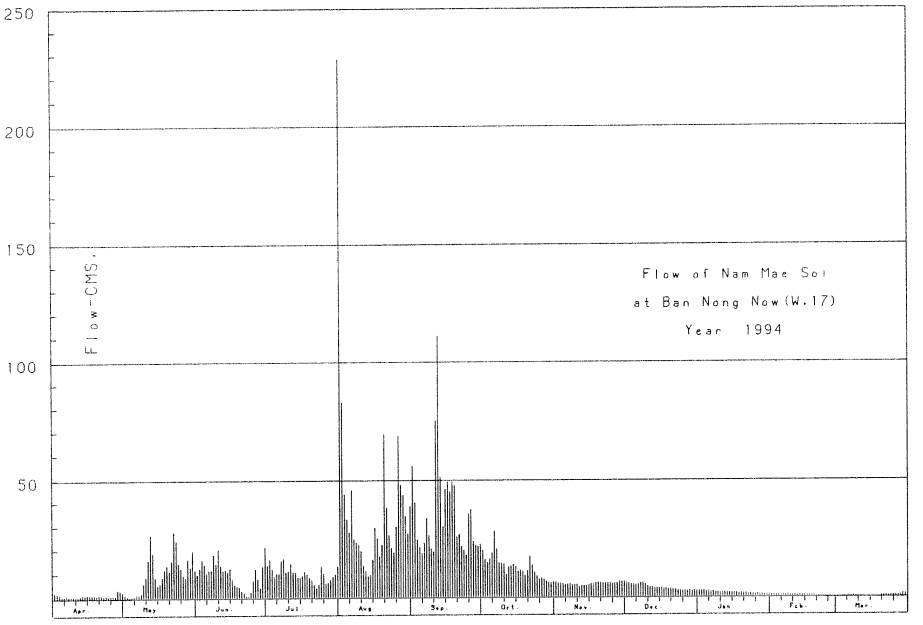
Nam Mae Soi at Ban Nong Nao, Lampang (W.17)

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, Tambon Chae Hom, Amphoe Chae Hom, Lampang.
Drainage Area	619 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+292.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	About 21 meters from the top staff gage.
Elevation	+295.790 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1980 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	292.00	291.94	292.32	292.45	295.00	293.54	292.65	292.20	292.19	292.03	291.91	291.81	
2	291.98	291.86	292.41	292.54	293.95	293.20	292.53	292.17	292.17	292.03	291.91	291.81	
3	291.94	291.85	292.53	292.40	293.28	292.80	292.48	292.18	292.16	292.03	291.91	291.81	
4	291.91	291.84	292.47	292.28	293.03	292.69	292.54	292.16	292.15	292.02	291.91	291.81	
5	291.90	291.89	292.34	292.33	292.89	292.62	292.62	292.15	292.15	292.02	291.91	291.81	
6	291.89	291.93	292.37	292.32	293.32	292.75	292.90	292.15	292.15	292.01	291.91	291.81	
7	291.88	291.94	292.38	292.52	292.80	293.04	292.67	292.17	292.18	292.01	291.91	291.82	
8	291.87	291.97	292.60	292.54	292.76	292.85	292.48	292.14	292.18	292.00	291.91	291.83	
9	291.87	292.18	292.47	292.35	292.73	292.68	292.47	292.15	292.16	292.00	291.91	291.84	
10	291.86	292.27	292.67	292.36	292.65	292.63	292.46	292.15	292.12	291.99	291.91	291.82	
11	291.86	292.53	292.45	292.48	292.44	293.85	292.31	292.12	292.11	291.99	291.90	291.81	
12	291.90	292.86	292.37	292.35	292.37	294.24	292.42	292.13	292.10	291.99	291.90	291.80	
13	291.93	292.61	292.39	292.35	292.28	293.44	292.43	292.13	292.09	291.99	291.90	291.79	
14	291.93	292.27	292.35	292.27	292.31	292.95	292.46	292.13	292.09	291.98	291.90	291.78	
15	291.93	292.15	292.41	292.27	292.53	293.33	292.42	292.15	292.09	291.98	291.89	291.78	
16	291.93	292.17	292.24	292.29	292.94	293.40	292.36	292.16	292.09	291.98	291.89	291.77	
17	291.93	292.27	292.16	292.36	292.81	293.30	292.37	292.16	292.08	291.97	291.89	291.76	
18	291.92	292.38	292.13	292.31	292.57	293.40	292.36	292.18	292.08	291.97	291.89	291.76	
19	291.92	292.45	292.12	292.27	292.73	293.36	292.29	292.19	292.07	291.97	291.88	291.80	
20	291.92	292.37	292.03	292.23	293.77	292.83	292.36	292.18	292.07	291.96	291.87	291.87	
21	291.91	292.51	291.98	292.15	293.15	292.86	292.58	292.18	292.06	291.96	291.86	291.86	
22	291.89	292.90	291.90	292.10	292.85	292.71	292.45	292.18	292.05	291.95	291.85	291.87	
23	291.89	292.78	291.87	292.16	292.69	292.65	292.34	292.18	292.04	291.95	291.83	291.86	
24	291.88	292.48	292.02	292.44	292.62	292.59	292.29	292.18	292.03	291.94	291.82	291.87	
25	291.88	292.40	292.22	292.33	292.95	293.08	292.24	292.17	292.03	291.94	291.81	291.88	
26	291.87	292.30	292.40	292.17	293.76	293.13	292.25	292.17	292.03	291.93	291.80	291.88	
27	291.90	292.27	292.25	292.19	293.37	292.77	292.24	292.18	292.03	291.93	291.80	291.88	
28	292.07	292.54	292.11	292.23	293.27	292.72	292.20	292.20	292.03	291.92	291.80	291.89	
29	292.04	292.42	292.43	292.28	293.06	292.71	292.19	292.20	292.03	291.92		291.95	
30	292.01	292.65	292.70	292.31	292.87	292.73	292.18	292.20	292.03	291.92		291.93	
31		292.38		292.43	293.16		292.19		292.03	291.91		291.89	
Mean	291.92	292.30	292.30	292.32	293.00	293.03	292.41	292.17	292.09	291.97	291.88	291.83	
Max	292.07	292.90	292.70	292.54	295.00	294.24	292.90	292.20	292.19	292.03	291.91	291.95	295.00
Min	291.86	291.84	291.87	292.10	292.28	292.59	292.18	292.12	292.03	291.91	291.80	291.76	291.76

Annual Max Momentary Gage Height 295.29 M (MSL), at 13.00 Hours, on Aug 1, 1994
Zero Gage at Bottom Elevation 292.00 M (MSL), River Bed 291.26 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	1.71	10.36	14.05	229.00	56.20	20.15	7.00	6.75	3.10	1.31	0.57	
2	2.24	0.91	12.89	16.74	83.25	40.50	16.43	6.25	6.25	3.10	1.31	0.57	
3	1.71	0.84	16.43	12.60	44.10	24.90	14.92	6.50	6.00	3.10	1.31	0.57	
4	1.31	0.77	14.63	9.24	33.60	21.39	16.74	6.00	5.75	2.90	1.31	0.57	
5	1.18	1.11	10.92	10.64	28.05	19.22	19.22	5.75	5.75	2.90	1.31	0.57	
6	1.11	1.58	11.76	10.36	45.90	23.30	28.40	5.75	5.75	2.70	1.31	0.57	
7	1.04	1.71	12.04	16.12	24.90	34.00	20.77	6.25	6.50	2.70	1.31	0.64	
8	0.98	2.10	18.60	16.74	23.62	26.65	14.92	5.50	6.50	2.50	1.31	0.70	
9	0.98	6.50	14.63	11.20	22.66	21.08	14.63	5.75	6.00	2.50	1.31	0.77	
10	0.91	8.96	20.77	11.48	20.15	19.53	14.34	5.75	5.00	2.37	1.31	0.64	
11	0.91	16.43	14.05	14.92	13.76	75.25	10.08	5.00	4.75	2.37	1.18	0.57	
12	1.18	27.00	11.76	11.20	11.76	111.60	13.18	5.25	4.50	2.37	1.18	0.50	
13	1.58	18.91	12.32	11.20	9.24	51.30	13.47	5.25	4.30	2.37	1.18	0.45	
14	1.58	8.96	11.20	8.96	10.08	30.40	14.34	5.25	4.30	2.24	1.18	0.40	
15	1.58	5.75	12.89	8.96	16.43	46.35	13.18	5.75	4.30	2.24	1.11	0.40	
16	1.58	6.25	8.12	9.52	30.00	49.50	11.48	6.00	4.30	2.24	1.11	0.35	
17	1.58	8.96	6.00	11.48	25.25	45.00	11.76	6.00	4.10	2.10	1.11	0.30	
18	1.44	12.04	5.25	10.08	17.67	49.50	11.48	6.50	4.10	2.10	1.11	0.30	
19	1.44	14.05	5.00	8.96	22.66	47.70	9.52	6.75	3.90	2.10	1.04	0.50	
20	1.44	11.76	3.10	7.84	69.55	25.95	11.48	6.50	3.90	1.97	0.98	0.98	
21	1.31	15.81	2.24	5.75	38.45	27.00	17.98	6.50	3.70	1.97	0.91	0.91	
22	1.11	28.40	1.18	4.50	26.65	22.02	14.05	6.50	3.50	1.84	0.84	0.98	
23	1.11	24.26	0.98	6.00	21.39	20.15	10.92	6.50	3.30	1.84	0.70	0.91	
24	1.04	14.92	2.90	13.76	19.22	18.29	9.52	6.50	3.10	1.71	0.64	0.98	
25	1.04	12.60	7.56	10.64	30.40	35.60	8.12	6.25	3.10	1.71	0.57	1.04	
26	0.98	9.80	12.60	6.25	68.90	37.63	8.40	6.25	3.10	1.58	0.50	1.04	
27	1.18	8.96	8.40	6.75	48.15	23.94	8.12	6.50	3.10	1.58	0.50	1.04	
28	3.90	16.74	4.75	7.84	43.65	22.34	7.00	7.00	3.10	1.44	0.50	1.11	
29	3.30	13.18	13.47	9.24	34.80	22.02	6.75	7.00	3.10	1.44		1.84	
30	2.70	20.15	21.70	10.08	27.35	22.66	6.50	7.00	3.10	1.44		1.58	
31		12.04		13.47	38.86		6.75		3.10	1.31		1.11	
Total	45.94	333.16	308.50	326.57	1179.45	1070.97	404.60	184.75	138.00	67.83	29.44	23.46	4112.67 CMSDAY
Mean	1.53	10.75	10.28	10.53	38.05	35.70	13.05	6.16	4.45	2.19	1.05	0.76	11.27 CMS
Max	3.90	28.40	21.70	16.74	229.00	111.60	28.40	7.00	6.75	3.10	1.31	1.84	229.00 CMS
Min	0.91	0.77	0.98	4.50	9.24	18.29	6.50	5.00	3.10	1.31	0.50	0.30	0.30 CMS
Runoff	3.969	28.785	26.654	28.216	101.904	92.532	34.957	15.962	11.923	5.861	2.544	2.027	355.335 MCM

Momentary Peak 285.00 CMS, at 295.29 M (MSL), at 13.00 Hours, on Aug 1, 1994

Runoff Yield 18.20 Liters/Second/Square KM, Momentary Peak Yield 460.42 Liters/Second/Square KM

WATER YEAR 1994

WANG RIVER BASIN

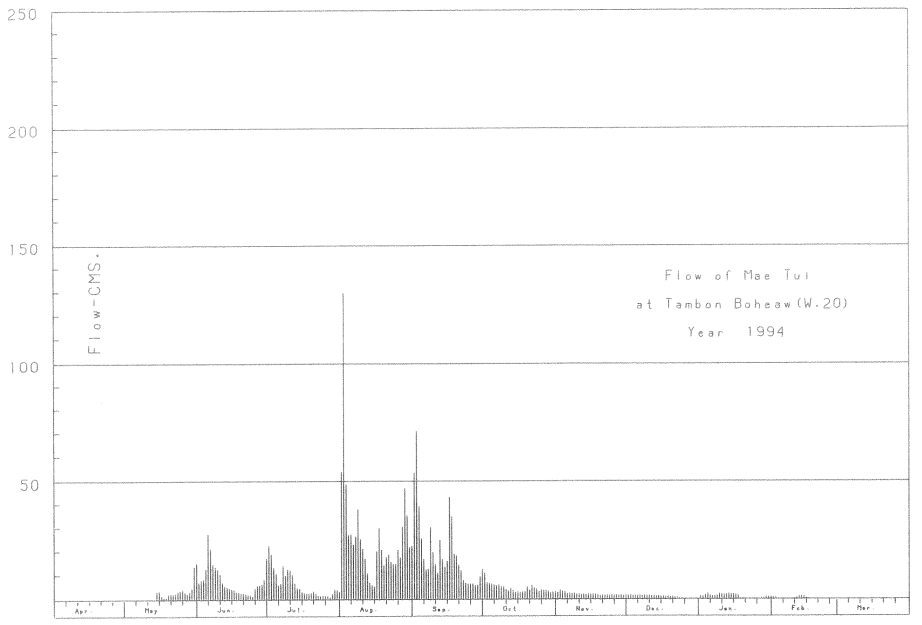
Nam Mae Tui at Ban Tha Lo, Lampang (W.20)

Location	LAT. 18°18′35″ N., Long. 99°27′29″ N., on left bank at the bridge of Lampang-Hang Chat Highway, Tambon Bo Haeo, Amphoe Muang, Lampang.
Drainage Area	1,065 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the approach of the bridge.
Elevation	+7.710 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1993 to date.
Rating Operation	
Period of Rating	1993 to date.
Rated by Float	-
Rated by Current Meter	1993 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.69	0.51	1.92	2.91	3.85	3.84	2.25	1.44	1.18	1.07	0.99	0.78	
2	0.61	0.50	2.04	2.75	5.18	4.18	1.95	1.55	1.17	1.09	0.98	0.77	
3	0.61	0.49	2.06	2.42	3.73	3.50	1.88	1.52	1.17	1.19	0.87	0.77	
4	0.60	0.48	2.40	2.25	3.11	3.04	1.88	1.44	1.16	1.34	0.84	0.76	
5	0.57	0.48	3.13	1.83	3.11	2.63	1.82	1.35	1.16	1.13	0.83	0.74	
6	0.54	0.48	2.85	1.89	2.93	2.36	1.81	1.34	1.16	1.10	0.84	0.74	
7	0.51	0.48	2.52	2.48	3.08	2.39	1.82	1.34	1.16	1.11	0.85	0.73	
8	0.50	0.48	2.43	2.18	3.47	3.23	1.76	1.34	1.15	1.16	0.87	0.73	
9	0.50	0.48	2.38	2.37	3.03	2.79	1.73	1.30	1.15	1.29	0.89	0.74	
10	0.50	0.48	2.23	2.36	2.85	2.51	1.61	1.27	1.14	1.29	0.89	0.82	
11	0.49	0.50	1.93	2.20	2.65	2.25	1.51	1.26	1.13	1.21	0.97	0.80	
12	0.49	0.50	1.79	1.92	2.25	3.01	1.68	1.25	1.12	1.28	1.07	0.80	
13	0.48	0.67	1.72	1.67	1.94	2.63	1.52	1.25	1.11	1.29	1.09	0.83	
14	0.48	1.48	1.68	1.67	1.80	2.45	1.44	1.27	1.10	1.28	1.04	0.77	
15	0.49	1.50	1.63	1.46	1.77	2.58	1.43	1.27	1.09	1.26	0.94	0.75	
16	0.48	1.24	1.57	1.35	2.81	3.60	1.43	1.28	1.07	1.26	0.89	0.72	
17	0.47	0.98	1.48	1.36	3.22	3.38	1.41	1.27	1.06	1.13	0.84	0.72	
18	0.47	0.95	1.43	1.31	2.83	2.75	1.49	1.21	1.05	0.93	0.81	0.73	
19	0.47	1.28	1.38	1.39	2.49	2.71	1.72	1.18	1.05	0.89	0.80	0.72	
20	0.47	1.28	1.33	1.48	2.67	2.50	1.58	1.18	1.04	0.87	0.80	0.71	
21	0.47	1.31	1.28	1.32	2.74	2.34	1.79	1.18	1.02	0.86	0.80	0.72	
22	0.46	1.36	1.25	1.16	2.56	2.04	1.70	1.17	0.97	0.86	0.84	0.72	
23	0.46	1.45	1.18	1.10	2.52	1.90	1.61	1.19	0.94	0.86	0.83	0.74	
24	0.45	1.54	1.12	1.19	2.51	1.89	1.48	1.19	0.92	0.85	0.83	0.73	
25	0.46	1.58	1.67	1.17	2.84	1.88	1.59	1.19	0.87	0.85	0.82	0.72	
26	0.48	1.42	1.78	1.09	2.66	1.87	1.53	1.19	0.83	0.85	0.81	0.80	
27	0.48	1.33	1.82	1.02	3.24	1.81	1.55	1.18	0.84	0.92	0.80	0.82	
28	0.48	1.42	1.85	1.32	3.69	1.81	1.47	1.18	0.84	0.96	0.80	0.82	
29	0.48	1.68	2.07	1.59	3.39	2.15	1.41	1.18	0.84	1.00		0.80	
30	0.51	2.46	2.64	1.55	2.89	2.39	1.41	1.18	0.84	1.04		0.78	
31		2.53		1.48	2.90		1.44		0.83	0.99		0.73	
Mean	0.50	1.07	1.89	1.72	2.93	2.61	1.64	1.27	1.04	1.07	0.88	0.76	
Max	0.69	2.53	3.13	2.91	5.18	4.18	2.25	1.55	1.18	1.34	1.09	0.83	5.18
Min	0.45	0.48	1.12	1.02	1.77	1.81	1.41	1.17	0.83	0.85	0.80	0.71	0.45

Annual Max Momentary Gage Height 5.60 M (A.D), at 2.00 Hours, on Aug 2, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.28 M (A.D)
Left Bank Elevation 7.93 M (A.D)
Right Bank Elevation 7.93 M (A.D), Drainage Area 1065 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.03	7.10	22.83	54.40	53.92	11.10	3.26	1.86	1.34	0.98	0.22	
2	0.06	0.03	8.34	19.40	130.20	71.32	7.40	3.99	1.81	1.43	0.94	0.20	
3	0.06	0.03	8.56	13.52	48.92	39.60	6.72	3.79	1.81	1.90	0.51	0.20	
4	0.05	0.03	13.20	11.10	27.56	25.86	6.72	3.26	1.76	2.67	0.40	0.19	
5	0.04	0.03	28.08	6.27	27.56	17.14	6.18	2.73	1.76	1.62	0.36	0.16	
6	0.04	0.03	21.50	6.81	23.29	12.64	6.09	2.67	1.76	1.48	0.40	0.16	
7	0.03	0.03	15.16	14.48	26.82	13.06	6.18	2.67	1.76	1.53	0.44	0.15	
8	0.03	0.03	13.68	10.12	38.52	30.77	5.64	2.67	1.71	1.76	0.51	0.15	
9	0.03	0.03	12.92	12.78	25.62	20.20	5.37	2.45	1.71	2.40	0.58	0.16	
10	0.03	0.03	10.82	12.64	21.50	14.98	4.41	2.30	1.67	2.40	0.58	0.32	
11	0.03	0.03	7.20	10.40	17.50	11.10	3.72	2.25	1.62	2.00	0.90	0.25	
12	0.03	0.03	5.91	7.10	11.10	25.14	4.95	2.20	1.57	2.35	1.34	0.25	
13	0.03	0.09	5.28	4.87	7.30	17.14	3.79	2.20	1.53	2.40	1.43	0.36	
14	0.03	3.52	4.95	4.87	6.00	14.00	3.26	2.30	1.48	2.35	1.20	0.20	
15	0.03	3.65	4.56	3.39	5.73	16.24	3.19	2.30	1.43	2.25	0.78	0.18	
16	0.03	2.15	4.13	2.73	20.62	43.40	3.19	2.35	1.34	2.25	0.58	0.13	
17	0.02	0.94	3.52	2.78	30.48	35.36	3.06	2.30	1.30	1.62	0.40	0.13	
18	0.02	0.82	3.19	2.51	21.06	19.40	3.59	2.00	1.25	0.74	0.29	0.15	
19	0.02	2.35	2.89	2.95	14.64	18.60	5.28	1.86	1.25	0.58	0.25	0.13	
20	0.02	2.35	2.62	3.52	17.86	14.80	4.19	1.86	1.20	0.51	0.25	0.11	
21	0.02	2.51	2.35	2.56	19.20	12.36	5.91	1.86	1.11	0.47	0.25	0.13	
22	0.02	2.78	2.20	1.76	15.88	8.34	5.10	1.81	0.90	0.47	0.40	0.13	
23	0.02	3.33	1.86	1.48	15.16	6.90	4.41	1.90	0.78	0.47	0.36	0.16	
24	0.02	3.92	1.57	1.90	14.98	6.81	3.52	1.90	0.70	0.44	0.36	0.15	
25	0.02	4.19	4.87	1.81	21.28	6.72	4.26	1.90	0.51	0.44	0.32	0.13	
26	0.03	3.13	5.82	1.43	17.68	6.63	3.85	1.90	0.36	0.44	0.29	0.25	
27	0.03	2.62	6.18	1.11	31.06	6.09	3.99	1.86	0.40	0.70	0.25	0.32	
28	0.03	3.13	6.45	2.56	47.18	6.09	3.46	1.86	0.40	0.86	0.25	0.32	
29	0.03	4.95	8.67	4.26	35.68	9.70	3.06	1.86	0.40	1.02		0.25	
30	0.03	14.16	17.32	3.99	22.38	13.06	3.06	1.86	0.40	1.20		0.22	
31		15.34		3.52	22.60		3.26		0.36	0.98		0.15	
Total	0.98	76.29	240.90	201.45	839.76	597.37	147.91	70.12	37.90	43.07	15.60	6.01	2277.36 CMSDAY
Mean	0.03	2.46	8.03	6.50	27.09	19.91	4.77	2.34	1.22	1.39	0.56	0.19	6.24 CMS
Max	0.10	15.34	28.08	22.83	130.20	71.32	11.10	3.99	1.86	2.67	1.43	0.36	130.20 CMS
Min	0.02	0.03	1.57	1.11	5.73	6.09	3.06	1.81	0.36	0.44	0.25	0.11	0.02 CMS
Runoff	0.085	6.591	20.814	17.405	72.555	51.613	12.779	6.058	3.275	3.721	1.348	0.519	196.764 MCM

Momentary Peak 155.40 CMS, at 5.60 M (A.D), at 2.00 Hours, on Aug 2, 1994

Runoff Yield 5.86 Liters/Second/Square KM, Momentary Peak Yield 145.92 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

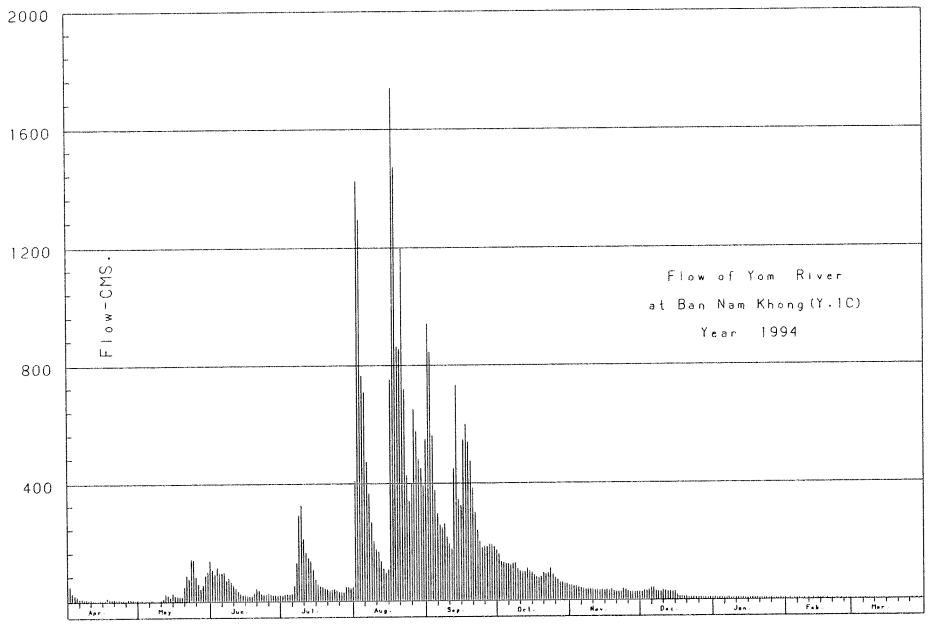
Yom River at Phathana Pak Nua 8 bridge, Phrae (Y.1C)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +151.71 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 101 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	145.07	143.89	146.04	144.39	149.28	151.94	146.81	144.99	144.57	144.17	144.08	144.02	
2	144.57	143.88	145.79	144.44	153.25	151.58	146.47	144.97	144.63	144.17	144.08	144.02	
3	144.44	143.89	146.22	144.47	152.92	150.28	146.40	144.94	144.63	144.17	144.07	144.02	
4	144.30	143.88	145.87	144.44	151.26	149.02	146.36	144.90	144.68	144.17	144.07	144.02	
5	144.15	143.86	145.87	144.51	151.03	148.37	146.36	144.86	144.85	144.16	144.07	144.01	
6	144.14	143.88	145.89	145.07	149.73	148.00	146.27	144.79	144.82	144.16	144.07	144.01	
7	144.08	143.85	145.42	146.43	148.94	147.89	146.37	144.76	144.64	144.16	144.07	144.01	
8	144.07	143.86	145.53	148.32	148.09	148.02	146.37	144.73	144.55	144.12	144.06	144.00	
9	144.03	143.90	145.32	148.64	147.42	147.59	146.09	144.74	144.59	144.13	144.06	144.00	
10	144.01	143.90	145.05	147.52	147.06	147.30	145.92	144.72	144.67	144.14	144.06	144.00	
11	143.96	144.14	144.87	146.92	146.96	147.09	145.85	144.70	144.63	144.14	144.06	144.00	
12	143.95	144.50	144.69	146.67	146.48	149.56	145.90	144.69	144.59	144.14	144.06	144.00	
13	143.88	144.34	144.49	146.50	146.12	151.13	146.11	144.69	144.56	144.14	144.06	144.00	
14	143.92	144.23	144.42	146.07	145.81	148.78	145.92	144.69	144.58	144.13	144.06	143.99	
15	143.92	144.57	144.41	145.47	146.06	148.61	145.83	144.68	144.56	144.13	144.05	143.98	
16	143.93	144.33	144.35	145.14	151.21	150.19	145.71	144.69	144.35	144.12	144.05	143.98	
17	144.21	144.32	144.32	145.02	153.96	150.49	145.58	144.68	144.33	144.13	144.05	143.98	
18	144.06	144.28	144.34	144.93	153.37	150.14	145.54	144.74	144.32	144.12	144.05	143.98	
19	144.07	144.29	144.58	144.85	151.66	149.74	145.58	144.63	144.30	144.11	144.05	143.98	
20	144.06	144.99	144.84	144.78	151.62	149.07	145.83	144.55	144.29	144.11	144.05	143.98	
21	144.00	145.69	144.75	144.74	152.66	148.39	145.74	144.61	144.26	144.10	144.04	143.98	
22	143.95	145.51	144.52	144.75	151.07	147.81	145.83	144.60	144.23	144.10	144.04	143.98	
23	143.96	146.63	144.41	144.82	149.41	147.40	146.09	144.74	144.22	144.10	144.04	143.99	
24	143.94	146.55	144.45	144.70	148.74	147.14	145.75	144.73	144.19	144.10	144.03	144.01	
25	143.94	145.61	144.51	144.64	149.20	147.19	145.51	144.60	144.19	144.10	144.03	144.02	
26	144.02	145.20	144.48	144.61	150.74	147.19	145.39	144.55	144.18	144.10	144.03	144.02	
27	144.05	144.87	144.41	144.60	150.36	147.30	145.26	144.54	144.19	144.10	144.03	144.03	
28	143.98	145.09	144.38	144.95	149.78	147.26	145.21	144.55	144.17	144.10	144.03	144.03	
29	143.93	145.72	144.38	144.96	149.58	147.19	145.17	144.54	144.17	144.09		144.06	
30	143.91	145.92	144.38	144.84	149.14	147.00	145.11	144.55	144.18	144.08		144.06	
31		146.52		144.99	150.20		145.03		144.18	144.08		144.06	
Mean	144.08	144.71	144.90	145.39	149.78	148.62	145.85	144.71	144.43	144.12	144.05	144.01	
Max	145.07	146.63	146.22	148.64	153.96	151.94	146.81	144.99	144.85	144.17	144.08	144.06	153.96
Min	143.88	143.85	144.32	144.39	145.81	147.00	145.03	144.54	144.17	144.08	144.03	143.98	143.85

Annual Max Momentary Gage Height 154.12 M (MSL), at 1.00 Hours, on Aug 17, 1994
Zero Gage at Bottom Elevation 143.50 M (MSL), River Bed 142.42 M (MSL)
Left Bank Elevation 151.70 M (MSL)
Right Bank Elevation 152.90 M (MSL), Drainage Area 7624 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.8	2.8	105.2	19.5	408.4	942.6	156.7	48.8	27.6	6.7	4.5	3.0	
2	27.6	2.6	91.4	21.7	1424.0	845.0	132.9	47.8	30.5	6.7	4.5	3.0	
3	21.7	2.8	115.4	23.1	1295.6	562.4	128.0	46.2	30.5	6.7	4.3	3.0	
4	15.5	2.6	95.8	21.7	765.0	374.6	125.2	44.2	33.1	6.7	4.3	3.0	
5	9.3	2.4	95.8	24.9	710.9	296.7	125.2	42.2	41.7	6.5	4.3	2.7	
6	9.0	2.6	97.0	52.8	473.5	258.0	118.9	38.6	40.2	6.5	4.3	2.7	
7	7.0	2.3	71.1	130.1	364.2	247.0	125.9	37.1	31.0	6.5	4.3	2.7	
8	6.8	2.4	77.1	291.2	267.0	260.0	125.9	35.6	26.7	5.5	4.0	2.5	
9	5.7	2.9	65.6	326.8	201.8	217.1	107.9	36.1	28.5	5.8	4.0	2.5	
10	5.2	2.9	51.8	210.8	174.2	192.0	98.6	35.1	32.5	6.0	4.0	2.5	
11	4.2	9.0	42.7	164.4	167.2	176.3	94.8	34.1	30.5	6.0	4.0	2.5	
12	4.0	24.4	33.6	146.9	133.6	448.0	97.5	33.6	28.5	6.0	4.0	2.5	
13	2.6	17.3	24.0	135.0	109.6	733.9	109.1	33.6	27.2	6.0	4.0	2.5	
14	3.3	12.5	20.8	106.9	92.5	343.6	98.6	33.6	28.1	5.8	4.0	2.4	
15	3.3	27.6	20.4	73.8	106.3	323.2	93.7	33.1	27.2	5.8	3.8	2.3	
16	3.5	16.8	17.7	56.4	752.5	546.4	87.1	33.6	17.7	5.5	3.8	2.3	
17	11.6	16.4	16.4	50.3	1740.8	601.1	79.9	33.1	10.9	5.8	3.8	2.3	
18	6.5	14.6	17.3	45.7	1472.0	538.4	77.7	36.1	10.6	5.5	3.8	2.3	
19	6.8	15.1	28.1	41.7	865.6	475.0	79.9	30.5	10.0	5.2	3.8	2.3	
20	6.5	48.8	41.2	38.1	855.2	381.1	93.7	26.7	9.7	5.2	3.8	2.3	
21	5.0	86.0	36.6	36.1	1196.8	298.9	88.7	29.5	9.0	5.0	3.5	2.3	
22	4.0	76.0	25.3	36.6	720.1	239.0	93.7	29.0	8.2	5.0	3.5	2.3	
23	4.2	144.1	20.4	40.2	425.5	200.0	107.9	36.1	8.0	5.0	3.5	2.4	
24	3.7	138.5	22.1	34.1	338.8	179.8	89.3	35.6	7.3	5.0	3.2	2.7	
25	3.7	81.5	24.9	31.0	398.0	183.3	76.0	29.0	7.3	5.0	3.2	3.0	
26	5.5	59.4	23.5	29.5	650.0	183.3	69.4	26.7	7.0	5.0	3.2	3.0	
27	6.3	42.7	20.4	29.0	576.8	192.0	62.5	26.2	7.3	5.0	3.2	3.2	
28	4.6	53.8	19.0	46.7	481.0	188.8	59.9	26.7	6.7	5.0	3.2	3.2	
29	3.5	87.6	19.0	47.3	451.0	183.3	57.9	26.2	6.7	4.7		4.0	
30	3.1	98.6	19.0	41.2	390.2	170.0	54.9	26.7	7.0	4.5		4.0	
31		136.4		48.8	548.0		50.8		7.0	4.5		4.0	
Total	256.5	1233.4	1358.6	2402.3	18556.1	10780.8	2968.2	1031.4	604.2	174.1	107.8	85.4	39558.8 CMSDAY
Mean	8.6	39.8	45.3	77.5	598.6	359.4	95.7	34.4	19.5	5.6	3.9	2.8	108.4 CMS
Max	52.8	144.1	115.4	326.8	1740.8	942.6	156.7	48.8	41.7	6.7	4.5	4.0	1740.8 CMS
Min	2.6	2.3	16.4	19.5	92.5	170.0	50.8	26.2	6.7	4.5	3.2	2.3	2.3 CMS
Runoff	22.16	106.57	117.38	207.56	1603.25	931.46	256.45	89.11	52.20	15.04	9.31	7.38	3417.88 MCM

Momentary Peak 1817.60 CMS, at 154.12 M (MSL), at 1.00 Hours, on Aug 17, 1994

Runoff Yield 14.22 Liters/Second/Square KM, Momentary Peak Yield 238.41 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

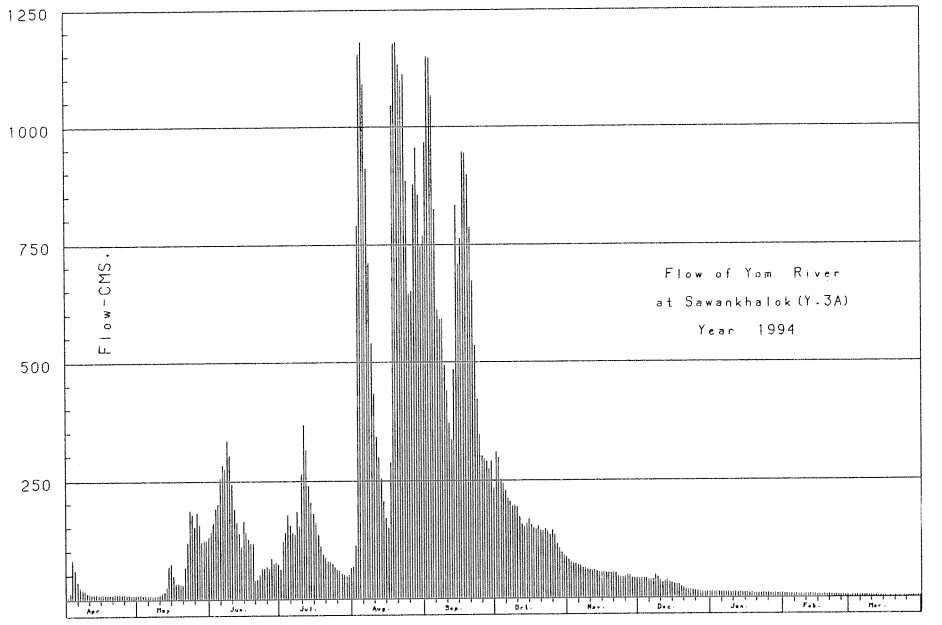
Yom River at Sawankhalok, Sukhothai (Y.3A)

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	+60.669 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 +60.07 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.06	51.23	53.48	52.42	52.48	59.75	55.16	52.70	52.03	51.40	51.20	50.94	
2	51.46	51.26	53.67	53.23	53.11	60.75	55.04	52.62	52.02	51.40	51.17	51.03	
3	52.72	51.22	54.01	53.44	58.72	60.74	54.63	52.58	52.03	51.40	51.16	51.03	
4	52.42	51.20	54.10	53.86	60.77	60.30	54.53	52.56	52.02	51.40	51.16	51.02	
5	51.96	51.17	54.67	53.63	60.91	58.92	54.39	52.53	51.98	51.39	51.15	51.02	
6	51.72	51.15	54.92	53.44	60.43	57.56	54.22	52.49	51.96	51.38	51.15	51.02	
7	51.63	51.13	54.84	53.41	59.44	57.41	54.14	52.45	52.01	51.36	51.14	51.02	
8	51.55	51.13	55.38	53.94	58.20	57.41	54.05	52.41	52.15	51.36	51.14	51.01	
9	51.44	51.18	55.09	53.60	57.04	56.68	54.06	52.38	52.09	51.35	51.14	51.00	
10	51.40	51.25	54.53	54.73	56.21	56.25	54.02	52.35	51.94	51.34	51.14	51.00	
11	51.33	51.40	54.00	55.67	55.44	55.68	53.81	52.33	51.87	51.33	51.14	50.99	
12	51.32	51.50	53.69	55.20	55.05	55.39	53.64	52.34	51.92	51.33	51.14	50.98	
13	51.30	51.73	53.44	54.50	54.65	56.60	53.57	52.31	51.96	51.33	51.14	50.97	
14	51.27	52.50	53.07	54.14	54.16	58.98	53.65	52.27	51.90	51.32	51.11	50.96	
15	51.27	52.60	53.73	53.89	53.78	58.20	53.75	52.27	51.84	51.31	51.10	50.96	
16	51.27	52.19	53.46	53.68	53.57	58.54	53.63	52.27	51.82	51.30	51.10	50.96	
17	51.27	51.85	53.28	53.39	54.96	59.64	53.54	52.26	51.80	51.29	51.10	50.94	
18	51.26	51.88	53.16	53.07	60.19	59.62	53.52	52.24	51.78	51.28	51.10	50.93	
19	51.26	51.83	53.16	52.87	60.89	59.36	53.59	52.24	51.70	51.24	51.10	50.93	
20	51.28	51.81	51.98	52.78	60.91	58.69	53.49	52.26	51.61	51.21	51.10	50.95	
21	51.31	52.49	52.03	52.67	60.66	57.96	53.46	52.24	51.54	51.22	51.08	50.95	
22	51.31	53.19	52.22	52.64	60.47	57.00	53.53	52.12	51.53	51.26	51.07	50.95	
23	51.28	53.97	52.46	52.59	60.55	56.12	53.46	52.07	51.53	51.26	51.07	50.93	
24	51.29	53.87	52.44	52.47	59.28	55.47	53.38	52.08	51.51	51.26	51.06	50.92	
25	51.27	53.59	52.51	52.40	57.78	55.08	53.50	52.09	51.45	51.24	51.05	50.95	
26	51.26	53.92	52.43	52.35	57.82	55.02	53.37	52.18	51.43	51.23	51.04	50.95	
27	51.23	53.65	52.77	52.24	59.24	54.98	53.14	52.14	51.40	51.23	51.04	50.95	
28	51.20	53.20	52.62	52.18	59.69	54.82	53.01	52.05	51.40	51.22	51.04	50.95	
29	51.19	53.25	52.62	52.15	59.11	54.98	52.91	52.02	51.40	51.22		50.95	
30	51.20	53.24	52.57	52.19	58.43	54.43	52.83	52.03	51.40	51.22		50.97	
31		53.32		52.47	58.59		52.77		51.41	51.21		51.00	
Mean	51.42	52.22	53.41	53.27	57.82	57.41	53.74	52.30	51.76	51.30	51.11	50.97	
Max	52.72	53.97	55.38	55.67	60.91	60.75	55.16	52.70	52.15	51.40	51.20	51.03	60.91
Min	51.06	51.13	51.98	52.15	52.48	54.43	52.77	52.02	51.40	51.21	51.04	50.92	50.92

Annual Max Momentary Gage Height 60.93 M (MSL), at 2.00 Hours, on Aug 5, 1994
Zero Gage at Bottom Elevation 51.00 M (MSL), River Bed 50.61 M (MSL)
Left Bank Elevation 60.06 M (MSL)
Right Bank Elevation 60.43 M (MSL), Drainage Area 13583 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.2	8.6	143.8	63.3	67.2	967.3	311.6	82.0	41.6	12.0	8.0	2.8	
2	14.4	9.2	160.6	123.4	113.8	1150.8	298.4	76.4	41.1	12.0	7.4	4.6	
3	83.4	8.4	192.9	140.4	791.8	1148.9	254.2	73.7	41.6	12.0	7.2	4.6	
4	63.3	8.0	201.5	178.7	1154.5	1067.5	244.0	72.4	41.1	12.0	7.2	4.4	
5	37.8	7.4	258.3	156.9	1181.5	824.8	230.0	70.4	38.9	11.8	7.0	4.4	
6	25.4	7.0	285.2	140.4	1091.6	613.4	213.0	67.9	37.8	11.6	7.0	4.4	
7	21.4	6.6	276.4	137.8	913.0	592.4	205.3	65.3	40.5	11.2	6.8	4.4	
8	18.0	6.6	336.7	186.3	710.0	592.4	196.7	62.6	48.3	11.2	6.8	4.2	
9	13.6	7.6	303.9	154.0	542.2	495.4	197.7	60.9	44.9	11.0	6.8	4.0	
10	12.0	9.0	244.0	264.7	434.3	439.5	193.9	59.2	36.7	10.8	6.8	4.0	
11	10.6	12.0	192.0	370.0	343.6	371.2	174.0	58.2	32.8	10.6	6.8	3.8	
12	10.4	16.0	162.5	316.0	299.5	337.8	157.8	58.7	35.6	10.6	6.8	3.6	
13	10.0	25.9	140.4	241.0	256.3	485.0	151.5	57.1	37.8	10.6	6.8	3.4	
14	9.4	68.5	110.6	205.3	207.2	834.7	158.8	54.8	34.5	10.4	6.2	3.2	
15	9.4	75.0	166.4	181.5	171.1	710.0	168.3	54.8	31.2	10.2	6.0	3.2	
16	9.4	50.4	142.1	161.6	151.5	762.7	156.9	54.8	30.1	10.0	6.0	3.2	
17	9.4	31.7	127.4	136.2	289.6	948.0	148.9	54.3	29.0	9.8	6.0	2.8	
18	9.2	33.4	117.8	110.6	1047.1	944.5	147.2	53.2	28.1	9.6	6.0	2.6	
19	9.2	30.7	117.8	94.6	1177.5	899.2	153.2	53.2	24.5	8.8	6.0	2.6	
20	9.6	29.6	38.9	87.6	1181.5	786.8	144.7	54.3	20.5	8.2	6.0	3.0	
21	10.2	67.9	41.6	79.9	1134.1	672.8	142.1	53.2	17.6	8.4	5.6	3.0	
22	10.2	120.2	52.1	77.8	1099.0	537.0	148.0	46.6	17.2	9.2	5.4	3.0	
23	9.6	189.2	65.9	74.4	1113.8	423.4	142.1	43.8	17.2	9.2	5.4	2.6	
24	9.8	179.6	64.6	66.6	885.6	347.1	135.4	44.4	16.4	9.2	5.2	2.4	
25	9.4	153.2	69.1	62.0	645.1	302.8	145.5	44.9	14.0	8.8	5.0	3.0	
26	9.2	184.4	63.9	59.2	651.1	296.2	134.6	49.9	13.2	8.6	4.8	3.0	
27	8.6	158.8	86.9	53.2	878.8	291.8	116.2	47.7	12.0	8.6	4.8	3.0	
28	8.0	121.0	76.4	49.9	956.7	274.2	105.8	42.7	12.0	8.4	4.8	3.0	
29	7.8	125.0	76.4	48.3	856.7	291.8	97.8	41.1	12.0	8.4		3.0	
30	8.0	124.2	73.1	50.4	745.7	234.0	91.4	41.6	12.0	8.4		3.4	
31		130.6		66.6	770.5		86.9		12.4	8.2		4.0	
Total	481.9	2005.7	4389.2	4138.6	21861.9	18643.4	5251.9	1700.1	872.6	309.8	174.6	106.6	59936.3 CMSDAY
Mean	16.1	64.7	146.3	133.5	705.2	621.4	169.4	56.7	28.1	10.0	6.2	3.4	164.2 CMS
Max	83.4	189.2	336.7	370.0	1181.5	1150.8	311.6	82.0	48.3	12.0	8.0	4.6	1181.5 CMS
Min	5.2	6.6	38.9	48.3	67.2	234.0	86.9	41.1	12.0	8.2	4.8	2.4	2.4 CMS
Runoff	41.64	173.29	379.23	357.58	1888.87	1610.79	453.76	146.89	75.39	26.77	15.09	9.21	5178.50 MCM

Momentary Peak 1185.35 CMS, at 60.93 M (MSL), at 2.00 Hours, on Aug 5, 1994

Runoff Yield 12.09 Liters/Second/Square KM, Momentary Peak Yield 87.27 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

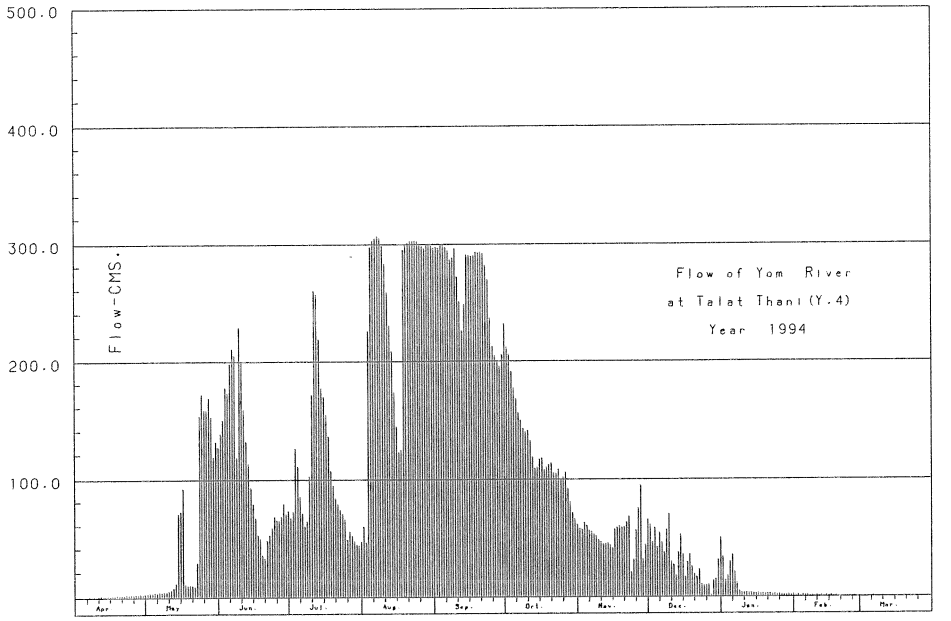
Yom River at Talat Thani, Sukhothai (Y.4)

Location	Lat. 17°00′18″ N., Long. 99°49′31″ E., on left bank near the Saving's Bank, Amphoe Muang, Sukhothai.
Drainage Area	17,731 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+44.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the footpath of the governor's house.
Elevation	+49.142 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1950 to date.
Rating Operation	
Period of Rating	1954-1956, 1967-1970, 1990 to date.
Rated by Float	-
Rated by Current Meter	1950-1960, 1962 to date.
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +49.27 m.(M.S.L.),records are channel flow only.
General Description	Records fair. Flow effected by the concrete weir about 6 kilometers downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.27	46.35	48.34	47.16	47.02	49.89	49.14	46.98	47.60	47.47	46.82	45.47	
2	43.30	46.54	48.48	47.27	46.73	49.88	49.08	46.97	47.53	47.35	46.85	45.44	
3	43.95	46.73	48.81	48.16	49.27	49.91	48.94	47.08	47.59	47.39	46.80	45.36	
4	46.86	46.71	48.75	47.95	49.89	49.90	48.80	47.04	47.51	47.45	46.76	45.32	
5	46.78	46.65	49.00	47.50	49.93	49.89	48.70	46.95	47.57	47.48	46.70	45.25	
6	46.51	46.58	49.13	47.24	49.95	49.86	48.56	46.92	47.53	47.41	46.65	45.19	
7	46.73	46.48	49.07	47.03	49.97	49.80	48.48	46.88	47.49	47.33	46.60	45.14	
8	46.70	46.41	49.26	47.11	49.95	49.81	48.40	46.84	47.58	47.26	46.53	45.06	
9	46.75	46.40	49.31	47.81	49.90	49.88	48.35	46.78	47.64	47.24	46.39	44.97	
10	46.66	46.41	49.03	48.74	49.77	49.68	48.37	46.73	47.45	47.15	46.36	44.90	
11	46.71	46.19	48.59	49.58	49.57	49.50	48.26	46.69	47.44	47.19	46.51	44.82	
12	46.71	46.02	48.25	49.55	49.32	49.28	48.06	46.69	47.39	47.24	46.48	44.78	
13	46.74	45.80	47.98	49.21	49.11	49.48	47.92	46.71	47.49	47.24	46.41	44.88	
14	46.76	46.27	47.64	48.80	48.76	49.83	47.93	46.66	47.56	47.20	46.34	45.13	
15	46.76	47.65	47.38	48.72	48.42	49.83	48.03	46.61	47.48	47.15	46.27	45.22	
16	46.77	47.73	47.17	48.54	48.12	49.82	48.05	46.96	47.38	47.15	46.19	45.23	
17	46.78	47.32	46.88	48.31	48.14	49.83	47.90	47.00	47.45	47.15	46.08	45.16	
18	46.81	46.90	46.81	47.89	49.87	49.85	47.93	47.02	47.48	47.07	46.00	45.09	
19	46.79	46.84	46.46	47.67	49.90	49.85	47.96	47.00	47.43	46.98	45.86	45.04	
20	46.86	46.59	46.37	47.48	49.92	49.85	47.99	47.00	47.40	47.12	45.73	44.99	
21	46.84	46.76	46.78	47.38	49.93	49.84	47.85	47.08	47.38	47.11	45.56	44.97	
22	46.92	47.45	46.87	47.29	49.93	49.76	47.85	47.19	47.42	47.08	45.39	44.94	
23	46.91	48.53	47.01	47.24	49.93	49.66	47.90	47.41	47.32	47.06	45.37	44.89	
24	46.80	48.74	47.19	47.14	49.93	49.38	47.76	47.46	47.31	47.04	45.28	44.84	
25	46.75	48.59	47.14	46.79	49.91	49.15	47.79	47.58	47.31	47.03	45.22	44.84	
26	46.76	48.58	47.12	46.93	49.89	49.07	47.86	47.66	47.32	47.02	45.18	44.92	
27	46.73	48.71	47.20	46.86	49.88	49.02	47.62	47.74	47.22	46.99	45.27	45.01	
28	46.71	48.52	47.39	46.75	49.91	48.98	47.41	47.46	47.35	46.94	45.45	45.19	
29	46.48	48.06	47.24	46.69	49.90	49.08	47.25	47.52	47.36	46.92		45.26	
30	46.22	48.24	47.28	46.66	49.90	49.34	47.14	47.62	47.46	46.85		45.38	
31		48.18		46.74	49.88		47.06		47.55	46.59		45.61	
Mean	46.41	47.19	47.80	47.68	49.44	49.63	48.08	47.07	47.45	47.15	46.11	45.11	
Max	46.92	48.74	49.31	49.58	49.97	49.91	49.14	47.74	47.64	47.48	46.85	45.61	49.97
Min	43.27	45.80	46.37	46.66	46.73	48.98	47.06	46.61	47.22	46.59	45.18	44.78	43.27

Annual Max Momentary Gage Height 49.97 M (MSL), at 12.00 Hours, on Aug 7, 1994
Zero Gage at Bottom Elevation 44.00 M (MSL), River Bed 43.06 M (MSL)
Left Bank Elevation 50.24 M (MSL)
Right Bank Elevation 50.22 M (MSL), Drainage Area 17731 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.2	3.0	139.1	67.0	60.0	297.8	212.3	58.0	61.0	33.7	1.5	0.6	
2	0.3	3.2	150.1	72.8	46.5	296.6	206.2	57.6	46.3	13.7	1.5	0.6	
3	0.4	3.4	178.5	126.1	225.7	300.2	191.8	63.0	58.9	17.9	1.4	0.5	
4	0.4	3.6	173.1	111.4	297.8	299.0	177.5	61.0	42.1	29.5	1.4	0.5	
5	0.5	3.8	198.0	85.5	302.6	297.8	168.8	56.6	54.7	35.8	1.3	0.5	
6	0.6	4.0	211.3	71.2	305.0	294.2	156.7	55.2	46.3	21.1	1.3	0.5	
7	0.7	4.2	205.2	60.5	307.4	287.0	150.1	53.3	37.9	11.7	1.2	0.5	
8	0.8	4.4	118.9	64.5	305.0	288.2	143.5	51.4	56.8	5.1	1.2	0.5	
9	0.8	4.6	229.8	102.6	299.0	296.6	139.9	48.6	70.6	3.4	1.2	0.4	
10	0.9	5.0	201.1	172.3	283.4	272.6	141.3	46.5	29.5	3.3	1.1	0.4	
11	1.0	6.0	159.2	260.6	259.4	251.0	133.3	44.8	27.4	3.2	1.1	0.4	
12	1.1	8.0	132.6	257.0	230.8	226.7	118.9	44.8	17.9	3.1	1.0	0.4	
13	1.2	12.0	113.2	219.5	209.3	248.6	109.5	45.7	37.9	3.0	1.0	0.4	
14	1.2	70.5	93.2	177.5	174.0	290.6	110.1	43.6	52.6	2.9	1.0	0.4	
15	1.3	73.0	78.9	170.5	145.1	290.6	116.7	41.4	35.8	2.8	1.0	0.4	
16	1.4	92.5	67.5	155.1	123.2	289.4	118.1	57.1	16.9	2.7	0.9	0.4	
17	1.5	10.6	53.3	137.0	124.6	290.6	108.3	59.0	29.5	2.6	0.9	0.3	
18	1.6	10.2	50.0	107.6	295.4	293.0	110.1	60.0	35.8	2.5	0.9	0.3	
19	1.6	9.9	36.1	94.8	299.0	293.0	112.0	59.0	25.3	2.4	0.8	0.3	
20	1.7	9.6	33.0	84.4	301.4	293.0	113.9	59.0	19.0	2.3	0.8	0.3	
21	1.8	9.2	48.6	78.9	302.6	291.8	105.1	63.0	16.9	2.2	0.8	0.3	
22	1.9	29.5	52.8	73.9	302.6	282.2	105.1	68.5	23.2	2.2	0.7	0.3	
23	2.0	154.2	59.5	71.2	302.6	270.2	108.3	21.1	10.6	2.1	0.7	0.3	
24	2.0	172.3	68.5	66.0	302.6	236.9	99.8	31.6	9.6	2.0	0.7	0.3	
25	2.1	159.2	66.0	49.1	300.2	213.4	101.5	56.8	9.6	2.0	0.7	0.3	
26	2.2	158.4	65.0	55.7	297.8	205.2	105.8	75.4	10.6	1.9	0.7	0.3	
27	2.3	169.6	69.0	52.4	296.6	200.1	92.1	95.0	1.7	1.8	0.6	0.2	
28	2.4	153.4	79.4	47.4	300.2	195.9	80.5	31.6	13.7	1.8	0.6	0.2	
29	2.4	118.9	71.2	44.8	299.0	206.2	71.7	44.2	14.8	1.7		0.2	
30	2.5	131.9	73.4	43.6	299.0	232.8	66.0	65.8	31.6	1.6		0.2	
31		127.5		47.0	296.6		62.0		50.5	1.6		0.2	
Total	40.8	1725.6	3275.5	3227.9	7894.4	8031.2	3836.9	1618.6	995.0	223.6	28.0	11.4	30908.9 CMSDAY
Mean	1.4	55.7	109.2	104.1	254.7	267.7	123.8	54.0	32.1	7.2	1.0	0.4	84.7 CMS
Max	2.5	172.3	229.8	260.6	307.4	300.2	212.3	95.0	70.6	35.8	1.5	0.6	307.4 CMS
Min	0.2	3.0	33.0	43.6	46.5	195.9	62.0	21.1	1.7	1.6	0.6	0.2	0.2 CMS
Runoff	3.53	149.09	283.00	278.89	682.08	693.90	331.51	139.85	85.97	19.32	2.42	0.98	2670.53 MCM

Momentary Peak 307.40 CMS, at 49.97 M (MSL), at 12.00 Hours, on Aug 7, 1994

Runoff Yield 4.78 Liters/Second/Square KM, Momentary Peak Yield 17.34 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

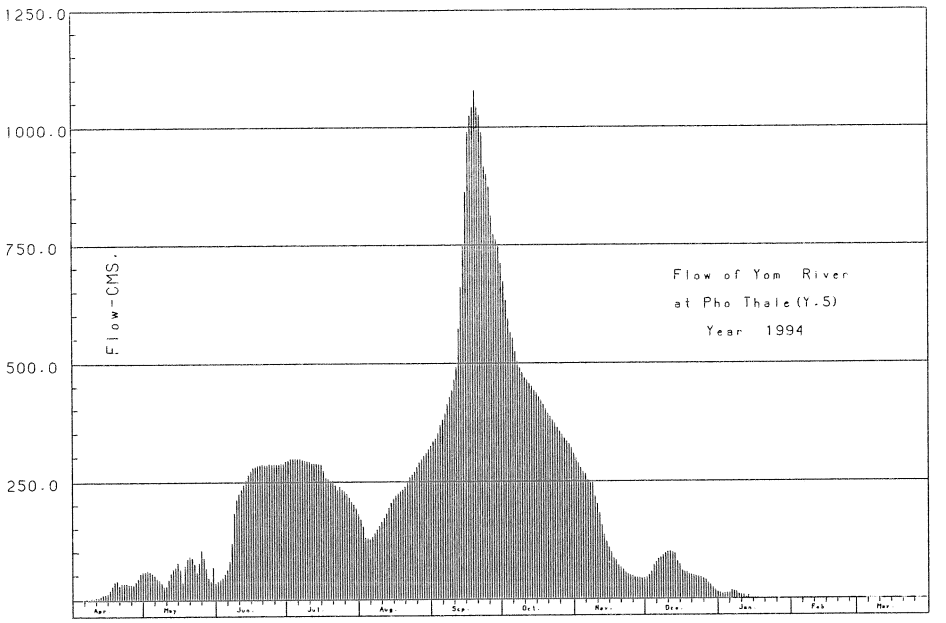
Yom River at Pho Thale, Phichit (Y.5)

Location	Lat. 16°-05'-35" N., Long. 100°-15'-48" E., on left bank in front of Amphoe Pho Thale Office, Amphoe Pho Thale, Phichit.
Drainage Area	22,344 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+22.05 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 30 meters from Amphoe Pho Thale Office.
Elevation	+30.662 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1951 - 1956, 1967 - 1969, 1973 to date.
Rating Operation	
Period of Rating	1967, 1991 to date.
Rated by Float	-
Rated by Current Meter	1967 - 1969, 1991 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +28.64 m.(M.S.L.) and is included.
General Description	Records good. Flow effected by the rubber weir about 7 kilometers downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.02	26.28	26.13	28.17	26.43	28.66	30.42	28.22	26.15	25.90	25.90	24.83	
2	23.00	26.29	26.15	28.20	26.22	28.72	30.38	28.08	26.22	25.83	25.83	24.78	
3	22.98	26.28	26.19	28.21	25.85	28.88	30.32	27.96	26.26	25.83	25.77	24.73	
4	22.94	26.25	26.24	28.21	25.84	29.08	30.28	27.85	26.36	25.85	25.73	24.68	
5	22.91	26.23	26.31	28.21	25.81	29.23	30.26	27.78	26.38	25.85	25.69	24.65	
6	22.88	26.18	26.42	28.20	25.87	29.37	30.22	27.61	26.53	25.90	25.67	24.61	
7	22.84	26.14	26.62	28.18	26.01	29.55	30.16	27.53	26.46	25.89	25.65	24.55	
8	22.83	26.10	26.85	28.15	26.12	29.70	30.10	27.56	26.35	25.87	25.62	24.51	
9	23.28	26.02	27.04	28.15	26.24	29.81	30.05	27.12	26.50	25.82	25.57	24.48	
10	24.05	26.03	27.21	28.12	26.35	29.97	30.00	26.88	26.48	25.79	25.52	24.44	
11	24.75	26.16	27.35	28.09	26.48	30.10	29.96	26.60	26.68	25.79	25.46	24.35	
12	24.92	26.26	27.48	28.07	26.61	30.29	29.92	26.26	26.49	25.75	25.45	24.29	
13	25.11	26.31	27.63	28.08	26.78	30.41	29.87	25.93	26.49	25.78	25.42	24.25	
14	25.60	26.34	27.78	28.06	26.94	30.48	29.82	25.72	26.48	25.74	25.39	24.21	
15	25.85	26.40	27.89	28.06	27.06	30.57	29.77	25.52	26.36	25.72	25.37	24.17	
16	25.94	26.31	27.96	27.89	27.14	30.65	29.70	25.33	26.28	25.66	25.34	24.12	
17	26.04	26.10	28.00	27.69	27.22	30.67	29.63	25.14	26.26	25.65	25.31	24.07	
18	26.11	26.36	28.02	27.65	27.27	30.68	29.55	25.60	26.25	25.77	25.28	24.03	
19	26.14	26.45	28.05	27.60	27.33	30.70	29.46	26.71	26.22	25.84	25.23	24.00	
20	26.05	26.47	28.05	27.60	27.41	30.68	29.37	26.55	26.27	25.86	25.19	23.96	
21	26.08	26.46	28.05	27.47	27.56	30.67	29.29	26.07	25.98	25.86	25.13	23.91	
22	26.09	26.39	28.05	27.33	27.69	30.65	29.22	25.93	26.12	25.87	25.09	23.89	
23	26.08	26.27	28.06	27.41	27.77	30.61	29.13	26.21	26.27	25.90	25.06	23.85	
24	26.07	26.40	28.06	27.33	27.86	30.60	29.03	26.12	26.32	25.95	25.05	23.82	
25	26.06	26.54	28.05	27.27	27.98	30.58	28.93	25.87	26.14	25.96	25.03	23.79	
26	26.06	26.46	28.05	27.20	28.10	30.53	28.83	25.96	26.11	25.99	24.98	23.80	
27	26.11	26.33	28.06	27.10	28.19	30.50	28.74	26.09	26.03	26.00	24.93	23.79	
28	26.18	26.18	28.07	26.97	28.27	30.49	28.65	25.77	25.99	25.99	24.88	23.78	
29	26.25	26.13	28.08	26.87	28.35	30.48	28.59	25.75	26.04	25.98		23.78	
30	26.27	26.34	28.13	26.77	28.44	30.45	28.48	26.09	26.05	25.95		23.77	
31		26.08		26.59	28.53		28.34		26.04	25.91		23.76	
Mean	24.95	26.28	27.47	27.71	27.09	30.13	29.56	26.53	26.28	25.85	25.38	24.18	
Max	26.27	26.54	28.13	28.21	28.53	30.70	30.42	28.22	26.68	26.00	25.90	24.83	30.70
Min	22.83	26.02	26.13	26.59	25.81	28.66	28.34	25.14	25.98	25.65	24.88	23.76	22.83

Annual Max Momentary Gage Height 30.71 M (MSL), at 7.00 Hours, on Sep 19, 1994
Zero Gage at Bottom Elevation 22.05 M (MSL), River Bed 20.68 M (MSL)
Left Bank Elevation 30.20 M (MSL)
Right Bank Elevation 28.64 M (MSL), Drainage Area 22344 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.2	60.0	39.9	296.6	170.2	335.8	673.2	300.6	45.0	12.0	1.0	0.4	
2	0.2	61.5	42.2	299.0	155.4	340.6	634.5	289.4	51.0	10.6	0.9	0.4	
3	0.4	60.0	46.8	299.8	131.2	353.4	594.0	279.8	57.0	10.6	0.9	0.4	
4	0.6	55.5	54.0	299.8	130.6	369.4	567.0	271.0	72.0	12.3	0.9	0.4	
5	1.0	52.5	64.5	299.8	128.6	381.8	553.5	265.6	78.0	12.3	0.9	0.4	
6	2.0	45.7	81.8	299.0	132.6	395.2	526.5	253.6	84.0	16.5	0.8	0.4	
7	3.0	41.1	121.2	297.4	141.6	413.7	504.6	247.9	88.0	15.6	0.8	0.4	
8	3.5	36.5	184.0	295.0	148.8	430.0	492.0	250.1	92.0	14.0	0.8	0.4	
9	4.0	27.3	213.3	295.0	156.8	442.5	481.5	219.0	97.0	9.7	0.8	0.3	
10	5.0	28.5	225.3	292.6	164.6	466.5	471.0	202.0	99.0	7.2	0.7	0.3	
11	6.0	43.4	235.2	290.2	173.8	492.0	465.0	182.3	100.0	7.2	0.7	0.3	
12	8.0	57.0	244.4	288.6	183.0	573.8	459.0	158.2	99.0	4.0	0.7	0.3	
13	10.0	64.5	255.0	289.4	195.0	660.6	451.5	136.4	95.0	6.4	0.7	0.3	
14	11.9	69.0	265.6	287.8	206.3	748.8	444.0	122.8	80.0	3.2	0.7	0.3	
15	12.3	78.0	274.2	287.8	214.7	862.2	437.7	110.2	72.0	1.6	0.6	0.3	
16	19.9	64.5	279.8	274.2	220.4	990.0	430.0	98.8	60.0	1.5	0.6	0.3	
17	29.6	36.5	283.0	259.2	226.0	1026.0	422.3	87.4	57.0	1.5	0.6	0.3	
18	37.7	72.0	284.6	256.4	229.6	1044.0	413.7	82.0	55.5	1.5	0.6	0.3	
19	41.1	87.5	287.0	252.9	233.8	1080.0	404.3	72.0	52.0	1.4	0.6	0.3	
20	30.7	91.3	287.0	252.9	239.5	1044.0	395.2	66.0	50.0	1.4	0.6	0.2	
21	34.2	89.4	287.0	243.7	250.1	1026.0	387.6	62.0	49.0	1.3	0.5	0.2	
22	35.3	76.5	287.0	233.8	259.2	990.0	380.9	56.0	48.0	1.3	0.5	0.2	
23	34.2	58.5	287.8	239.5	264.9	918.0	373.4	52.0	47.0	1.3	0.5	0.2	
24	33.0	78.0	287.8	233.8	271.8	900.0	365.4	50.0	45.0	1.2	0.5	0.2	
25	31.9	104.6	287.0	229.6	281.4	874.8	357.4	48.0	43.0	1.2	0.5	0.2	
26	31.9	89.4	287.0	224.6	291.0	811.8	349.4	46.0	40.0	1.2	0.5	0.2	
27	37.7	67.5	287.8	217.6	298.2	774.0	342.2	45.0	34.0	1.1	0.5	0.2	
28	45.7	45.7	288.6	208.4	304.6	761.4	335.0	44.0	29.0	1.1	0.4	0.2	
29	55.5	39.9	289.4	201.3	311.0	748.8	330.2	43.0	24.0	1.1		0.2	
30	58.5	69.0	293.4	194.3	318.2	711.0	321.4	43.0	18.0	1.0		0.2	
31		34.2		181.5	325.4		310.2		15.0	1.0		0.2	
Total	625.0	1885.0	6651.6	8121.5	6758.3	20966.1	13673.6	4184.1	1875.5	163.3	18.8	8.9	64931.7 CMSDAY
Mean	20.8	60.8	221.7	262.0	218.0	698.9	441.1	139.5	60.5	5.3	0.7	0.3	177.9 CMS
Max	58.5	104.6	293.4	299.8	325.4	1080.0	673.2	300.6	100.0	16.5	1.0	0.4	1080.0 CMS
Min	0.2	27.3	39.9	181.5	128.6	335.8	310.2	43.0	15.0	1.0	0.4	0.2	0.2 CMS
Runoff	54.00	162.86	574.70	701.70	583.92	1811.47	1181.40	361.51	162.04	14.11	1.62	0.77	5610.10 MCM

Momentary Peak 1098.00 CMS, at 30.71 M (MSL), at 7.00 Hours, on Sep 19, 1994

Runoff Yield 7.96 Liters/Second/Square KM, Momentary Peak Yield 49.14 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

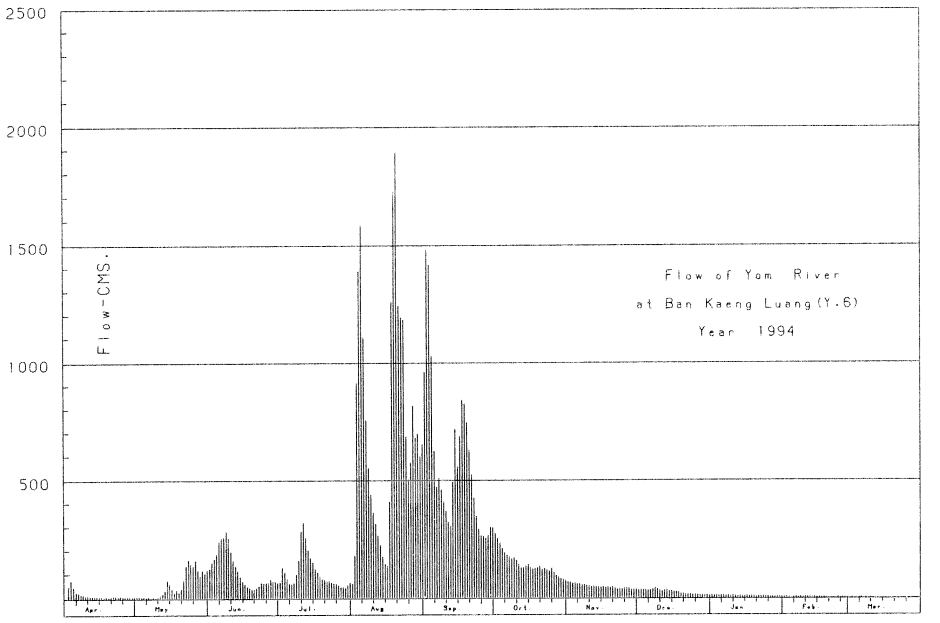
Yom River at Ban Kaeng Luang, Sukhothai (Y.6)

Location	Lat. 17°-26'-03" N., Long. 99°-47'-32" E., on left bank about 150 meters upstream from Kaeng Luang, Amphoe Si Satchanalai, Sukhothai.
Drainage Area	12,658 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+59.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+68.928 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1952 to date.
Rating Operation	
Period of Rating	1952 to date.
Rated by Float	-
Rated by Current Meter	1952 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 72 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	59.23	59.60	61.51	60.87	60.79	65.37	62.56	60.90	60.40	59.80	59.54	59.34	
2	60.62	59.53	61.71	61.53	61.96	66.70	62.45	60.85	60.40	59.80	59.53	59.34	
3	60.95	59.47	61.85	61.36	65.23	66.56	62.31	60.82	60.41	59.80	59.52	59.33	
4	60.58	59.44	61.98	61.02	66.50	65.56	62.17	60.80	60.39	59.80	59.51	59.33	
5	60.24	59.41	62.36	60.78	66.95	64.23	62.04	60.78	60.36	59.77	59.50	59.33	
6	60.09	59.37	62.43	60.73	65.79	63.56	61.97	60.75	60.35	59.75	59.50	59.32	
7	59.98	59.34	62.47	60.82	64.73	63.74	61.91	60.72	60.43	59.74	59.48	59.32	
8	59.85	59.33	62.62	61.28	63.93	63.52	61.85	60.70	60.51	59.74	59.48	59.31	
9	59.78	59.42	62.43	61.79	63.40	63.26	61.87	60.67	60.44	59.74	59.47	59.30	
10	59.72	59.44	62.06	62.61	63.03	63.07	61.81	60.65	60.31	59.74	59.46	59.29	
11	59.66	59.73	61.77	62.82	62.79	62.82	61.66	60.63	60.29	59.72	59.46	59.29	
12	59.64	60.02	61.61	62.45	62.50	62.74	61.54	60.63	60.35	59.69	59.44	59.26	
13	59.61	60.33	61.41	62.12	62.26	63.66	61.53	60.62	60.37	59.69	59.44	59.25	
14	59.60	60.97	61.15	61.87	61.90	64.59	61.61	60.60	60.30	59.69	59.43	59.25	
15	59.56	60.74	60.90	61.74	61.68	63.94	61.66	60.59	60.25	59.69	59.43	59.24	
16	59.51	60.42	60.72	61.48	61.60	64.47	61.54	60.58	60.23	59.68	59.42	59.23	
17	59.50	60.19	60.60	61.37	63.27	65.01	61.50	60.57	60.23	59.66	59.41	59.23	
18	59.47	60.36	60.50	61.17	66.17	64.95	61.51	60.57	60.17	59.65	59.41	59.23	
19	59.46	60.21	60.42	61.05	67.26	64.69	61.55	60.56	60.04	59.64	59.40	59.22	
20	59.46	60.42	60.39	61.00	67.61	64.24	61.58	60.58	59.99	59.62	59.40	59.22	
21	59.68	60.97	60.48	60.94	66.14	63.81	61.46	60.54	59.97	59.62	59.39	59.23	
22	59.61	61.62	60.65	60.92	66.01	63.35	61.52	60.44	59.91	59.61	59.38	59.21	
23	59.61	61.82	60.83	60.86	65.99	62.95	61.44	60.44	59.90	59.60	59.36	59.21	
24	59.61	61.66	60.77	60.77	64.46	62.67	61.42	60.45	59.89	59.60	59.41	59.20	
25	59.55	61.60	60.83	60.75	63.72	62.51	61.51	60.49	59.86	59.59	59.41	59.20	
26	59.51	61.80	60.82	60.69	64.02	62.48	61.36	60.55	59.83	59.58	59.35	59.23	
27	59.46	61.44	61.02	60.60	64.93	62.45	61.22	60.47	59.81	59.55	59.35	59.21	
28	59.45	61.17	60.88	60.57	64.45	62.50	61.12	60.41	59.81	59.55	59.34	59.22	
29	59.45	61.41	60.90	60.54	64.51	62.71	61.05	60.39	59.81	59.55		59.25	
30	59.47	61.30	60.79	60.69	64.13	62.69	61.00	60.42	59.80	59.58		59.29	
31		61.43		60.83	64.34		60.96		59.80	59.56		59.33	
Mean	59.73	60.45	61.30	61.23	64.26	63.83	61.63	60.61	60.15	59.67	59.44	59.26	
Max	60.95	61.82	62.62	62.82	67.61	66.70	62.56	60.90	60.51	59.80	59.54	59.34	67.61
Min	59.23	59.33	60.39	60.54	60.79	62.45	60.96	60.39	59.80	59.55	59.34	59.20	59.20

Annual Max Momentary Gage Height 67.68 M (MSL), at 11.00 Hours, on Aug 20, 1994
Zero Gage at Bottom Elevation 59.00 M (MSL), River Bed 57.63 M (MSL)
Left Bank Elevation 68.42 M (MSL)
Right Bank Elevation 68.90 M (MSL), Drainage Area 12658 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.4	9.0	127.5	70.2	64.3	963.7	277.2	72.5	38.0	14.0	8.1	5.1	
2	51.5	7.9	151.3	129.6	184.6	1478.5	258.5	68.7	38.0	14.0	7.9	5.1	
3	76.3	7.1	169.7	112.2	915.4	1419.2	236.1	66.5	38.6	14.0	7.8	5.0	
4	48.8	6.6	187.3	81.7	1394.0	1029.2	214.6	65.0	37.4	14.0	7.6	5.0	
5	29.2	6.2	243.8	63.5	1587.7	627.5	195.8	63.5	35.8	13.3	7.5	5.0	
6	23.1	5.5	255.1	59.8	1111.4	473.6	186.0	61.3	35.2	12.8	7.5	4.8	
7	19.4	5.1	261.9	66.5	760.4	512.8	177.9	59.0	39.8	12.5	7.2	4.8	
8	15.5	5.0	287.7	104.6	555.9	465.2	169.7	57.5	44.6	12.5	7.2	4.7	
9	13.5	6.3	255.1	161.7	440.0	410.6	172.4	55.2	40.4	12.5	7.1	4.5	
10	12.0	6.6	198.7	285.9	364.8	372.6	164.4	53.8	33.1	12.5	6.9	4.4	
11	10.5	12.3	159.1	324.8	319.2	324.8	144.8	52.3	31.9	12.0	6.9	4.4	
12	10.0	20.7	138.3	258.5	267.0	309.9	130.7	52.3	35.2	11.2	6.6	3.9	
13	9.3	34.2	117.0	207.4	228.3	495.2	129.6	51.5	36.3	11.2	6.6	3.7	
14	9.0	77.8	92.8	172.4	176.5	721.3	138.3	50.0	32.5	11.2	6.5	3.7	
15	8.4	60.5	72.5	155.2	147.4	558.2	144.8	49.4	29.7	11.2	6.5	3.6	
16	7.6	39.2	59.0	124.4	137.0	688.9	130.7	48.8	28.6	11.0	6.3	3.4	
17	7.5	26.6	50.0	113.1	412.7	845.2	126.5	48.2	28.6	10.5	6.2	3.4	
18	7.1	35.8	44.0	94.4	1259.0	826.5	127.5	48.2	25.9	10.3	6.2	3.4	
19	6.9	27.5	39.2	84.2	1731.5	749.2	131.8	47.6	21.4	10.0	6.0	3.3	
20	6.9	39.2	37.4	80.0	1897.8	630.0	134.9	48.8	19.7	9.5	6.0	3.3	
21	11.0	77.8	42.8	75.5	1247.0	528.3	122.3	46.4	19.1	9.5	5.8	3.4	
22	9.3	139.6	53.8	74.0	1195.0	429.5	128.6	40.4	17.3	9.3	5.7	3.1	
23	9.3	165.7	67.3	69.5	1187.2	349.5	120.2	40.4	17.0	9.0	5.4	3.1	
24	9.3	144.8	62.8	62.8	686.2	296.9	118.1	41.0	16.7	9.0	6.2	3.0	
25	8.3	137.0	67.3	61.3	508.4	268.7	127.5	43.4	15.8	8.9	6.2	3.0	
26	7.6	163.0	66.5	56.7	576.8	263.6	112.2	47.0	14.9	8.7	5.2	3.4	
27	6.9	120.2	81.7	50.0	820.3	258.5	98.9	42.2	14.3	8.3	5.2	3.1	
28	6.8	94.4	71.0	48.2	683.5	267.0	90.2	38.6	14.3	8.3	5.1	3.3	
29	6.8	117.0	72.5	46.4	699.7	304.4	84.2	37.4	14.3	8.3		3.7	
30	7.1	106.5	64.3	56.7	603.2	300.6	80.0	39.2	14.0	8.7		4.4	
31		119.1		67.3	655.0		77.0		14.0	8.4		5.0	
Total	458.3	1824.2	3597.4	3418.5	22817.2	17169.1	4551.4	1536.1	842.4	336.6	183.4	123.0	56857.6 CMSDAY
Mean	15.3	58.8	119.9	110.3	736.0	572.3	146.8	51.2	27.2	10.9	6.5	4.0	155.8 CMS
Max	76.3	165.7	287.7	324.8	1897.8	1478.5	277.2	72.5	44.6	14.0	8.1	5.1	1897.8 CMS
Min	3.4	5.0	37.4	46.4	64.3	258.5	77.0	37.4	14.0	8.3	5.1	3.0	3.0 CMS
Runoff	39.60	157.61	310.82	295.36	1971.41	1483.41	393.24	132.72	72.78	29.08	15.85	10.63	4912.50 MCM

Momentary Peak 1931.00 CMS, at 67.68 M (MSL), at 11.00 Hours, on Aug 20, 1994
Runoff Yield 12.31 Liters/Second/Square KM, Momentary Peak Yield 152.55 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

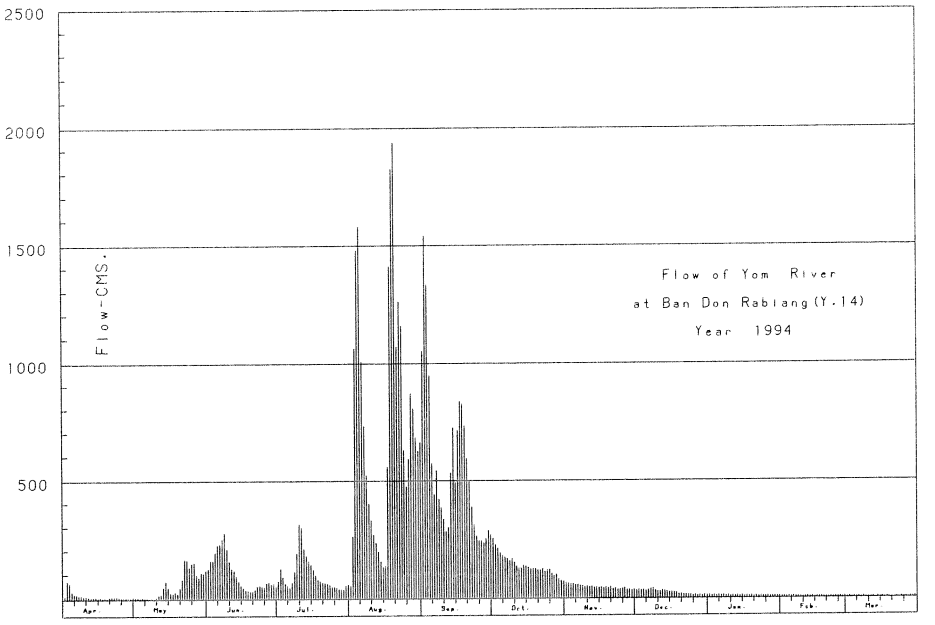
Yom River at Ban Don Rabiang, Sukhothai (Y.14)

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	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +75.16 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 50 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.89	65.80	67.77	67.05	66.80	72.66	68.95	66.98	66.46	65.98	65.83	65.74	
2	67.10	65.74	68.12	67.78	69.04	74.09	68.75	66.92	66.48	65.97	65.81	65.73	
3	66.93	65.71	68.13	67.31	72.70	73.51	68.60	66.91	66.49	65.97	65.81	65.73	
4	66.40	65.69	68.44	66.95	73.92	72.32	68.44	66.88	66.46	65.96	65.81	65.74	
5	66.22	65.65	68.75	66.79	74.19	70.83	68.32	66.86	66.43	65.95	65.81	65.73	
6	66.11	65.63	68.75	66.66	72.52	70.16	68.27	66.83	66.45	65.95	65.81	65.72	
7	66.05	65.63	68.94	66.99	71.53	70.70	68.20	66.80	66.57	65.95	65.81	65.72	
8	65.97	65.65	69.13	67.62	70.59	70.06	68.12	66.75	66.57	65.93	65.80	65.72	
9	65.94	65.66	68.59	68.42	69.94	69.83	68.19	66.72	66.45	65.94	65.79	65.72	
10	65.88	65.73	68.11	69.40	69.49	69.52	68.06	66.72	66.34	65.93	65.79	65.70	
11	65.86	66.02	67.75	69.29	69.07	69.19	67.88	66.71	66.38	65.91	65.79	65.70	
12	65.83	66.18	67.68	68.61	68.82	69.29	67.76	66.70	66.43	65.91	65.78	65.70	
13	65.80	66.71	67.37	68.33	68.47	70.65	67.78	66.67	66.42	65.91	65.78	65.69	
14	65.78	67.08	67.07	68.09	68.10	71.50	67.89	66.65	66.34	65.91	65.78	65.69	
15	65.75	66.66	66.80	67.94	67.85	70.43	67.87	66.66	66.32	65.91	65.77	65.68	
16	65.76	66.31	66.66	67.73	67.87	71.44	67.80	66.65	66.29	65.89	65.77	65.69	
17	65.74	66.23	66.51	67.41	70.76	71.94	67.74	66.64	66.31	65.89	65.77	65.68	
18	65.70	66.33	66.43	67.17	73.74	71.88	67.73	66.65	66.24	65.89	65.77	65.68	
19	65.71	66.24	66.42	67.06	74.85	71.53	67.77	66.64	66.12	65.88	65.76	65.68	
20	65.85	66.67	66.38	67.02	75.11	70.92	67.67	66.68	66.10	65.87	65.76	65.68	
21	65.84	67.18	66.56	66.94	72.72	70.48	67.68	66.58	66.07	65.87	65.76	65.68	
22	65.83	68.21	66.74	66.94	73.31	69.86	67.73	66.58	66.06	65.86	65.75	65.67	
23	65.85	68.14	66.82	66.83	73.01	69.37	67.61	66.51	66.05	65.86	65.75	65.67	
24	65.82	67.84	66.72	66.74	71.08	69.04	67.67	66.50	66.02	65.86	65.77	65.67	
25	65.77	67.99	66.73	66.73	70.35	68.89	67.73	66.60	66.00	65.86	65.76	65.67	
26	65.73	68.05	66.97	66.63	70.92	68.87	67.50	66.60	65.99	65.85	65.75	65.67	
27	65.70	67.46	66.99	66.56	72.05	68.82	67.33	66.51	65.98	65.85	65.75	65.67	
28	65.70	67.27	66.88	66.53	71.82	68.94	67.45	66.47	65.98	65.83	65.74	65.68	
29	65.70	67.57	66.91	66.52	71.32	69.21	67.16	66.47	65.98	65.83		65.72	
30	65.80	67.50	66.73	66.78	71.08	69.06	67.09	66.48	65.98	65.85		65.74	
31		67.66		66.86	71.23		67.04		65.97	65.83		65.77	
Mean	65.93	66.65	67.40	67.34	71.10	70.50	67.86	66.68	66.25	65.90	65.78	65.70	
Max	67.10	68.21	69.13	69.40	75.11	74.09	68.95	66.98	66.57	65.98	65.83	65.77	75.11
Min	65.70	65.63	66.38	66.52	66.80	68.82	67.04	66.47	65.97	65.83	65.74	65.67	65.63

Annual Max Momentary Gage Height 75.20 M (MSL), at 6.00 Hours, on Aug 20, 1994
Zero Gage at Bottom Elevation 65.10 M (MSL), River Bed 63.05 M (MSL)
Left Bank Elevation 78.19 M (MSL)
Right Bank Elevation 75.15 M (MSL), Drainage Area 12131 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.7	9.0	129.6	74.5	57.0	1050.9	255.7	69.6	36.6	14.4	9.9	7.5	
2	78.0	7.5	162.4	130.4	267.6	1543.3	231.2	65.4	37.8	14.1	9.3	7.3	
3	66.1	6.7	163.3	93.2	1063.5	1333.5	214.0	64.7	38.4	14.1	9.3	7.3	
4	33.0	6.3	196.4	67.5	1480.8	949.4	196.4	62.6	36.6	13.8	9.3	7.5	
5	24.0	5.3	231.2	56.4	1580.3	574.6	183.2	61.2	34.8	13.5	9.3	7.3	
6	19.4	4.7	231.2	48.6	1008.4	443.0	177.7	59.1	36.0	13.5	9.3	7.0	
7	17.0	4.7	254.5	70.3	736.1	547.0	170.0	57.0	43.2	13.5	9.3	7.0	
8	14.1	5.3	280.2	117.6	524.1	425.5	162.4	54.0	43.2	12.9	9.0	7.0	
9	13.2	5.5	212.9	194.2	405.1	386.9	169.1	52.2	36.0	13.2	8.7	7.0	
10	11.4	7.3	161.5	318.0	332.4	337.2	156.7	52.2	30.0	12.9	8.7	6.5	
11	10.8	15.8	128.0	302.6	271.8	288.6	139.6	51.6	32.0	12.3	8.7	6.5	
12	9.9	22.2	122.4	215.2	239.5	302.6	128.8	51.0	34.8	12.3	8.5	6.5	
13	9.0	51.6	97.8	184.3	199.7	536.5	130.4	49.2	34.2	12.3	8.5	6.3	
14	8.5	76.6	75.9	159.5	160.5	728.5	140.5	48.0	30.0	12.3	8.5	6.3	
15	7.7	48.6	57.0	145.3	136.7	493.7	138.7	48.6	29.0	12.3	8.2	6.0	
16	8.0	28.5	48.6	126.4	138.7	713.2	132.0	48.0	27.5	11.7	8.2	6.3	
17	7.5	24.5	39.6	100.8	559.6	841.4	127.2	47.4	28.5	11.7	8.2	6.0	
18	6.5	29.5	34.8	82.9	1415.4	825.8	126.4	48.0	25.0	11.7	8.2	6.0	
19	6.7	25.0	34.2	75.2	1827.0	736.1	129.6	47.4	19.8	11.4	8.0	6.0	
20	10.5	49.2	32.0	72.4	1936.2	594.4	121.6	49.8	19.0	11.1	8.0	6.0	
21	10.2	83.6	42.6	66.8	1069.8	503.2	122.4	43.8	17.8	11.1	8.0	6.0	
22	9.9	171.1	53.4	66.8	1263.5	391.9	126.4	43.8	17.4	10.8	7.7	5.7	
23	10.5	164.3	58.4	59.1	1161.4	313.8	116.8	39.6	17.0	10.8	7.7	5.7	
24	9.6	135.8	52.2	53.4	629.6	267.6	121.6	39.0	15.8	10.8	8.2	5.7	
25	8.2	150.0	52.8	52.8	478.5	248.2	126.4	45.0	15.0	10.8	8.0	5.7	
26	7.3	155.8	68.9	46.8	594.4	245.8	108.0	45.0	14.7	10.5	7.7	5.7	
27	6.5	104.8	70.3	42.6	871.3	239.5	94.8	39.6	14.4	10.5	7.7	5.7	
28	6.5	90.2	62.6	40.8	810.2	254.5	104.0	37.2	14.4	9.9	7.5	6.0	
29	6.5	113.6	64.7	40.2	684.2	291.4	82.2	37.2	14.4	9.9		7.0	
30	9.0	108.0	52.8	55.8	629.6	270.4	77.3	37.8	14.4	10.5		7.5	
31		120.8		61.2	663.1		73.8		14.1	9.9		8.2	
Total	457.2	1831.8	3272.2	3221.6	23196.0	16678.4	4384.9	1495.0	821.8	370.5	237.6	202.2	56169.2 CMSDAY
Mean	15.2	59.1	109.1	103.9	748.3	555.9	141.4	49.8	26.5	12.0	8.5	6.5	153.9 CMS
Max	78.0	171.1	280.2	318.0	1936.2	1543.3	255.7	69.6	43.2	14.4	9.9	8.2	1936.2 CMS
Min	6.5	4.7	32.0	40.2	57.0	239.5	73.8	37.2	14.1	9.9	7.5	5.7	4.7 CMS
Runoff	39.50	158.27	282.72	278.35	2004.13	1441.01	378.86	129.17	71.00	32.01	20.53	17.47	4853.02 MCM

Momentary Peak 1974.00 CMS, at 75.20 M (MSL), at 6.00 Hours, on Aug 20, 1994
Runoff Yield 12.69 Liters/Second/Square KM, Momentary Peak Yield 162.72 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

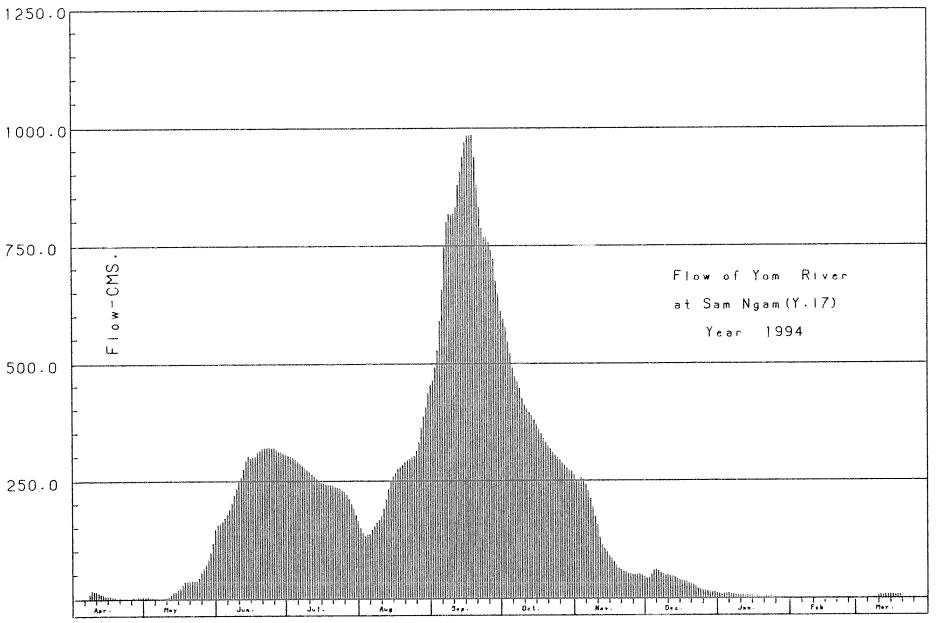
Yom River at Sam Ngam, Phichit (Y.17)

Location	Lat. 16-30-50 N., Long. 100-12-40 E., on left bank at the bridge on highway, infront of Amphoe Sam Ngam Office, Amphoe Sam Ngam, Phichit.
Drainage Area	21,415 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+31.49 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 50 meters from Amphoe Sam Ngam Office.
Elevation	+37.838 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1967, 1990 to date.
Rated by Float	-
Rated by Current Meter	1967-1980, 1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.59	31.99	34.83	36.53	34.74	37.36	37.59	35.98	33.02	32.17	31.76	31.53	
2	31.52	32.01	34.85	36.51	34.59	37.42	37.56	35.93	33.00	32.13	31.77	31.55	
3	31.55	31.93	34.93	36.49	34.51	37.48	37.51	36.04	33.18	32.16	31.78	31.56	
4	31.52	31.85	35.01	36.45	34.54	37.58	37.47	35.98	33.33	32.21	31.78	31.57	
5	31.47	31.81	35.13	36.41	34.56	37.66	37.42	35.87	33.39	32.21	31.77	31.68	
6	31.47	31.79	35.26	36.36	34.68	37.76	37.38	35.70	33.31	32.16	31.75	31.89	
7	32.21	31.79	35.42	36.31	34.78	37.81	37.35	35.53	33.24	32.14	31.72	31.92	
8	32.42	31.82	35.60	36.26	34.88	37.82	37.31	35.30	33.19	32.11	31.69	31.89	
9	32.36	31.87	35.78	36.22	34.97	37.82	37.25	35.06	33.14	32.09	31.71	31.96	
10	32.33	31.88	35.93	36.16	35.07	37.82	37.21	34.82	33.14	32.09	31.73	32.06	
11	32.29	32.03	36.05	36.12	35.27	37.83	37.17	34.47	33.11	32.09	31.73	32.09	
12	32.20	32.15	36.23	36.06	35.51	37.86	37.13	34.22	33.08	32.07	31.74	32.09	
13	32.12	32.28	36.44	36.01	35.75	37.88	37.09	34.10	33.07	32.06	31.74	32.11	
14	32.07	32.35	36.52	35.95	35.94	37.90	37.04	33.98	32.98	32.06	31.73	32.11	
15	32.04	32.44	36.49	35.91	36.07	37.92	36.99	33.87	32.94	32.05	31.71	32.11	
16	32.03	32.55	36.49	35.89	36.13	37.93	36.93	33.77	32.91	32.03	31.68	32.10	
17	32.01	32.74	36.52	35.87	36.23	37.93	36.88	33.67	32.89	31.98	31.67	32.10	
18	31.96	32.86	36.59	35.85	36.27	37.93	36.82	33.53	32.86	31.98	31.68	32.10	
19	31.89	32.89	36.63	35.85	36.33	37.90	36.77	33.44	32.82	31.98	31.71	32.12	
20	31.85	32.89	36.66	35.84	36.39	37.86	36.71	33.38	32.76	31.99	31.73	31.88	
21	31.82	32.91	36.68	35.82	36.43	37.83	36.66	33.32	32.74	32.01	31.72	31.67	
22	31.81	32.91	36.68	35.80	36.46	37.80	36.59	33.27	32.62	32.03	31.72	31.72	
23	31.81	32.91	36.68	35.77	36.49	37.78	36.54	33.23	32.52	32.03	31.71	31.68	
24	31.83	33.05	36.67	35.72	36.53	37.78	36.49	33.20	32.44	32.02	31.67	31.65	
25	31.86	33.27	36.67	35.68	36.62	37.77	36.45	33.17	32.39	31.99	31.64	31.69	
26	31.91	33.43	36.64	35.61	36.77	37.75	36.37	33.16	32.37	31.94	31.61	31.80	
27	31.94	33.57	36.61	35.52	36.95	37.73	36.32	33.16	32.36	31.91	31.56	31.72	
28	31.97	33.75	36.60	35.40	37.08	37.68	36.26	33.16	32.31	31.89	31.52	31.55	
29	31.96	33.97	36.58	35.27	37.19	37.65	36.19	33.14	32.29	31.86		31.79	
30	31.94	34.30	36.54	35.11	37.28	37.61	36.18	33.07	32.27	31.83		31.86	
31		34.69		34.93	37.33		36.09		32.23	31.79		31.88	
Mean	31.93	32.67	36.12	35.93	35.88	37.76	36.89	34.22	32.84	32.03	31.70	31.85	
Max	32.42	34.69	36.68	36.53	37.33	37.93	37.59	36.04	33.39	32.21	31.78	32.12	37.93
Min	31.47	31.79	34.83	34.93	34.51	37.36	36.09	33.07	32.23	31.79	31.52	31.53	31.47

Annual Max Momentary Gage Height 37.93 M (MSL), at 15.00 Hours, on Sep 15, 1994
Zero Gage at Bottom Elevation 31.49 M (MSL), River Bed 30.69 M (MSL)
Left Bank Elevation 39.28 M (MSL)
Right Bank Elevation 38.58 M (MSL), Drainage Area 21415 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.0	4.8	158.3	304.6	151.5	465.0	595.9	253.2	44.0	10.5	1.6	0.7	
2	0.7	5.3	159.7	302.5	140.2	491.3	577.4	248.7	43.0	9.2	1.7	0.8	
3	0.8	4.0	165.7	300.5	134.2	528.2	546.6	258.6	52.0	10.2	1.8	0.9	
4	0.7	2.8	171.7	296.2	136.5	589.7	522.1	253.2	59.5	11.8	1.8	0.9	
5	0.4	2.2	180.8	292.0	138.0	657.5	491.3	243.3	62.5	11.8	1.7	0.8	
6	0.4	1.9	191.1	287.4	147.0	750.0	472.0	228.5	58.5	10.2	1.5	3.3	
7	11.8	1.9	204.7	282.9	154.5	802.2	461.5	214.0	55.0	9.5	1.2	3.8	
8	18.7	2.3	220.0	278.4	162.0	817.3	447.5	194.5	52.5	8.6	0.9	3.3	
9	16.7	3.1	235.3	274.8	168.8	817.3	426.5	175.5	50.0	7.9	1.1	4.4	
10	15.7	3.2	248.7	269.4	176.2	817.3	412.5	157.5	50.0	7.9	1.3	7.0	
11	14.4	6.0	259.5	265.8	191.9	832.5	403.6	131.2	48.5	7.9	1.3	7.9	
12	11.5	9.9	275.7	260.4	212.3	877.9	396.4	114.3	47.0	7.3	1.4	7.9	
13	8.9	14.1	295.2	255.9	232.8	908.2	389.2	106.5	46.5	7.0	1.4	8.6	
14	7.3	16.4	303.6	250.5	249.6	938.5	380.2	98.7	42.0	7.0	1.3	8.6	
15	6.3	19.4	300.5	246.9	261.3	968.8	371.2	91.5	40.0	6.6	1.1	8.6	
16	6.0	23.2	300.5	245.1	266.7	984.0	360.4	85.2	38.5	6.0	0.8	8.2	
17	5.3	30.6	303.6	243.3	275.7	984.0	351.4	79.2	37.5	4.7	0.7	8.2	
18	4.4	36.0	311.0	241.5	279.3	984.0	340.6	70.8	36.0	4.7	0.8	8.2	
19	3.3	37.5	315.8	241.5	284.7	938.5	333.3	65.4	34.0	4.7	1.1	8.9	
20	2.8	37.5	319.5	240.6	290.1	877.9	325.8	62.0	31.4	4.8	1.3	3.2	
21	2.3	38.5	322.0	238.8	294.1	832.5	319.5	59.0	30.6	5.3	1.2	0.7	
22	2.2	38.5	322.0	237.0	297.3	787.0	311.0	56.5	25.8	6.0	1.2	0.8	
23	2.2	38.5	322.0	234.5	300.5	768.5	305.7	54.5	22.2	6.0	1.1	0.8	
24	2.5	45.5	320.7	230.2	304.6	768.5	300.5	53.0	19.4	5.7	0.7	0.5	
25	2.9	56.5	320.7	226.8	314.5	759.3	296.2	51.5	17.7	4.8	0.4	0.9	
26	3.7	64.8	317.0	220.9	333.3	740.8	288.3	51.0	17.0	4.1	0.1	2.0	
27	4.1	73.2	313.3	213.2	364.0	722.3	283.8	51.0	16.7	3.7	0.0	1.2	
28	4.5	84.0	312.0	203.0	387.4	676.0	278.4	51.0	15.1	3.3	0.0	0.0	
29	4.4	98.1	309.9	191.9	407.2	648.3	272.1	50.0	14.4	2.9		1.9	
30	4.1	119.5	305.7	179.2	437.0	611.3	271.2	46.5	13.8	2.5		2.9	
31		147.7		165.7	454.5		263.1		12.5	1.9		3.2	
Total	170.0	1066.9	8086.2	7721.4	7947.7	23344.6	11795.2	3655.8	1133.6	204.5	30.5	119.1	65275.5 CMSDAY
Mean	5.7	34.4	269.5	249.1	256.4	778.2	380.5	121.9	36.6	6.6	1.1	3.8	178.8 CMS
Max	18.7	147.7	322.0	304.6	454.5	984.0	595.9	258.6	62.5	11.8	1.8	8.9	984.0 CMS
Min	0.4	1.9	158.3	165.7	134.2	465.0	263.1	46.5	12.5	1.9	0.0	0.0	0.0 CMS
Runoff	14.69	92.18	698.65	667.13	686.68	2016.97	1019.11	315.86	97.94	17.67	2.64	10.29	5639.80 MCM

Momentary Peak 983.95 CMS, at 37.93 M (MSL), at 15.00 Hours, on Sep 15, 1994

Runoff Yield 8.35 Liters/Second/Square KM, Momentary Peak Yield 45.95 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

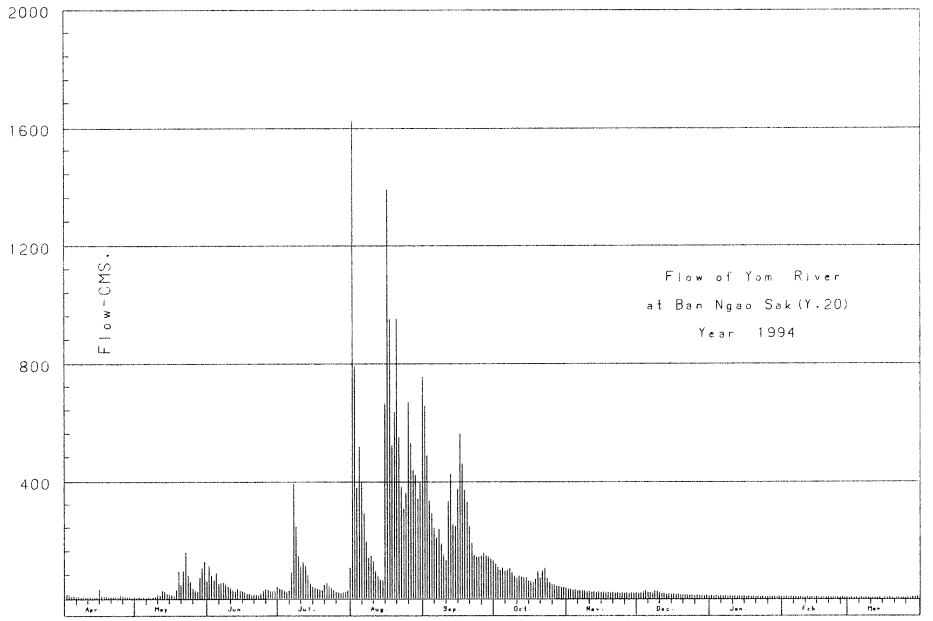
Yom River at Ban Ngao Sak, Phrae (Y.20)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 80 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.95	181.52	183.76	182.54	190.39	187.39	183.89	182.52	182.09	181.79	181.67	181.57	
2	181.82	181.52	183.30	182.41	187.93	186.54	183.71	182.47	182.09	181.78	181.67	181.57	
3	181.74	181.51	183.10	182.32	185.94	185.66	183.59	182.42	182.27	181.78	181.68	181.57	
4	181.71	181.50	183.42	182.20	186.70	185.41	183.68	182.40	182.37	181.78	181.68	181.57	
5	181.66	181.49	182.85	182.36	186.06	185.03	183.56	182.37	182.21	181.77	181.67	181.57	
6	181.62	181.48	182.86	183.47	185.41	184.77	183.57	182.34	182.11	181.76	181.67	181.57	
7	181.60	181.48	182.92	186.04	184.67	185.02	183.68	182.37	182.12	181.76	181.67	181.57	
8	181.58	181.50	182.78	185.07	184.22	184.64	183.47	182.33	182.31	181.76	181.64	181.58	
9	181.56	181.57	182.66	184.36	184.39	184.41	183.30	182.28	182.32	181.76	181.65	181.58	
10	181.55	181.87	182.52	183.75	184.04	184.09	183.21	182.26	182.16	181.76	181.64	181.57	
11	181.54	181.81	182.38	183.94	183.52	185.65	183.29	182.24	182.10	181.75	181.64	181.57	
12	181.54	182.35	182.32	183.78	183.31	186.23	183.27	182.22	182.05	181.75	181.64	181.57	
13	181.53	182.20	182.47	183.33	183.10	185.13	183.21	182.22	181.97	181.75	181.63	181.57	
14	181.53	182.00	182.37	182.88	183.09	185.10	183.23	182.20	182.00	181.74	181.63	181.56	
15	182.48	181.89	182.30	182.66	187.41	185.92	183.02	182.19	181.98	181.73	181.63	181.56	
16	181.67	181.82	182.13	182.54	189.72	186.92	182.97	182.17	181.97	181.72	181.62	181.55	
17	181.69	181.77	182.03	182.52	188.47	186.40	182.97	182.16	181.96	181.72	181.62	181.55	
18	181.65	182.42	181.94	182.41	186.71	185.89	183.15	182.15	181.96	181.72	181.62	181.54	
19	181.60	183.53	181.88	182.39	187.29	185.65	183.52	182.15	181.94	181.71	181.62	181.54	
20	181.56	182.75	181.86	182.75	188.47	185.09	183.20	182.15	181.90	181.71	181.61	181.54	
21	181.62	183.52	181.86	182.91	186.85	184.66	183.53	182.12	181.89	181.70	181.61	181.54	
22	181.55	184.46	181.83	182.64	185.97	184.40	183.70	182.12	181.88	181.70	181.61	181.55	
23	181.56	183.32	181.97	182.55	185.50	184.30	183.17	182.12	181.86	181.70	181.61	181.53	
24	181.77	182.95	182.32	182.33	185.83	184.29	182.98	182.11	181.85	181.70	181.60	181.53	
25	181.69	182.54	182.45	182.19	187.43	184.38	182.84	182.12	181.84	181.70	181.60	181.55	
26	181.59	182.33	182.43	182.17	186.76	184.44	182.76	182.10	181.84	181.70	181.59	181.57	
27	181.56	182.24	182.29	182.10	186.30	184.40	182.71	182.10	181.83	181.70	181.59	181.55	
28	181.55	183.19	182.22	182.09	186.20	184.31	182.66	182.10	181.83	181.70	181.58	181.60	
29	181.54	183.66	182.32	182.24	185.71	184.21	182.61	182.13	181.81	181.69		181.71	
30	181.54	184.01	182.61	182.32	186.04	184.06	182.58	182.12	181.81	181.69		181.66	
31		183.04		183.68	187.80		182.55		181.80	181.69		181.68	
Mean	181.65	182.36	182.47	182.93	186.17	185.15	183.21	182.23	182.00	181.73	181.63	181.57	
Max	182.48	184.46	183.76	186.04	190.39	187.39	183.89	182.52	182.37	181.79	181.68	181.71	190.39
Min	181.53	181.48	181.83	182.09	183.09	184.06	182.55	182.10	181.80	181.69	181.58	181.53	181.48

Annual Max Momentary Gage Height 191.57 M (MSL), at 24.00 Hours, on Aug 15, 1994
Zero Gage at Bottom Elevation 180.98 M (MSL), River Bed 179.55 M (MSL)
Left Bank Elevation 193.51 M (MSL)
Right Bank Elevation 193.33 M (MSL), Drainage Area 5410 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	17.5	6.4	112.2	38.0	1625.5	659.8	122.2	37.0	21.7	12.7	9.4	7.4		
2	13.6	6.4	80.0	32.4	791.8	488.0	108.7	34.8	21.7	12.4	9.4	7.4		
3	11.2	6.2	66.0	28.8	378.4	333.6	100.3	32.8	27.1	12.4	9.6	7.4		
4	10.3	6.0	88.4	25.0	520.0	293.6	106.6	32.0	30.8	12.4	9.6	7.4		
5	9.2	5.8	53.5	30.4	397.6	240.9	98.2	30.8	25.3	12.1	9.4	7.4		
6	8.4	5.6	54.0	91.9	293.6	207.7	98.9	29.6	22.3	11.8	9.4	7.4		
7	8.0	5.6	57.0	394.4	195.0	239.6	106.6	30.8	22.6	11.8	9.4	7.4		
8	7.6	6.0	50.0	246.1	140.3	190.0	91.9	29.2	28.4	11.8	8.8	7.6		
9	7.2	7.4	44.0	147.8	149.5	151.7	80.0	27.4	28.8	11.8	9.0	7.6		
10	7.0	15.1	37.0	111.5	130.6	133.3	73.7	26.8	23.8	11.8	8.8	7.4		
11	6.8	13.3	31.2	125.2	95.4	332.0	79.3	26.2	22.0	11.5	8.8	7.4		
12	6.8	30.0	28.8	113.6	80.7	426.7	77.9	25.6	20.5	11.5	8.8	7.4		
13	6.6	25.0	34.8	82.1	66.0	253.9	73.7	25.6	18.1	11.5	8.6	7.4		
14	6.6	19.0	30.8	55.0	65.5	250.0	75.1	25.0	19.0	11.2	8.6	7.2		
15	35.2	15.7	28.0	44.0	664.4	375.2	62.0	24.7	18.4	10.9	8.6	7.2		
16	9.4	13.6	22.9	38.0	1391.0	564.0	59.5	24.1	18.1	10.6	8.4	7.0		
17	9.8	12.1	19.9	37.0	953.8	460.0	59.5	23.8	17.8	10.6	8.4	7.0		
18	9.0	32.8	17.2	32.4	522.0	370.4	69.5	23.5	17.8	10.6	8.4	6.8		
19	8.0	96.1	15.4	31.6	638.0	332.0	95.4	23.5	17.2	10.3	8.4	6.8		
20	7.2	48.5	14.8	48.5	953.8	248.7	73.0	23.5	16.0	10.3	8.2	6.8		
21	8.4	95.4	14.8	56.5	550.0	193.3	96.1	22.6	15.7	10.0	8.2	6.8		
22	7.0	160.0	13.9	43.0	383.2	150.0	108.0	22.6	15.4	10.0	8.2	7.0		
23	7.2	81.4	18.1	38.5	308.0	144.6	70.9	22.6	14.8	10.0	8.2	6.6		
24	12.1	58.5	28.8	29.2	360.8	144.1	60.0	22.3	14.5	10.0	8.0	6.6		
25	9.8	38.0	34.0	24.7	669.2	148.9	53.0	22.6	14.2	10.0	8.0	7.0		
26	7.8	29.2	33.2	24.1	532.0	156.7	49.0	22.0	14.2	10.0	7.8	7.4		
27	7.2	26.2	27.7	22.0	440.0	150.0	46.5	22.0	13.9	10.0	7.8	7.0		
28	7.0	72.3	25.6	21.7	421.0	145.1	44.0	22.0	13.9	10.0	7.6	8.0		
29	6.8	105.2	28.8	26.2	341.6	139.7	41.5	22.9	13.3	9.8		10.3		
30	6.8	128.9	41.5	28.8	394.4	131.6	40.0	22.6	13.3	9.8		9.2		
31		63.0		106.6	758.0		38.5		13.0	9.8		9.6		
Total	285.5	1234.7	1152.3	2175.0	15211.1	8055.1	2359.5	780.9	593.6	339.4	241.8	230.9	32659.8	CMSDAY
Mean	9.5	39.8	38.4	70.2	490.7	268.5	76.1	26.0	19.1	10.9	8.6	7.4	89.5	CMS
Max	35.2	160.0	112.2	394.4	1625.5	659.8	122.2	37.0	30.8	12.7	9.6	10.3	1625.5	CMS
Min	6.6	5.6	13.9	21.7	65.5	131.6	38.5	22.0	13.0	9.8	7.6	6.6	5.6	CMS
Runoff	24.67	106.68	99.56	187.92	1314.24	695.96	203.86	67.47	51.29	29.32	20.89	19.95	2821.81	MCM

Momentary Peak 2068.00 CMS, at 191.57 M (MSL), at 24.00 Hours, on Aug 15, 1994
Runoff Yield 16.54 Liters/Second/Square KM, Momentary Peak Yield 382.26 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

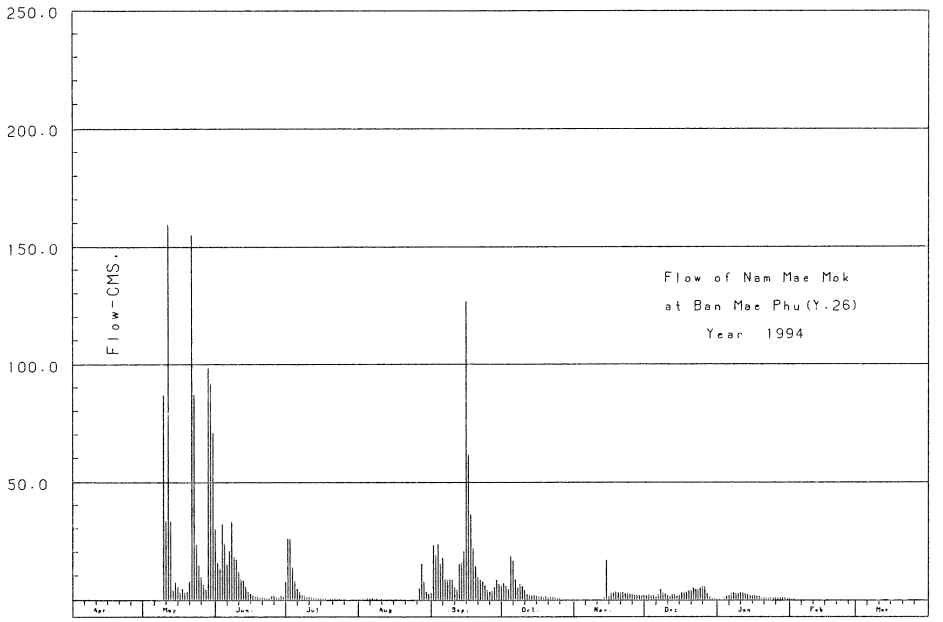
Nam Mae Mok at Ban Mae Phu, Lampang (Y.26)

Location	Lat. 17°19'45" N., Long. 99°27'42" E., on left bank downstream from Ban Mae Phu, Tambon Wiang Mok, Amphoe Thoen, Lampang.
Drainage Area	785 sq.km.
Type of Gage	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir at the gage site. Stage-discharge relation defined by 86 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	0.14	1.74	2.16	0.81	2.05	1.33	0.78	1.00	0.79	0.82	0.43	
2	0.52	0.13	1.63	2.15	0.81	1.88	1.25	0.77	1.01	0.82	0.80	0.41	
3	0.49	0.12	2.36	1.66	0.82	2.08	1.17	0.77	0.99	0.90	0.79	0.41	
4	0.46	0.11	2.08	1.37	0.82	1.72	1.86	0.75	0.98	0.98	0.70	0.41	
5	0.44	0.10	1.72	1.19	0.82	1.84	1.79	0.75	0.95	1.01	0.69	0.40	
6	0.42	0.09	1.97	1.09	0.83	1.42	1.42	0.75	1.02	1.06	0.67	0.39	
7	0.40	0.10	2.39	1.02	0.83	1.39	1.22	0.75	1.18	1.09	0.65	0.38	
8	0.39	0.10	1.86	0.98	0.82	1.41	1.31	0.75	1.07	1.06	0.62	0.37	
9	0.38	3.73	1.80	0.95	0.81	1.40	1.26	0.74	1.06	1.07	0.61	0.37	
10	0.36	2.40	1.57	0.92	0.80	1.23	1.14	0.75	0.99	1.08	0.61	0.36	
11	0.35	4.84	1.41	0.90	0.79	1.15	1.04	0.75	0.96	1.07	0.60	0.35	
12	0.34	2.40	1.39	0.88	0.78	1.73	1.01	0.73	1.03	1.05	0.61	0.35	
13	0.32	1.15	1.23	0.87	0.77	1.74	0.99	0.93	1.02	1.03	0.61	0.34	
14	0.32	1.34	1.12	0.86	0.77	1.96	1.00	1.80	0.98	1.01	0.60	0.34	
15	0.30	1.24	1.05	0.85	0.76	4.38	0.97	0.96	1.00	1.00	0.59	0.33	
16	0.29	1.08	0.99	0.84	0.75	3.16	0.95	1.07	1.09	1.00	0.59	0.33	
17	0.28	1.19	0.96	0.83	0.76	2.49	0.94	1.09	1.09	0.97	0.58	0.32	
18	0.27	1.08	0.94	0.81	0.76	2.01	0.90	1.10	1.10	0.94	0.57	0.31	
19	0.26	1.12	0.91	0.81	0.75	1.68	0.94	1.09	1.14	0.89	0.56	0.30	
20	0.25	1.36	0.89	0.83	0.75	1.46	0.90	1.08	1.14	0.88	0.54	0.30	
21	0.24	4.78	0.87	0.82	0.75	1.40	0.91	1.09	1.22	0.87	0.52	0.30	
22	0.22	3.73	0.86	0.81	0.73	1.37	0.93	1.06	1.18	0.88	0.50	0.29	
23	0.21	2.07	0.84	0.79	0.76	1.28	0.89	1.06	1.17	0.89	0.49	0.28	
24	0.20	1.70	0.97	0.79	0.75	1.15	0.86	1.04	1.22	0.89	0.48	0.27	
25	0.19	1.46	0.99	0.78	0.78	1.11	0.83	1.02	1.24	0.88	0.47	0.27	
26	0.18	1.29	0.93	0.77	1.20	1.12	0.82	1.00	1.23	0.90	0.46	0.27	
27	0.16	1.17	0.89	0.77	1.73	1.23	0.81	1.00	1.07	0.89	0.45	0.27	
28	0.16	3.94	0.96	0.77	1.35	1.41	0.79	1.00	0.93	0.89	0.44	0.27	
29	0.15	3.82	0.94	0.78	1.11	1.31	0.79	1.00	0.86	0.88		0.26	
30	0.14	3.39	1.36	0.79	1.03	1.27	0.79	1.00	0.81	0.86		0.25	
31		2.29		0.80	1.08		0.78		0.76	0.84		0.24	
Mean	0.31	1.72	1.32	0.99	0.87	1.69	1.05	0.95	1.05	0.95	0.59	0.33	
Max	0.55	4.84	2.39	2.16	1.73	4.38	1.86	1.80	1.24	1.09	0.82	0.43	4.84
Min	0.14	0.09	0.84	0.77	0.73	1.11	0.78	0.73	0.76	0.79	0.44	0.24	0.09

Annual Max Momentary Gage Height 5.93 M (A.D), at 18.00 Hours, on May 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.05 M (A.D)
Left Bank Elevation 7.60 M (A.D)
Right Bank Elevation 7.73 M (A.D), Drainage Area 785 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	15.68	26.24	0.56	23.05	7.17	0.40	2.00	0.45	0.62	0.00		
2	0.00	0.00	13.26	25.95	0.56	18.84	5.80	0.35	2.14	0.62	0.50	0.00		
3	0.00	0.00	32.36	13.92	0.62	23.92	4.52	0.35	1.91	1.10	0.45	0.00		
4	0.00	0.00	23.92	7.93	0.62	15.24	18.38	0.25	1.82	1.82	0.00	0.00		
5	0.00	0.00	15.24	4.84	0.62	17.92	16.78	0.25	1.55	2.14	0.00	0.00		
6	0.00	0.00	20.91	3.26	0.68	8.88	8.88	0.25	2.28	2.84	0.00	0.00		
7	0.00	0.00	33.29	2.28	0.68	8.31	5.32	0.25	4.68	3.26	0.00	0.00		
8	0.00	0.00	18.38	1.82	0.62	8.69	6.79	0.25	2.98	2.84	0.00	0.00		
9	0.00	87.29	17.00	1.55	0.56	8.50	5.96	0.20	2.84	2.98	0.00	0.00		
10	0.00	33.60	11.94	1.28	0.50	5.48	4.04	0.25	1.91	3.12	0.00	0.00		
11	0.00	159.72	8.69	1.10	0.45	4.20	2.56	0.25	1.64	2.98	0.00	0.00		
12	0.00	33.60	8.31	0.98	0.40	15.46	2.14	0.15	2.42	2.70	0.00	0.00		
13	0.00	4.20	5.48	0.92	0.35	15.68	1.91	1.37	2.28	2.42	0.00	0.00		
14	0.00	7.36	3.72	0.86	0.35	20.68	2.00	17.00	1.82	2.14	0.00	0.00		
15	0.00	5.64	2.70	0.80	0.30	127.02	1.73	1.64	2.00	2.00	0.00	0.00		
16	0.00	3.12	1.91	0.74	0.25	61.72	1.55	2.98	3.26	2.00	0.00	0.00		
17	0.00	4.84	1.64	0.68	0.30	36.39	1.46	3.26	3.26	1.73	0.00	0.00		
18	0.00	3.12	1.46	0.56	0.30	21.89	1.10	3.40	3.40	1.46	0.00	0.00		
19	0.00	3.72	1.19	0.56	0.25	14.36	1.46	3.26	4.04	1.04	0.00	0.00		
20	0.00	7.74	1.04	0.68	0.25	9.64	1.10	3.12	4.04	0.98	0.00	0.00		
21	0.00	155.34	0.92	0.62	0.25	8.50	1.19	3.26	5.32	0.92	0.00	0.00		
22	0.00	87.29	0.86	0.56	0.15	7.93	1.37	2.84	4.68	0.98	0.00	0.00		
23	0.00	23.63	0.74	0.45	0.30	6.28	1.04	2.84	4.52	1.04	0.00	0.00		
24	0.00	14.80	1.73	0.45	0.25	4.20	0.86	2.56	5.32	1.04	0.00	0.00		
25	0.00	9.64	1.91	0.40	0.40	3.56	0.68	2.28	5.64	0.98	0.00	0.00		
26	0.00	6.44	1.37	0.35	5.00	3.72	0.62	2.00	5.48	1.10	0.00	0.00		
27	0.00	4.52	1.04	0.35	15.46	5.48	0.56	2.00	2.98	1.04	0.00	0.00		
28	0.00	98.96	1.64	0.35	7.55	8.69	0.45	2.00	1.37	1.04	0.00	0.00		
29	0.00	92.12	1.46	0.40	3.56	6.79	0.45	2.00	0.86	0.98		0.00		
30	0.00	71.38	7.74	0.45	2.42	6.12	0.45	2.00	0.56	0.86		0.00		
31		30.19		0.50	3.12		0.40		0.30	0.74		0.00		
Total	0.00	948.26	257.53	101.83	47.68	527.14	108.72	63.01	89.30	51.34	1.57	0.00	2196.38	CMSDAY
Mean	0.00	30.59	8.58	3.28	1.54	17.57	3.51	2.10	2.88	1.66	0.06	0.00	6.02	CMS
Max	0.00	159.72	33.29	26.24	15.46	127.02	18.38	17.00	5.64	3.26	0.62	0.00	159.72	CMS
Min	0.00	0.00	0.74	0.35	0.15	3.56	0.40	0.15	0.30	0.45	0.00	0.00	0.00	CMS
Runoff	0.000	81.930	22.251	8.798	4.120	45.545	9.393	5.444	7.716	4.436	0.136	0.000	189.767	MCM

Momentary Peak 245.70 CMS, at 5.93 M (A.D), at 18.00 Hours, on May 21, 1994
Runoff Yield 7.67 Liters/Second/Square KM, Momentary Peak Yield 312.99 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

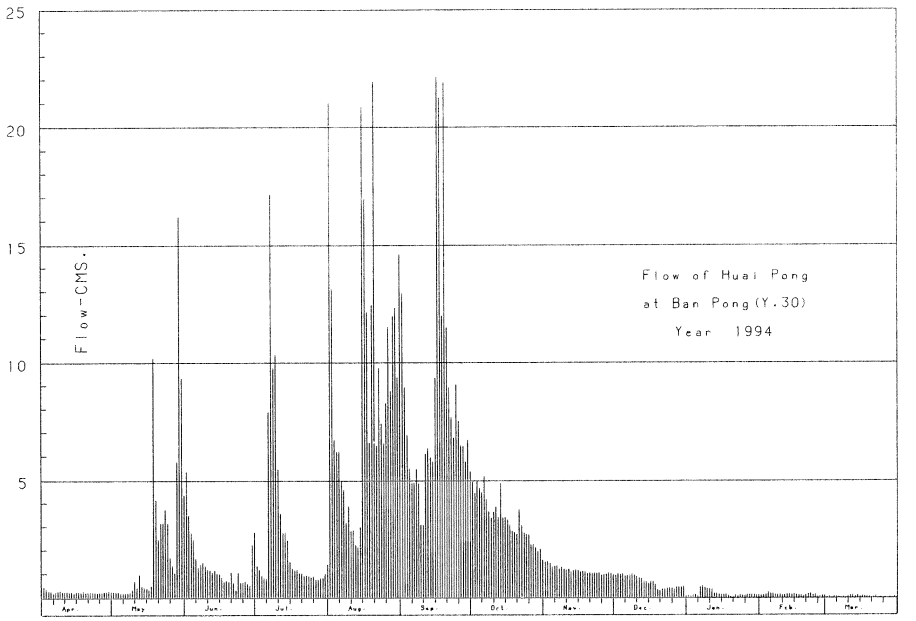
Huai Pong at Ban Pong, Lampang (Y.30)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.62	1.44	0.93	2.43	2.01	1.40	0.96	0.85	0.54	0.55	0.52	
2	0.66	0.62	1.24	0.90	2.02	1.74	1.35	0.96	0.86	0.54	0.56	0.52	
3	0.64	0.62	1.15	0.84	1.56	1.58	1.40	0.95	0.86	0.55	0.59	0.51	
4	0.63	0.61	1.11	0.81	1.52	1.45	1.37	0.92	0.86	0.57	0.62	0.52	
5	0.61	0.61	0.98	0.81	1.52	1.39	1.35	0.93	0.84	0.54	0.61	0.53	
6	0.62	0.60	0.92	1.66	1.40	1.39	1.42	0.93	0.84	0.70	0.60	0.51	
7	0.64	0.61	0.94	2.24	1.36	1.45	1.32	0.91	0.85	0.71	0.59	0.51	
8	0.64	0.61	0.95	1.80	1.20	1.39	1.26	0.92	0.86	0.69	0.57	0.51	
9	0.63	0.66	0.93	1.84	1.29	1.19	1.23	0.91	0.85	0.67	0.59	0.51	
10	0.62	0.77	0.90	1.45	1.16	1.19	1.26	0.90	0.83	0.67	0.57	0.53	
11	0.63	0.68	0.90	1.25	1.16	1.51	1.29	0.91	0.82	0.66	0.56	0.56	
12	0.62	0.85	0.87	1.15	1.08	1.53	1.23	0.88	0.81	0.61	0.59	0.56	
13	0.62	0.71	0.90	1.15	1.06	1.50	1.39	0.90	0.78	0.60	0.59	0.53	
14	0.61	0.68	0.86	1.11	1.18	1.48	1.23	0.90	0.77	0.59	0.58	0.55	
15	0.62	0.68	0.86	0.96	2.42	1.77	1.23	0.90	0.75	0.57	0.58	0.53	
16	0.62	0.65	0.82	0.91	2.23	2.48	1.22	0.88	0.77	0.59	0.57	0.54	
17	0.62	0.71	0.77	0.90	1.96	2.44	1.19	0.89	0.78	0.58	0.57	0.53	
18	0.63	1.83	0.78	0.90	1.55	1.95	1.16	0.88	0.73	0.55	0.55	0.53	
19	0.62	1.32	0.77	0.87	1.98	2.47	1.15	0.87	0.66	0.55	0.54	0.53	
20	0.62	1.11	0.88	0.86	2.47	1.92	1.14	0.87	0.64	0.54	0.56	0.50	
21	0.62	1.20	0.75	0.84	1.54	1.74	1.27	0.87	0.67	0.55	0.60	0.51	
22	0.62	1.20	0.65	0.84	1.80	1.64	1.19	0.87	0.66	0.54	0.60	0.54	
23	0.61	1.27	0.87	0.84	1.62	1.57	1.15	0.87	0.68	0.56	0.57	0.50	
24	0.61	1.20	0.76	0.82	1.55	1.75	1.14	0.87	0.68	0.56	0.58	0.49	
25	0.61	0.99	0.75	0.83	1.69	1.63	1.14	0.85	0.68	0.56	0.53	0.48	
26	0.61	0.93	0.77	0.80	1.92	1.54	1.08	0.85	0.66	0.57	0.52	0.48	
27	0.63	0.87	0.74	0.80	1.73	1.54	1.08	0.86	0.70	0.58	0.55	0.48	
28	0.63	1.48	0.71	0.81	1.95	1.48	1.06	0.87	0.69	0.57	0.54	0.51	
29	0.63	2.19	1.08	0.82	1.97	1.56	1.03	0.87	0.70	0.58		0.51	
30	0.63	1.77	1.15	0.86	1.77	1.44	1.05	0.85	0.70	0.55		0.51	
31		1.34		0.94	2.10		0.97		0.54	0.55		0.51	
Mean	0.63	0.97	0.91	1.05	1.68	1.66	1.22	0.89	0.75	0.59	0.57	0.52	
Max	0.70	2.19	1.44	2.24	2.47	2.48	1.42	0.96	0.86	0.71	0.62	0.56	2.48
Min	0.61	0.60	0.65	0.80	1.06	1.19	0.97	0.85	0.54	0.54	0.52	0.48	0.48

Annual Max Momentary Gage Height 2.87 M (A.D), at 18.00 Hours, on Aug 1, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.07 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.26	5.40	1.38	21.06	12.98	5.00	1.56	1.00	0.11	0.13	0.08	
2	0.38	0.26	3.52	1.20	13.16	8.96	4.50	1.56	1.04	0.11	0.14	0.08	
3	0.32	0.26	2.80	0.96	6.72	6.96	5.00	1.50	1.04	0.13	0.18	0.06	
4	0.29	0.23	2.48	0.84	6.24	5.50	4.70	1.32	1.04	0.15	0.26	0.08	
5	0.23	0.23	1.68	0.84	6.24	4.90	4.50	1.38	0.96	0.11	0.23	0.09	
6	0.26	0.20	1.32	7.92	5.00	4.90	5.20	1.38	0.96	0.50	0.20	0.06	
7	0.32	0.23	1.44	17.20	4.60	5.50	4.20	1.26	1.00	0.53	0.18	0.06	
8	0.32	0.23	1.50	9.80	3.20	4.90	3.68	1.32	1.04	0.47	0.15	0.06	
9	0.29	0.38	1.38	10.36	3.92	3.12	3.44	1.26	1.00	0.41	0.18	0.06	
10	0.26	0.71	1.20	5.50	2.88	3.12	3.68	1.20	0.92	0.41	0.15	0.09	
11	0.29	0.44	1.20	3.60	2.88	6.12	3.92	1.26	0.88	0.38	0.14	0.14	
12	0.26	1.00	1.08	2.80	2.28	6.36	3.44	1.12	0.84	0.23	0.18	0.14	
13	0.26	0.53	1.20	2.80	2.16	6.00	4.90	1.20	0.74	0.20	0.18	0.09	
14	0.23	0.44	1.04	2.48	3.04	5.80	3.44	1.20	0.71	0.18	0.17	0.13	
15	0.26	0.44	1.04	1.56	20.84	9.38	3.44	1.20	0.65	0.15	0.17	0.09	
16	0.26	0.35	0.88	1.26	17.00	22.16	3.36	1.12	0.71	0.18	0.15	0.11	
17	0.26	0.53	0.71	1.20	12.16	21.28	3.12	1.16	0.74	0.17	0.15	0.09	
18	0.29	10.22	0.74	1.20	6.60	12.00	2.88	1.12	0.59	0.13	0.13	0.09	
19	0.26	4.20	0.71	1.08	12.48	21.94	2.80	1.08	0.38	0.13	0.11	0.09	
20	0.26	2.48	1.12	1.04	21.94	11.52	2.72	1.08	0.32	0.11	0.14	0.05	
21	0.26	3.20	0.65	0.96	6.48	8.96	3.76	1.08	0.41	0.13	0.20	0.06	
22	0.26	3.20	0.35	0.96	9.80	7.68	3.12	1.08	0.38	0.11	0.20	0.11	
23	0.23	3.76	1.08	0.96	7.44	6.84	2.80	1.08	0.44	0.14	0.15	0.05	
24	0.23	3.20	0.68	0.88	6.60	9.10	2.72	1.08	0.44	0.14	0.17	0.05	
25	0.23	1.74	0.65	0.92	8.28	7.56	2.72	1.00	0.44	0.14	0.09	0.04	
26	0.23	1.38	0.71	0.80	11.52	6.48	2.28	1.00	0.38	0.15	0.08	0.04	
27	0.29	1.08	0.62	0.80	8.82	6.48	2.28	1.04	0.50	0.17	0.13	0.04	
28	0.29	5.80	0.53	0.84	12.00	5.80	2.16	1.08	0.47	0.15	0.11	0.06	
29	0.29	16.22	2.28	0.88	12.32	6.72	1.98	1.08	0.50	0.17		0.06	
30	0.29	9.38	2.80	1.04	9.38	5.40	2.10	1.00	0.50	0.13		0.06	
31		4.40		1.44	14.60		1.62		0.11	0.13		0.06	
Total	8.40	76.98	42.79	85.50	281.64	254.42	105.46	35.80	21.13	6.35	4.45	2.37	925.29 CMSDAY
Mean	0.28	2.48	1.43	2.76	9.09	8.48	3.40	1.19	0.68	0.20	0.16	0.08	2.54 CMS
Max	0.50	16.22	5.40	17.20	21.94	22.16	5.20	1.56	1.04	0.53	0.26	0.14	22.16 CMS
Min	0.23	0.20	0.35	0.80	2.16	3.12	1.62	1.00	0.11	0.11	0.08	0.04	0.04 CMS
Runoff	0.726	6.651	3.697	7.387	24.334	21.982	9.112	3.093	1.826	0.549	0.384	0.205	79.945 MCM

Momentary Peak 32.36 CMS, at 2.87 M (A.D), at 18.00 Hours, on Aug 1, 1994

Runoff Yield 26.41 Liters/Second/Square KM, Momentary Peak Yield 337.08 Liters/Second/Square KM

WATER YEAR 1994

YOM RIVER BASIN

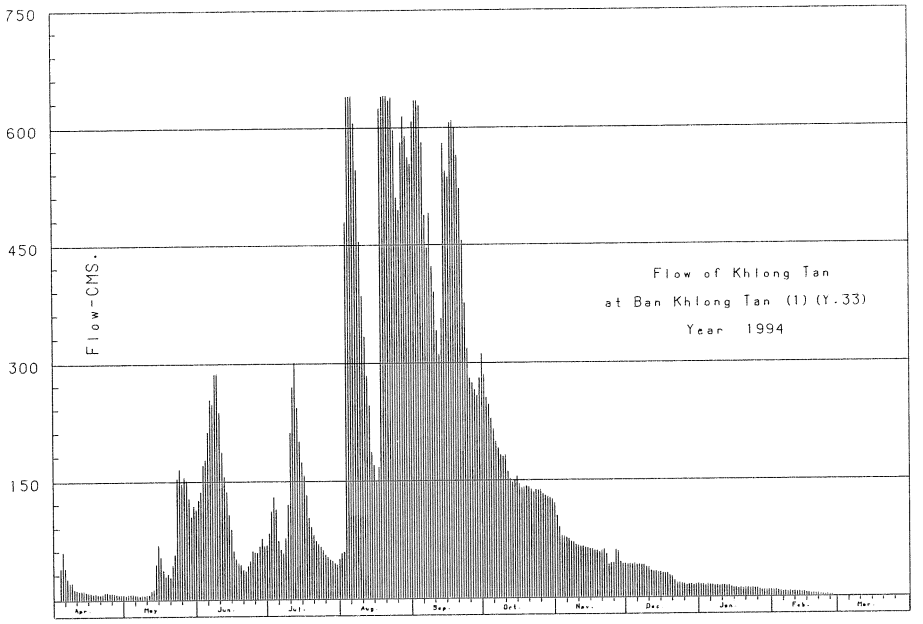
Khlong Tan at Ban Khlong Tan (1), Sukhothai (Y.33)

Location	Lat. 17-10-05 N., Long. 99-51-52 E., on left bank at the bridge on road, Tambon Khlong Tan, 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 +55.68 m.(M.S.L.), records are channel flow only.
General Description	Records good. Flow effected by the local weir about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 32 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	46.03	46.58	49.65	48.87	48.30	55.51	51.97	49.25	48.17	47.60	47.34	47.02	
2	46.06	46.62	49.83	49.38	48.35	55.77	51.59	48.98	48.17	47.60	47.33	47.02	
3	47.85	46.69	50.39	49.72	54.22	55.76	51.48	48.77	48.17	47.57	47.33	47.02	
4	48.38	46.64	50.48	49.42	55.82	55.71	51.22	48.74	48.18	47.60	47.27	47.02	
5	47.87	46.60	51.00	48.68	55.82	55.26	51.04	48.72	48.16	47.59	47.26	47.02	
6	47.46	46.58	51.58	48.43	55.82	54.31	50.80	48.68	48.16	47.57	47.26	47.02	
7	47.30	46.55	51.49	48.30	55.50	53.87	50.69	48.62	48.16	47.55	47.26	47.02	
8	47.28	46.55	52.00	48.73	54.91	54.33	50.55	48.59	48.15	47.55	47.26	47.02	
9	47.03	46.58	52.00	49.54	53.96	53.59	50.53	48.53	48.11	47.55	47.26	47.02	
10	46.97	46.60	51.35	50.99	53.16	53.21	50.55	48.49	48.10	47.55	47.25	47.02	
11	46.94	46.65	50.64	51.78	52.59	52.66	50.24	48.47	48.04	47.55	47.24	47.02	
12	46.94	46.92	50.15	52.17	51.96	52.30	50.09	48.46	48.02	47.54	47.24	47.02	
13	46.92	46.98	49.84	51.44	51.47	52.84	50.00	48.44	48.01	47.54	47.24	47.02	
14	46.87	47.98	49.30	50.82	50.62	55.24	50.05	48.42	48.00	47.50	47.23	47.01	
15	46.77	48.57	48.97	50.44	50.37	54.89	50.13	48.40	47.99	47.47	47.21	47.00	
16	46.74	48.20	48.39	50.17	50.03	54.82	49.97	48.39	47.98	47.45	47.18	47.00	
17	46.71	47.79	48.13	49.76	50.34	55.50	49.89	48.38	47.97	47.44	47.16	46.96	
18	46.70	47.54	48.01	49.22	55.67	55.52	49.90	48.37	47.96	47.44	47.16	46.95	
19	46.69	47.64	47.94	49.02	55.82	55.43	49.93	48.36	47.91	47.44	47.16	46.94	
20	46.66	47.52	47.78	48.81	55.82	55.09	49.90	48.37	47.86	47.44	47.14	46.91	
21	46.65	47.95	47.75	48.67	55.82	54.67	49.85	48.39	47.73	47.44	47.13	46.90	
22	46.83	48.27	47.92	48.57	55.77	53.97	49.80	48.33	47.67	47.44	47.11	46.90	
23	46.80	50.12	48.06	48.51	55.80	53.06	49.84	48.17	47.66	47.44	47.10	46.92	
24	46.77	50.30	48.39	48.39	55.41	52.39	49.84	48.19	47.65	47.44	47.10	46.93	
25	46.74	50.00	48.33	48.27	54.54	51.91	49.84	48.20	47.61	47.42	47.09	46.95	
26	46.72	50.14	48.32	48.17	54.38	51.85	49.76	48.39	47.58	47.39	47.07	46.96	
27	46.69	50.08	48.53	48.11	55.26	51.73	49.72	48.36	47.61	47.34	47.03	46.98	
28	46.64	49.69	48.73	48.05	55.57	51.62	49.68	48.22	47.60	47.34	47.02	46.98	
29	46.62	49.27	48.52	47.99	55.33	51.92	49.67	48.17	47.58	47.34		46.99	
30	46.60	49.50	48.56	47.93	55.07	52.31	49.62	48.17	47.60	47.34		46.99	
31		49.42		48.13	54.98		49.53		47.62	47.34		46.99	
Mean	46.91	47.95	49.40	49.24	53.82	53.90	50.25	48.47	47.91	47.48	47.19	46.98	
Max	48.38	50.30	52.00	52.17	55.82	55.77	51.97	49.25	48.18	47.60	47.34	47.02	55.82
Min	46.03	46.55	47.75	47.93	48.30	51.62	49.53	48.17	47.58	47.34	47.02	46.90	46.03

Annual Max Momentary Gage Height 55.82 M (MSL), at 6.00 Hours, on Aug 4, 1994
Zero Gage at Bottom Elevation 45.82 M (MSL), River Bed 45.60 M (MSL)
Left Bank Elevation 56.04 M (MSL)
Right Bank Elevation 55.67 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	5.7	126.8	84.5	58.0	607.5	284.6	104.8	42.2	16.0	8.5	0.5	
2	0.0	6.3	136.8	111.9	60.0	634.9	255.2	90.0	42.2	16.0	8.3	0.5	
3	40.0	7.3	171.3	130.6	479.9	633.8	247.0	79.5	42.2	15.1	8.3	0.5	
4	61.2	6.6	177.2	114.1	640.2	628.5	228.4	78.0	42.8	16.0	6.7	0.5	
5	40.8	6.0	213.0	75.0	640.2	581.3	215.8	77.0	41.6	15.7	6.5	0.5	
6	26.8	5.7	254.5	63.3	640.2	488.5	199.0	75.0	41.6	15.1	6.5	0.5	
7	22.0	5.2	247.8	58.0	606.5	446.6	191.3	72.0	41.6	14.5	6.5	0.5	
8	21.4	5.2	287.0	77.5	546.0	490.4	181.8	70.6	41.0	14.5	6.5	0.5	
9	13.9	5.7	287.0	120.7	455.2	422.2	180.5	67.8	38.6	14.5	6.5	0.5	
10	12.4	6.0	237.5	212.3	385.4	389.8	181.8	66.1	38.0	14.5	6.2	0.5	
11	11.8	6.8	187.8	269.5	334.2	340.4	161.6	65.2	34.4	14.5	6.0	0.5	
12	11.8	11.4	156.0	300.6	283.8	311.0	152.4	64.7	33.2	14.2	6.0	0.5	
13	11.4	12.6	137.4	244.0	246.3	356.6	147.0	63.8	32.6	14.2	6.0	0.5	
14	10.4	45.2	107.5	200.4	186.4	579.2	150.0	62.9	32.0	13.0	5.7	0.2	
15	8.6	69.7	89.5	174.6	170.0	544.0	154.8	62.0	31.6	12.1	5.2	0.0	
16	8.1	54.0	61.6	157.2	148.8	537.0	145.2	61.6	31.1	11.5	4.5	0.0	
17	7.6	37.7	51.2	132.8	168.1	606.5	140.4	60.2	30.7	11.2	4.0	0.0	
18	7.5	29.2	46.4	103.1	624.3	608.6	141.0	59.3	30.2	11.2	4.0	0.0	
19	7.3	32.4	43.6	92.1	640.2	599.2	142.8	58.4	28.0	11.2	4.0	0.0	
20	6.9	28.6	37.3	81.5	640.2	564.0	141.0	59.3	25.7	11.2	3.5	0.0	
21	6.8	44.0	36.3	74.5	640.2	522.6	138.0	61.1	20.6	11.2	3.3	0.0	
22	9.6	56.8	42.8	69.7	634.9	456.2	135.0	55.7	18.4	11.2	2.8	0.0	
23	9.0	154.2	48.4	66.9	638.0	376.4	137.4	42.2	18.1	11.2	2.5	0.0	
24	8.6	165.5	61.6	61.6	597.0	318.2	137.4	43.4	17.8	11.2	2.5	0.0	
25	8.1	147.0	59.2	56.8	510.3	279.8	137.4	44.0	16.4	10.6	2.2	0.0	
26	7.8	155.4	58.8	52.8	495.1	275.0	132.8	61.1	15.4	9.7	1.7	0.0	
27	7.3	151.8	67.8	50.4	581.3	265.7	130.6	58.4	16.4	8.5	0.7	0.0	
28	6.6	128.9	77.5	48.0	613.8	257.5	128.4	45.8	16.0	8.5	0.5	0.0	
29	6.3	105.9	67.4	45.6	588.7	280.6	127.8	42.2	15.4	8.5		0.0	
30	6.0	118.5	69.2	43.2	562.0	311.8	125.1	42.2	16.0	8.5		0.0	
31		114.1		51.2	553.0		120.1		16.7	8.5		0.0	
Total	406.0	1729.4	3646.2	3424.4	14368.2	13713.8	5091.6	1894.3	908.5	383.8	135.6	6.7	45708.5 CMSDAY
Mean	13.5	55.8	121.5	110.5	463.5	457.1	164.2	63.1	29.3	12.4	4.8	0.2	125.2 CMS
Max	61.2	165.5	287.0	300.6	640.2	634.9	284.6	104.8	42.8	16.0	8.5	0.5	640.2 CMS
Min	0.0	5.2	36.3	43.2	58.0	257.5	120.1	42.2	15.4	8.5	0.5	0.0	0.0 CMS
Runoff	35.08	149.42	315.03	295.87	1241.41	1184.87	439.91	163.67	78.49	33.16	11.72	0.58	3949.22 MCM

Momentary Peak 640.20 CMS, at 55.82 M (MSL), at 6.00 Hours, on Aug 4, 1994

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

WATER YEAR 1994

NAN RIVER BASIN

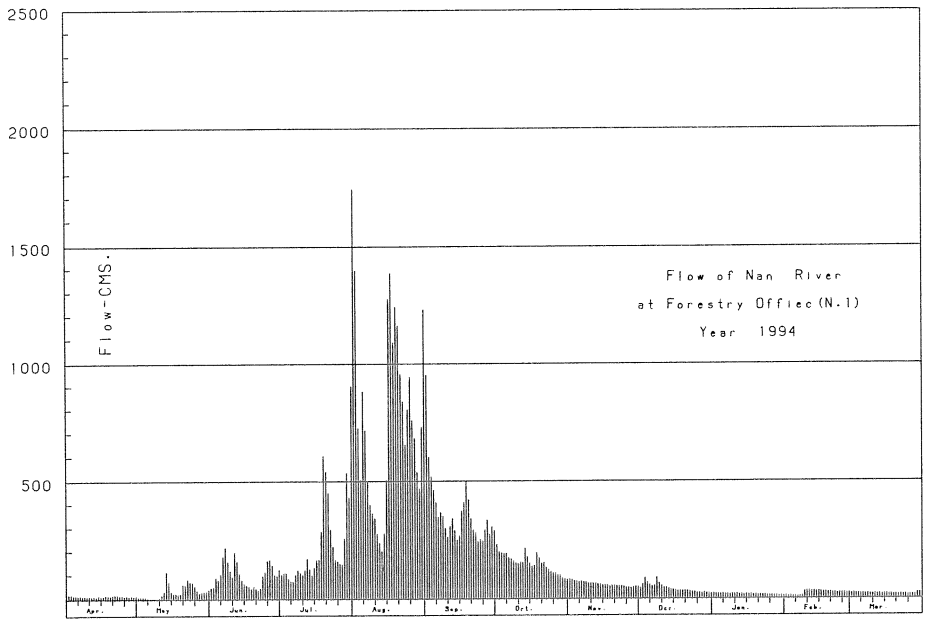
Nan River at Forestry Office, Nan (N.1)

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.
Overbank Flow Conditions	Overbank flow starts at elevation +199.18 m.(M.S.L.) and is included.
General Description	Records fair. Flow effected by the temporary weir on Nov.28,94-Mar.31,95. The weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 37 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.98	192.77	193.34	193.84	199.42	197.42	194.39	193.43	193.12	192.87	192.75	193.24	
2	192.95	192.74	193.35	193.90	198.63	196.15	194.22	193.41	193.24	192.87	192.74	193.24	
3	192.90	192.75	193.73	193.92	196.64	195.81	194.18	193.38	193.47	192.86	192.74	193.23	
4	192.87	192.72	193.66	193.71	195.74	195.54	194.18	193.36	193.31	192.86	192.73	193.21	
5	192.85	192.67	193.87	193.60	197.20	195.31	194.17	193.34	193.22	192.87	192.72	193.21	
6	192.84	192.53	194.44	193.60	196.59	195.00	194.06	193.35	193.17	192.86	192.72	193.21	
7	192.83	192.51	194.70	193.84	195.72	195.11	194.02	193.34	193.19	192.85	192.80	193.21	
8	192.82	192.54	194.30	194.02	195.26	195.02	193.96	193.32	193.49	192.85	193.06	193.20	
9	192.81	192.62	193.98	193.91	195.08	194.77	193.92	193.29	193.30	192.85	193.33	193.19	
10	192.81	192.70	193.79	193.85	194.98	194.57	193.90	193.28	193.19	192.85	193.40	193.19	
11	192.80	192.95	194.56	194.01	194.65	194.80	193.93	193.28	193.14	192.86	193.38	193.19	
12	192.79	193.15	194.31	194.39	194.43	194.98	193.93	193.28	193.12	192.84	193.38	193.19	
13	192.79	193.96	193.88	194.04	194.23	194.72	194.31	193.26	193.09	192.83	193.37	193.18	
14	192.87	193.57	193.66	193.84	194.65	194.50	194.07	193.24	193.05	192.83	193.36	193.17	
15	192.81	193.16	193.50	193.78	195.74	194.61	193.90	193.22	193.04	192.83	193.36	193.17	
16	192.79	193.03	193.45	193.99	198.33	195.13	193.82	193.22	193.02	192.83	193.34	193.17	
17	192.94	193.05	193.38	194.01	198.61	195.30	193.83	193.22	193.01	192.83	193.32	193.16	
18	192.86	192.98	193.30	194.69	197.83	195.73	194.20	193.16	193.00	192.82	193.31	193.16	
19	192.85	193.04	193.36	196.17	198.25	195.36	194.05	193.20	193.01	192.82	193.30	193.15	
20	192.89	193.46	193.30	195.90	198.03	194.97	193.91	193.20	193.01	192.81	193.29	193.14	
21	192.98	193.45	193.22	195.49	197.43	194.73	193.92	193.19	193.01	192.81	193.28	193.14	
22	192.93	193.67	193.32	194.74	197.05	194.67	193.79	193.18	192.97	192.81	193.27	193.14	
23	192.89	193.58	193.80	194.35	196.35	194.48	193.72	193.18	192.96	192.81	193.26	193.14	
24	192.90	193.55	193.95	194.00	196.94	194.52	193.66	193.15	192.94	192.79	193.26	193.13	
25	192.83	193.41	194.33	193.97	197.39	194.49	193.62	193.14	192.92	192.78	193.26	193.12	
26	192.83	193.21	194.35	193.90	196.75	194.72	193.61	193.13	192.91	192.77	193.26	193.12	
27	192.82	193.09	194.18	193.87	196.47	194.94	193.56	193.12	192.90	192.77	193.25	193.12	
28	192.82	193.11	193.84	194.54	195.89	194.63	193.54	193.14	192.92	192.77	193.25	193.12	
29	192.81	193.16	193.82	195.88	195.57	194.79	193.46	193.17	192.90	192.76		193.26	
30	192.87	193.16	194.02	195.40	196.65	194.71	193.42	193.15	192.88	192.76		193.25	
31		193.24		197.27	198.22		193.41		192.87	192.75		193.25	
Mean	192.86	193.08	193.82	194.40	196.60	195.05	193.89	193.24	193.08	192.82	193.16	193.18	
Max	192.98	193.96	194.70	197.27	199.42	197.42	194.39	193.43	193.49	192.87	193.40	193.26	199.42
Min	192.79	192.51	193.22	193.60	194.23	194.48	193.41	193.12	192.87	192.75	192.72	193.12	192.51

Annual Max Momentary Gage Height 199.46 M (MSL), at 12.00 Hours, on Aug 1, 1994
Zero Gage at Bottom Elevation 192.17 M (MSL), River Bed 189.89 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.2	11.5	51.0	103.8	1745.0	954.6	232.3	86.2	49.6	24.3	14.6	25.8	
2	19.7	10.3	52.0	111.0	1397.9	605.5	203.4	83.4	63.2	24.3	13.9	25.8	
3	17.2	10.7	91.3	113.4	730.4	523.3	196.8	79.6	91.8	23.4	13.9	25.1	
4	15.8	9.5	83.6	89.1	507.8	463.8	196.8	77.2	71.2	23.4	13.2	23.7	
5	15.0	7.6	107.4	77.0	885.0	414.1	195.2	74.8	60.9	24.3	12.5	23.7	
6	14.5	3.4	182.0	77.0	717.4	350.0	177.6	76.0	55.3	23.4	12.5	23.7	
7	14.1	2.9	222.0	103.8	503.4	372.1	171.2	74.8	57.5	22.5	12.3	23.7	
8	13.6	3.6	162.0	125.6	403.6	354.0	162.0	72.4	94.6	22.5	15.9	23.0	
9	13.1	5.9	120.6	112.2	366.0	304.0	156.0	68.9	70.0	22.5	32.1	22.5	
10	13.1	8.7	97.9	105.0	346.0	264.3	153.0	67.7	57.5	22.5	37.0	22.5	
11	12.7	19.7	200.0	124.3	280.0	310.0	157.5	67.7	51.9	23.4	35.6	22.5	
12	12.3	33.0	163.4	174.6	239.1	346.0	157.5	67.7	49.6	21.6	35.6	22.5	
13	12.3	118.2	108.6	128.2	205.1	294.0	218.7	65.5	46.2	20.7	34.9	22.0	
14	15.8	74.0	83.6	103.8	280.0	251.0	179.2	63.2	41.7	20.7	34.2	21.5	
15	13.1	33.8	67.0	135.2	507.8	272.0	153.0	60.9	40.5	20.7	34.2	21.5	
16	12.3	24.2	62.0	166.5	1277.0	376.3	141.0	60.9	38.3	20.7	32.8	21.5	
17	19.2	25.6	55.0	169.6	1389.3	412.0	142.5	60.9	37.1	20.7	31.4	21.0	
18	15.4	21.2	47.0	288.0	1092.5	505.6	200.0	54.1	36.0	19.8	30.7	21.0	
19	15.0	24.9	53.0	610.5	1245.0	424.6	176.0	58.7	37.1	19.8	30.0	20.5	
20	16.8	63.0	47.0	544.0	1162.8	344.0	154.5	58.7	37.1	18.9	29.3	19.9	
21	21.2	62.0	39.0	452.8	957.9	296.0	156.0	57.5	37.1	18.9	28.6	19.9	
22	18.7	84.7	49.0	298.0	840.5	284.0	136.6	56.4	33.3	18.9	27.9	19.9	
23	16.8	75.0	99.0	225.5	655.5	247.6	126.8	56.4	32.4	18.9	27.2	19.9	
24	17.2	72.0	117.0	168.0	809.2	254.8	118.4	53.0	30.6	17.3	27.2	19.4	
25	14.1	58.0	166.2	163.5	944.7	249.3	112.8	51.9	28.8	16.6	27.2	18.9	
26	14.1	38.0	169.0	153.0	759.0	294.0	111.4	50.7	27.9	15.9	27.2	18.9	
27	13.6	28.3	146.4	148.5	686.2	338.0	104.4	49.6	27.0	15.9	26.5	18.9	
28	13.6	29.8	103.8	258.6	541.7	276.0	101.6	51.9	28.8	15.9	26.5	18.9	
29	13.1	33.8	101.4	539.4	470.4	308.0	90.4	55.3	27.0	15.2		27.2	
30	15.8	33.8	125.6	433.0	733.0	292.0	84.8	53.0	25.2	15.2		26.5	
31		41.0		906.0	1233.0		83.4		24.3	14.6		26.5	
Total	460.4	1068.1	3172.8	7208.9	23912.2	10980.9	4750.8	1915.0	1409.5	623.4	724.9	688.3	56915.2 CMSDAY
Mean	15.3	34.5	105.8	232.5	771.4	366.0	153.3	63.8	45.5	20.1	25.9	22.2	155.9 CMS
Max	21.2	118.2	222.0	906.0	1745.0	954.6	232.3	86.2	94.6	24.3	37.0	27.2	1745.0 CMS
Min	12.3	2.9	39.0	77.0	205.1	247.6	83.4	49.6	24.3	14.6	12.3	18.9	2.9 CMS
Runoff	39.78	92.28	274.13	622.85	2066.01	948.75	410.47	165.46	121.78	53.86	62.63	59.47	4917.47 MCM

Momentary Peak 1765.01 CMS, at 199.46 M (MSL), at 12.00 Hours, on Aug 1, 1994
Runoff Yield 33.83 Liters/Second/Square KM, Momentary Peak Yield 382.95 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

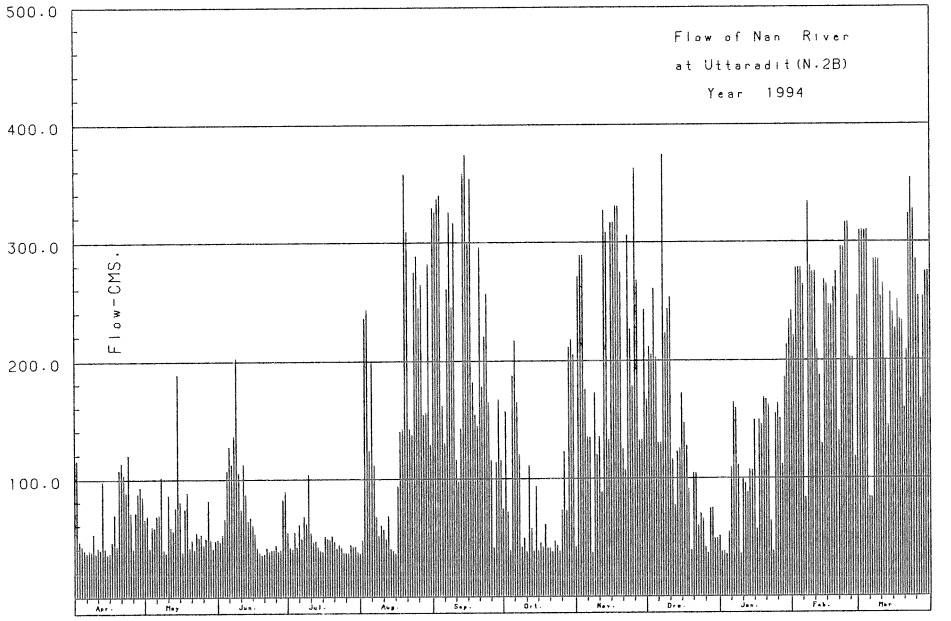
Nan River at Ban Mon Mai, Uttaradit (N.2B)

Location	Lat. 17°-36'-30" N., Long. 100°-06'-08" E., on right bank at the bridge on Uttaradit-Nam Pat road, Tambon Ban Ko, Amphoe Muang, Uttaradit.
Drainage Area	16,865 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+52.66m.(M.S.L.)
Bench Mark	B,M,-H.D.
Location	On left bank behind the automatic gage building.
Elevation	+62.517 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	1975-1981, 1983
Rated by Float	-
Rated by Current Meter	1975-1981, 1983
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Sirikit Dam reservoir. Stage-discharge relation defined by average rating curve made during 1978-1981.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.36	53.92	53.54	53.44	53.56	55.75	54.70	55.44	55.08	53.36	55.14	55.66	
2	53.54	53.43	53.65	53.41	55.24	55.81	53.96	55.54	55.04	53.36	55.48	55.66	
3	53.47	53.80	53.89	53.70	55.28	55.83	53.38	55.54	55.38	53.32	55.48	55.66	
4	53.39	53.78	54.28	53.45	54.43	54.74	54.92	54.84	55.02	53.70	55.48	55.66	
5	53.35	53.92	54.46	53.82	55.00	54.48	55.12	54.52	54.48	54.30	55.40	54.08	
6	53.39	53.93	54.33	53.59	54.32	55.38	54.76	54.52	54.48	54.76	54.08	54.08	
7	53.38	54.24	54.53	53.91	53.91	55.75	54.40	53.35	56.00	54.72	55.80	55.52	
8	53.68	53.40	55.02	53.83	53.64	55.29	53.44	54.82	55.16	54.32	55.49	55.52	
9	53.34	53.35	54.27	54.26	53.81	55.70	53.60	54.40	55.28	53.32	55.46	55.52	
10	53.43	54.10	53.99	53.70	53.74	54.36	53.37	54.52	55.34	54.22	55.46	55.34	
11	53.40	53.78	54.33	53.53	53.58	54.20	54.32	54.12	54.36	54.18	55.06	55.40	
12	54.20	53.73	54.11	53.55	53.92	54.58	53.76	55.76	54.02	54.12	54.92	55.00	
13	53.42	54.01	53.86	53.45	53.42	55.92	53.38	55.65	54.42	54.28	54.47	54.60	
14	53.33	54.93	53.90	53.39	53.38	56.00	54.16	54.50	54.44	54.28	55.42	55.36	
15	53.34	54.05	53.82	53.36	53.34	55.60	53.38	55.70	54.82	54.64	55.40	55.26	
16	53.54	53.36	53.67	53.63	54.17	55.90	53.52	55.70	54.62	53.74	55.30	55.18	
17	53.94	54.00	53.44	53.59	54.56	54.88	53.44	55.78	54.46	54.64	55.30	55.32	
18	53.46	54.12	53.35	53.57	54.58	54.68	53.82	55.78	54.14	54.61	55.38	55.23	
19	54.29	53.43	53.32	53.64	55.92	54.60	53.43	55.46	53.39	54.79	55.46	55.22	
20	54.34	53.57	53.33	53.54	55.66	55.58	53.42	54.44	54.26	54.78	54.56	54.72	
21	54.25	53.41	53.44	53.43	54.58	54.86	53.37	54.28	54.26	54.74	55.58	55.06	
22	54.12	53.69	53.37	53.48	54.54	55.14	53.54	55.64	53.80	53.86	55.58	55.74	
23	54.40	53.61	53.40	53.44	55.46	55.36	53.47	55.18	53.94	53.37	55.70	55.90	
24	53.95	53.66	53.40	53.35	55.54	54.76	53.37	54.86	53.88	54.68	55.70	55.76	
25	53.41	53.48	53.48	53.35	55.29	54.36	53.98	55.94	53.44	54.75	55.02	55.52	
26	53.96	53.60	53.38	53.34	55.40	53.44	54.42	55.42	53.33	54.65	55.02	55.34	
27	54.11	54.06	53.40	53.49	54.68	54.34	53.98	54.50	54.00	54.32	54.38	54.78	
28	54.16	53.57	54.07	53.45	54.69	54.78	55.08	54.50	54.00	54.91	55.34	55.34	
29	54.09	53.43	54.13	53.46	55.50	54.36	55.12	55.28	53.58	55.09		55.46	
30	53.88	53.55	53.70	53.36	54.47	54.00	55.04	54.78	53.58	55.23		55.46	
31		53.57		53.34	55.77		53.44		53.62	55.27		55.38	
Mean	53.76	53.76	53.83	53.54	54.56	55.01	53.97	55.03	54.37	54.33	55.24	55.28	
Max	54.40	54.93	55.02	54.26	55.92	56.00	55.12	55.94	56.00	55.27	55.80	55.90	56.00
Min	53.33	53.35	53.32	53.34	53.34	53.44	53.37	53.35	53.33	53.32	54.08	54.08	53.32

Annual Max Momentary Gage Height 57.10 M (MSL), at 9.00 Hours, on Feb 7, 1994
Zero Gage at Bottom Elevation 52.30 M (MSL), River Bed 51.91 M (MSL)
Left Bank Elevation 60.87 M (MSL)
Right Bank Elevation 62.24 M (MSL), Drainage Area 16865 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.4	69.0	47.0	42.0	48.0	326.3	157.5	272.0	212.0	38.0	221.0	310.5	
2	47.0	41.5	52.5	40.5	237.0	337.0	72.0	289.5	206.0	38.0	279.0	310.5	
3	43.5	60.0	66.7	55.0	244.0	341.0	39.0	289.5	261.5	36.0	279.0	310.5	
4	39.5	59.0	107.2	42.5	124.6	162.5	188.0	176.0	203.0	55.0	279.0	310.5	
5	37.5	69.0	128.2	61.5	200.0	130.6	218.0	135.4	130.6	109.5	265.0	84.2	
6	39.5	69.8	113.0	49.5	111.8	261.5	165.0	135.4	130.6	165.0	84.2	84.2	
7	39.0	102.6	136.6	68.3	68.3	326.3	121.0	37.5	375.0	160.0	335.0	286.0	
8	54.0	40.0	203.0	62.3	52.0	245.8	42.0	173.0	224.0	111.8	280.8	286.0	
9	37.0	37.5	106.0	104.9	60.8	317.5	50.0	121.0	244.0	36.0	275.5	286.0	
10	41.5	86.5	74.3	55.0	57.0	116.4	38.5	135.4	254.5	100.3	275.5	254.5	
11	40.0	59.0	113.0	46.5	49.0	98.0	111.8	88.8	116.4	95.7	209.0	265.0	
12	98.0	56.5	87.7	47.5	69.0	142.6	58.0	328.0	77.3	88.8	188.0	200.0	
13	41.0	76.1	64.5	42.5	41.0	359.0	39.0	308.8	123.4	107.2	129.4	145.0	
14	36.5	189.5	67.5	39.5	39.0	375.0	93.4	133.0	125.8	107.2	268.5	258.0	
15	37.0	80.7	61.5	38.0	37.0	300.0	39.0	317.5	173.0	150.0	265.0	240.5	
16	47.0	38.0	53.5	51.5	94.5	355.0	46.0	317.5	147.5	57.0	247.5	227.0	
17	70.5	75.0	42.0	49.5	140.2	182.0	42.0	331.5	128.2	150.0	247.5	251.0	
18	43.0	88.8	37.5	48.5	142.6	155.0	61.5	331.5	91.1	146.3	261.5	235.2	
19	108.3	41.5	36.0	52.0	359.0	145.0	41.5	275.5	39.5	168.8	275.5	233.5	
20	114.1	48.5	36.5	47.0	310.5	296.5	41.0	125.8	104.9	167.5	140.2	160.0	
21	103.7	40.5	42.0	41.5	142.6	179.0	38.5	107.2	104.9	162.5	296.5	209.0	
22	88.8	54.5	38.5	44.0	137.8	221.0	47.0	307.0	60.0	64.5	296.5	324.5	
23	121.0	50.5	40.0	42.0	275.5	258.0	43.5	227.0	70.5	38.5	317.5	355.0	
24	71.3	53.0	40.0	37.5	289.5	165.0	38.5	179.0	66.0	155.0	317.5	328.0	
25	40.5	44.0	44.0	37.5	245.8	116.4	73.5	363.0	42.0	163.8	203.0	286.0	
26	72.0	50.0	39.0	37.0	265.0	42.0	123.4	268.5	36.5	151.3	203.0	254.5	
27	87.7	81.9	40.0	44.5	155.0	114.1	73.5	133.0	75.0	111.8	118.7	167.5	
28	93.4	48.5	83.0	42.5	156.2	167.5	212.0	133.0	75.0	186.5	254.5	254.5	
29	85.3	41.5	90.0	43.0	282.5	116.4	218.0	244.0	49.0	213.5		275.5	
30	66.0	47.5	55.0	38.0	129.4	75.0	206.0	167.5	49.0	235.2		275.5	
31		48.5		37.0	329.8		42.0		51.0	242.2		261.5	
Total	1960.0	1948.9	2145.7	1488.5	4894.4	6427.4	2780.1	6451.8	4047.2	3812.9	6813.3	7729.6	50499.8 CMSDAY
Mean	65.3	62.9	71.5	48.0	157.9	214.2	89.7	215.1	130.6	123.0	243.3	249.3	138.4 CMS
Max	121.0	189.5	203.0	104.9	359.0	375.0	218.0	363.0	375.0	242.2	335.0	355.0	375.0 CMS
Min	36.5	37.5	36.0	37.0	37.0	42.0	38.5	37.5	36.5	36.0	84.2	84.2	36.0 CMS
Runoff	169.34	168.38	185.39	128.61	422.88	555.33	240.20	557.44	349.68	329.43	588.67	667.84	4363.18 MCM

Momentary Peak 667.50 CMS, at 57.10 M (MSL), at 9.00 Hours, on Feb 7, 1994

Runoff Yield 8.20 Liters/Second/Square KM, Momentary Peak Yield 39.58 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

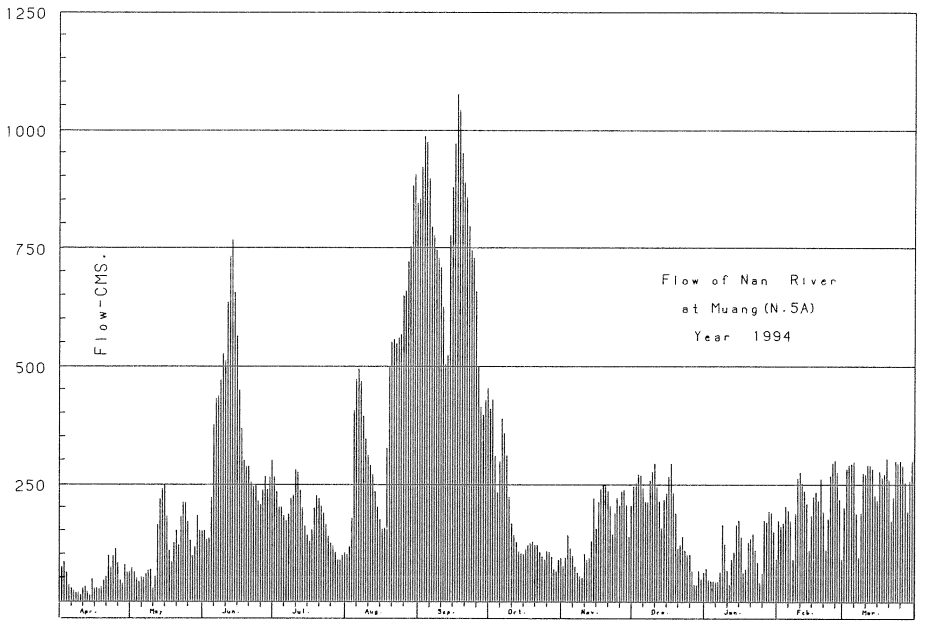
Nan River at Muang, Phitsanulok (N.5A)

Location	Lat. 16°-49'-15" N., Long. 100°-15'-49" E., on left bank near the post office and about 1 kilometer upstream from gaging station N.5, Amphoe Muang, Phitsanulok.
Drainage Area	25,286 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+34.50 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near automatic gage building.
Elevation	+45.856 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1963 to date.
Rating Operation	
Period of Rating	1966 to date.
Rated by Float	-
Rated by Current Meter	1966 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 18 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.66	35.63	36.59	37.73	36.03	41.98	38.94	35.69	37.54	35.63	36.81	37.10	
2	35.81	35.54	36.38	37.45	36.22	42.38	39.10	35.93	37.62	35.27	36.68	37.89	
3	35.52	35.33	36.42	37.12	36.88	42.77	38.12	36.49	37.78	35.25	36.77	37.95	
4	35.08	35.23	37.33	37.12	38.92	42.69	37.43	36.18	37.77	35.23	37.15	37.98	
5	34.98	35.39	38.67	36.93	39.43	42.24	38.03	35.98	37.51	35.20	37.04	38.01	
6	34.85	35.35	39.13	36.83	39.60	41.62	38.79	35.68	37.24	35.22	36.81	36.97	
7	34.78	35.48	39.16	36.97	39.40	41.50	38.53	35.52	37.22	35.52	35.89	35.95	
8	34.77	35.56	39.42	37.31	38.83	41.31	38.14	35.41	37.67	36.73	36.98	37.00	
9	34.69	35.61	39.84	37.37	38.44	41.19	37.33	35.36	37.83	36.27	37.70	37.80	
10	34.95	34.95	39.72	37.88	38.13	41.07	36.76	36.04	37.99	35.58	37.83	37.79	
11	35.03	35.39	40.58	37.82	37.95	40.51	36.48	35.86	37.53	35.12	37.62	37.96	
12	34.80	36.73	41.22	37.48	37.78	39.66	36.33	35.93	37.25	35.87	37.45	37.94	
13	34.66	37.30	41.44	37.10	37.45	39.81	36.09	36.34	36.65	36.08	37.20	37.89	
14	35.32	37.50	40.73	36.70	37.12	41.50	36.04	37.30	37.27	36.71	36.12	37.37	
15	34.95	37.57	40.11	36.49	36.85	42.13	36.03	36.65	37.41	36.83	36.94	37.26	
16	34.95	36.91	39.27	36.34	36.62	42.67	36.16	37.24	37.73	36.44	37.33	37.83	
17	34.94	36.12	38.61	36.61	36.66	43.29	36.24	37.49	37.99	35.51	37.44	37.72	
18	35.01	35.81	38.05	37.10	38.27	43.09	36.30	37.58	37.41	35.60	37.25	37.78	
19	35.27	36.30	37.93	37.36	39.63	42.56	36.33	37.58	36.99	36.32	37.69	38.08	
20	35.38	36.60	37.94	37.31	40.01	42.18	36.25	37.46	36.16	36.40	37.01	37.67	
21	36.00	36.24	37.64	37.14	40.05	41.99	36.26	37.14	36.25	36.52	36.14	36.82	
22	35.65	36.91	37.55	36.99	39.99	41.63	36.09	36.50	36.46	36.12	36.86	37.32	
23	35.97	37.22	37.57	36.73	40.08	41.30	35.96	36.99	36.13	35.81	37.76	38.03	
24	36.16	37.21	37.25	36.46	40.12	41.19	35.89	37.32	36.00	35.18	37.99	37.98	
25	35.77	36.79	37.18	36.31	40.68	40.74	36.10	37.16	36.03	35.50	38.05	38.03	
26	35.27	36.37	37.47	36.23	40.74	39.64	36.08	37.45	35.56	36.82	37.82	37.94	
27	35.13	35.99	37.75	36.08	41.15	38.97	35.97	37.47	35.11	36.79	37.29	37.63	
28	35.73	36.20	37.49	35.88	41.35	38.85	35.60	37.16	35.07	37.02	35.89	37.02	
29	35.52	36.94	37.74	35.86	42.15	39.10	35.55	36.46	35.55	37.00		37.65	
30	35.52	36.59	38.04	35.99	42.29	39.29	35.86	37.16	35.32	36.57		38.04	
31		36.59		36.06	41.92		35.93		35.51	35.89		38.16	
Mean	35.27	36.24	38.47	36.86	39.06	41.29	36.73	36.62	36.82	36.00	37.13	37.63	
Max	36.16	37.57	41.44	37.88	42.29	43.29	39.10	37.58	37.99	37.02	38.05	38.16	43.29
Min	34.66	34.95	36.38	35.86	36.03	38.85	35.55	35.36	35.07	35.12	35.89	35.95	34.66

Annual Max Momentary Gage Height 43.30 M (MSL), at 15.00 Hours, on Sep 17, 1994
Zero Gage at Bottom Elevation 34.50 M (MSL), River Bed 33.17 M (MSL)
Left Bank Elevation 44.93 M (MSL)
Right Bank Elevation 44.41 M (MSL), Drainage Area 25286 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	73.5	71.3	151.1	265.3	101.5	855.7	409.5	75.7	244.7	71.3	172.0	199.5	
2	84.8	64.5	132.2	235.3	117.8	921.7	429.5	93.8	253.2	46.2	159.6	283.3	
3	63.0	49.8	135.8	201.4	178.6	987.9	309.8	142.1	270.8	45.0	168.2	290.3	
4	35.4	43.8	222.7	201.4	407.0	974.3	233.2	114.3	269.7	43.8	204.3	293.7	
5	30.0	53.4	375.7	183.4	473.1	898.6	299.4	97.5	241.5	42.0	193.8	297.1	
6	23.5	51.0	433.3	173.9	496.0	796.3	390.8	75.0	213.2	43.2	172.0	187.2	
7	20.0	60.0	437.0	187.2	469.0	777.5	358.6	63.0	211.1	63.0	90.7	95.3	
8	19.5	66.0	471.7	220.6	395.8	748.1	312.1	54.7	258.7	164.4	188.1	190.0	
9	15.5	69.7	528.6	226.8	347.8	729.4	222.7	51.6	276.5	122.3	262.0	273.0	
10	28.5	28.5	512.2	282.2	311.0	710.9	167.2	102.4	294.9	67.5	276.5	271.9	
11	32.6	53.4	636.0	275.3	290.3	625.5	141.2	88.5	243.6	37.6	253.2	291.4	
12	21.0	164.4	734.1	238.4	270.8	504.1	127.7	93.8	214.2	89.2	235.3	289.1	
13	14.0	219.5	768.2	199.5	235.3	524.4	106.6	128.6	156.8	105.8	209.0	283.3	
14	49.2	240.5	658.5	161.5	201.4	777.5	102.4	219.5	216.4	162.5	109.2	226.8	
15	28.5	247.9	566.4	142.1	175.7	880.5	101.5	156.8	231.1	173.9	184.3	215.3	
16	28.5	181.5	451.4	128.6	153.9	970.9	112.6	213.2	265.3	137.6	222.7	276.5	
17	28.0	109.2	368.3	153.0	157.7	1076.3	119.6	239.5	294.9	62.2	234.2	264.2	
18	31.5	84.8	301.7	199.5	327.4	1042.3	125.0	248.9	231.1	69.0	214.2	270.8	
19	46.2	125.0	288.0	225.8	500.1	952.2	127.7	248.9	189.1	126.8	260.9	305.2	
20	52.8	152.0	289.1	220.6	552.4	888.7	120.5	236.3	112.6	134.0	190.9	258.7	
21	99.0	119.6	255.4	203.3	558.0	857.4	121.4	203.3	120.5	144.8	110.9	172.9	
22	72.8	181.5	245.8	189.1	549.6	798.0	106.6	143.0	139.4	109.2	176.7	221.6	
23	96.8	211.1	247.9	164.4	562.2	746.5	96.0	189.1	110.1	84.8	268.6	299.4	
24	112.6	210.0	214.2	139.4	567.8	729.4	90.7	221.6	99.0	40.9	294.9	293.7	
25	81.7	170.1	207.1	125.9	651.0	660.0	107.5	205.2	101.5	61.5	301.7	299.4	
26	46.2	131.3	237.4	118.7	660.0	501.4	105.8	235.3	66.0	172.9	275.3	289.1	
27	38.2	98.3	267.5	105.8	723.3	413.3	96.8	237.4	37.1	170.1	218.5	254.3	
28	78.7	116.0	239.5	90.0	754.2	398.2	69.0	205.2	34.8	191.9	90.7	191.9	
29	63.0	184.3	266.4	88.5	883.8	429.5	65.2	139.4	65.2	190.0		256.5	
30	63.0	151.1	300.6	98.3	906.8	454.2	88.5	205.2	49.2	149.3		300.6	
31		151.1		104.1	845.8		93.8		62.2	90.7		314.4	
Total	1478.0	3860.6	10943.8	5549.3	13825.1	22630.7	5358.9	4728.8	5574.4	3213.4	5738.4	7956.4	90857.8 CMSDAY
Mean	49.3	124.5	364.8	179.0	446.0	754.4	172.9	157.6	179.8	103.7	204.9	256.7	248.9 CMS
Max	112.6	247.9	768.2	282.2	906.8	1076.3	429.5	248.9	294.9	191.9	301.7	314.4	1076.3 CMS
Min	14.0	28.5	132.2	88.5	101.5	398.2	65.2	51.6	34.8	37.6	90.7	95.3	14.0 CMS
Runoff	127.70	333.56	945.54	479.46	1194.49	1955.29	463.01	408.57	481.63	277.64	495.80	687.43	7850.11 MCM

Momentary Peak 1078.00 CMS, at 43.30 M (MSL), at 15.00 Hours, on Sep 17, 1994

Runoff Yield 9.84 Liters/Second/Square KM, Momentary Peak Yield 42.63 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

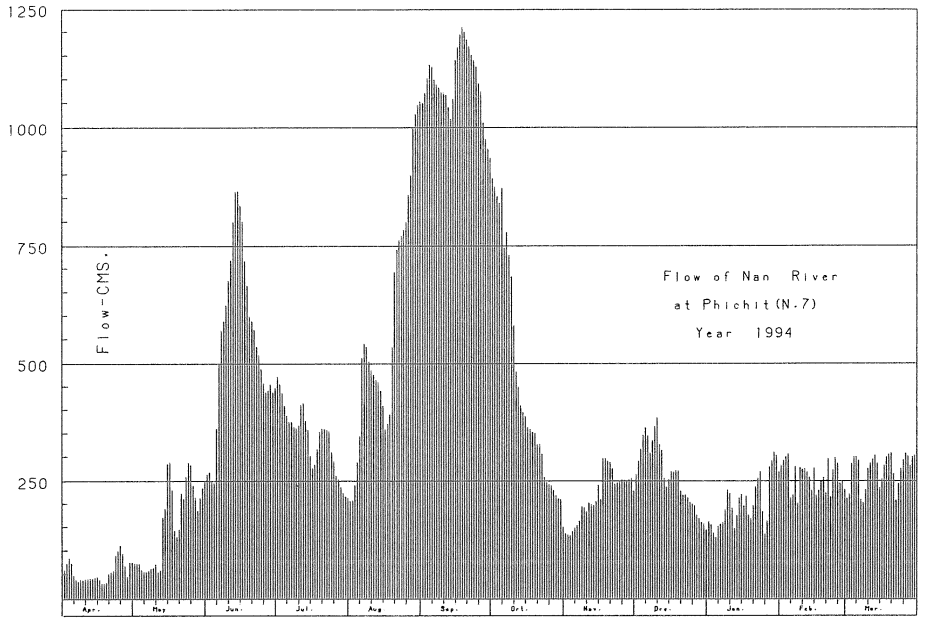
Nan River at Muang, Phichit (N.7)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 20 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.98	27.20	29.53	31.48	28.92	35.74	34.65	28.10	29.54	28.40	29.74	29.00	
2	27.21	27.21	29.59	31.35	28.94	35.87	34.52	28.05	29.83	28.33	29.84	29.09	
3	27.36	27.19	29.38	31.18	29.29	36.09	34.38	28.05	30.10	28.10	29.93	29.78	
4	27.22	27.01	29.35	30.95	29.80	36.27	34.27	28.14	30.38	28.00	29.98	29.92	
5	26.79	26.92	30.52	30.76	30.36	36.25	34.51	28.25	30.54	28.27	29.00	29.92	
6	26.65	26.94	31.71	30.64	31.80	36.06	33.59	28.30	30.37	28.35	29.08	29.85	
7	26.59	26.97	32.26	30.65	32.05	36.00	33.83	28.43	30.00	28.38	29.71	28.96	
8	26.65	27.03	32.42	30.55	31.99	35.95	33.47	28.80	30.28	28.73	28.89	28.90	
9	26.64	27.07	32.67	30.51	31.75	35.89	33.14	28.77	30.55	29.20	29.69	29.21	
10	26.66	27.17	33.07	30.58	31.59	35.88	32.35	28.68	30.73	29.12	29.66	29.67	
11	26.68	26.93	33.39	30.96	31.51	35.85	31.57	28.90	30.19	28.76	29.66	29.78	
12	26.69	26.97	33.99	31.00	31.43	35.68	31.31	28.85	30.07	28.23	29.59	29.88	
13	26.70	28.52	34.44	30.66	31.38	35.51	30.95	28.84	29.45	28.57	29.47	29.95	
14	26.71	28.74	34.46	30.48	31.23	35.80	30.84	28.92	29.27	29.00	29.19	29.79	
15	26.76	29.77	34.24	29.94	30.95	36.34	30.75	29.30	29.43	29.08	29.67	29.24	
16	26.64	29.80	33.99	29.67	30.49	36.51	30.55	28.98	29.60	28.83	29.06	29.43	
17	26.51	29.20	33.39	29.74	30.61	36.69	30.50	29.90	29.60	29.05	29.19	29.73	
18	26.50	28.16	33.00	30.08	30.78	36.78	30.45	29.88	29.62	28.59	29.37	29.93	
19	26.55	28.01	32.49	30.45	31.99	36.72	30.42	29.84	29.62	28.48	29.46	29.97	
20	26.85	28.19	32.42	30.51	33.20	36.62	30.20	29.80	29.17	28.82	29.12	30.00	
21	26.92	29.11	32.27	30.51	33.56	36.52	30.20	29.67	29.08	29.27	29.89	29.56	
22	26.96	28.99	32.00	30.49	33.70	36.41	29.99	29.32	29.08	29.46	29.04	28.95	
23	27.46	29.48	31.85	30.45	33.78	36.33	29.47	29.36	29.02	29.60	29.64	29.34	
24	27.58	29.79	31.62	30.02	33.86	36.25	29.37	29.39	28.90	28.68	29.90	29.66	
25	27.76	29.75	31.37	29.81	33.99	36.02	29.33	29.43	28.87	28.09	29.79	29.86	
26	27.49	29.30	31.20	29.50	34.39	35.90	29.29	29.41	28.82	28.42	29.35	30.00	
27	27.13	29.01	31.23	29.43	34.69	35.46	29.20	29.41	28.59	29.71	29.37	29.93	
28	26.75	28.70	31.34	29.26	35.37	35.21	29.06	29.42	28.48	29.83	29.20	29.74	
29	27.23	29.00	31.20	29.12	35.58	35.08	29.00	29.45	28.40	30.03		29.92	
30	27.25	29.24	31.27	29.04	35.70	34.94	28.97	29.18	28.34	29.95		29.96	
31		29.39		29.00	35.75		28.26		28.19	29.59		30.00	
Mean	26.93	28.28	32.06	30.28	32.27	36.02	31.24	29.03	29.49	28.87	29.48	29.64	
Max	27.76	29.80	34.46	31.48	35.75	36.78	34.65	29.90	30.73	30.03	29.98	30.00	36.78
Min	26.50	26.92	29.35	29.00	28.92	34.94	28.26	28.05	28.19	28.00	28.89	28.90	26.50

Annual Max Momentary Gage Height 36.78 M (MSL), at 6.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 26.00 M (MSL), River Bed 24.86 M (MSL)
Left Bank Elevation 36.83 M (MSL)
Right Bank Elevation 37.30 M (MSL), Drainage Area 29153 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	60.8	75.0	264.0	471.6	206.8	1052.0	893.3	140.0	265.0	164.0	284.4	214.0	
2	75.7	75.7	269.8	456.3	208.6	1071.5	874.8	136.0	293.1	158.4	294.1	222.1	
3	86.2	74.3	249.5	436.7	240.7	1104.5	855.2	136.0	319.3	140.0	302.8	288.3	
4	76.4	62.7	246.5	410.3	290.2	1131.9	839.8	143.2	347.9	132.0	307.7	301.8	
5	49.4	57.2	362.6	388.6	345.8	1128.7	873.4	152.0	364.7	153.6	214.0	301.8	
6	41.0	58.4	499.7	375.4	511.0	1100.0	745.7	156.0	346.9	160.0	221.2	295.0	
7	37.4	60.2	569.8	376.5	542.5	1091.0	778.2	166.4	309.6	162.4	281.5	210.4	
8	41.0	64.0	590.6	365.7	534.7	1083.5	729.5	196.0	337.4	190.4	204.1	205.0	
9	40.4	66.5	623.1	361.5	504.7	1074.5	684.9	193.6	365.7	232.0	279.5	233.0	
10	41.6	73.0	675.4	368.9	484.8	1073.0	581.5	186.4	385.3	224.8	276.6	277.6	
11	42.8	57.8	718.6	411.4	475.2	1068.5	482.4	205.0	328.0	192.8	276.6	288.3	
12	43.4	60.2	800.6	416.0	465.6	1043.0	451.6	200.5	316.4	150.4	269.8	298.0	
13	44.0	173.6	863.6	377.6	459.7	1018.0	410.3	199.6	256.2	177.6	258.2	304.7	
14	44.6	191.2	866.4	358.4	442.5	1061.0	397.6	206.8	238.8	214.0	231.1	289.2	
15	47.6	287.3	835.6	303.8	410.3	1142.7	387.5	241.7	254.3	221.2	277.6	235.9	
16	40.4	290.2	800.6	277.6	359.4	1169.0	365.7	212.2	270.8	198.7	219.4	254.3	
17	33.1	232.0	718.6	284.4	372.1	1196.9	360.5	299.9	270.8	218.5	231.1	283.4	
18	32.5	144.8	666.0	317.4	390.8	1210.9	355.3	298.0	272.7	179.2	248.5	302.8	
19	35.2	132.8	599.7	355.3	534.7	1201.6	352.1	294.1	272.7	170.4	257.2	306.7	
20	53.0	147.2	590.6	361.5	693.0	1186.1	329.0	290.2	229.3	197.8	224.8	309.6	
21	57.2	223.9	571.1	361.5	741.6	1170.6	329.0	277.6	221.2	238.8	298.9	266.9	
22	59.6	213.1	536.0	359.4	760.5	1153.5	308.6	243.6	221.2	257.2	217.6	209.5	
23	93.2	259.2	517.3	355.3	771.3	1141.2	258.2	247.5	215.8	270.8	274.7	245.6	
24	101.6	289.2	488.5	311.5	782.4	1128.7	248.5	250.4	205.0	186.4	299.9	276.6	
25	114.2	285.3	458.6	291.2	800.6	1094.0	244.6	254.3	202.3	139.2	289.2	296.0	
26	95.3	241.7	439.0	261.1	856.6	1076.0	240.7	252.4	197.8	165.6	246.5	309.6	
27	70.4	214.9	442.5	254.3	899.1	1010.7	232.0	252.4	179.2	281.5	248.5	302.8	
28	47.0	188.0	455.1	237.8	997.7	974.5	219.4	253.3	170.4	293.1	232.0	284.4	
29	77.1	214.0	439.0	224.8	1028.1	955.6	214.0	256.2	164.0	312.5		301.8	
30	78.5	235.9	447.1	217.6	1046.0	935.3	211.3	230.2	159.2	304.7		305.7	
31		250.4		214.0	1053.5		152.8		147.2	269.8		309.6	
Total	1760.6	4999.7	16605.5	10563.4	18210.5	32848.4	14407.4	6571.5	8128.2	6357.8	7267.5	8530.4	136250.9 CMSDAY
Mean	58.7	161.3	553.5	340.8	587.4	1094.9	464.8	219.0	262.2	205.1	259.6	275.2	373.3 CMS
Max	114.2	290.2	866.4	471.6	1053.5	1210.9	893.3	299.9	385.3	312.5	307.7	309.6	1210.9 CMS
Min	32.5	57.2	246.5	214.0	206.8	935.3	152.8	136.0	147.2	132.0	204.1	205.0	32.5 CMS
Runoff	152.12	431.97	1434.72	912.68	1573.39	2838.10	1244.80	567.78	702.28	549.31	627.91	737.03	11772.08 MCM

Momentary Peak 1210.90 CMS, at 36.78 M (MSL), at 6.00 Hours, on Sep 18, 1994

Runoff Yield 12.80 Liters/Second/Square KM, Momentary Peak Yield 41.54 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

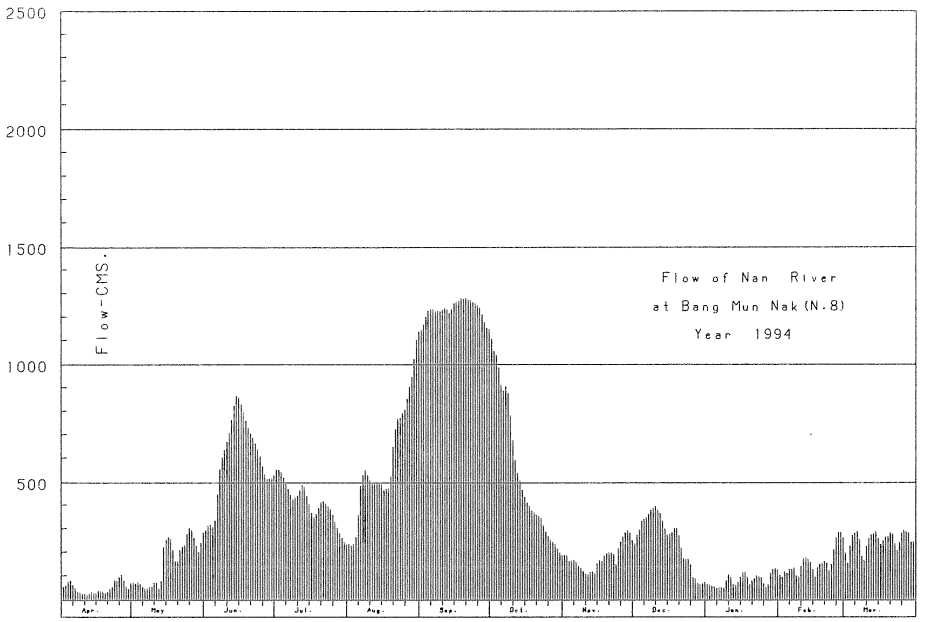
Nan River at Bang Mun Nak, Phichit (N.8)

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	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 26 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.85	21.18	24.20	26.58	23.48	30.04	29.90	24.00	23.52	21.72	22.49	23.05	
2	21.04	21.17	24.38	26.60	23.42	30.10	29.71	23.96	23.95	21.61	22.39	22.46	
3	21.23	21.20	24.42	26.49	23.48	30.21	29.64	23.63	24.23	21.51	22.81	23.43	
4	21.35	21.13	24.32	26.32	23.85	30.28	29.43	23.62	24.59	21.37	22.73	23.91	
5	21.06	20.88	24.62	26.08	24.87	30.31	29.10	23.68	24.70	21.26	23.00	24.06	
6	20.73	20.70	25.70	25.90	26.00	30.30	28.98	23.52	24.74	21.28	23.08	24.12	
7	20.47	20.78	26.60	25.66	26.41	30.28	29.08	23.29	24.92	21.25	23.12	23.75	
8	20.32	20.85	27.02	25.50	26.56	30.28	29.04	23.12	25.07	21.27	22.52	22.88	
9	20.21	20.94	27.26	25.55	26.41	30.28	28.83	22.87	25.17	22.09	22.36	22.60	
10	20.19	21.17	27.55	25.64	26.21	30.29	28.41	22.60	25.22	22.59	23.28	23.41	
11	20.12	21.18	27.84	25.84	26.08	30.32	28.00	22.59	25.10	22.31	23.79	23.81	
12	20.26	20.76	28.23	26.04	26.09	30.30	27.66	22.77	24.92	21.71	23.82	23.96	
13	20.41	21.32	28.63	25.95	26.15	30.26	27.42	22.79	24.63	21.54	23.70	24.04	
14	20.30	23.31	28.86	25.63	26.10	30.30	27.11	22.70	24.25	21.93	23.55	24.10	
15	20.23	23.74	28.83	25.29	26.05	30.39	26.85	23.45	23.97	22.35	23.00	23.81	
16	20.59	23.86	28.67	24.94	25.85	30.40	26.67	23.63	23.99	22.76	22.41	23.47	
17	20.48	23.75	28.46	24.75	25.91	30.42	26.52	23.61	24.11	22.86	23.12	23.69	
18	20.39	23.20	28.21	24.89	25.90	30.44	26.34	23.93	24.27	22.37	23.42	23.84	
19	20.36	22.57	27.99	25.16	26.36	30.44	26.24	24.12	24.30	21.72	23.45	23.89	
20	20.45	22.52	27.82	25.37	27.37	30.44	26.16	24.15	23.92	22.00	23.57	24.05	
21	20.66	23.17	27.67	25.43	27.96	30.43	26.08	24.15	23.33	22.27	23.50	24.02	
22	20.90	23.36	27.50	25.33	28.25	30.42	26.02	24.01	22.72	22.47	22.94	23.50	
23	21.39	23.42	27.29	25.23	28.30	30.40	25.66	23.40	22.71	22.44	22.37	23.21	
24	21.32	24.01	27.06	25.10	28.42	30.38	25.38	23.27	22.70	22.30	23.25	23.56	
25	21.59	24.30	26.72	24.88	28.53	30.36	25.14	23.62	22.40	21.78	23.85	24.08	
26	21.71	24.18	26.42	24.55	28.81	30.32	24.92	23.86	22.34	21.31	24.09	24.16	
27	21.36	23.82	26.26	24.31	29.06	30.24	24.81	24.08	22.20	21.68	24.08	24.15	
28	20.91	23.40	26.27	24.04	29.26	30.13	24.67	24.16	21.77	22.73	23.83	24.03	
29	20.74	23.11	26.29	23.82	29.57	30.06	24.42	24.08	21.60	22.99		23.62	
30	21.13	23.53	26.38	23.61	29.89	30.04	24.15	23.68	21.74	23.11		23.59	
31		24.04		23.47	30.01		23.95		21.86	22.97		23.98	
Mean	20.76	22.47	26.92	25.29	26.79	30.30	26.98	23.54	23.71	22.05	23.20	23.68	
Max	21.71	24.30	28.86	26.60	30.01	30.44	29.90	24.16	25.22	23.11	24.09	24.16	30.44
Min	20.12	20.70	24.20	23.47	23.42	30.04	23.95	22.59	21.60	21.25	22.36	22.46	20.12

Annual Max Momentary Gage Height 30.44 M (MSL), at 6.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 19.80 M (MSL), River Bed 17.46 M (MSL)
Left Bank Elevation 30.47 M (MSL)
Right Bank Elevation 30.58 M (MSL), Drainage Area 32878 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.5	72.8	298.0	553.2	236.8	1150.0	1109.5	192.0	240.2	69.8	104.5	201.0	
2	64.4	72.2	315.1	555.7	231.7	1169.5	1058.6	189.4	276.7	65.4	99.5	157.2	
3	75.8	74.0	318.9	542.1	236.8	1205.2	1040.4	167.9	300.8	61.4	120.5	232.5	
4	83.0	69.8	309.4	521.8	268.2	1228.0	988.4	167.3	335.0	56.0	116.5	273.3	
5	65.6	56.0	338.0	494.2	363.0	1237.7	914.0	171.2	346.0	52.1	130.0	286.1	
6	48.5	47.0	451.0	473.5	485.0	1234.5	889.2	160.8	350.0	52.8	134.4	291.2	
7	36.8	51.0	555.7	446.6	532.2	1228.0	909.8	146.4	368.0	51.8	136.6	259.7	
8	31.2	54.5	607.5	429.0	550.7	1228.0	880.4	136.6	383.0	52.5	106.0	188.0	
9	27.3	59.0	637.5	434.5	532.2	1228.0	783.8	123.5	393.0	85.0	98.0	167.0	
10	26.7	72.2	674.5	444.4	509.1	1231.3	679.2	110.0	398.2	109.5	145.8	230.8	
11	24.2	72.8	712.2	466.6	494.2	1241.0	594.0	109.5	386.0	95.5	178.4	264.8	
12	29.1	50.0	765.3	489.6	495.4	1234.5	541.3	118.5	368.0	69.4	180.3	277.6	
13	34.4	81.2	826.1	479.3	502.3	1221.5	506.8	119.5	339.0	62.6	172.5	284.4	
14	30.5	222.3	866.4	443.3	496.5	1234.5	469.2	115.0	302.7	78.2	162.7	289.5	
15	28.0	258.9	860.7	405.9	490.7	1263.7	438.0	156.3	278.4	97.5	130.0	264.8	
16	41.6	269.1	832.9	370.0	467.8	1267.0	416.4	167.9	280.1	118.0	100.5	235.9	
17	37.2	259.7	799.3	351.0	474.7	1274.2	400.0	166.7	290.3	123.0	136.6	254.6	
18	33.6	213.0	762.4	365.0	473.5	1281.4	382.0	187.5	304.6	98.5	154.3	267.4	
19	32.6	164.9	731.7	392.0	526.4	1281.4	372.0	199.8	307.5	69.8	156.3	271.6	
20	36.0	161.4	709.6	414.7	651.3	1281.4	364.0	201.8	274.2	81.0	164.1	285.2	
21	45.0	210.6	690.1	421.3	727.8	1277.8	356.0	201.8	224.0	93.5	159.5	282.7	
22	57.0	226.6	668.0	410.3	768.2	1274.2	350.0	192.7	176.0	103.5	127.0	238.5	
23	85.4	231.7	641.3	399.3	775.5	1267.0	317.4	153.0	175.2	102.0	150.9	213.8	
24	81.2	281.8	612.5	386.0	793.1	1260.5	293.3	218.9	174.5	95.0	217.2	243.6	
25	98.4	307.5	570.5	364.0	810.2	1254.0	273.2	248.7	153.0	72.2	268.2	287.8	
26	106.1	296.3	533.5	331.2	856.9	1241.0	256.0	269.1	97.0	53.8	288.6	294.6	
27	83.6	265.7	514.9	308.4	905.6	1215.0	247.7	287.8	90.0	68.2	287.8	293.7	
28	57.5	230.0	516.1	284.4	948.8	1179.2	237.2	294.6	71.8	116.5	266.5	283.5	
29	49.0	205.8	518.4	265.7	1022.6	1156.5	219.4	287.8	65.0	129.5		248.7	
30	69.8	241.0	528.7	247.8	1106.8	1150.0	201.8	253.8	70.6	136.1		246.1	
31		284.4		235.9	1140.3		188.8		75.4	128.5		279.3	
Total	1574.0	5163.2	18166.2	12726.7	18874.3	36996.0	16677.8	5515.8	7894.2	2648.6	4493.2	7894.9	138624.9 CMSDAY
Mean	52.5	166.6	605.5	410.5	608.8	1233.2	538.0	183.9	254.7	85.4	160.5	254.7	379.8 CMS
Max	106.1	307.5	866.4	555.7	1140.3	1281.4	1109.5	294.6	398.2	136.1	288.6	294.6	1281.4 CMS
Min	24.2	47.0	298.0	235.9	231.7	1150.0	188.8	109.5	65.0	51.8	98.0	157.2	24.2 CMS
Runoff	135.99	446.10	1569.56	1099.59	1630.74	3196.45	1440.96	476.57	682.06	228.84	388.21	682.12	11977.19 MCM

Momentary Peak 1281.40 CMS, at 30.44 M (MSL), at 6.00 Hours, on Sep 18, 1994

Runoff Yield 11.55 Liters/Second/Square KM, Momentary Peak Yield 38.97 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

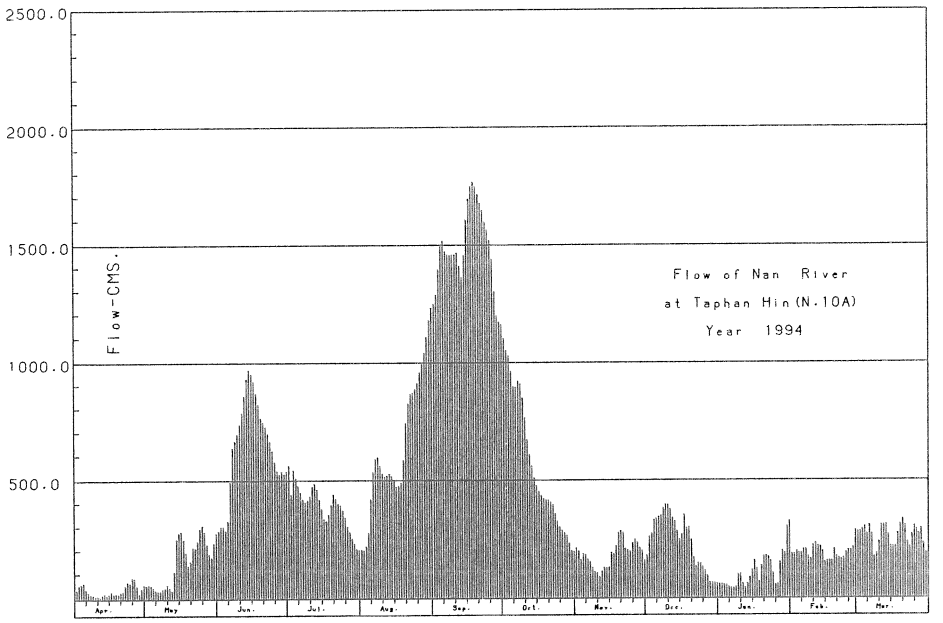
Nan River at Taphan Hin, Phichit (N.10A)

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	Staff gage.
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	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	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 23 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.71	23.02	25.74	28.02	24.93	31.90	31.40	24.98	24.65	23.07	24.72	25.70	
2	22.99	23.03	25.91	27.07	24.88	31.98	31.13	24.87	25.47	23.04	24.70	25.70	
3	23.11	23.01	25.90	27.85	25.09	32.14	30.98	24.46	25.61	23.02	24.85	25.81	
4	23.16	22.84	25.77	27.62	25.64	32.26	30.61	24.72	26.15	22.96	24.75	25.89	
5	22.78	22.64	26.14	27.37	26.92	32.29	30.22	24.71	26.22	22.87	24.77	25.60	
6	22.43	22.52	27.49	27.14	27.80	32.24	30.19	24.46	26.27	22.77	24.92	25.97	
7	22.28	22.58	28.53	26.93	28.20	32.22	30.36	24.33	26.34	22.78	24.95	25.58	
8	22.12	22.75	28.74	26.80	28.27	32.22	30.28	24.03	26.60	22.85	24.59	24.58	
9	22.07	22.84	28.92	26.89	28.00	32.22	29.92	23.83	26.70	23.69	24.50	24.72	
10	22.03	23.05	29.19	27.02	27.76	32.22	29.38	23.73	26.69	23.70	25.12	25.28	
11	21.94	22.83	29.53	27.33	27.65	32.23	28.77	23.56	26.56	23.10	25.25	25.96	
12	22.23	22.64	29.97	27.44	27.68	32.16	28.34	23.82	26.25	22.79	25.09	25.96	
13	22.30	23.89	30.42	27.24	27.76	32.09	27.98	24.05	26.09	23.11	25.08	25.99	
14	22.16	25.42	30.64	26.91	27.67	32.22	27.63	24.01	25.72	23.48	24.84	25.57	
15	22.25	25.65	30.55	26.58	27.54	32.39	27.36	24.04	25.36	23.92	24.33	25.07	
16	22.48	25.70	30.35	26.21	27.32	32.48	27.17	24.77	25.55	24.42	24.37	25.07	
17	22.30	25.40	30.05	26.14	27.36	32.53	27.04	24.72	26.37	23.98	24.41	25.08	
18	22.26	24.79	29.74	26.36	27.45	32.55	26.92	25.08	25.83	23.23	24.38	25.60	
19	22.25	24.17	29.39	26.72	28.18	32.53	26.89	25.66	25.86	24.13	24.96	26.01	
20	22.49	24.40	29.26	27.10	29.23	32.50	26.87	25.71	25.35	24.61	24.59	26.20	
21	22.50	25.04	29.13	26.92	29.77	32.46	26.80	25.65	24.56	24.62	24.53	25.94	
22	23.01	25.03	28.95	26.78	30.03	32.43	26.72	24.97	24.13	24.58	24.48	25.26	
23	23.24	25.32	28.73	26.69	30.05	32.38	26.41	24.88	24.27	24.36	24.51	25.03	
24	23.20	25.81	28.44	26.54	30.16	32.34	26.11	24.84	24.23	23.76	24.80	25.56	
25	23.53	25.98	28.12	26.26	30.30	32.29	25.89	25.21	24.06	23.04	24.89	25.91	
26	23.48	25.69	27.83	25.90	30.57	32.20	25.73	25.36	23.88	23.05	24.87	25.77	
27	23.00	25.20	27.74	25.69	30.79	32.01	25.65	25.25	23.61	24.31	25.03	25.62	
28	22.26	24.72	27.81	25.42	31.07	31.78	25.52	25.01	23.18	24.86	25.74	25.81	
29	22.75	24.57	27.75	25.20	31.43	31.70	25.22	24.85	23.14	24.75		25.22	
30	23.02	25.23	27.82	24.97	31.73	31.66	24.88	24.40	23.12	25.91		24.77	
31		25.63		24.89	31.86		24.83		23.09	26.11		24.80	
Mean	22.61	24.24	28.49	26.65	28.49	32.22	27.85	24.67	25.19	23.77	24.79	25.52	
Max	23.53	25.98	30.64	28.02	31.86	32.55	31.40	25.71	26.70	26.11	25.74	26.20	32.55
Min	21.94	22.52	25.74	24.89	24.88	31.66	24.83	23.56	23.09	22.77	24.33	24.58	21.94

Annual Max Momentary Gage Height 32.56 M (MSL), at 6.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 22.28 M (MSL), River Bed 20.19 M (MSL)
Left Bank Elevation 33.07 M (MSL)
Right Bank Elevation 33.26 M (MSL), Drainage Area 30765 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.9	57.6	287.3	565.8	206.7	1250.5	1102.0	211.2	181.5	60.7	187.8	283.3	
2	55.7	58.2	304.8	440.1	202.2	1287.7	1053.1	201.3	259.7	58.8	186.0	283.3	
3	63.1	57.0	303.7	542.8	221.5	1397.1	1027.6	164.4	274.0	57.6	199.5	294.5	
4	66.2	46.5	290.4	511.7	277.1	1492.8	964.7	187.8	330.5	53.9	190.5	302.7	
5	43.1	36.8	329.4	479.1	421.4	1519.2	899.3	186.9	338.3	48.3	192.3	273.0	
6	27.4	31.4	494.7	449.2	536.0	1475.2	894.4	164.4	344.1	42.7	205.8	310.9	
7	21.2	34.1	637.9	422.6	591.0	1457.6	922.4	153.0	352.1	43.1	208.5	270.9	
8	15.2	41.8	669.0	407.0	600.8	1457.6	909.2	128.4	383.0	47.1	176.1	175.2	
9	13.4	46.5	696.0	417.8	563.0	1457.6	851.2	112.4	395.0	101.2	168.0	187.8	
10	12.1	59.4	736.5	433.6	530.6	1457.6	765.0	104.4	393.8	102.0	224.4	240.2	
11	9.2	45.9	788.8	473.9	515.7	1466.4	673.5	91.4	378.2	62.5	237.1	309.9	
12	19.2	36.8	859.2	488.2	519.8	1411.4	610.6	111.6	341.7	43.6	221.5	309.9	
13	22.0	117.2	932.4	462.2	530.6	1361.3	560.3	130.0	323.9	63.1	220.6	313.0	
14	16.6	254.5	969.8	420.2	518.4	1457.6	513.0	126.8	285.3	86.2	198.6	269.9	
15	20.0	278.1	954.5	380.6	501.2	1607.2	477.8	129.2	248.4	119.6	153.0	219.6	
16	29.6	283.3	920.8	337.1	472.6	1697.6	453.1	192.3	267.9	160.8	156.5	219.6	
17	22.0	252.5	872.0	329.4	477.8	1748.6	436.2	187.8	355.6	124.4	159.9	220.6	
18	20.4	194.1	822.4	354.4	489.5	1769.0	421.4	220.6	296.6	70.5	157.3	273.0	
19	20.0	139.6	766.5	397.4	588.2	1748.6	417.8	279.1	299.7	136.4	209.4	315.1	
20	30.1	159.0	747.0	444.0	742.5	1718.0	415.4	284.3	247.4	177.9	176.1	336.0	
21	30.5	216.8	727.5	421.4	827.2	1677.2	407.0	278.1	173.4	178.8	170.7	307.9	
22	57.0	215.9	700.5	404.6	868.8	1646.6	397.4	210.3	136.4	175.2	166.2	238.1	
23	71.1	244.3	667.5	393.8	872.0	1598.4	360.2	202.2	148.0	155.6	168.9	215.9	
24	68.7	294.5	624.8	375.8	889.6	1563.2	326.1	198.6	144.5	106.8	195.0	268.9	
25	89.5	311.9	579.8	342.9	912.5	1519.2	302.7	233.0	130.8	58.8	203.1	304.8	
26	86.2	282.2	540.0	303.7	957.9	1440.0	286.3	248.4	116.4	59.4	201.3	290.4	
27	56.3	232.0	527.9	282.2	995.3	1304.1	278.1	237.1	94.8	151.3	215.9	275.1	
28	20.4	187.8	537.3	254.5	1042.9	1197.9	264.8	214.0	67.4	200.4	287.3	294.5	
29	41.8	174.3	529.2	232.0	1108.2	1173.5	234.0	199.5	65.0	190.5		234.0	
30	57.6	235.1	538.7	210.3	1182.7	1161.3	202.2	159.0	63.7	304.8		192.3	
31		276.1		203.1	1231.9		197.7		61.9	326.1		195.0	
Total	1145.5	4901.2	19356.3	12181.4	20395.6	44520.0	17624.5	5547.5	7499.0	3568.1	5437.3	8225.3	150401.7 CMSDAY
Mean	38.2	158.1	645.2	392.9	657.9	1484.0	568.5	184.9	241.9	115.1	194.2	265.3	412.1 CMS
Max	89.5	311.9	969.8	565.8	1231.9	1769.0	1102.0	284.3	395.0	326.1	287.3	336.0	1769.0 CMS
Min	9.2	31.4	287.3	203.1	202.2	1161.3	197.7	91.4	61.9	42.7	153.0	175.2	9.2 CMS
Runoff	98.97	423.46	1672.38	1052.47	1762.18	3846.53	1522.76	479.30	647.91	308.28	469.78	710.67	12994.71 MCM

Momentary Peak 1779.20 CMS, at 32.56 M (MSL), at 6.00 Hours, on Sep 18, 1994

Runoff Yield 13.39 Liters/Second/Square KM, Momentary Peak Yield 57.83 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

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

Location — Lat. 17°-44′-10″ N., Long. 100°-32′-28″ E., on right bank about 4 kilometers downstream from Sirikit Dam Site, along Phasom-Silot road at Ban Hat Phai, Amphoe Tha Pla, Uttaradit.

Drainage Area — 15,718 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +69.00 m. (M.S.L.)

Bench Mark — B.M.-H.D.

Location — On right bank infront of gage observer's house.

Elevation — +84.000 m. (M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1966 to date.

Rating Operation

Period of Rating — 1966 to date.

Rated by Float — -

Rated by Current Meter — 1966 to date.

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

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Flow regulated by Sirikit Dam reservoir. Stage-discharge relation defined by 72 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

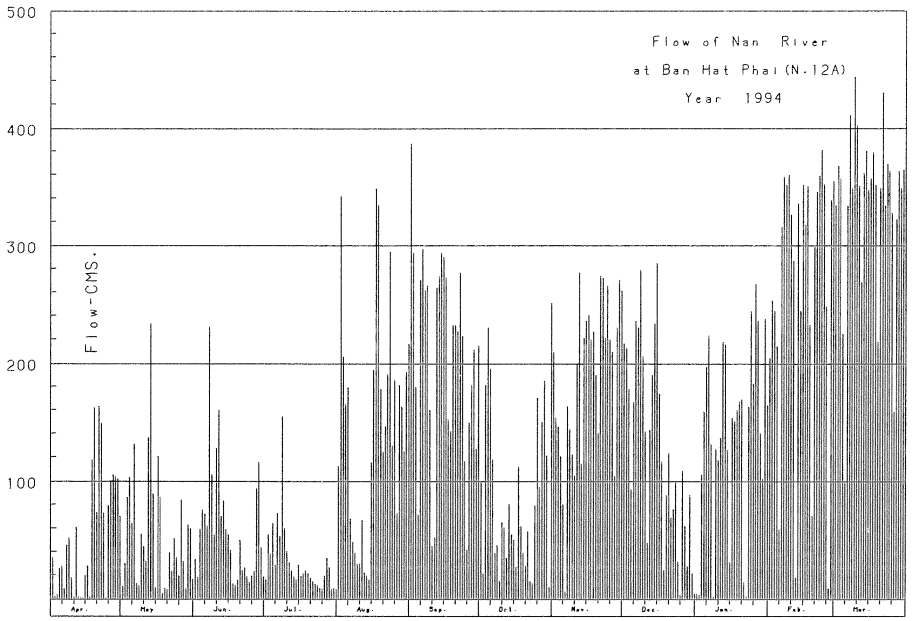
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	70.23	69.83	70.22	69.93	71.07	72.79	70.95	71.74	71.78	69.66	71.71	72.48	
2	69.60	70.17	69.98	70.48	72.53	72.23	70.03	71.40	71.76	69.64	71.99	72.69	
3	69.64	70.83	70.54	70.27	71.72	71.57	71.58	71.35	71.56	71.01	71.94	72.62	
4	70.11	70.99	70.72	70.60	71.48	70.68	71.86	71.15	70.89	71.44	71.77	71.83	
5	70.13	70.60	70.69	70.15	71.57	72.09	71.66	70.77	71.50	71.67	70.53	70.96	
6	69.79	71.23	70.57	70.69	70.64	72.25	71.12	69.72	71.89	71.82	72.37	72.48	
7	70.37	69.88	71.86	70.46	70.40	72.04	70.28	71.47	71.86	71.23	72.63	72.92	
8	70.44	69.83	71.01	71.41	70.28	72.06	70.36	71.33	72.14	69.58	72.59	72.57	
9	69.98	70.48	70.48	70.54	70.16	71.45	69.92	71.16	71.72	71.20	72.64	73.09	
10	69.55	70.35	71.20	70.30	70.16	70.35	70.61	71.00	71.32	71.12	72.43	72.87	
11	70.56	70.19	71.45	70.18	70.63	70.45	70.55	71.68	70.39	71.28	72.19	72.58	
12	69.57	71.28	70.66	70.07	70.05	72.05	70.23	72.13	71.33	71.79	69.98	72.08	
13	69.55	71.88	70.80	69.99	70.00	72.11	70.77	71.09	71.63	71.78	72.49	72.65	
14	69.53	70.86	70.53	69.93	69.94	72.23	70.48	71.81	71.88	71.19	71.94	72.76	
15	70.01	69.80	70.48	70.15	71.10	72.21	70.42	71.89	72.18	70.18	72.59	72.56	
16	70.14	71.15	70.31	70.00	71.65	72.10	70.12	71.92	71.54	71.40	72.38	72.62	
17	69.57	70.83	69.88	70.03	72.57	71.39	71.07	71.80	71.11	71.38	72.58	72.75	
18	71.12	69.68	69.84	70.07	72.48	71.32	70.57	71.84	70.08	71.45	71.87	72.59	
19	71.46	69.80	69.94	70.04	71.56	71.87	70.28	71.63	70.85	71.50	70.67	71.79	
20	70.70	69.76	70.42	69.96	71.18	71.87	70.14	71.31	71.17	71.51	72.26	72.57	
21	71.47	70.29	70.08	69.91	71.35	71.84	70.51	72.11	70.65	69.89	72.55	73.02	
22	71.37	70.07	70.12	69.87	71.63	72.13	69.91	72.10	70.73	69.59	72.64	72.48	
23	70.69	70.44	69.99	69.84	72.24	71.82	69.87	71.81	70.95	71.47	72.76	72.70	
24	69.51	70.23	69.90	69.80	71.22	71.11	70.76	72.06	70.19	71.94	72.59	72.66	
25	70.76	70.01	70.00	69.77	71.60	70.32	71.52	71.80	69.63	71.59	71.96	72.44	
26	70.96	70.81	70.07	70.00	70.69	71.37	70.91	71.74	71.04	72.07	69.78	71.44	
27	71.01	70.19	70.90	70.23	71.58	71.58	71.38	71.00	70.57	71.89	72.51	72.41	
28	70.99	69.79	71.10	70.12	71.47	71.75	71.60	71.86	70.13	71.31	72.61	72.66	
29	70.98	70.58	70.34	69.77	71.18	71.20	71.15	72.09	70.85	70.98		72.57	
30	70.66	70.54	69.98	69.78	71.64	71.77	69.81	72.04	70.04	71.90		72.67	
31		69.94		69.77	71.78		71.98		69.66	71.48		72.55	
Mean	70.35	70.40	70.47	70.13	71.21	71.67	70.72	71.56	71.07	71.16	72.03	72.49	
Max	71.47	71.88	71.86	71.41	72.57	72.79	71.98	72.13	72.18	72.07	72.76	73.09	73.09
Min	69.51	69.68	69.84	69.77	69.94	70.32	69.81	69.72	69.63	69.58	69.78	70.96	69.51

Annual Max Momentary Gage Height 73.96 M (MSL), at 20.00 Hours, on Dec 6, 1994

Zero Gage at Bottom Elevation 69.00 M (MSL), River Bed 67.90 M (MSL)

Left Bank Elevation 81.93 M (MSL)

Right Bank Elevation 80.72 M (MSL), Drainage Area 15718 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.4	11.5	34.6	16.5	112.7	387.1	99.5	210.0	217.0	4.8	204.7	334.4	
2	3.0	30.9	19.0	55.4	342.5	294.0	21.8	154.0	213.5	4.2	253.7	368.4	
3	4.2	87.0	60.2	38.6	206.5	180.2	182.0	147.0	178.5	106.1	245.0	357.1	
4	26.7	103.9	76.0	65.0	165.2	72.2	231.0	122.0	93.0	159.6	215.2	225.8	
5	28.1	65.0	73.1	29.5	180.2	271.2	196.0	81.0	168.0	197.7	59.4	100.6	
6	9.6	131.6	62.6	73.1	68.6	297.3	118.4	6.8	236.3	224.0	316.7	334.4	
7	46.6	14.0	231.0	53.8	49.0	262.5	39.4	163.8	231.0	131.6	358.7	411.8	
8	52.2	11.5	106.1	155.4	39.4	266.0	45.8	144.2	279.5	2.6	352.2	349.0	
9	19.0	55.4	55.4	60.2	30.2	161.0	16.0	123.2	206.5	128.0	360.3	444.1	
10	2.0	45.0	128.0	41.0	30.2	45.0	65.9	105.0	142.8	118.4	326.4	402.3	
11	61.8	32.3	161.0	31.6	67.7	53.0	61.0	199.5	48.2	137.6	287.6	350.6	
12	2.4	137.6	70.4	24.2	23.0	264.3	35.4	277.8	144.2	218.8	19.0	269.5	
13	2.0	234.5	84.0	19.5	20.0	274.6	81.0	114.9	190.7	217.0	336.1	361.9	
14	1.6	90.0	59.4	16.5	17.0	294.0	55.4	222.2	234.5	126.8	245.0	381.4	
15	20.6	10.0	55.4	29.5	116.0	290.8	50.6	236.3	285.9	31.6	352.2	347.4	
16	28.8	122.0	41.8	20.0	194.3	273.0	27.4	241.5	175.0	154.0	318.3	357.1	
17	2.4	87.0	14.0	21.8	349.0	152.6	112.7	220.5	117.2	151.2	350.6	379.5	
18	118.4	5.4	12.0	24.2	334.4	142.8	62.6	227.5	24.8	161.0	232.8	352.2	
19	162.4	10.0	17.0	22.4	178.5	232.8	39.4	190.7	89.0	168.0	71.3	218.8	
20	74.0	8.4	50.6	18.0	125.6	232.8	28.8	141.4	124.4	169.8	298.9	349.0	
21	163.8	40.2	24.8	15.5	147.0	227.5	57.8	274.6	69.5	14.5	345.8	430.8	
22	149.8	24.2	27.4	13.5	190.7	277.8	15.5	273.0	77.0	2.8	360.3	334.4	
23	73.1	52.2	19.5	12.0	295.6	224.0	13.5	222.2	99.5	163.8	381.4	370.0	
24	1.2	35.4	15.0	10.0	130.4	117.2	80.0	266.0	32.3	245.0	352.2	363.5	
25	80.0	20.6	20.0	8.8	185.5	42.6	171.5	220.5	3.9	183.7	248.5	328.0	
26	100.6	85.0	24.2	20.0	73.1	149.8	95.1	210.0	109.4	267.8	9.2	159.6	
27	106.1	32.3	94.0	35.4	182.0	182.0	151.2	105.0	62.6	236.3	339.3	323.1	
28	103.9	9.6	116.0	27.4	163.8	211.8	185.5	231.0	28.1	141.4	355.5	363.5	
29	102.8	63.4	44.2	8.8	125.6	128.0	122.0	271.2	89.0	102.8		349.0	
30	70.4	60.2	19.0	9.2	192.5	215.2	10.5	262.5	22.4	238.0		365.2	
31		17.0		8.8	217.0		252.0		4.8	165.2		345.8	
Total	1652.9	1733.1	1815.7	985.6	4553.2	6223.1	2724.7	5665.3	3998.5	4374.1	7596.3	10428.2	51750.7 CMSDAY
Mean	55.1	55.9	60.5	31.8	146.9	207.4	87.9	188.8	129.0	141.1	271.3	336.4	141.8 CMS
Max	163.8	234.5	231.0	155.4	349.0	387.1	252.0	277.8	285.9	267.8	381.4	444.1	444.1 CMS
Min	1.2	5.4	12.0	8.8	17.0	42.6	10.5	6.8	3.9	2.6	9.2	100.6	1.2 CMS
Runoff	142.81	149.74	156.88	85.16	393.40	537.68	235.41	489.48	345.47	377.92	656.32	901.00	4471.26 MCM

Momentary Peak 640.00 CMS, at 73.96 M (MSL), at 20.00 Hours, on Dec 6, 1994

Runoff Yield 9.02 Liters/Second/Square KM, Momentary Peak Yield 40.72 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

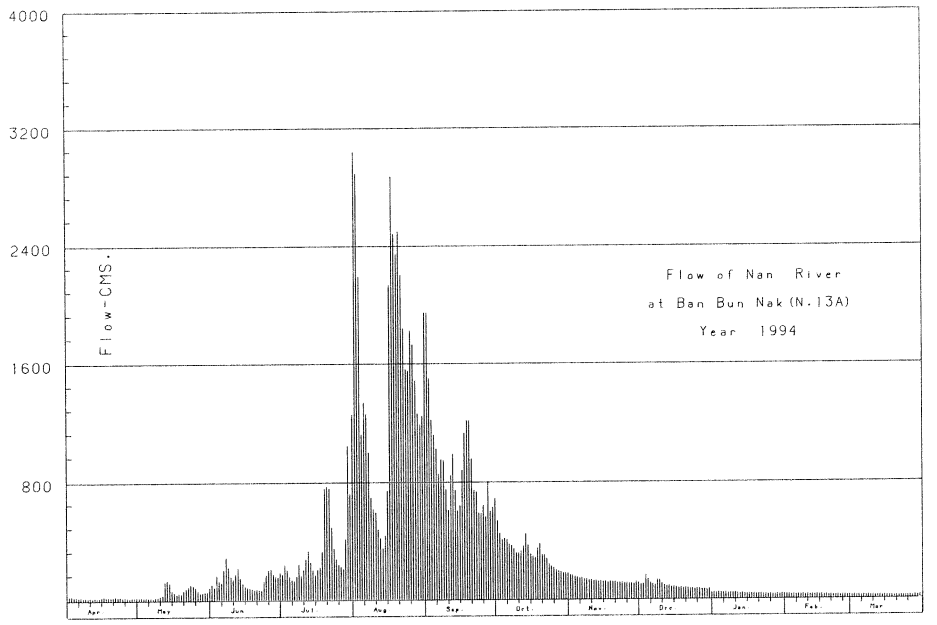
Nan River at Ban Bun Nak, Nan (N.13A)

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	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 83 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	178.29	178.15	178.79	179.15	187.40	184.16	180.15	178.86	178.58	178.41	178.31	178.22	
2	178.26	178.15	178.70	179.50	187.09	182.86	179.90	178.83	178.57	178.42	178.30	178.22	
3	178.23	178.15	179.13	179.31	185.60	181.96	179.77	178.81	178.85	178.42	178.29	178.22	
4	178.20	178.14	178.91	179.10	182.94	181.61	179.79	178.79	178.72	178.42	178.29	178.22	
5	178.19	178.12	178.88	178.98	183.57	181.27	179.77	178.77	178.62	178.42	178.29	178.22	
6	178.17	178.11	179.32	178.93	183.34	180.88	179.65	178.76	178.57	178.42	178.29	178.22	
7	178.16	178.11	179.75	179.11	182.58	181.09	179.63	178.74	178.55	178.40	178.29	178.22	
8	178.15	178.15	179.40	179.51	181.51	181.08	179.55	178.73	178.71	178.40	178.29	178.22	
9	178.15	178.19	179.10	179.11	181.19	180.65	179.46	178.71	178.69	178.40	178.28	178.21	
10	178.14	178.25	178.99	179.34	181.11	180.33	179.45	178.70	178.58	178.39	178.28	178.21	
11	178.14	178.35	179.16	179.68	180.61	180.87	179.49	178.69	178.54	178.37	178.28	178.20	
12	178.14	178.91	179.40	179.97	180.35	181.17	179.62	178.68	178.52	178.37	178.28	178.20	
13	178.14	178.94	179.03	179.59	180.05	180.65	179.90	178.67	178.51	178.37	178.28	178.20	
14	178.13	178.87	178.86	179.31	180.44	180.31	179.63	178.66	178.49	178.36	178.27	178.20	
15	178.23	178.54	178.74	179.15	181.69	180.41	179.44	178.66	178.48	178.35	178.27	178.19	
16	178.24	178.45	178.67	179.32	185.46	180.94	179.37	178.65	178.47	178.35	178.27	178.19	
17	178.21	178.40	178.67	179.42	186.52	181.64	179.35	178.64	178.46	178.35	178.26	178.18	
18	178.20	178.43	178.61	179.93	185.54	181.96	179.56	178.64	178.46	178.34	178.26	178.18	
19	178.17	178.41	178.60	181.75	185.20	181.94	179.66	178.65	178.45	178.33	178.24	178.17	
20	178.19	178.54	178.60	181.79	185.58	181.10	179.42	178.64	178.45	178.33	178.24	178.17	
21	178.24	178.65	178.57	181.76	184.85	180.64	179.41	178.63	178.45	178.33	178.24	178.17	
22	178.23	178.72	178.58	180.69	183.87	180.62	179.32	178.63	178.43	178.32	178.23	178.17	
23	178.19	178.79	178.93	180.04	183.06	180.28	179.17	178.62	178.43	178.31	178.23	178.17	
24	178.17	178.76	179.14	179.68	183.02	180.27	179.10	178.61	178.42	178.31	178.23	178.17	
25	178.15	178.68	179.30	179.51	183.81	180.40	179.06	178.61	178.42	178.31	178.23	178.17	
26	178.14	178.54	179.36	179.42	183.54	180.22	179.01	178.60	178.42	178.30	178.23	178.17	
27	178.13	178.45	179.18	179.36	182.83	180.77	178.98	178.59	178.41	178.31	178.23	178.17	
28	178.13	178.45	179.09	180.32	182.12	180.30	178.94	178.59	178.40	178.31	178.22	178.21	
29	178.16	178.50	179.08	182.72	181.86	180.38	178.92	178.64	178.40	178.32		178.22	
30	178.15	178.49	179.22	181.60	182.05	180.51	178.91	178.61	178.41	178.32		178.22	
31		178.69		183.33	184.15		178.89		178.41	178.31		178.21	
Mean	178.18	178.45	178.99	180.01	183.32	181.04	179.43	178.68	178.51	178.36	178.26	178.20	
Max	178.29	178.94	179.75	183.33	187.40	184.16	180.15	178.86	178.85	178.42	178.31	178.22	187.40
Min	178.13	178.11	178.57	178.93	180.05	180.22	178.89	178.59	178.40	178.30	178.22	178.17	178.11

Annual Max Momentary Gage Height 187.71 M (MSL), at 15.00 Hours, on Aug 1, 1994
Zero Gage at Bottom Elevation 177.39 M (MSL), River Bed 176.02 M (MSL)
Left Bank Elevation 187.80 M (MSL)
Right Bank Elevation 192.62 M (MSL), Drainage Area 8784 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.1	17.0	104.2	171.0	3043.0	1947.6	539.0	167.8	104.6	43.4	31.2	22.8	
2	26.4	17.0	88.0	240.0	2891.1	1499.8	450.0	160.9	102.4	44.8	30.0	22.8	
3	23.7	17.0	167.1	202.0	2195.0	1218.4	411.0	156.3	165.5	44.8	29.1	22.8	
4	21.0	16.2	125.8	161.3	1121.6	1119.8	417.0	151.7	135.6	44.8	29.1	22.8	
5	20.2	14.6	120.4	138.4	1339.5	1025.1	411.0	147.1	113.4	44.8	29.1	22.8	
6	18.6	13.8	204.0	129.4	1259.0	853.8	375.0	144.8	102.4	44.8	29.1	22.8	
7	17.8	13.8	290.0	163.3	1003.6	950.4	369.0	140.2	98.0	42.0	29.1	22.8	
8	17.0	17.0	220.0	242.0	694.6	945.8	345.0	137.9	133.3	42.0	29.1	22.8	
9	17.0	20.2	161.3	163.3	615.6	748.0	318.0	133.3	128.8	42.0	28.2	21.9	
10	16.2	25.5	140.2	208.0	596.4	610.6	315.0	131.0	104.6	40.8	28.2	21.9	
11	16.2	36.0	172.9	276.0	478.3	849.2	327.0	128.8	95.8	38.4	28.2	21.0	
12	16.2	125.8	220.0	335.4	419.0	987.9	366.0	126.6	91.4	38.4	28.2	21.0	
13	16.2	131.2	147.8	258.0	353.0	748.0	450.0	124.4	89.2	38.4	28.2	21.0	
14	15.4	118.6	116.8	202.0	439.2	602.2	369.0	122.2	84.9	37.2	27.3	21.0	
15	23.7	62.4	95.2	171.0	742.3	644.2	312.0	122.2	82.8	36.0	27.3	20.2	
16	24.6	49.0	83.2	204.0	2132.0	881.4	292.4	120.0	80.7	36.0	27.3	20.2	
17	21.9	42.0	83.2	224.0	2875.2	1128.2	287.3	117.8	78.6	36.0	26.4	19.4	
18	21.0	46.2	73.6	326.6	2481.0	1218.4	348.0	117.8	78.6	34.8	26.4	19.4	
19	18.6	43.4	72.0	759.0	2345.0	1212.6	378.0	120.0	76.5	33.6	24.6	18.6	
20	20.2	62.4	72.0	770.2	2497.0	955.0	306.0	117.8	76.5	33.6	24.6	18.6	
21	24.6	80.0	67.2	761.8	2205.5	743.4	303.0	115.6	76.5	33.6	24.6	18.6	
22	23.7	91.6	68.8	496.7	1844.5	734.2	279.6	115.6	72.3	32.4	23.7	18.6	
23	20.2	104.2	129.4	350.8	1565.8	590.0	241.5	113.4	72.3	31.2	23.7	18.6	
24	18.6	98.8	169.1	276.0	1552.6	586.0	224.0	111.2	70.2	31.2	23.7	18.6	
25	17.0	84.8	200.0	242.0	1823.5	640.0	214.4	111.2	70.2	31.2	23.7	18.6	
26	16.2	62.4	212.0	224.0	1729.0	566.0	202.4	109.0	70.2	30.0	23.7	18.6	
27	15.4	49.0	176.8	212.0	1489.9	803.2	195.4	106.8	68.1	31.2	23.7	18.6	
28	15.4	49.0	159.4	412.4	1266.0	598.0	186.2	106.8	66.0	31.2	22.8	21.9	
29	17.8	56.0	157.5	1048.6	1189.8	631.6	181.6	117.8	66.0	32.4		22.8	
30	17.0	54.6	184.5	718.0	1245.0	686.3	179.3	111.2	68.1	32.4		22.8	
31		86.4		1255.5	1944.0		174.7		43.4	31.2		21.9	
Total	586.9	1705.9	4282.4	11342.7	47377.0	26725.1	9767.8	3807.2	2766.9	1144.6	750.3	646.2	110903.0 CMSDAY
Mean	19.6	55.0	142.7	365.9	1528.3	890.8	315.1	126.9	89.3	36.9	26.8	20.8	303.8 CMS
Max	29.1	131.2	290.0	1255.5	3043.0	1947.6	539.0	167.8	165.5	44.8	31.2	22.8	3043.0 CMS
Min	15.4	13.8	67.2	129.4	353.0	566.0	174.7	106.8	43.4	30.0	22.8	18.6	13.8 CMS
Runoff	50.71	147.39	370.00	980.01	4093.37	2309.05	843.94	328.94	239.06	98.89	64.83	55.83	9582.02 MCM

Momentary Peak 3195.00 CMS, at 187.71 M (MSL), at 15.00 Hours, on Aug 1, 1994
Runoff Yield 34.59 Liters/Second/Square KM, Momentary Peak Yield 363.73 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

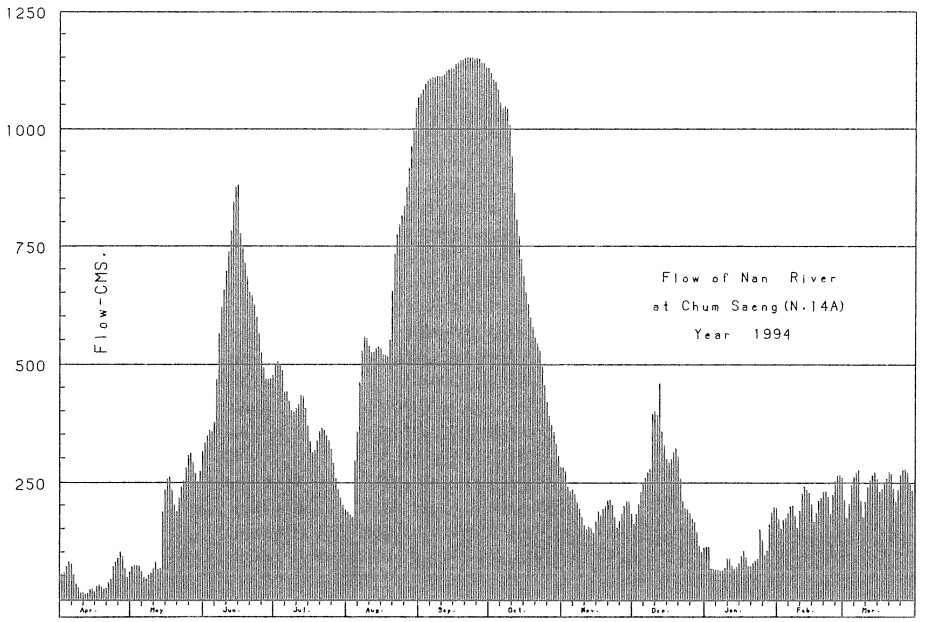
Nan River at Wat Luang Pho Kaeo, Nakhon Sawan (N.14A)

Location	Lat. 15°-53'-56" N., Long. 100°-18'-34" E., on right bank in front of Wat Luang Pho Kaeo about 1 km. upstream from station N.14, Amphoe Chum Saeng, Nakhon Sawan.
Drainage Area	33,182 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+19.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank in front of automatic gage building.
Elevation	+27.842 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1973 - 1979, 1991 to date.
Rated by Float	-
Rated by Current Meter	1972 - 1980, 1991 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +27.82 m.(M.S.L.) and is included.
General Description	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 28 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.95	19.20	22.62	24.93	22.11	27.58	27.79	23.20	21.79	19.82	20.62	21.16	
2	18.99	19.23	22.76	24.98	22.02	27.63	27.73	23.13	22.06	19.81	20.36	20.66	
3	19.21	19.24	22.88	24.93	21.97	27.68	27.70	22.78	22.33	19.77	20.60	21.05	
4	19.34	19.22	22.86	24.85	22.18	27.72	27.63	22.66	22.64	19.64	20.64	21.58	
5	19.27	19.05	23.06	24.54	22.85	27.74	27.49	22.71	22.85	19.52	20.80	21.80	
6	18.93	18.83	23.86	24.54	23.81	27.75	27.42	22.58	22.99	19.45	20.99	21.90	
7	18.61	18.79	24.63	24.40	24.34	27.75	27.44	22.37	23.11	19.38	21.00	21.76	
8	18.43	18.90	25.02	24.26	24.58	27.76	27.42	22.19	23.17	19.39	20.71	21.15	
9	18.24	19.00	25.27	24.23	24.55	27.76	27.32	21.98	23.22	19.82	20.38	20.68	
10	18.25	19.12	25.57	24.28	24.42	27.76	27.15	21.72	23.27	20.45	20.87	21.12	
11	18.17	19.35	25.77	24.35	24.33	27.78	26.89	21.60	23.20	20.43	21.34	21.52	
12	18.20	19.12	26.03	24.49	24.32	27.81	26.66	21.68	23.08	19.97	21.55	21.71	
13	18.38	19.13	26.39	24.47	24.39	27.83	26.49	21.63	22.86	19.61	21.45	21.84	
14	18.39	20.84	26.55	24.29	24.41	27.84	26.25	21.49	22.56	19.83	21.37	21.91	
15	18.28	21.44	26.58	24.01	24.39	27.84	26.05	21.84	22.25	20.18	21.04	21.73	
16	18.49	21.74	26.53	23.72	24.28	27.88	25.86	22.12	22.15	20.60	20.54	21.41	
17	18.57	21.80	26.39	23.51	24.27	27.90	25.71	22.02	22.24	20.80	20.82	21.48	
18	18.46	21.45	26.21	23.55	24.26	27.92	25.55	22.20	22.40	20.50	21.14	21.63	
19	18.40	21.02	26.04	23.74	24.53	27.93	25.42	22.27	22.49	20.96	21.24	21.74	
20	18.41	20.85	25.87	23.90	25.25	27.94	25.29	22.41	22.30	20.89	21.40	21.91	
21	18.66	21.21	25.82	23.96	25.74	27.95	25.21	22.43	21.76	20.16	21.37	21.88	
22	18.76	21.53	25.71	23.93	25.99	27.95	25.12	22.31	21.14	20.34	21.05	21.49	
23	19.22	21.68	25.51	23.84	26.11	27.95	24.91	21.97	20.92	20.42	20.54	21.12	
24	19.34	22.03	25.31	23.74	26.22	27.94	24.64	21.67	20.91	20.33	20.90	21.45	
25	19.48	22.31	25.09	23.54	26.33	27.94	24.38	21.84	20.79	20.02	21.49	21.85	
26	19.67	22.38	24.89	23.30	26.55	27.94	24.16	22.07	20.64	19.56	21.77	21.97	
27	19.52	22.15	24.73	22.99	26.77	27.90	24.02	22.28	20.54	19.70	21.83	21.99	
28	19.14	21.89	24.72	22.71	27.01	27.89	23.89	22.41	20.25	20.47	21.70	21.91	
29	18.83	21.67	24.74	22.49	27.21	27.85	23.68	22.39	19.84	20.82		21.61	
30	19.02	21.93	24.78	22.29	27.43	27.84	23.43	22.07	19.66	20.95		21.44	
31		22.41		22.15	27.54		23.22		19.78	20.94		21.70	
Mean	18.79	20.60	25.07	23.90	24.84	27.83	25.87	22.20	21.91	20.15	21.05	21.55	
Max	19.67	22.41	26.58	24.98	27.54	27.95	27.79	23.20	23.27	20.96	21.83	21.99	27.95
Min	18.17	18.79	22.62	22.15	21.97	27.58	23.22	21.49	19.66	19.38	20.36	20.66	18.17

Annual Max Momentary Gage Height 27.98 M (MSL), at 19.00 Hours, on Sep 21, 1994
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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	56.0	72.0	335.0	499.5	187.8	1074.1	1117.9	282.0	163.6	114.4	172.5	213.0	
2	58.4	73.9	349.0	507.0	180.6	1084.3	1105.3	274.7	183.8	113.7	153.0	175.5	
3	72.6	74.6	361.0	499.5	176.9	1094.8	1099.0	242.3	205.4	68.5	171.0	204.7	
4	81.1	73.3	359.0	487.5	295.3	1103.2	1084.3	232.1	230.4	66.6	174.0	245.4	
5	76.6	62.2	379.0	442.6	358.0	1107.4	1056.5	236.3	248.3	65.1	186.0	263.0	
6	54.8	48.8	468.2	442.6	462.2	1109.5	1042.9	225.4	260.1	63.7	200.2	271.5	
7	35.6	46.4	566.1	423.0	528.2	1109.5	1046.8	208.6	272.6	62.7	201.0	277.4	
8	26.5	53.0	621.0	404.1	559.4	1111.6	1042.9	194.2	278.9	62.8	179.2	212.2	
9	17.0	59.0	658.9	400.0	555.5	1111.6	1007.2	177.6	395.2	69.5	154.5	177.0	
10	17.5	66.8	697.2	406.8	538.6	1111.6	941.2	159.4	400.7	89.0	191.2	210.0	
11	14.6	81.8	740.1	416.3	526.9	1115.8	864.0	151.0	393.0	88.2	226.5	240.6	
12	15.0	66.8	783.3	435.6	525.6	1122.1	808.4	156.6	461.0	73.2	243.0	255.8	
13	24.0	67.4	846.2	432.8	534.7	1126.3	770.9	153.1	359.0	66.1	235.0	266.4	
14	24.5	189.0	875.7	408.2	537.3	1128.4	723.5	143.8	329.4	69.7	228.7	272.3	
15	19.0	234.2	881.3	371.3	534.7	1128.4	686.2	167.8	301.5	79.4	204.0	257.4	
16	29.5	258.2	779.3	337.2	520.4	1136.8	652.5	188.6	292.7	95.0	166.5	231.8	
17	33.5	263.0	750.1	314.5	519.1	1141.0	627.1	180.6	300.6	105.0	187.5	237.4	
18	28.0	235.0	715.9	318.7	517.8	1145.2	600.7	195.0	315.0	91.0	211.5	249.4	
19	25.0	202.5	684.4	339.4	552.9	1147.3	579.3	200.6	323.1	73.0	219.0	258.2	
20	25.5	189.8	654.2	358.0	655.7	1149.4	557.9	211.8	306.0	71.2	231.0	272.3	
21	38.6	216.7	645.5	365.2	735.1	1151.5	544.6	213.4	259.8	78.8	232.6	269.8	
22	44.6	241.4	627.1	361.6	776.3	1151.5	529.8	203.8	211.5	84.9	221.2	238.2	
23	73.3	253.4	599.1	350.8	797.3	1151.5	496.5	176.9	195.0	87.8	183.7	210.0	
24	81.1	282.6	566.1	339.4	816.5	1149.4	456.8	155.9	194.2	150.7	224.2	235.0	
25	90.6	306.9	524.9	320.8	835.8	1149.4	420.3	167.8	185.3	128.4	254.2	267.2	
26	103.9	313.2	493.5	292.5	875.7	1149.4	390.8	184.6	174.0	96.2	264.7	277.4	
27	93.4	292.7	469.8	260.1	917.3	1141.0	372.6	201.4	166.5	106.0	267.2	279.1	
28	68.1	270.6	468.4	236.3	963.0	1138.9	356.8	211.8	144.7	161.2	261.4	272.3	
29	48.8	252.6	471.3	218.2	1001.9	1130.5	332.8	210.2	115.8	187.5		247.8	
30	60.3	274.1	477.1	202.2	1044.8	1128.4	306.1	184.6	103.2	197.2		234.2	
31		315.9		191.0	1066.3		284.1		111.6	196.5		255.0	
Total	1437.4	5437.8	17847.7	11382.7	19097.6	33799.8	21905.7	5891.9	7881.9	3063.0	5844.5	7577.3	141167.3 CMSDAY
Mean	47.9	175.4	594.9	367.2	616.1	1126.7	706.6	196.4	254.3	98.8	208.7	244.4	386.8 CMS
Max	103.9	315.9	881.3	507.0	1066.3	1151.5	1117.9	282.0	461.0	197.2	267.2	279.1	1151.5 CMS
Min	14.6	46.4	335.0	191.0	176.9	1074.1	284.1	143.8	103.2	62.7	153.0	175.5	14.6 CMS
Runoff	124.19	469.83	1542.04	983.47	1650.03	2920.30	1892.65	509.06	681.00	264.64	504.96	654.68	12196.86 MCM

Momentary Peak 1157.80 CMS, at 27.98 M (MSL), at 19.00 Hours, on Sep 21, 1994

Runoff Yield 11.66 Liters/Second/Square KM, Momentary Peak Yield 34.89 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

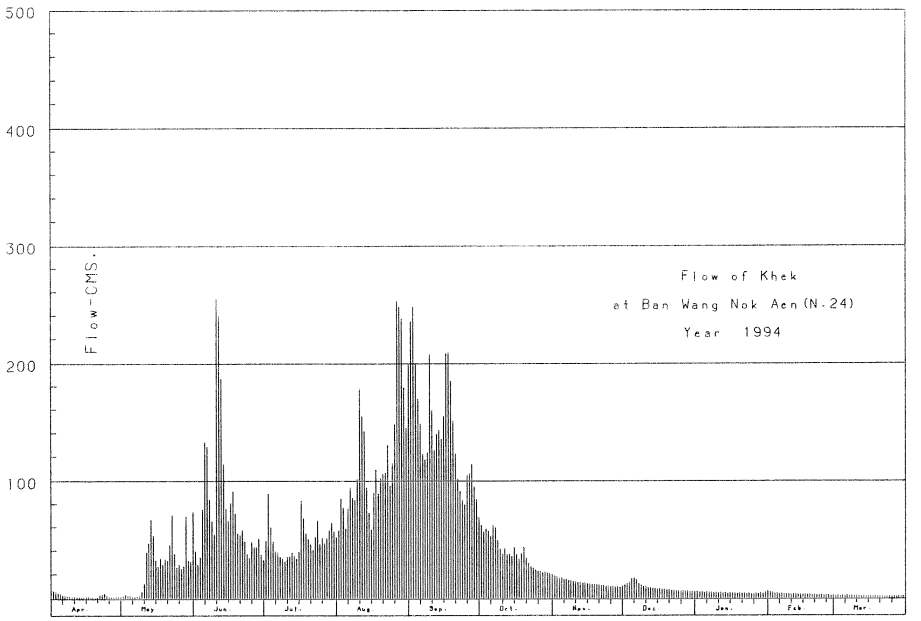
Khek River at Ban Wang Nok Aen, Phitsanulok (N.24)

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	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965-1974, 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 good. Stage-discharge relation defined by 22 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.07	0.65	2.85	3.19	3.54	8.54	3.74	1.85	1.41	1.00	1.00	0.68	
2	0.97	0.72	2.31	4.69	4.55	8.81	3.50	1.80	1.46	0.99	0.94	0.68	
3	0.91	0.70	2.63	3.66	4.28	7.72	3.62	1.76	1.57	0.98	0.89	0.67	
4	0.82	0.62	4.23	3.17	3.62	6.95	3.53	1.74	1.71	0.98	0.87	0.67	
5	0.74	0.56	5.98	2.86	4.27	6.43	3.37	1.70	1.76	0.97	0.86	0.66	
6	0.68	0.52	5.86	2.81	4.85	5.68	3.71	1.68	1.68	0.96	0.85	0.67	
7	0.65	0.59	4.52	2.64	4.57	5.56	3.65	1.65	1.49	0.95	0.84	0.67	
8	0.61	0.67	3.85	2.55	4.49	5.73	3.22	1.63	1.38	0.95	0.82	0.66	
9	0.57	1.02	3.41	2.45	5.09	7.90	2.94	1.60	1.32	0.94	0.81	0.65	
10	0.55	1.46	8.97	2.62	7.17	6.70	2.78	1.57	1.29	0.93	0.80	0.66	
11	0.54	2.83	8.64	2.66	6.58	5.78	2.95	1.55	1.26	0.92	0.79	0.65	
12	0.52	3.13	7.39	2.80	6.25	6.18	2.73	1.54	1.23	0.91	0.81	0.64	
13	0.51	3.91	5.44	2.66	4.85	6.27	2.78	1.52	1.21	0.90	0.79	0.63	
14	0.49	3.37	4.27	2.56	4.14	6.06	2.65	1.50	1.19	0.90	0.78	0.64	
15	0.58	2.50	3.88	2.85	3.57	6.59	2.99	1.48	1.18	0.89	0.77	0.63	
16	0.51	2.21	4.41	4.48	4.72	7.92	2.74	1.46	1.17	0.89	0.77	0.62	
17	0.49	2.56	4.76	3.96	5.32	7.93	2.56	1.44	1.15	0.88	0.76	0.62	
18	0.48	2.32	4.10	3.45	4.68	7.34	2.77	1.42	1.14	0.88	0.75	0.63	
19	0.47	2.53	3.46	3.28	5.11	6.48	3.00	1.43	1.13	0.87	0.74	0.62	
20	0.49	2.47	3.38	3.08	5.20	5.70	2.61	1.39	1.11	0.87	0.74	0.61	
21	0.73	3.07	3.56	2.91	5.23	5.10	2.36	1.37	1.09	0.86	0.73	0.60	
22	0.78	4.05	3.19	3.33	5.91	4.76	2.24	1.36	1.08	0.86	0.72	0.60	
23	0.88	2.77	2.75	3.87	4.92	4.50	2.16	1.34	1.07	0.85	0.72	0.59	
24	0.66	2.20	2.61	3.10	5.46	4.38	2.09	1.32	1.06	0.85	0.71	0.59	
25	0.57	2.30	3.16	3.29	6.42	5.17	2.05	1.31	1.05	0.84	0.70	0.59	
26	0.54	2.11	2.98	3.11	8.91	5.21	2.01	1.29	1.05	0.84	0.69	0.62	
27	0.51	2.25	3.00	3.29	8.81	5.45	1.98	1.28	1.04	0.84	0.69	0.61	
28	0.51	4.03	3.29	3.56	8.58	4.90	1.99	1.27	1.03	0.88	0.68	0.60	
29	0.53	2.49	2.73	3.80	7.20	4.52	1.96	1.27	1.02	0.88		0.62	
30	0.55	2.42	2.51	3.50	6.32	3.98	1.92	1.32	1.02	0.95		0.63	
31		4.15		3.33	7.68		1.88		1.01	1.04		0.63	
Mean	0.63	2.17	4.14	3.21	5.56	6.14	2.73	1.49	1.24	0.91	0.79	0.63	
Max	1.07	4.15	8.97	4.69	8.91	8.81	3.74	1.85	1.76	1.04	1.00	0.68	8.97
Min	0.47	0.52	2.31	2.45	3.54	3.98	1.88	1.27	1.01	0.84	0.68	0.59	0.47

Annual Max Momentary Gage Height 9.44 M (A.D), at 6.00 Hours, on Aug 26, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.28 M (A.D)
Left Bank Elevation 13.61 M (A.D)
Right Bank Elevation 14.57 M (A.D), Drainage Area 1861 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.05	2.50	40.29	49.03	58.03	236.30	63.17	20.00	12.15	6.00	6.00	2.80	
2	5.70	3.20	29.20	89.70	85.50	248.45	57.00	19.00	12.90	5.90	5.40	2.80	
3	5.10	3.00	35.60	61.11	77.40	200.80	60.09	18.20	14.55	5.80	4.90	2.70	
4	4.20	2.20	75.90	48.51	60.09	170.00	57.77	17.80	17.20	5.80	4.70	2.70	
5	3.40	1.80	133.30	40.54	77.10	149.20	53.66	17.00	18.20	5.70	4.60	2.60	
6	2.80	1.60	129.10	39.26	94.50	122.80	62.40	16.60	16.60	5.60	4.50	2.70	
7	2.50	1.95	84.60	35.80	86.10	118.60	60.86	16.00	13.35	5.50	4.40	2.70	
8	2.10	2.70	66.00	34.00	83.70	124.55	49.80	15.60	11.70	5.50	4.20	2.60	
9	1.85	6.30	54.69	32.00	102.15	208.25	42.60	15.00	10.80	5.40	4.10	2.50	
10	1.75	12.90	255.65	35.40	178.80	160.00	38.60	14.55	10.35	5.30	4.00	2.60	
11	1.70	39.77	240.80	36.20	155.20	126.30	42.86	14.25	9.90	5.20	3.90	2.50	
12	1.60	47.49	187.60	39.00	142.75	140.30	37.60	14.10	9.45	5.10	4.10	2.40	
13	1.55	67.54	114.40	36.20	94.50	143.45	38.60	13.80	9.15	5.00	3.90	2.30	
14	1.45	53.66	77.10	34.20	73.46	136.10	36.00	13.50	8.85	5.00	3.80	2.40	
15	1.90	33.00	66.77	40.29	58.80	155.60	43.89	13.20	8.70	4.90	3.70	2.30	
16	1.55	27.20	81.30	83.40	90.60	209.10	37.80	12.90	8.55	4.90	3.70	2.20	
17	1.45	34.20	91.80	68.83	110.20	209.52	34.20	12.60	8.25	4.80	3.60	2.20	
18	1.40	29.40	72.43	55.71	89.40	185.60	38.40	12.30	8.10	4.80	3.50	2.30	
19	1.35	33.60	55.97	51.34	102.85	151.20	44.14	12.45	7.95	4.70	3.40	2.20	
20	1.45	32.40	53.91	46.20	106.00	123.50	35.20	11.85	7.65	4.70	3.40	2.10	
21	3.30	45.94	58.54	41.83	107.05	102.50	30.20	11.55	7.35	4.60	3.30	2.00	
22	3.80	71.14	49.03	52.63	130.85	91.80	27.80	11.40	7.20	4.60	3.20	2.00	
23	4.80	38.40	38.00	66.51	96.60	84.00	26.20	11.10	7.05	4.50	3.20	1.95	
24	2.60	27.00	35.20	46.71	115.10	80.40	24.80	10.80	6.90	4.50	3.10	1.95	
25	1.85	29.00	48.26	51.60	148.80	104.95	24.00	10.65	6.75	4.40	3.00	1.95	
26	1.70	25.20	43.63	46.97	252.95	106.35	23.20	10.35	6.75	4.40	2.90	2.20	
27	1.55	28.00	44.14	51.60	248.45	114.75	22.60	10.20	6.60	4.40	2.90	2.10	
28	1.55	70.63	51.60	58.54	238.10	96.00	22.80	10.05	6.45	4.80	2.80	2.00	
29	1.65	32.80	37.60	64.71	180.00	84.60	22.20	10.05	6.30	4.80		2.20	
30	1.75	31.40	33.20	57.00	145.20	69.34	21.40	10.80	6.30	5.50		2.30	
31		73.71		52.63	199.20		20.60		6.15	6.60		2.30	
Total	76.40	909.63	2385.61	1547.45	3789.43	4254.31	1200.44	407.65	298.15	158.70	108.20	72.55	15208.52 CMSDAY
Mean	2.55	29.34	79.52	49.92	122.24	141.81	38.72	13.59	9.62	5.12	3.86	2.34	41.67 CMS
Max	7.05	73.71	255.65	89.70	252.95	248.45	63.17	20.00	18.20	6.60	6.00	2.80	255.65 CMS
Min	1.35	1.60	29.20	32.00	58.03	69.34	20.60	10.05	6.15	4.40	2.80	1.95	1.35 CMS
Runoff	6.601	78.592	206.117	133.700	327.407	367.572	103.718	35.221	25.760	13.712	9.348	6.268	1314.016 MCM

Momentary Peak 276.80 CMS, at 9.44 M (A.D), at 6.00 Hours, on Aug 26, 1994

Runoff Yield 22.39 Liters/Second/Square KM, Momentary Peak Yield 148.74 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

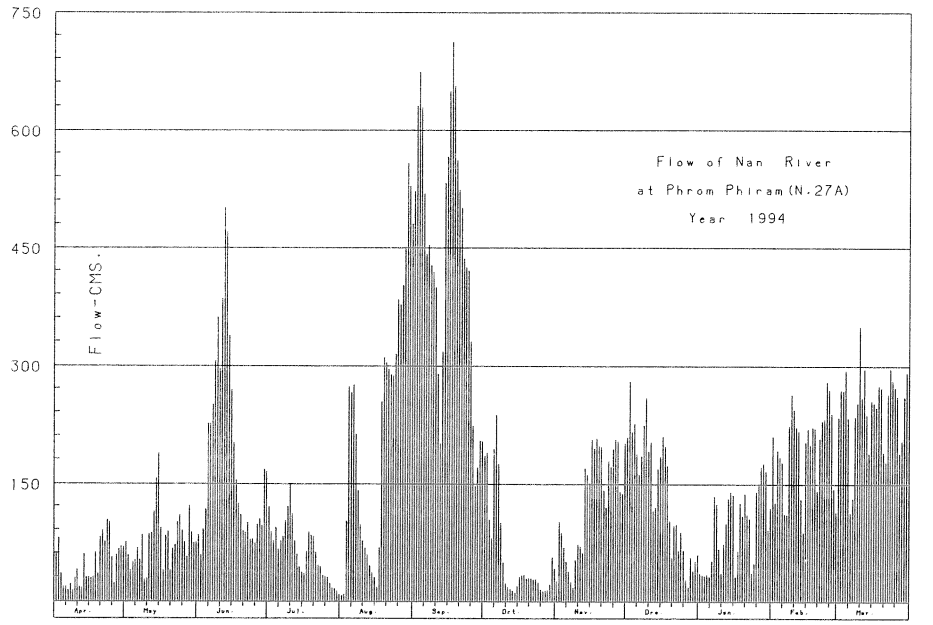
Nan River at Phrom Phiram, Phitsanulok (N.27A)

Location	Lat. 17°-01'-54" N., Long. 100°-11'-05" E., on right bank about 1,800 meters downstream from Phrom Phiram Dam, Amphoe Phrom Phiram, Phitsanulok.
Drainage Area	19,540 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Naresuan Dam. Stage-discharge relation defined by 26 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.37	39.59	39.71	40.20	38.20	43.98	40.95	38.67	41.20	38.87	41.22	41.47	
2	39.66	39.32	39.33	39.76	38.23	44.79	40.99	39.94	41.92	38.83	40.26	41.81	
3	38.88	38.95	39.82	39.60	39.95	45.10	39.98	39.75	41.27	38.82	41.03	41.81	
4	38.50	39.17	40.16	39.85	41.85	44.77	39.66	39.48	41.39	38.84	40.93	42.05	
5	38.51	39.20	41.39	39.44	41.78	43.96	41.05	39.18	40.97	38.80	40.86	41.46	
6	38.39	39.46	41.38	39.61	41.88	43.33	41.50	38.92	40.68	39.20	40.08	40.10	
7	38.62	39.22	41.63	39.68	41.25	43.43	40.84	38.67	40.95	40.37	40.06	40.33	
8	38.37	39.72	42.16	39.95	40.46	43.22	39.92	38.48	41.37	40.24	41.35	41.47	
9	38.76	38.71	42.67	40.20	39.89	43.14	39.16	39.21	41.71	39.44	41.76	41.65	
10	38.97	38.76	42.07	40.56	39.60	42.98	38.63	39.54	41.02	38.88	41.56	42.56	
11	38.52	39.72	42.86	40.07	39.47	42.01	38.49	39.49	41.14	39.54	41.34	41.71	
12	38.46	39.75	43.82	39.61	39.32	41.12	38.44	39.37	40.13	39.92	41.28	42.07	
13	39.34	40.11	43.57	39.33	39.08	42.27	38.36	40.78	40.18	40.33	40.32	41.50	
14	38.78	40.64	42.46	39.05	38.89	44.06	38.31	40.68	40.77	40.43	39.76	40.99	
15	38.77	40.98	41.81	38.91	38.78	44.31	38.53	40.57	40.94	40.39	41.14	41.67	
16	38.76	39.83	41.12	38.86	38.51	44.92	38.78	41.17	41.22	38.80	41.31	41.65	
17	38.78	38.96	40.61	39.40	39.47	45.36	38.83	41.05	41.08	39.41	41.10	41.59	
18	39.37	39.70	40.24	39.76	41.66	44.97	38.83	41.19	40.81	40.25	41.34	41.86	
19	38.88	39.77	40.06	39.71	42.21	44.27	38.75	41.09	39.96	40.04	41.32	41.84	
20	39.67	38.95	39.79	39.68	42.14	43.99	38.75	41.07	39.27	40.41	40.44	41.00	
21	39.79	39.44	39.75	39.37	42.06	43.82	38.75	40.46	39.87	40.06	41.19	40.87	
22	39.59	39.53	39.92	39.09	42.00	43.29	38.73	40.19	39.90	40.00	41.42	41.76	
23	39.97	39.94	39.63	39.04	41.98	43.19	38.72	40.88	39.40	38.88	41.44	42.07	
24	39.93	40.05	39.63	38.83	42.25	43.16	38.65	40.80	39.76	39.14	41.92	41.92	
25	39.28	39.80	39.56	38.79	42.85	42.39	38.41	41.05	39.42	40.43	41.81	41.85	
26	38.64	39.58	39.89	38.77	42.80	41.35	38.36	41.18	38.71	40.55	41.51	41.73	
27	39.32	39.29	39.99	38.63	43.01	40.52	38.38	41.15	38.51	40.79	40.48	40.99	
28	39.45	40.21	39.87	38.46	43.41	40.78	38.38	40.43	39.26	40.84	40.10	41.15	
29	39.49	39.77	40.76	38.45	44.25	41.16	38.60	40.41	38.95	40.74		41.73	
30	39.48	39.56	40.72	38.35	44.03	41.14	39.27	41.12	39.18	39.80		42.02	
31		39.57		38.23	43.66		39.01		39.33	40.17		42.01	
Mean	39.08	39.59	40.88	39.33	41.13	43.23	39.16	40.20	40.33	39.78	41.01	41.57	
Max	39.97	40.98	43.82	40.56	44.25	45.36	41.50	41.19	41.92	40.84	41.92	42.56	45.36
Min	38.37	38.71	39.33	38.23	38.20	40.52	38.31	38.48	38.51	38.80	39.76	40.10	38.20

Annual Max Momentary Gage Height 45.41 M (MSL), at 8.00 Hours, on Sep 17, 1994
Zero Gage at Bottom Elevation 38.43 M (MSL), River Bed 37.41 M (MSL)
Left Bank Elevation 48.88 M (MSL)
Right Bank Elevation 48.36 M (MSL), Drainage Area 19540 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	62.2	76.4	84.7	121.0	8.0	522.4	185.5	25.5	209.0	35.5	210.9	235.0	
2	81.2	59.2	59.8	88.2	9.0	631.7	189.1	101.5	280.6	33.5	125.8	269.1	
3	36.0	39.5	92.5	77.0	102.3	674.5	104.5	87.5	215.6	33.0	192.8	269.1	
4	18.5	50.5	118.0	94.7	273.2	629.0	81.2	69.2	227.0	34.0	183.7	294.2	
5	18.8	52.0	227.0	66.6	266.0	519.8	194.7	51.0	187.3	32.0	177.4	234.0	
6	14.6	67.9	226.1	77.7	276.4	441.6	238.0	38.0	161.2	52.0	112.0	113.5	
7	23.0	53.2	251.0	82.6	213.7	453.6	175.6	25.5	185.5	134.6	110.5	131.4	
8	13.9	85.4	305.8	102.3	142.1	428.4	100.0	17.8	225.1	124.2	223.2	235.0	
9	30.0	27.5	362.4	121.0	97.7	418.8	50.0	52.6	259.0	66.6	264.0	253.0	
10	40.5	30.0	296.3	150.6	77.0	399.6	23.5	73.1	191.9	36.0	244.0	349.6	
11	19.2	85.4	385.2	111.2	68.6	290.0	18.2	69.9	203.3	73.1	222.3	259.0	
12	17.1	87.5	501.6	77.7	59.2	201.4	16.4	62.2	115.8	100.0	216.6	296.3	
13	60.4	114.3	470.4	59.8	46.0	317.7	13.6	170.2	119.5	131.4	130.6	238.0	
14	31.0	157.6	338.6	44.5	36.5	533.1	11.9	161.2	169.3	139.5	88.2	189.1	
15	30.5	188.2	269.1	37.5	31.0	566.9	19.5	151.5	184.6	136.2	203.3	255.0	
16	30.0	93.3	201.4	35.0	18.8	649.2	31.0	206.1	210.9	32.0	219.5	253.0	
17	31.0	40.0	154.9	64.0	68.6	712.2	33.5	194.7	197.6	64.6	199.5	247.0	
18	62.2	84.0	124.2	88.2	254.0	656.0	33.5	208.0	172.9	125.0	222.3	274.3	
19	36.0	88.9	110.5	84.7	311.1	561.5	29.5	198.5	103.0	109.0	220.4	272.2	
20	81.9	39.5	90.3	82.6	303.7	523.7	29.5	196.6	56.2	137.8	140.4	190.0	
21	90.3	66.6	87.5	62.2	295.3	501.6	29.5	142.1	96.2	110.5	208.0	178.3	
22	76.4	72.4	100.0	46.5	289.0	436.8	28.5	120.2	98.5	106.0	230.0	264.0	
23	103.8	101.5	79.1	44.0	286.9	424.8	28.0	179.2	64.0	36.0	232.0	296.3	
24	100.8	109.7	79.1	33.5	315.5	421.2	24.5	172.0	88.2	49.0	280.6	280.6	
25	56.8	91.0	74.4	31.5	384.0	330.9	15.4	194.7	65.3	139.5	269.1	273.2	
26	24.0	75.7	97.7	30.5	378.0	223.2	13.6	207.1	27.5	149.8	239.0	261.0	
27	59.2	57.4	105.3	23.5	403.2	147.2	14.3	204.3	18.8	171.1	143.8	189.1	
28	67.3	121.8	96.2	17.1	451.2	170.2	14.3	139.5	55.6	175.6	113.5	204.3	
29	69.9	88.9	168.4	16.8	558.7	205.2	22.0	137.8	39.5	166.6		261.0	
30	69.2	74.4	164.8	13.2	529.0	203.3	56.2	201.4	51.0	91.0		291.1	
31		75.1		9.0	481.5		42.5		59.8	118.7		290.0	
Total	1455.7	2454.8	5722.3	1994.7	7035.2	13195.5	1867.5	3858.9	4339.7	2943.8	5423.4	7646.7	57938.2 CMSDAY
Mean	48.5	79.2	190.7	64.3	226.9	439.9	60.2	128.6	140.0	95.0	193.7	246.7	158.7 CMS
Max	103.8	188.2	501.6	150.6	558.7	712.2	238.0	208.0	280.6	175.6	280.6	349.6	712.2 CMS
Min	13.9	27.5	59.8	9.0	8.0	147.2	11.9	17.8	18.8	32.0	88.2	113.5	8.0 CMS
Runoff	125.77	212.09	494.41	172.34	607.84	1140.09	161.35	333.41	374.95	254.34	468.58	660.67	5005.86 MCM

Momentary Peak 719.45 CMS, at 45.41 M (MSL), at 8.00 Hours, on Sep 17, 1994

Runoff Yield 8.12 Liters/Second/Square KM, Momentary Peak Yield 36.82 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

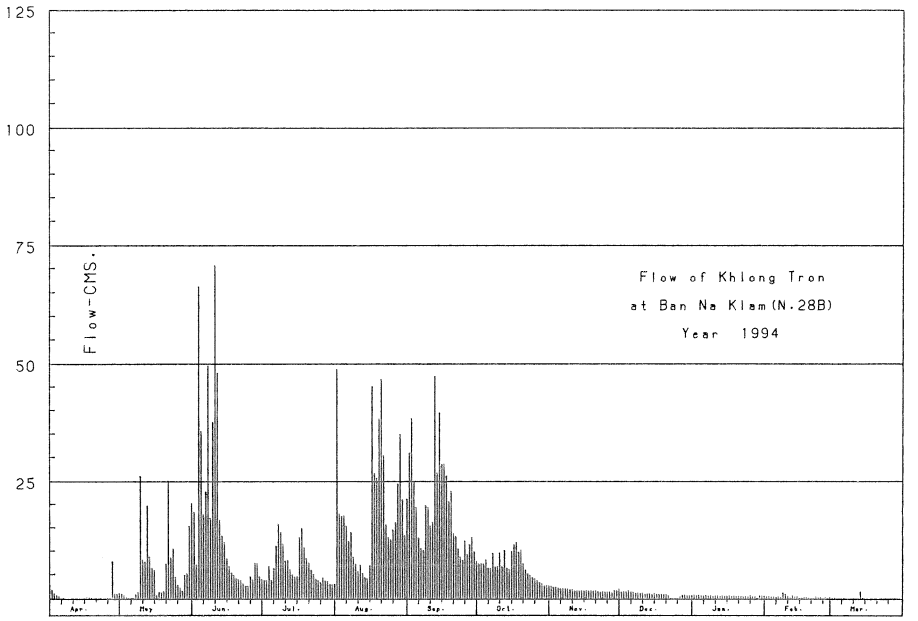
Khlong Tron at Ban Na Klam, Uttaradit (N.28B)

Location	Lat. 17°-34'-55" N., Long. 100°-29'-45" E., on right bank near Ban Na Klam School about 1 kilometer upstream from station N.28A, Amphoe Nam Pat, Uttaradit.
Drainage Area	366 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+3.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	About 20 meters from the top staff gage.
Elevation	+9.577 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 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 - 1990.
Rated by Float	-
Rated by Current Meter	1980 - 1990.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by average rating curve made during 1986-1990.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.53	4.44	5.14	4.67	5.63	5.37	4.83	4.59	4.49	4.40	4.36	4.31	
2	4.44	4.39	4.82	4.66	5.13	5.48	4.83	4.58	4.49	4.40	4.35	4.31	
3	4.40	4.33	5.86	4.81	5.12	5.27	4.83	4.57	4.50	4.40	4.35	4.30	
4	4.35	4.29	5.44	4.67	5.12	5.16	4.86	4.56	4.51	4.39	4.34	4.29	
5	4.30	4.27	5.13	4.80	5.07	5.01	4.80	4.55	4.49	4.38	4.34	4.27	
6	4.25	4.27	5.23	4.96	4.99	4.94	4.79	4.55	4.47	4.38	4.34	4.24	
7	4.23	4.42	5.64	5.08	5.04	4.93	4.91	4.55	4.46	4.38	4.34	4.24	
8	4.22	4.47	5.11	5.04	4.88	5.17	4.81	4.54	4.45	4.38	4.47	4.24	
9	4.21	5.29	5.47	4.97	4.83	5.16	4.81	4.53	4.45	4.37	4.42	4.26	
10	4.21	4.86	5.91	4.85	4.76	5.07	4.91	4.53	4.45	4.37	4.37	4.25	
11	4.20	4.85	5.62	4.86	4.82	5.09	4.81	4.51	4.44	4.37	4.33	4.25	
12	4.20	5.17	5.10	4.78	4.74	5.61	4.93	4.51	4.44	4.37	4.38	4.24	
13	4.20	4.88	5.02	4.73	4.70	5.30	4.80	4.51	4.43	4.37	4.35	4.50	
14	4.26	4.80	4.98	4.70	4.68	5.50	4.78	4.51	4.42	4.37	4.36	4.29	
15	4.32	4.77	4.87	4.71	4.82	5.33	4.92	4.51	4.44	4.37	4.31	4.26	
16	4.34	4.38	4.81	5.01	5.58	5.33	4.97	4.51	4.43	4.37	4.30	4.25	
17	4.33	4.49	4.75	5.06	5.30	5.29	4.98	4.51	4.42	4.37	4.34	4.25	
18	4.30	4.46	4.72	4.95	5.28	5.19	4.92	4.51	4.42	4.36	4.33	4.25	
19	4.27	4.50	4.69	4.87	5.48	5.23	4.93	4.51	4.42	4.36	4.33	4.27	
20	4.25	4.83	4.67	4.84	5.60	5.03	4.83	4.51	4.41	4.36	4.32	4.29	
21	4.21	5.27	4.66	4.78	5.36	5.02	4.78	4.50	4.40	4.36	4.26	4.31	
22	4.29	4.88	4.63	4.73	5.08	4.94	4.74	4.49	4.28	4.35	4.35	4.30	
23	4.29	4.94	4.60	4.68	5.01	4.88	4.72	4.49	4.27	4.35	4.33	4.30	
24	4.30	4.70	4.59	4.66	5.00	4.86	4.70	4.49	4.26	4.35	4.32	4.30	
25	4.30	4.61	4.71	4.64	5.05	4.99	4.68	4.48	4.26	4.40	4.31	4.28	
26	4.30	4.56	4.67	4.69	5.09	4.90	4.66	4.48	4.35	4.36	4.34	4.29	
27	4.85	4.51	4.84	4.66	5.26	4.97	4.64	4.47	4.40	4.36	4.26	4.30	
28	4.48	4.72	4.83	4.65	5.43	5.01	4.62	4.51	4.40	4.23	4.33	4.29	
29	4.43	4.74	4.71	4.62	5.20	4.92	4.60	4.52	4.39	4.38		4.25	
30	4.44	5.07	4.67	4.61	5.02	4.85	4.60	4.54	4.38	4.37		4.20	
31		5.18		4.62	5.20		4.60		4.40	4.36		4.19	
Mean	4.32	4.69	5.00	4.79	5.11	5.13	4.79	4.52	4.41	4.37	4.34	4.28	
Max	4.85	5.29	5.91	5.08	5.63	5.61	4.98	4.59	4.51	4.40	4.47	4.50	5.91
Min	4.20	4.27	4.59	4.61	4.68	4.85	4.60	4.47	4.26	4.23	4.26	4.19	4.19

Annual Max Momentary Gage Height 6.62 M (A.D), at 10.00 Hours, on Jun 10, 1994
Zero Gage at Bottom Elevation 3.00 M (A.D), River Bed 3.03 M (A.D)
Left Bank Elevation 10.97 M (A.D)
Right Bank Elevation 9.42 M (A.D), Drainage Area 366 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.96	1.12	18.50	4.06	48.89	31.14	7.44	2.68	1.52	0.80	0.56	0.26	
2	1.12	0.74	7.16	3.88	18.05	38.36	7.44	2.56	1.52	0.80	0.50	0.26	
3	0.80	0.38	66.54	6.88	17.60	25.12	7.44	2.44	1.60	0.80	0.50	0.20	
4	0.50	0.19	35.68	4.06	17.60	19.40	8.28	2.32	1.72	0.74	0.44	0.19	
5	0.20	0.17	18.05	6.60	15.47	13.01	6.60	2.20	1.52	0.68	0.44	0.17	
6	0.15	0.17	22.88	11.32	12.28	10.68	6.40	2.20	1.36	0.68	0.44	0.14	
7	0.13	0.96	49.62	15.88	14.24	10.36	9.72	2.20	1.28	0.68	0.44	0.14	
8	0.12	1.36	17.15	14.24	8.84	19.85	6.88	2.08	1.20	0.68	1.36	0.14	
9	0.11	26.24	37.69	11.64	7.44	19.40	6.88	1.96	1.20	0.62	0.96	0.16	
10	0.11	8.28	70.87	8.00	5.80	15.47	9.72	1.96	1.20	0.62	0.62	0.15	
11	0.10	8.00	48.16	8.28	7.16	16.29	6.88	1.72	1.12	0.62	0.38	0.15	
12	0.10	19.85	16.70	6.20	5.40	47.43	10.36	1.72	1.12	0.62	0.68	0.14	
13	0.10	8.84	13.42	5.20	4.60	26.80	6.60	1.72	1.04	0.62	0.50	1.60	
14	0.16	6.60	11.96	4.60	4.24	39.70	6.20	1.72	0.96	0.62	0.56	0.19	
15	0.32	6.00	8.56	4.80	7.16	28.66	10.04	1.72	1.12	0.62	0.26	0.16	
16	0.44	0.68	6.88	13.01	45.30	28.66	11.64	1.72	1.04	0.62	0.20	0.15	
17	0.38	1.52	5.60	15.06	26.80	26.24	11.96	1.72	0.96	0.62	0.44	0.15	
18	0.20	1.28	5.00	11.00	25.68	20.75	10.04	1.72	0.96	0.56	0.38	0.15	
19	0.17	1.60	4.42	8.56	38.36	22.88	10.36	1.72	0.96	0.56	0.38	0.17	
20	0.15	7.44	4.06	7.72	46.70	13.83	7.44	1.72	0.88	0.56	0.32	0.19	
21	0.11	25.12	3.88	6.20	30.52	13.42	6.20	1.60	0.80	0.56	0.16	0.26	
22	0.19	8.84	3.34	5.20	15.88	10.68	5.40	1.52	0.18	0.50	0.50	0.20	
23	0.19	10.68	2.80	4.24	13.01	8.84	5.00	1.52	0.17	0.50	0.38	0.20	
24	0.20	4.60	2.68	3.88	12.60	8.28	4.60	1.52	0.16	0.50	0.32	0.20	
25	0.20	2.98	4.80	3.52	14.65	12.28	4.24	1.44	0.16	0.80	0.26	0.18	
26	0.20	2.32	4.06	4.42	16.29	9.40	3.88	1.44	0.50	0.56	0.44	0.19	
27	8.00	1.72	7.72	3.88	24.56	11.64	3.52	1.36	0.80	0.56	0.16	0.20	
28	1.44	5.00	7.44	3.70	35.01	13.01	3.16	1.72	0.80	0.13	0.38	0.19	
29	1.04	5.40	4.80	3.16	21.20	10.04	2.80	1.84	0.74	0.68		0.15	
30	1.12	15.47	4.06	2.98	13.42	8.00	2.80	2.08	0.68	0.62		0.10	
31		20.30		3.16	21.20		2.80		0.80	0.56		0.08	
Total	20.01	203.85	514.48	215.33	595.95	579.62	212.72	55.84	30.07	19.09	12.96	6.81	2466.73 CMSDAY
Mean	0.67	6.58	17.15	6.95	19.22	19.32	6.86	1.86	0.97	0.62	0.46	0.22	6.76 CMS
Max	8.00	26.24	70.87	15.88	48.89	47.43	11.96	2.68	1.72	0.80	1.36	1.60	70.87 CMS
Min	0.10	0.17	2.68	2.98	4.24	8.00	2.80	1.36	0.16	0.13	0.16	0.08	0.08 CMS
Runoff	1.729	17.613	44.451	18.605	51.490	50.079	18.379	4.825	2.598	1.649	1.120	0.588	213.126 MCM

Momentary Peak 168.32 CMS, at 6.62 M (A.D), at 10.00 Hours, on Jun 10, 1994

Runoff Yield 18.46 Liters/Second/Square KM, Momentary Peak Yield 459.89 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

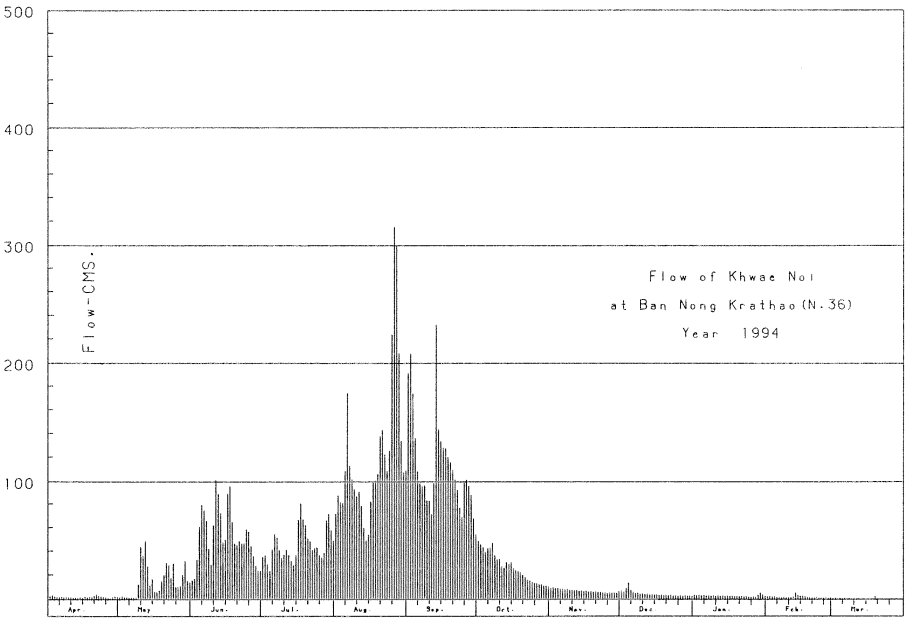
Nam Khwae Noi at Ban Nong Krathao, Phitsanulok (N.36)

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, Tambon Nong Krathao, 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 +6.55 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 66 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.12	1.00	2.42	3.73	5.56	7.25	4.45	1.91	1.64	1.21	1.08	0.85	
2	1.15	1.07	2.48	3.80	6.20	7.27	4.31	1.92	1.54	1.20	1.07	0.83	
3	1.09	1.00	3.61	3.35	5.99	7.23	4.16	1.90	1.86	1.20	1.05	0.82	
4	1.00	0.93	5.05	2.94	5.94	7.13	3.98	1.86	2.28	1.19	1.05	0.82	
5	1.00	0.87	5.90	4.09	6.95	6.94	4.11	1.84	1.73	1.18	1.02	0.82	
6	1.00	0.89	5.68	4.76	7.23	6.60	4.14	1.81	1.52	1.17	1.00	0.81	
7	0.99	0.85	5.30	4.61	7.01	6.50	4.38	1.79	1.44	1.16	0.98	0.80	
8	0.97	0.90	4.09	4.05	6.74	6.55	3.82	1.77	1.42	1.15	0.98	0.80	
9	0.96	2.15	3.33	3.66	6.41	6.04	3.58	1.74	1.38	1.14	0.97	0.80	
10	0.95	4.20	5.14	3.85	6.18	6.01	3.64	1.71	1.35	1.14	0.98	0.79	
11	0.93	3.79	6.71	4.05	6.33	5.55	3.22	1.70	1.33	1.14	0.99	0.78	
12	0.91	4.44	6.27	3.84	5.85	6.60	3.15	1.68	1.32	1.13	0.99	0.77	
13	0.90	3.25	5.58	3.50	5.02	7.30	3.46	1.66	1.29	1.13	1.48	0.75	
14	0.89	2.05	4.39	3.28	4.48	7.17	3.34	1.65	1.28	1.13	1.15	0.73	
15	0.93	2.49	4.50	3.81	4.76	7.12	3.44	1.62	1.27	1.12	1.12	0.73	
16	1.03	1.53	6.27	5.32	6.00	7.09	3.14	1.62	1.26	1.12	1.11	0.72	
17	0.97	1.54	6.53	5.95	6.64	7.09	2.99	1.60	1.23	1.10	1.09	0.70	
18	0.99	1.64	5.25	5.35	6.69	7.05	2.96	1.58	1.22	1.09	0.99	0.70	
19	1.03	2.35	4.35	5.15	6.88	7.03	2.88	1.57	1.20	1.09	0.96	1.12	
20	1.10	2.73	4.25	4.56	7.14	6.97	2.76	1.56	1.20	1.08	0.95	0.76	
21	1.28	3.40	4.46	4.46	7.17	6.74	2.59	1.54	1.20	1.07	0.93	0.84	
22	1.15	3.31	4.33	4.04	7.06	6.39	2.47	1.51	1.19	1.07	0.92	0.77	
23	1.05	2.53	4.35	4.12	6.94	5.80	2.39	1.49	1.17	1.06	0.91	0.73	
24	0.98	3.39	4.96	4.17	7.08	5.43	2.32	1.46	1.16	1.05	0.91	0.72	
25	0.96	1.98	4.89	3.81	7.29	6.64	2.26	1.44	1.15	1.04	0.91	0.71	
26	0.90	1.91	4.24	3.70	7.40	6.72	2.20	1.43	1.14	1.04	0.89	0.70	
27	0.86	2.05	3.75	3.93	7.38	6.54	2.18	1.44	1.13	1.04	0.89	0.74	
28	0.95	2.72	3.26	5.31	7.27	6.21	2.13	1.43	1.13	1.21	0.87	0.73	
29	1.07	3.49	2.97	5.58	7.12	5.40	2.08	1.44	1.13	1.48		0.72	
30	0.95	2.40	2.95	4.92	6.92	4.74	2.04	1.56	1.12	1.22		0.71	
31		2.25		4.48	6.95		2.01		1.12	1.09		0.71	
Mean	1.00	2.23	4.58	4.26	6.53	6.57	3.12	1.64	1.34	1.14	1.01	0.77	
Max	1.28	4.44	6.71	5.95	7.40	7.30	4.45	1.92	2.28	1.48	1.48	1.12	7.40
Min	0.86	0.85	2.42	2.94	4.48	4.74	2.01	1.43	1.12	1.04	0.87	0.70	0.70

Annual Max Momentary Gage Height 7.43 M (A.D), at 7.00 Hours, on Aug 26, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.21 M (A.D)
Left Bank Elevation 6.84 M (A.D)
Right Bank Elevation 6.54 M (A.D), Drainage Area 1651 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.06	2.10	16.29	36.08	72.60	191.67	49.55	10.15	7.40	3.78	2.74	1.43	
2	3.30	2.66	17.16	37.20	88.00	208.33	46.89	10.26	6.49	3.70	2.66	1.33	
3	2.82	2.10	34.16	30.00	82.75	175.00	44.04	10.05	9.63	3.70	2.50	1.29	
4	2.10	1.79	61.28	23.83	81.50	136.35	40.62	9.63	14.50	3.62	2.50	1.29	
5	2.10	1.52	80.50	42.71	109.15	108.78	43.09	9.42	8.30	3.54	2.26	1.29	
6	2.10	1.60	75.30	55.44	175.00	98.30	43.66	9.10	6.32	3.46	2.10	1.25	
7	2.06	1.43	66.75	52.59	112.95	95.65	48.22	8.90	5.64	3.38	2.01	1.20	
8	1.97	1.65	42.71	41.95	102.01	96.97	37.58	8.70	5.47	3.30	2.01	1.20	
9	1.92	12.90	29.68	34.96	93.26	84.00	33.68	8.40	5.14	3.22	1.97	1.20	
10	1.87	44.80	63.21	38.15	87.50	83.25	34.64	8.10	4.90	3.22	2.01	1.17	
11	1.79	37.04	101.21	41.95	91.25	72.38	27.92	8.00	4.74	3.22	2.06	1.13	
12	1.70	49.36	89.75	37.96	79.25	98.30	26.88	7.80	4.66	3.14	2.06	1.09	
13	1.65	28.40	73.05	32.40	60.63	233.33	31.76	7.60	4.42	3.14	5.98	1.02	
14	1.60	11.70	48.41	28.88	50.12	144.15	29.84	7.50	4.34	3.14	3.30	0.96	
15	1.79	17.30	50.50	37.39	55.44	134.40	31.44	7.20	4.26	3.06	3.06	0.96	
16	2.34	6.40	89.75	67.20	83.00	128.55	26.73	7.20	4.18	3.06	2.98	0.92	
17	1.97	6.49	96.44	81.75	99.36	128.55	24.55	7.00	3.94	2.90	2.82	0.85	
18	2.06	7.40	65.62	67.87	100.68	120.75	24.12	6.83	3.86	2.82	2.06	0.85	
19	2.34	15.37	47.65	63.43	106.56	116.85	22.96	6.75	3.70	2.82	1.92	3.06	
20	2.90	20.78	45.75	51.64	138.30	109.89	21.22	6.66	3.70	2.74	1.87	1.06	
21	4.34	30.80	49.74	49.74	144.15	102.01	18.75	6.49	3.70	2.66	1.79	1.38	
22	3.30	29.36	47.27	41.76	122.70	92.75	17.01	6.24	3.62	2.66	1.74	1.09	
23	2.50	17.88	47.65	43.28	108.78	78.00	15.88	6.07	3.46	2.58	1.70	0.96	
24	2.01	30.64	59.40	44.23	126.60	69.67	15.00	5.81	3.38	2.50	1.70	0.92	
25	1.92	10.89	58.00	37.39	225.00	99.36	14.25	5.64	3.30	2.42	1.70	0.88	
26	1.65	10.15	45.56	35.60	316.67	101.48	13.50	5.55	3.22	2.42	1.60	0.85	
27	1.47	11.70	36.40	39.67	300.00	96.71	13.26	5.64	3.14	2.42	1.60	0.99	
28	1.87	20.64	28.56	66.97	208.33	88.25	12.66	5.55	3.14	3.78	1.52	0.96	
29	2.66	32.24	24.26	73.05	134.40	69.00	12.06	5.64	3.14	5.98		0.92	
30	1.87	16.00	23.97	58.60	108.04	55.06	11.58	6.66	3.06	3.86		0.88	
31		14.12		50.12	109.15		11.22		3.06	2.82		0.88	
Total	67.03	497.21	1615.98	1443.79	3773.13	3417.74	844.56	224.54	151.81	99.06	64.22	35.26	12234.33 CMSDAY
Mean	2.23	16.04	53.87	46.57	121.71	113.92	27.24	7.48	4.90	3.20	2.29	1.14	33.52 CMS
Max	4.34	49.36	101.21	81.75	316.67	233.33	49.55	10.26	14.50	5.98	5.98	3.06	316.67 CMS
Min	1.47	1.43	16.29	23.83	50.12	55.06	11.22	5.55	3.06	2.42	1.52	0.85	0.85 CMS
Runoff	5.791	42.959	139.621	124.743	325.998	295.293	72.970	19.400	13.116	8.559	5.549	3.046	1057.046 MCM

Momentary Peak 341.67 CMS, at 7.43 M (A.D), at 7.00 Hours, on Aug 26, 1994

Runoff Yield 20.30 Liters/Second/Square KM, Momentary Peak Yield 206.95 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

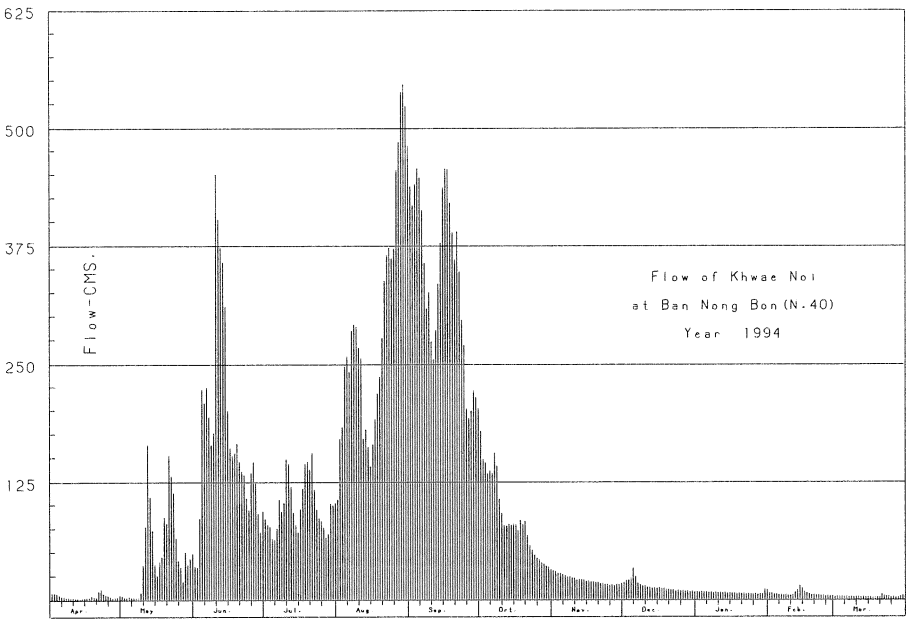
Nam Khwae Noi at Ban Nong Bon, Phitsanulok (N.40)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.81	0.69	1.86	3.13	3.48	8.62	4.90	1.75	1.34	0.91	0.87	0.66	
2	0.85	0.58	1.82	2.98	4.74	8.36	4.23	1.71	1.40	0.91	0.82	0.66	
3	0.79	0.59	3.14	2.94	4.97	8.65	4.14	1.67	1.43	0.91	0.79	0.66	
4	0.73	0.63	5.60	2.61	5.96	8.88	3.92	1.65	1.48	0.91	0.78	0.65	
5	0.67	0.61	5.37	2.59	6.12	8.75	3.96	1.62	1.82	0.90	0.76	0.65	
6	0.63	0.57	5.62	2.88	5.88	8.29	3.92	1.58	1.55	0.89	0.75	0.65	
7	0.60	0.57	5.15	3.47	6.52	7.53	4.40	1.55	1.31	0.88	0.74	0.64	
8	0.58	0.54	4.60	3.27	6.61	6.85	4.07	1.53	1.22	0.87	0.74	0.64	
9	0.56	0.87	4.86	3.42	6.57	7.09	3.49	1.51	1.19	0.87	0.73	0.64	
10	0.52	1.90	8.80	4.24	6.26	6.35	3.25	1.49	1.17	0.87	0.73	0.64	
11	0.55	2.93	8.16	4.11	6.09	6.08	2.96	1.44	1.14	0.86	0.73	0.64	
12	0.53	4.60	7.77	3.69	4.74	6.51	2.96	1.44	1.11	0.86	0.89	0.64	
13	0.50	3.51	7.54	3.26	4.93	7.23	2.99	1.45	1.10	0.86	0.99	0.63	
14	0.49	2.84	6.88	2.97	4.53	7.84	2.98	1.42	1.09	0.85	1.20	0.63	
15	0.54	1.90	5.25	2.79	4.06	8.61	3.00	1.39	1.09	0.85	1.07	0.62	
16	0.55	1.59	4.51	3.31	4.61	8.87	2.98	1.38	1.09	0.85	0.92	0.62	
17	0.55	1.99	4.31	3.67	5.10	8.87	2.84	1.36	1.08	0.83	0.85	0.61	
18	0.68	2.13	4.39	4.11	5.54	8.40	3.10	1.34	1.07	0.82	0.79	0.61	
19	0.62	3.16	4.63	4.17	5.79	7.98	2.98	1.33	1.05	0.82	0.76	0.60	
20	0.58	3.02	4.18	3.99	6.41	7.58	3.08	1.32	1.02	0.82	0.74	0.60	
21	0.94	4.33	3.95	4.39	7.26	8.00	2.70	1.30	1.01	0.81	0.73	0.79	
22	1.02	3.87	3.89	3.64	7.65	7.41	2.44	1.28	1.00	0.80	0.72	0.71	
23	0.82	3.59	3.50	3.31	7.77	6.67	2.31	1.26	0.95	0.80	0.71	0.66	
24	0.73	2.62	3.29	3.14	7.61	6.30	2.19	1.24	0.98	0.80	0.70	0.65	
25	0.72	2.04	3.93	3.09	7.75	5.28	2.11	1.22	0.97	0.79	0.69	0.63	
26	0.62	1.82	4.17	2.90	8.85	5.12	2.05	1.21	0.96	0.79	0.69	0.62	
27	0.57	1.37	3.78	2.65	9.24	5.25	1.98	1.20	0.95	0.78	0.68	0.61	
28	0.58	2.25	3.23	2.73	9.90	5.57	1.93	1.23	0.94	0.79	0.67	0.60	
29	0.63	1.91	2.79	3.40	10.01	5.47	1.88	1.24	0.93	0.81		0.68	
30	0.71	2.07	3.27	3.38	9.72	5.28	1.84	1.28	0.93	1.02		0.70	
31		2.21		3.41	9.18		1.76		0.92	1.00		0.65	
Mean	0.66	2.04	4.67	3.34	6.58	7.26	3.01	1.41	1.14	0.86	0.79	0.64	
Max	1.02	4.60	8.80	4.39	10.01	8.88	4.90	1.75	1.82	1.02	1.20	0.79	10.01
Min	0.49	0.54	1.82	2.59	3.48	5.12	1.76	1.20	0.92	0.78	0.67	0.60	0.49

Annual Max Momentary Gage Height 10.03 M (A.D), at 6.00 Hours, on Aug 29, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.41 M (A.D)
Left Bank Elevation 13.48 M (A.D)
Right Bank Elevation 13.35 M (A.D), Drainage Area 4340 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.2	4.8	36.1	86.9	107.5	438.2	180.0	32.2	19.5	9.2	8.4	4.2	
2	8.0	2.8	34.7	80.2	171.4	418.5	149.8	30.8	21.0	9.2	7.4	4.2	
3	6.8	2.9	87.3	78.6	184.2	440.5	146.0	29.4	21.9	9.2	6.8	4.2	
4	5.6	3.6	224.0	65.4	247.4	457.9	135.0	28.7	23.4	9.2	6.6	4.0	
5	4.4	3.2	209.1	64.6	258.4	448.0	137.5	27.7	34.7	9.0	6.2	4.0	
6	3.6	2.7	225.3	76.2	242.2	413.2	135.0	26.4	25.5	8.8	6.0	4.0	
7	3.0	2.7	195.0	106.9	286.4	357.1	157.0	25.5	18.7	8.6	5.8	3.8	
8	2.8	2.4	165.5	94.4	292.7	309.5	143.0	24.9	16.5	8.4	5.8	3.8	
9	2.6	8.4	177.6	103.8	289.9	326.3	108.1	24.3	15.8	8.4	5.6	3.8	
10	2.2	37.5	451.8	150.2	268.2	274.5	93.1	23.7	15.2	8.4	5.6	3.8	
11	2.5	78.2	403.3	144.7	256.3	255.6	79.4	22.2	14.5	8.2	5.6	3.8	
12	2.3	165.5	373.9	120.6	171.4	285.7	79.4	22.2	13.8	8.2	8.8	3.8	
13	2.0	109.4	357.8	93.8	181.8	336.1	80.6	22.5	13.5	8.2	10.8	3.6	
14	1.9	74.6	311.6	79.8	162.5	379.0	80.2	21.6	13.3	8.0	16.0	3.6	
15	2.4	37.5	201.3	72.6	142.6	437.4	81.0	20.7	13.3	8.0	12.8	3.4	
16	2.5	26.7	161.7	96.9	165.9	457.1	80.2	20.5	13.3	8.0	9.4	3.4	
17	2.5	40.7	153.2	119.4	192.0	457.1	74.6	20.0	13.0	7.6	8.0	3.2	
18	4.6	46.2	156.6	144.7	220.1	421.5	85.5	19.5	12.8	7.4	6.8	3.2	
19	3.4	88.2	166.8	147.2	236.4	389.6	80.2	19.3	12.2	7.4	6.2	3.0	
20	2.8	81.9	147.6	139.4	278.7	360.6	84.6	19.0	11.5	7.4	5.8	3.0	
21	9.8	154.0	136.9	156.6	338.2	391.2	69.0	18.5	11.3	7.2	5.6	6.8	
22	11.5	131.9	133.1	117.5	365.5	348.7	58.6	18.0	11.0	7.0	5.4	5.2	
23	7.4	114.4	108.8	96.9	373.9	296.9	53.4	17.5	10.0	7.0	5.2	4.2	
24	5.6	65.8	95.6	87.3	362.7	271.0	48.6	17.0	10.6	7.0	5.0	4.0	
25	5.4	42.6	135.6	85.0	372.5	203.2	45.4	16.5	10.4	6.8	4.8	3.6	
26	3.4	34.7	147.2	77.0	455.6	193.2	43.0	16.3	10.2	6.8	4.8	3.4	
27	2.7	20.3	126.3	67.0	486.0	201.3	40.3	16.0	10.0	6.6	4.6	3.2	
28	2.8	51.0	91.9	70.2	538.4	222.1	38.5	16.8	9.8	6.8	4.4	3.0	
29	3.6	37.8	72.6	102.5	547.1	215.6	36.8	17.0	9.6	7.2		4.6	
30	5.2	43.8	94.4	101.3	524.1	203.2	35.4	18.0	9.6	11.5		5.0	
31		49.4		103.1	481.3		32.6		9.4	11.0		4.0	
Total	130.5	1565.6	5382.6	3130.7	9201.3	10209.8	2691.8	652.7	455.3	251.7	194.2	120.8	33987.0 CMSDAY
Mean	4.4	50.5	179.4	101.0	296.8	340.3	86.8	21.8	14.7	8.1	6.9	3.9	93.1 CMS
Max	11.5	165.5	451.8	156.6	547.1	457.9	180.0	32.2	34.7	11.5	16.0	6.8	547.1 CMS
Min	1.9	2.4	34.7	64.6	107.5	193.2	32.6	16.0	9.4	6.6	4.4	3.0	1.9 CMS
Runoff	11.28	135.27	465.06	270.49	794.99	882.13	232.57	56.39	39.34	21.75	16.78	10.44	2936.48 MCM

Momentary Peak 548.66 CMS, at 10.03 M (A.D), at 6.00 Hours, on Aug 29, 1994

Runoff Yield 21.46 Liters/Second/Square KM, Momentary Peak Yield 126.42 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

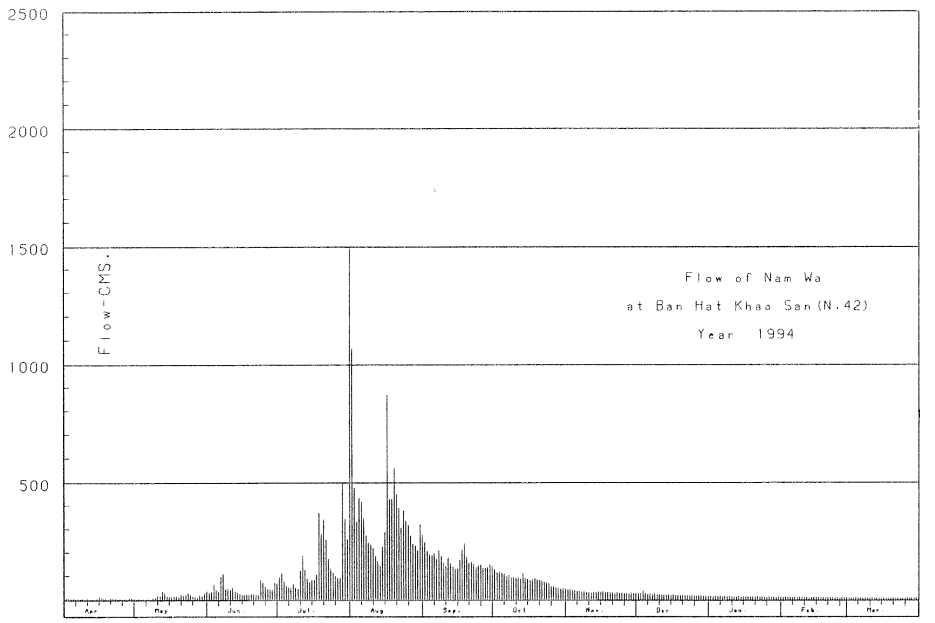
Nam Wa at Ban Hat Khao San, Nan (N.42)

Location	Lat. 18°-34'-08" N., Long. 100°-52'-28" E., on right bank at Ban Hat Khao San, Tambon Lai Nan, Amphoe Sa, Nan.
Drainage Area	2,107 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	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.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 113 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.66	1.58	1.98	2.84	8.66	4.59	3.31	2.29	2.15	2.02	1.93	1.86	
2	1.62	1.58	2.01	3.12	6.09	4.25	3.15	2.28	2.14	2.01	1.93	1.86	
3	1.61	1.57	2.34	2.54	5.27	4.07	3.16	2.27	2.26	2.01	1.93	1.86	
4	1.60	1.57	2.08	2.28	5.87	4.06	3.13	2.26	2.16	2.01	1.92	1.86	
5	1.60	1.56	2.03	2.21	5.79	4.14	3.05	2.25	2.13	2.01	1.92	1.85	
6	1.59	1.56	2.89	2.15	5.36	3.87	2.93	2.23	2.12	2.00	1.92	1.85	
7	1.59	1.57	3.06	2.37	4.84	4.28	2.96	2.22	2.12	2.00	1.91	1.85	
8	1.59	1.64	2.13	2.18	4.57	4.03	2.82	2.21	2.15	1.99	1.91	1.85	
9	1.59	1.69	2.13	2.14	4.52	3.69	2.80	2.21	2.12	1.99	1.91	1.85	
10	1.59	1.80	2.11	3.27	4.37	3.51	2.77	2.19	2.11	1.99	1.91	1.85	
11	1.59	1.81	2.17	4.06	4.03	3.94	2.80	2.19	2.10	1.98	1.91	1.84	
12	1.59	2.05	2.06	3.31	3.76	3.64	2.75	2.19	2.09	1.98	1.91	1.84	
13	1.59	1.95	1.98	2.73	3.53	3.49	3.11	2.20	2.09	1.98	1.90	1.84	
14	1.59	1.78	1.93	2.49	4.41	3.34	2.73	2.21	2.08	1.97	1.90	1.83	
15	1.78	1.74	1.88	2.61	4.95	3.39	2.67	2.22	2.08	1.97	1.90	1.83	
16	1.68	1.72	1.86	2.65	7.90	3.83	2.64	2.22	2.08	1.97	1.90	1.83	
17	1.63	1.78	1.92	3.00	5.84	4.29	2.68	2.21	2.08	1.97	1.90	1.82	
18	1.59	1.77	1.86	5.51	5.84	4.56	2.80	2.20	2.07	1.97	1.89	1.82	
19	1.59	1.74	1.91	4.86	6.52	3.99	2.65	2.20	2.07	1.96	1.89	1.82	
20	1.64	1.86	1.86	5.32	5.97	3.68	2.65	2.19	2.06	1.96	1.89	1.82	
21	1.64	1.82	1.84	4.69	5.63	3.75	2.59	2.18	2.06	1.96	1.88	1.82	
22	1.60	1.85	1.86	3.87	5.08	3.61	2.50	2.18	2.05	1.95	1.88	1.82	
23	1.59	1.97	2.65	3.37	5.57	3.45	2.46	2.17	2.05	1.95	1.87	1.82	
24	1.58	1.85	2.43	3.13	5.29	3.53	2.43	2.17	2.05	1.95	1.87	1.82	
25	1.57	1.77	2.22	2.88	5.18	3.61	2.40	2.16	2.05	1.95	1.87	1.82	
26	1.57	1.72	2.13	2.78	4.83	3.37	2.39	2.16	2.04	1.94	1.87	1.82	
27	1.56	1.70	2.13	2.79	4.52	3.43	2.37	2.15	2.04	1.94	1.87	1.82	
28	1.63	1.87	2.08	6.21	4.47	3.42	2.35	2.17	2.03	1.94	1.87	1.82	
29	1.62	1.82	2.49	5.35	4.26	3.61	2.33	2.17	2.03	1.94		1.83	
30	1.59	1.94	2.36	4.70	5.19	3.51	2.32	2.16	2.03	1.94		1.83	
31		2.03		10.19	4.85		2.31		2.02	1.94		1.83	
Mean	1.61	1.76	2.15	3.60	5.26	3.80	2.71	2.20	2.09	1.97	1.90	1.83	
Max	1.78	2.05	3.06	10.19	8.66	4.59	3.31	2.29	2.26	2.02	1.93	1.86	10.19
Min	1.56	1.56	1.84	2.14	3.53	3.34	2.31	2.15	2.02	1.94	1.87	1.82	1.56

Annual Max Momentary Gage Height 12.21 M (A.D), at 23.00 Hours, on Aug 31, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.97 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.4	7.3	34.8	100.4	1071.6	248.8	131.7	47.6	31.0	20.0	15.5	12.7	
2	9.3	7.3	37.6	118.4	479.1	212.0	120.5	46.3	29.9	19.3	15.5	12.7	
3	8.7	6.8	70.4	82.4	337.5	194.7	121.2	45.1	43.8	19.3	15.5	12.7	
4	8.2	6.8	44.6	65.8	437.6	193.7	119.1	43.8	32.1	19.3	15.1	12.7	
5	8.2	6.4	39.6	58.1	423.2	201.3	113.5	42.6	28.8	19.3	15.1	12.3	
6	7.7	6.4	103.4	51.8	351.0	176.3	105.8	40.1	27.8	18.6	15.1	12.3	
7	7.7	6.8	114.2	72.2	279.2	215.0	107.6	38.9	27.8	18.6	14.6	12.3	
8	7.7	10.4	49.7	54.9	246.4	190.9	99.2	37.6	31.0	18.2	14.6	12.3	
9	7.7	13.1	49.7	50.8	240.4	161.2	98.0	37.6	27.8	18.2	14.6	12.3	
10	7.7	20.0	47.6	128.9	224.3	146.8	96.2	35.3	26.7	18.2	14.6	12.3	
11	7.7	20.8	53.9	193.7	190.9	182.6	98.0	35.3	25.6	17.7	14.6	11.9	
12	7.7	41.6	42.6	131.7	166.8	157.2	95.0	35.3	24.9	17.7	14.6	11.9	
13	7.7	32.1	34.8	93.8	148.4	145.2	117.7	36.4	24.9	17.7	14.2	11.9	
14	7.7	18.7	30.3	79.4	228.5	133.8	93.8	37.6	24.2	17.3	14.2	11.5	
15	18.7	16.2	26.1	86.6	293.5	137.3	90.2	38.9	24.2	17.3	14.2	11.5	
16	12.5	14.9	24.6	89.0	877.0	172.7	88.4	38.9	24.2	17.3	14.2	11.5	
17	9.8	18.7	29.4	110.0	432.2	216.0	90.8	37.6	24.2	17.3	14.2	11.2	
18	7.7	18.1	24.6	374.7	432.2	245.2	98.0	36.4	23.5	17.3	13.8	11.2	
19	7.7	16.2	28.5	281.8	566.2	187.1	89.0	36.4	23.5	16.8	13.8	11.2	
20	10.4	24.6	24.6	345.0	456.3	160.4	89.0	35.3	22.8	16.8	13.8	11.2	
21	10.4	21.5	23.0	260.8	395.1	166.0	85.4	34.2	22.8	16.8	13.4	11.2	
22	8.2	23.8	24.6	176.3	310.4	154.8	80.0	34.2	22.1	16.4	13.4	11.2	
23	7.7	33.9	89.0	135.9	384.9	142.0	77.6	33.2	22.1	16.4	13.1	11.2	
24	7.3	23.8	75.8	119.1	340.5	148.4	75.8	33.2	22.1	16.4	13.1	11.2	
25	6.8	18.1	59.2	102.8	324.2	154.8	61.3	32.1	22.1	16.4	13.1	11.2	
26	6.8	14.9	49.7	96.8	277.9	135.9	60.1	32.1	21.4	16.0	13.1	11.2	
27	6.4	13.6	49.7	97.4	240.4	140.4	57.5	31.0	21.4	16.0	13.1	11.2	
28	9.8	25.3	44.6	502.0	234.8	139.6	55.0	33.2	20.7	16.0	13.1	11.2	
29	9.3	21.5	79.4	349.5	213.0	154.8	52.5	33.2	20.7	16.0		11.5	
30	7.7	31.2	71.6	262.0	325.6	146.8	51.3	32.1	20.7	16.0		11.5	
31		39.6		1497.0	280.5		50.0		20.0	16.0		11.5	
Total	262.3	580.4	1477.6	6169.0	11209.6	5161.7	2769.2	1111.5	784.8	540.6	397.2	363.7	30827.6 CMSDAY
Mean	8.7	18.7	49.3	199.0	361.6	172.1	89.3	37.0	25.3	17.4	14.2	11.7	84.5 CMS
Max	18.7	41.6	114.2	1497.0	1071.6	248.8	131.7	47.6	43.8	20.0	15.5	12.7	1497.0 CMS
Min	6.4	6.4	23.0	50.8	148.4	133.8	50.0	31.0	20.0	16.0	13.1	11.2	6.4 CMS
Runoff	22.66	50.15	127.66	533.00	968.51	445.97	239.26	96.03	67.81	46.71	34.32	31.42	2663.50 MCM

Momentary Peak 2133.20 CMS, at 12.21 M (A.D), at 23.00 Hours, on Aug 31, 1994
Runoff Yield 40.09 Liters/Second/Square KM, Momentary Peak Yield 1012.43 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

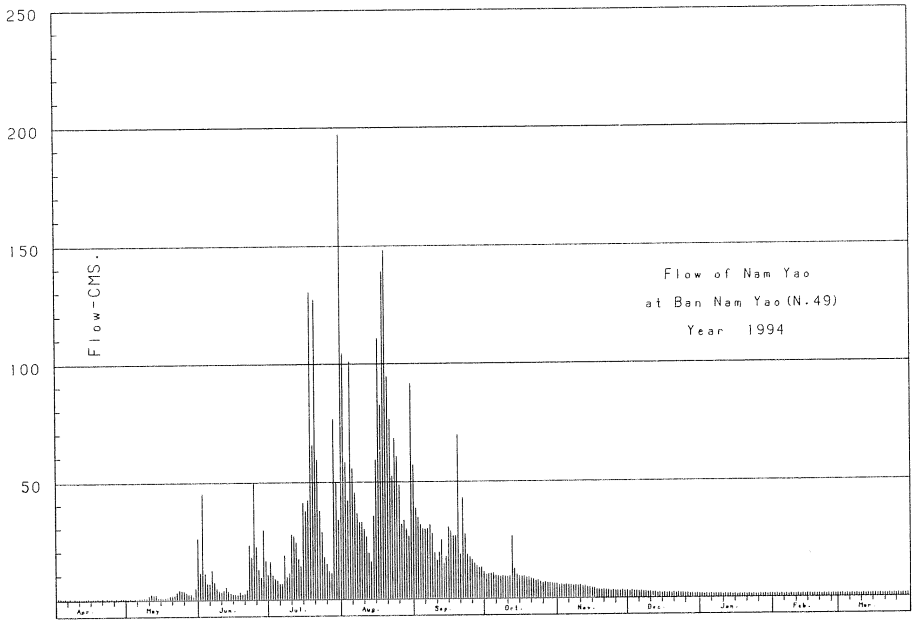
Nam Yao at Ban Nam Yao, Nan (N.49)

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 25 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.37	1.36	1.80	1.87	2.61	2.12	1.78	1.67	1.56	1.48	1.46	1.46	
2	1.36	1.36	2.18	1.78	2.29	2.08	1.78	1.67	1.58	1.48	1.46	1.46	
3	1.36	1.36	1.80	1.74	2.15	2.05	1.79	1.67	1.57	1.48	1.46	1.46	
4	1.36	1.35	1.70	1.73	2.59	2.03	1.79	1.67	1.56	1.48	1.46	1.46	
5	1.36	1.35	1.70	1.70	2.27	2.03	1.77	1.67	1.56	1.48	1.46	1.46	
6	1.36	1.35	1.82	1.69	2.18	2.03	1.76	1.66	1.56	1.48	1.46	1.46	
7	1.36	1.40	1.71	1.91	2.10	2.05	1.76	1.66	1.56	1.48	1.46	1.46	
8	1.36	1.40	1.64	1.76	2.06	2.01	1.76	1.66	1.55	1.48	1.46	1.46	
9	1.36	1.41	1.60	1.80	2.06	1.92	1.76	1.66	1.55	1.48	1.46	1.46	
10	1.36	1.48	1.59	2.01	2.03	1.88	1.76	1.66	1.54	1.47	1.46	1.46	
11	1.36	1.54	1.61	2.00	2.00	1.92	1.76	1.65	1.54	1.47	1.46	1.46	
12	1.36	1.52	1.66	1.97	1.92	1.98	2.00	1.65	1.53	1.47	1.46	1.46	
13	1.36	1.51	1.60	1.89	1.87	1.86	1.82	1.64	1.52	1.47	1.46	1.46	
14	1.37	1.42	1.56	1.84	2.09	1.90	1.78	1.63	1.52	1.46	1.46	1.46	
15	1.37	1.40	1.52	2.14	2.30	2.04	1.76	1.63	1.52	1.46	1.46	1.46	
16	1.36	1.38	1.52	2.11	2.65	2.02	1.76	1.62	1.52	1.46	1.46	1.46	
17	1.36	1.42	1.52	2.15	2.47	2.00	1.76	1.61	1.52	1.46	1.46	1.46	
18	1.36	1.42	1.57	2.77	2.82	2.00	1.75	1.60	1.52	1.46	1.46	1.46	
19	1.36	1.47	1.53	2.35	2.87	2.38	1.75	1.60	1.52	1.46	1.46	1.46	
20	1.38	1.50	1.53	2.75	2.55	1.91	1.74	1.60	1.52	1.46	1.46	1.46	
21	1.36	1.51	1.62	2.30	2.43	2.16	1.73	1.60	1.52	1.46	1.46	1.46	
22	1.35	1.58	1.96	2.11	2.24	2.01	1.72	1.59	1.52	1.46	1.46	1.46	
23	1.35	1.61	1.90	2.02	2.37	1.91	1.72	1.58	1.52	1.46	1.46	1.46	
24	1.35	1.61	2.22	1.90	2.31	1.90	1.71	1.58	1.51	1.46	1.46	1.46	
25	1.35	1.59	1.95	1.86	2.21	1.88	1.70	1.58	1.51	1.46	1.46	1.46	
26	1.35	1.56	1.82	1.81	2.05	1.86	1.70	1.57	1.50	1.46	1.46	1.46	
27	1.35	1.53	1.76	1.80	2.07	1.84	1.70	1.57	1.50	1.46	1.46	1.46	
28	1.36	1.52	2.03	2.43	2.03	1.83	1.69	1.58	1.49	1.46	1.46	1.46	
29	1.36	1.46	1.88	2.22	2.00	1.83	1.69	1.57	1.49	1.46		1.46	
30	1.36	1.64	1.78	2.07	2.53	1.80	1.68	1.57	1.49	1.46		1.46	
31		1.99		3.14	2.28		1.68		1.49	1.46		1.46	
Mean	1.36	1.48	1.74	2.05	2.27	1.97	1.75	1.62	1.53	1.47	1.46	1.46	
Max	1.38	1.99	2.22	3.14	2.87	2.38	2.00	1.67	1.58	1.48	1.46	1.46	3.14
Min	1.35	1.35	1.52	1.69	1.87	1.80	1.68	1.57	1.49	1.46	1.46	1.46	1.35

Annual Max Momentary Gage Height 3.33 M (A.D), at 6.00 Hours, on Jul 20, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.18 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.66	11.50	16.12	104.60	38.96	10.60	6.04	3.08	1.78	1.56	1.56	
2	0.66	0.66	45.44	10.60	58.31	34.84	10.60	6.04	3.44	1.78	1.56	1.56	
3	0.66	0.66	11.50	8.80	42.20	31.90	11.05	6.04	3.26	1.78	1.56	1.56	
4	0.66	0.60	7.00	8.35	101.40	29.94	11.05	6.04	3.08	1.78	1.56	1.56	
5	0.66	0.60	7.00	7.00	55.93	29.94	10.15	6.04	3.08	1.78	1.56	1.56	
6	0.66	0.60	12.82	6.68	45.44	29.94	9.70	5.72	3.08	1.78	1.56	1.56	
7	0.66	0.90	7.45	18.99	36.80	31.90	9.70	5.72	3.08	1.78	1.56	1.56	
8	0.66	0.90	5.08	9.70	32.88	27.98	9.70	5.72	2.90	1.78	1.56	1.56	
9	0.66	1.01	3.80	11.50	32.88	19.88	9.70	5.72	2.90	1.78	1.56	1.56	
10	0.66	1.78	3.62	27.98	29.94	16.78	9.70	5.72	2.72	1.67	1.56	1.56	
11	0.66	2.72	4.12	27.00	27.00	19.88	9.70	5.40	2.72	1.67	1.56	1.56	
12	0.66	2.36	5.72	24.33	19.88	25.22	27.00	5.40	2.54	1.67	1.56	1.56	
13	0.66	2.18	3.80	17.44	16.12	15.46	12.82	5.08	2.36	1.67	1.56	1.56	
14	0.72	1.12	3.08	14.14	35.82	18.10	10.60	4.76	2.36	1.56	1.56	1.56	
15	0.72	0.90	2.36	41.12	59.50	30.92	9.70	4.76	2.36	1.56	1.56	1.56	
16	0.66	0.78	2.36	37.88	111.00	28.96	9.70	4.44	2.36	1.56	1.56	1.56	
17	0.66	1.12	2.36	42.20	82.65	27.00	9.70	4.12	2.36	1.56	1.56	1.56	
18	0.66	1.12	3.26	130.90	139.50	27.00	9.25	3.80	2.36	1.56	1.56	1.56	
19	0.66	1.67	2.54	66.00	148.25	69.90	9.25	3.80	2.36	1.56	1.56	1.56	
20	0.78	2.00	2.54	127.50	95.00	18.99	8.80	3.80	2.36	1.56	1.56	1.56	
21	0.66	2.18	4.44	59.50	76.85	43.28	8.35	3.80	2.36	1.56	1.56	1.56	
22	0.60	3.44	23.44	37.88	52.36	27.98	7.90	3.62	2.36	1.56	1.56	1.56	
23	0.60	4.12	18.10	28.96	68.60	18.99	7.90	3.44	2.36	1.56	1.56	1.56	
24	0.60	4.12	49.98	18.10	60.80	18.10	7.45	3.44	2.18	1.56	1.56	1.56	
25	0.60	3.62	22.55	15.46	48.79	16.78	7.00	3.44	2.18	1.56	1.56	1.56	
26	0.60	3.08	12.82	12.16	31.90	15.46	7.00	3.26	2.00	1.56	1.56	1.56	
27	0.60	2.54	9.70	11.50	33.86	14.14	7.00	3.26	2.00	1.56	1.56	1.56	
28	0.66	2.36	29.94	76.85	29.94	13.48	6.68	3.44	1.89	1.56	1.56	1.56	
29	0.66	1.56	16.78	49.98	27.00	13.48	6.68	3.26	1.89	1.56		1.56	
30	0.66	5.08	10.60	33.86	91.80	11.50	6.36	3.26	1.89	1.56		1.56	
31		26.11		197.60	57.12		6.36		1.89	1.56		1.56	
Total	19.74	82.55	345.70	1196.08	1854.12	766.68	297.15	138.38	77.76	50.78	43.68	48.36	4920.98 CMSDAY
Mean	0.66	2.66	11.52	38.58	59.81	25.56	9.59	4.61	2.51	1.64	1.56	1.56	13.48 CMS
Max	0.78	26.11	49.98	197.60	148.25	69.90	27.00	6.04	3.44	1.78	1.56	1.56	197.60 CMS
Min	0.60	0.60	2.36	6.68	16.12	11.50	6.36	3.26	1.89	1.56	1.56	1.56	0.60 CMS
Runoff	1.706	7.132	29.868	103.341	160.196	66.241	25.674	11.956	6.718	4.387	3.774	4.178	425.173 MCM

Momentary Peak 233.70 CMS, at 3.33 M (A.D), at 6.00 Hours, on Jul 20, 1994

Runoff Yield 86.98 Liters/Second/Square KM, Momentary Peak Yield 1507.74 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

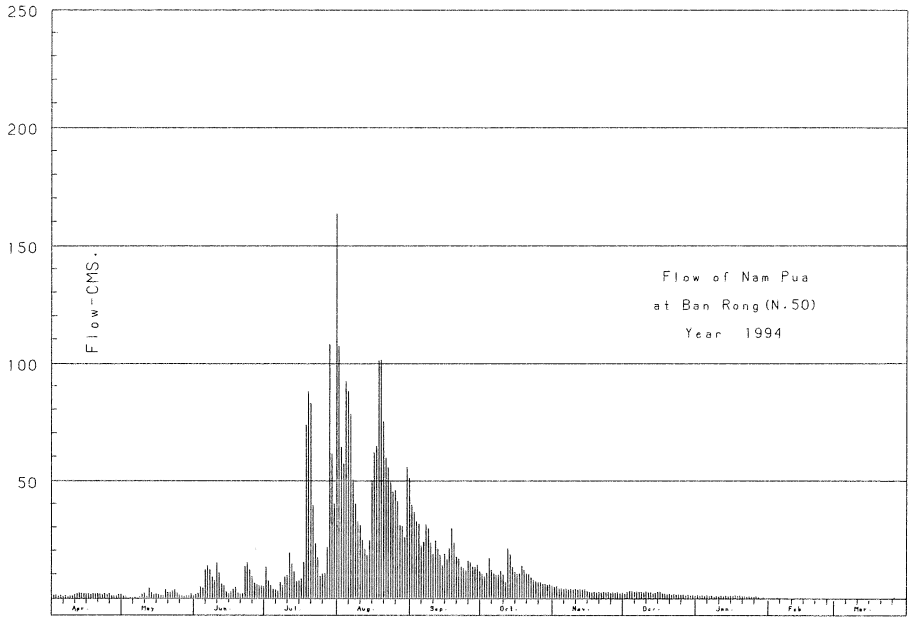
Nam Pua at Ban Rong, Nan (N.50)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.11	0.14	0.52	1.59	0.72	0.22	0.06	-0.08	-0.14	-0.26	-0.29	
2	0.12	0.09	0.18	0.37	1.22	0.68	0.20	0.06	-0.05	-0.15	-0.27	-0.30	
3	0.11	0.02	0.28	0.30	0.94	0.62	0.23	0.03	-0.02	-0.15	-0.26	-0.30	
4	0.11	0.01	0.27	0.25	1.30	0.61	0.37	0.02	-0.04	-0.15	-0.25	-0.30	
5	0.09	0.02	0.50	0.24	1.26	0.46	0.26	0.02	-0.04	-0.15	-0.25	-0.30	
6	0.10	0.01	0.53	0.21	1.16	0.49	0.23	0.02	-0.04	-0.16	-0.28	-0.29	
7	0.09	0.02	0.50	0.35	0.86	0.60	0.21	0.01	-0.04	-0.16	-0.29	-0.29	
8	0.09	0.06	0.42	0.30	0.73	0.58	0.22	0.01	-0.05	-0.18	-0.27	-0.30	
9	0.11	0.15	0.37	0.42	0.62	0.48	0.25	0.01	-0.05	-0.18	-0.27	-0.30	
10	0.13	0.16	0.56	0.43	0.60	0.40	0.22	0.01	-0.04	-0.17	-0.30	-0.30	
11	0.17	0.10	0.46	0.65	0.50	0.50	0.13	0.01	-0.05	-0.16	-0.32	-0.29	
12	0.18	0.26	0.33	0.55	0.44	0.44	0.44	0.01	-0.06	-0.16	-0.30	-0.30	
13	0.16	0.18	0.30	0.47	0.39	0.39	0.40	0.01	-0.07	-0.16	-0.27	-0.30	
14	0.16	0.14	0.21	0.36	0.50	0.31	0.29	0.01	-0.07	-0.16	-0.27	-0.30	
15	0.15	0.14	0.16	0.37	0.86	0.40	0.24	-0.02	-0.04	-0.16	-0.27	-0.30	
16	0.15	0.13	0.20	0.39	0.99	0.36	0.22	-0.05	-0.05	-0.15	-0.27	-0.30	
17	0.15	0.12	0.25	0.57	1.02	0.44	0.23	-0.05	-0.07	-0.15	-0.27	-0.30	
18	0.16	0.10	0.27	1.31	1.39	0.58	0.31	-0.05	-0.09	-0.15	-0.28	-0.30	
19	0.16	0.24	0.19	1.43	1.39	0.48	0.26	-0.05	-0.09	-0.15	-0.28	-0.30	
20	0.17	0.18	0.14	1.39	1.13	0.38	0.23	-0.05	-0.09	-0.16	-0.28	-0.30	
21	0.14	0.20	0.15	0.94	0.97	0.36	0.22	-0.05	-0.10	-0.18	-0.29	-0.30	
22	0.14	0.22	0.53	0.72	0.92	0.30	0.19	-0.05	-0.10	-0.18	-0.30	-0.30	
23	0.15	0.23	0.56	0.61	0.85	0.28	0.15	-0.05	-0.10	-0.18	-0.30	-0.30	
24	0.14	0.18	0.50	0.43	0.80	0.26	0.14	-0.05	-0.11	-0.18	-0.30	-0.30	
25	0.15	0.12	0.42	0.45	0.81	0.35	0.13	-0.06	-0.11	-0.18	-0.30	-0.28	
26	0.11	0.10	0.34	0.46	0.74	0.33	0.12	-0.06	-0.12	-0.19	-0.30	-0.25	
27	0.09	0.09	0.32	0.69	0.60	0.30	0.11	-0.06	-0.13	-0.22	-0.28	-0.25	
28	0.11	0.10	0.30	1.60	0.59	0.29	0.10	-0.06	-0.13	-0.22	-0.28	-0.26	
29	0.13	0.11	0.30	1.19	0.52	0.31	0.09	-0.07	-0.14	-0.22		-0.27	
30	0.14	0.15	0.28	0.95	0.92	0.25	0.09	-0.07	-0.15	-0.26		-0.28	
31		0.12		2.02	0.87		0.07		-0.15	-0.26		-0.28	
Mean	0.13	0.12	0.33	0.68	0.89	0.43	0.21	-0.02	-0.08	-0.17	-0.28	-0.29	
Max	0.18	0.26	0.56	2.02	1.59	0.72	0.44	0.06	-0.02	-0.14	-0.25	-0.25	2.02
Min	0.09	0.01	0.14	0.21	0.39	0.25	0.07	-0.07	-0.15	-0.26	-0.32	-0.30	-0.32

Annual Max Momentary Gage Height 2.10 M (A.D), at 11.00 Hours, on Jul 31, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.79 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.73	1.38	1.90	13.40	107.30	39.90	10.44	5.29	2.33	1.53	0.51	0.32	
2	1.55	1.12	2.60	7.77	64.60	37.10	9.60	5.29	2.90	1.43	0.45	0.25	
3	1.38	0.56	5.07	5.60	57.60	32.90	10.86	4.57	3.47	1.43	0.51	0.25	
4	1.38	0.48	4.80	4.27	92.50	32.20	17.44	4.33	3.09	1.43	0.58	0.25	
5	1.12	0.56	12.50	4.01	88.50	22.60	12.12	4.33	3.09	1.43	0.58	0.25	
6	1.20	0.48	13.85	3.21	78.50	24.40	10.86	4.33	3.09	1.32	0.38	0.32	
7	1.12	0.56	12.50	7.15	50.60	31.50	10.02	4.09	3.09	1.32	0.32	0.32	
8	1.12	0.88	9.46	5.60	40.60	30.20	10.44	4.09	2.90	1.11	0.45	0.25	
9	1.38	2.08	7.77	9.46	32.90	23.80	11.70	4.09	2.90	1.11	0.45	0.25	
10	1.73	2.25	15.20	9.84	31.50	19.00	10.44	4.09	3.09	1.22	0.25	0.25	
11	2.43	1.20	10.98	19.75	25.00	25.00	7.26	4.09	2.90	1.32	0.20	0.32	
12	2.60	4.54	6.53	14.75	21.40	21.40	21.40	4.09	2.71	1.32	0.25	0.25	
13	2.25	2.60	5.60	11.36	18.48	18.48	19.00	4.09	2.52	1.32	0.45	0.25	
14	2.25	1.90	3.21	7.46	25.00	14.32	13.38	4.09	2.52	1.32	0.45	0.25	
15	2.08	1.90	2.25	7.77	50.60	19.00	11.28	3.47	3.09	1.32	0.45	0.25	
16	2.08	1.73	2.95	8.39	62.10	16.92	10.44	2.90	2.90	1.43	0.45	0.25	
17	2.08	1.55	4.27	15.65	64.90	21.40	10.86	2.90	2.52	1.43	0.45	0.25	
18	2.25	1.20	4.80	74.15	101.50	30.20	14.32	2.90	2.14	1.43	0.38	0.25	
19	2.25	4.01	2.78	88.10	101.50	23.80	12.12	2.90	2.14	1.43	0.38	0.25	
20	2.43	2.60	1.90	83.35	75.50	17.96	10.86	2.90	2.14	1.32	0.38	0.25	
21	1.90	2.95	2.08	39.70	60.30	16.92	10.44	2.90	1.95	1.11	0.32	0.25	
22	1.90	3.48	13.85	23.80	55.80	13.80	9.27	2.90	1.95	1.11	0.25	0.25	
23	2.08	3.75	15.20	17.55	49.75	12.96	7.93	2.90	1.95	1.11	0.25	0.25	
24	1.90	2.60	12.50	9.84	45.50	12.12	7.59	2.90	1.85	1.11	0.25	0.25	
25	2.08	1.55	9.46	10.60	46.35	16.40	7.26	2.71	1.85	1.11	0.25	0.38	
26	1.38	1.20	6.84	10.98	41.30	15.36	6.92	2.71	1.74	1.00	0.25	0.58	
27	1.12	1.12	6.22	21.95	31.50	13.80	6.59	2.71	1.64	0.77	0.38	0.58	
28	1.38	1.20	5.60	108.50	30.85	13.38	6.25	2.71	1.64	0.77	0.38	0.51	
29	1.73	1.38	5.60	61.60	26.30	14.32	6.01	2.52	1.53	0.77		0.45	
30	1.90	2.08	5.07	40.50	55.80	11.70	6.01	2.52	1.43	0.51		0.38	
31		1.55		164.00	51.45		5.53		1.43	0.51		0.38	
Total	53.78	56.44	213.34	910.06	1685.48	642.84	324.64	106.31	74.49	36.85	10.65	9.54	4124.42 CMSDAY
Mean	1.79	1.82	7.11	29.36	54.37	21.43	10.47	3.54	2.40	1.19	0.38	0.31	11.30 CMS
Max	2.60	4.54	15.20	164.00	107.30	39.90	21.40	5.29	3.47	1.53	0.58	0.58	164.00 CMS
Min	1.12	0.48	1.90	3.21	18.48	11.70	5.53	2.52	1.43	0.51	0.20	0.25	0.20 CMS
Runoff	4.647	4.876	18.433	78.629	145.625	55.541	28.049	9.185	6.436	3.184	0.920	0.824	356.350 MCM

Momentary Peak 176.00 CMS, at 2.10 M (A.D), at 11.00 Hours, on Jul 31, 1994

Runoff Yield 58.85 Liters/Second/Square KM, Momentary Peak Yield 916.67 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

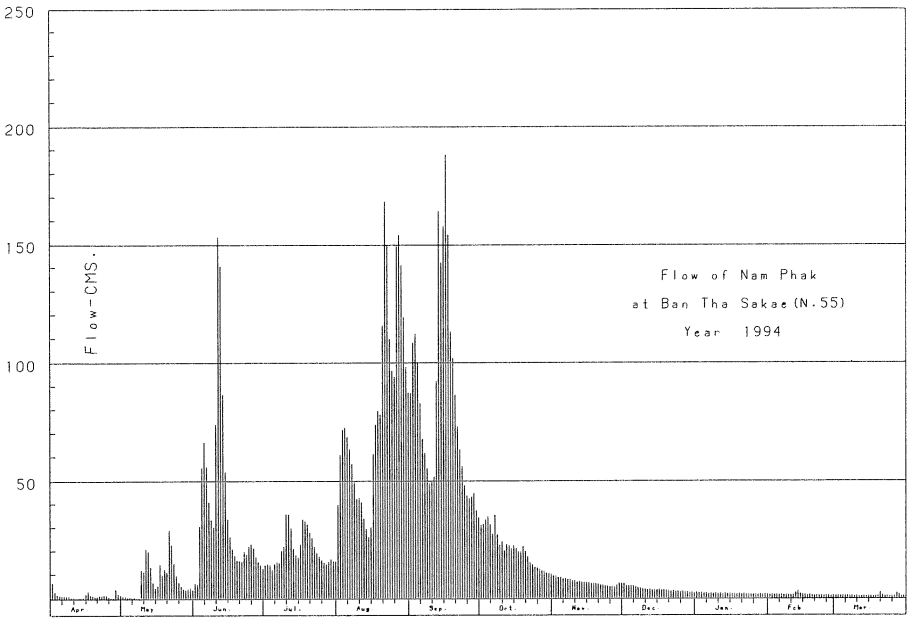
Nam Phak at Ban Tha Sakae, Phitsanulok (N.55)

Location	Lat. 17°-15'-10" N., Long. 100°-37'-51" E., on left bank at the bridge of Nakhon Thai-Chat Trakarn road, Tambon Pa Daeng, 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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +5.97 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 53 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.23	0.69	1.19	1.80	3.41	5.48	2.90	1.47	1.21	0.87	0.78	0.70	
2	0.88	0.66	1.18	1.82	4.50	5.85	2.94	1.45	1.12	0.87	0.78	0.70	
3	0.77	0.63	2.87	1.79	4.99	5.89	3.04	1.42	1.13	0.86	0.78	0.70	
4	0.71	0.62	4.25	1.67	5.04	5.74	3.12	1.40	1.12	0.85	0.78	0.70	
5	0.70	0.60	4.77	1.84	4.87	5.38	2.93	1.37	1.13	0.84	0.77	0.70	
6	0.68	0.59	4.26	1.88	4.62	4.83	2.68	1.36	1.09	0.83	0.77	0.69	
7	0.67	0.59	3.49	1.87	4.33	4.54	3.17	1.35	1.06	0.83	0.77	0.69	
8	0.65	0.61	3.05	2.21	3.95	4.24	2.68	1.33	1.04	0.83	0.76	0.68	
9	0.62	1.65	2.85	2.35	3.57	3.90	2.38	1.31	1.03	0.84	0.76	0.67	
10	0.60	1.58	5.09	3.19	3.59	3.97	2.50	1.29	1.01	0.83	0.76	0.68	
11	0.59	2.26	6.29	3.17	3.49	4.05	2.23	1.26	1.00	0.83	0.76	0.67	
12	0.61	2.20	6.18	2.83	3.07	5.60	2.40	1.26	1.00	0.82	0.88	0.67	
13	0.60	1.74	5.47	2.29	2.81	6.39	2.38	1.25	0.99	0.82	0.94	0.67	
14	0.60	1.23	4.15	2.08	2.62	6.19	2.28	1.23	0.98	0.82	0.82	0.67	
15	0.81	1.03	3.07	2.03	2.86	6.33	2.37	1.23	0.99	0.82	0.77	0.67	
16	0.91	1.12	2.61	2.40	4.52	6.57	2.30	1.22	1.00	0.82	0.75	0.67	
17	0.75	1.81	2.28	3.06	5.10	6.30	2.19	1.21	0.99	0.81	0.75	0.67	
18	0.70	1.50	2.07	3.00	5.29	5.90	2.18	1.20	0.98	0.81	0.75	0.67	
19	0.67	1.66	1.95	2.94	5.25	5.77	2.36	1.19	0.97	0.81	0.73	0.70	
20	0.65	1.57	1.91	2.72	5.93	5.47	2.21	1.17	0.95	0.81	0.72	0.86	
21	0.72	2.78	1.91	2.60	6.42	5.05	2.04	1.16	0.94	0.81	0.72	0.75	
22	0.70	2.40	2.19	2.33	6.26	4.62	1.88	1.14	0.93	0.80	0.71	0.69	
23	0.74	1.85	2.11	2.16	5.87	4.27	1.80	1.13	0.93	0.80	0.71	0.67	
24	0.71	1.46	2.33	2.04	5.68	3.87	1.74	1.11	0.92	0.80	0.71	0.67	
25	0.64	1.24	2.42	1.95	5.63	3.65	1.72	1.10	0.92	0.80	0.71	0.67	
26	0.61	1.10	2.31	1.86	6.26	3.57	1.67	1.09	0.91	0.79	0.71	0.67	
27	0.61	1.02	2.03	1.83	6.30	3.62	1.64	1.08	0.90	0.79	0.70	0.84	
28	1.01	0.96	1.90	1.88	6.18	3.70	1.61	1.13	0.89	0.79	0.70	0.77	
29	0.78	1.02	1.79	1.98	5.97	3.28	1.57	1.21	0.88	0.79		0.69	
30	0.73	1.04	1.68	1.90	5.70	3.09	1.53	1.20	0.87	0.79		0.67	
31		0.99		1.91	5.49		1.51		0.86	0.79		0.67	
Mean	0.72	1.30	2.99	2.24	4.82	4.90	2.26	1.24	0.99	0.82	0.76	0.70	
Max	1.23	2.78	6.29	3.19	6.42	6.57	3.17	1.47	1.21	0.87	0.94	0.86	6.57
Min	0.59	0.59	1.18	1.67	2.62	3.09	1.51	1.08	0.86	0.79	0.70	0.67	0.59

Annual Max Momentary Gage Height 6.59 M (A.D), at 6.00 Hours, on Sep 16, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.18 M (A.D)
Left Bank Elevation 6.55 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.88	1.17	6.38	14.40	39.87	87.40	31.20	9.88	6.63	2.70	1.85	1.25	
2	2.80	0.95	6.25	14.69	61.10	108.77	31.88	9.63	5.50	2.70	1.85	1.25	
3	1.77	0.72	30.69	14.25	71.77	112.43	33.58	9.25	5.63	2.60	1.85	1.25	
4	1.32	0.65	55.85	12.51	72.92	100.69	34.94	9.00	5.50	2.50	1.85	1.25	
5	1.25	0.50	66.77	14.98	69.01	83.26	31.71	8.63	5.63	2.40	1.77	1.25	
6	1.10	0.40	56.06	15.56	63.62	68.09	27.46	8.50	5.13	2.30	1.77	1.17	
7	1.02	0.40	41.23	15.42	57.53	61.94	35.79	8.38	4.75	2.30	1.77	1.17	
8	0.87	0.57	33.75	20.34	49.93	55.64	27.46	8.13	4.50	2.30	1.70	1.10	
9	0.65	12.22	30.35	22.37	42.59	48.95	22.81	7.87	4.37	2.40	1.70	1.02	
10	0.50	11.25	74.07	36.13	42.93	50.32	24.60	7.62	4.13	2.30	1.70	1.10	
11	0.40	21.07	153.45	35.79	41.23	51.88	20.63	7.25	4.00	2.30	1.70	1.02	
12	0.57	20.20	141.40	30.01	34.09	92.50	23.10	7.25	4.00	2.20	2.80	1.02	
13	0.50	13.53	86.97	21.50	29.67	164.49	22.81	7.13	3.90	2.20	3.40	1.02	
14	0.50	6.88	53.83	18.46	26.44	142.45	21.36	6.88	3.80	2.20	2.20	1.02	
15	2.10	4.37	34.09	17.73	30.52	157.86	22.66	6.88	3.90	2.20	1.77	1.02	
16	3.10	5.50	26.27	23.10	61.52	188.47	21.65	6.75	4.00	2.20	1.62	1.02	
17	1.62	14.54	21.36	33.92	74.30	154.55	20.05	6.63	3.90	2.10	1.62	1.02	
18	1.25	10.25	18.31	32.90	79.93	113.35	19.91	6.50	3.80	2.10	1.62	1.02	
19	1.02	12.37	16.57	31.88	78.45	102.44	22.52	6.38	3.70	2.10	1.48	1.25	
20	0.87	11.13	15.99	28.14	116.09	86.97	20.34	6.12	3.50	2.10	1.40	2.60	
21	1.40	29.16	15.99	26.10	168.29	73.15	17.88	6.00	3.40	2.10	1.40	1.62	
22	1.25	23.10	20.05	22.08	150.13	63.62	15.56	5.75	3.30	2.00	1.32	1.17	
23	1.55	15.13	18.89	19.62	110.60	56.27	14.40	5.63	3.30	2.00	1.32	1.02	
24	1.32	9.75	22.08	17.88	97.18	48.36	13.53	5.38	3.20	2.00	1.32	1.02	
25	0.80	7.00	23.40	16.57	94.26	44.08	13.24	5.25	3.20	2.00	1.32	1.02	
26	0.57	5.25	21.79	15.27	150.13	42.59	12.51	5.13	3.10	1.93	1.32	1.02	
27	0.57	4.25	17.73	14.84	154.55	43.49	12.08	5.00	3.00	1.93	1.25	2.40	
28	4.13	3.60	15.85	15.56	141.40	45.05	11.64	5.63	2.90	1.93	1.25	1.77	
29	1.85	4.25	14.25	17.01	119.75	37.66	11.13	6.63	2.80	1.93		1.17	
30	1.48	4.50	12.66	15.85	98.35	34.43	10.62	6.50	2.70	1.93		1.02	
31		3.90		15.99	87.82		10.38		2.60	1.93		1.02	
Total	45.01	258.56	1152.33	650.85	2515.97	2521.15	659.43	211.56	123.77	67.88	47.92	38.07	8292.50 CMSDAY
Mean	1.50	8.34	38.41	21.00	81.16	84.04	21.27	7.05	3.99	2.19	1.71	1.23	22.72 CMS
Max	6.88	29.16	153.45	36.13	168.29	188.47	35.79	9.88	6.63	2.70	3.40	2.60	188.47 CMS
Min	0.40	0.40	6.25	12.51	26.44	34.43	10.38	5.00	2.60	1.93	1.25	1.02	0.40 CMS
Runoff	3.889	22.340	99.561	56.233	217.380	217.827	56.975	18.279	10.694	5.865	4.140	3.289	716.472 MCM

Momentary Peak 191.16 CMS, at 6.59 M (A.D), at 6.00 Hours, on Sep 16, 1994

Runoff Yield 23.49 Liters/Second/Square KM, Momentary Peak Yield 197.68 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

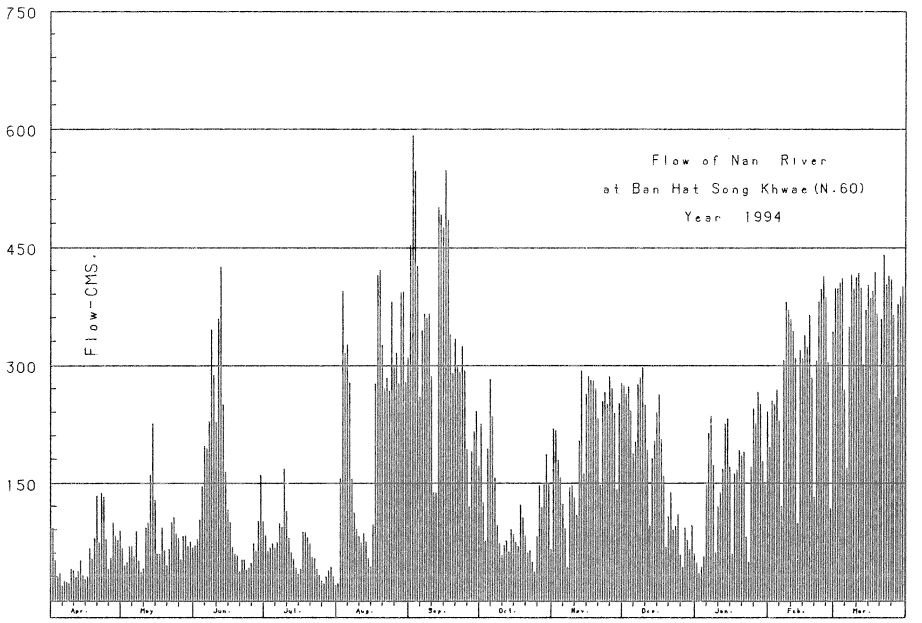
Nan River at Ban Hat Song Khwae, Uttaradit (N.60)

Location	Lat. 17°-24'-50" N., Long. 100°-07'-50" E., on right bank about 1 kilometer downstream from Wat Hat Song Khwae, Amphoe Tron, Uttaradit.
Drainage Area	18,692 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+48.50 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank near the Meteorological Station.
Elevation	+57.592 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1986 to date.
Rating Operation	
Period of Rating	1986 to date.
Rated by Float	-
Rated by Current Meter	1986 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Sirikit Dam reservior. Stage-discharge relation defined by 35 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.61	49.34	49.39	49.52	48.76	52.18	50.70	50.66	51.05	49.13	50.48	51.85	
2	49.18	49.08	49.46	49.30	50.16	52.95	49.90	50.64	50.97	48.95	50.91	51.85	
3	48.89	49.14	49.71	49.36	51.83	52.71	49.45	50.35	51.04	49.06	50.88	51.90	
4	48.94	49.37	50.08	49.41	51.33	52.02	50.46	50.17	50.82	49.23	51.01	51.93	
5	48.69	49.38	50.49	49.35	51.40	50.95	51.11	49.89	50.42	50.09	50.73	51.01	
6	48.81	49.23	50.47	49.43	51.08	51.52	50.77	49.60	50.53	50.62	49.86	50.27	
7	48.79	49.57	50.72	49.66	50.16	51.65	50.17	49.06	51.06	50.77	51.27	51.55	
8	48.74	49.17	51.53	49.62	49.79	51.62	49.64	50.06	51.12	50.30	51.75	51.96	
9	49.03	48.96	51.14	50.26	49.60	51.65	49.42	50.09	51.21	49.28	51.68	51.85	
10	48.99	49.04	50.72	49.81	49.51	51.13	49.24	49.95	50.87	49.86	51.61	51.94	
11	48.88	49.61	51.61	49.48	49.42	50.01	49.39	49.76	50.45	50.01	51.51	51.97	
12	48.98	49.67	52.02	49.29	49.54	50.01	49.45	50.54	49.64	50.26	51.29	51.86	
13	49.18	50.20	50.88	49.19	49.44	52.45	49.30	51.18	50.37	50.70	49.67	51.23	
14	48.91	50.70	50.23	49.04	49.20	52.40	49.59	50.21	50.54	50.75	51.35	51.68	
15	48.84	49.93	49.82	48.94	49.07	52.31	49.53	50.97	50.80	50.28	51.28	51.88	
16	48.88	49.27	49.68	49.03	49.65	52.71	49.43	51.13	50.97	49.26	51.48	51.78	
17	49.34	49.26	49.36	49.56	51.07	52.36	49.37	51.10	50.56	50.21	51.38	51.83	
18	49.20	49.61	49.27	49.56	51.95	51.49	49.88	51.09	50.19	50.25	51.64	51.98	
19	49.48	49.32	49.24	49.49	51.99	51.16	49.73	51.02	49.36	50.45	51.12	51.65	
20	49.98	49.09	48.98	49.42	51.40	51.45	49.51	50.75	49.74	50.40	49.96	50.93	
21	49.42	49.33	49.18	49.22	51.02	51.22	49.28	50.09	50.01	50.43	51.26	51.61	
22	50.01	49.68	49.18	49.21	51.12	51.17	49.32	50.91	49.59	49.50	51.75	52.11	
23	49.96	49.73	49.02	49.02	51.00	51.39	49.15	50.99	49.63	49.15	51.85	51.88	
24	49.47	49.54	49.04	48.92	51.75	51.18	48.97	50.88	49.77	50.28	51.94	51.95	
25	49.02	49.48	49.13	48.82	51.22	50.46	49.51	51.13	49.26	50.84	51.78	51.92	
26	49.21	49.19	49.41	48.74	51.33	49.86	50.09	51.02	49.06	50.70	51.25	51.64	
27	49.67	49.51	49.31	48.89	51.07	50.44	49.85	50.80	49.61	50.99	49.84	50.95	
28	49.51	49.51	49.69	48.99	51.82	50.63	50.09	50.04	49.46	50.88	51.51	51.73	
29	49.46	49.38	50.20	49.07	51.83	50.82	50.41	50.89	49.33	50.34		51.79	
30	49.58	49.43	49.69	48.88	51.08	50.29	50.10	51.07	49.64	50.12		51.87	
31		49.35		48.70	51.29		49.33		49.27	50.81		51.86	
Mean	49.22	49.45	49.96	49.26	50.67	51.41	49.75	50.53	50.20	50.13	51.14	51.68	
Max	50.01	50.70	52.02	50.26	51.99	52.95	51.11	51.18	51.21	50.99	51.94	52.11	52.95
Min	48.69	48.96	48.98	48.70	48.76	49.86	48.97	49.06	49.06	48.95	49.67	50.27	48.69

Annual Max Momentary Gage Height 53.04 M (MSL), at 12.00 Hours, on Sep 2, 1994
Zero Gage at Bottom Elevation 48.50 M (MSL), River Bed 47.47 M (MSL)
Left Bank Elevation 56.18 M (MSL)
Right Bank Elevation 57.64 M (MSL), Drainage Area 18692 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	93.1	66.6	71.1	84.0	22.8	453.6	226.0	220.4	275.0	48.4	196.4	398.0	
2	52.4	44.6	78.0	63.0	156.2	592.5	125.5	217.6	263.8	35.5	255.4	398.0	
3	31.3	49.2	104.1	68.4	394.8	547.8	77.0	179.7	273.6	43.2	251.2	406.0	
4	34.8	69.3	146.6	73.0	316.5	426.4	193.8	157.4	242.8	56.7	269.4	411.1	
5	18.9	70.2	197.7	67.5	327.0	261.0	283.5	124.3	188.6	147.8	230.2	269.4	
6	25.7	56.7	195.1	75.0	279.2	345.2	235.8	92.0	202.9	214.8	120.9	169.7	
7	24.5	89.0	228.8	98.6	156.2	366.0	157.4	43.2	276.4	235.8	307.5	350.0	
8	21.7	51.6	346.8	94.2	112.9	361.2	96.4	144.2	285.0	173.5	382.0	416.2	
9	41.1	36.2	288.0	168.5	92.0	366.0	74.0	147.8	298.5	61.2	370.8	398.0	
10	38.3	41.8	228.8	115.2	83.0	286.5	57.6	131.3	249.8	120.9	359.6	412.8	
11	30.6	93.1	359.6	80.0	74.0	138.2	71.1	109.6	192.5	138.2	343.6	417.9	
12	37.6	99.7	426.4	62.1	86.0	138.2	77.0	204.2	96.4	168.5	310.5	399.6	
13	52.4	161.0	251.2	53.2	76.0	501.0	63.0	294.0	182.2	226.0	99.7	301.5	
14	32.7	226.0	164.7	41.8	54.0	492.0	91.0	162.2	204.2	233.0	319.5	370.8	
15	27.8	129.0	116.3	34.8	43.9	475.8	85.0	263.8	240.0	171.0	309.0	402.8	
16	30.6	60.3	100.8	41.1	97.5	547.8	75.0	286.5	263.8	59.4	339.0	386.8	
17	66.6	59.4	68.4	88.0	277.8	484.8	69.3	282.0	206.8	162.2	324.0	394.8	
18	54.0	93.1	60.3	88.0	414.5	340.5	123.2	280.6	159.8	167.2	364.4	419.6	
19	80.0	64.8	57.6	81.0	421.3	291.0	106.3	270.8	68.4	192.5	285.0	366.0	
20	134.7	45.3	37.6	74.0	327.0	334.5	83.0	233.0	107.4	186.0	132.4	258.2	
21	74.0	65.7	52.4	55.8	270.8	300.0	61.2	147.8	138.2	189.9	306.0	359.6	
22	138.2	100.8	52.4	54.9	285.0	292.5	64.8	255.4	91.0	82.0	382.0	441.7	
23	132.4	106.3	40.4	40.4	268.0	325.5	50.0	266.6	95.3	50.0	398.0	402.8	
24	79.0	86.0	41.8	33.4	382.0	294.0	36.9	251.2	110.7	171.0	412.8	414.5	
25	40.4	80.0	48.4	26.4	300.0	193.8	83.0	286.5	59.4	245.6	386.8	409.4	
26	54.9	53.2	73.0	21.7	316.5	120.9	147.8	270.8	43.2	226.0	304.5	364.4	
27	99.7	83.0	63.9	31.3	277.8	191.2	119.7	240.0	93.1	266.6	118.6	261.0	
28	83.0	83.0	101.9	38.3	393.2	216.2	147.8	141.8	78.0	251.2	343.6	378.8	
29	78.0	70.2	161.0	43.9	394.8	242.8	187.3	252.6	65.7	178.5		388.4	
30	90.0	75.0	101.9	30.6	279.2	172.2	149.0	277.8	96.4	151.4		401.2	
31		67.5		19.5	310.5		65.7		60.3	241.4		399.6	
Total	1798.4	2477.6	4265.0	1947.6	7290.4	10099.1	3484.1	6235.1	5209.2	4895.4	8222.8	11568.6	67493.3 CMSDAY
Mean	59.9	79.9	142.2	62.8	235.2	336.6	112.4	207.8	168.0	157.9	293.7	373.2	184.9 CMS
Max	138.2	226.0	426.4	168.5	421.3	592.5	283.5	294.0	298.5	266.6	412.8	441.7	592.5 CMS
Min	18.9	36.2	37.6	19.5	22.8	120.9	36.9	43.2	43.2	35.5	99.7	169.7	18.9 CMS
Runoff	155.38	214.06	368.50	168.27	629.89	872.56	301.03	538.71	450.07	422.96	710.45	999.53	5831.42 MCM

Momentary Peak 609.60 CMS, at 53.04 M (MSL), at 12.00 Hours, on Sep 2, 1994

Runoff Yield 9.89 Liters/Second/Square KM, Momentary Peak Yield 32.61 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

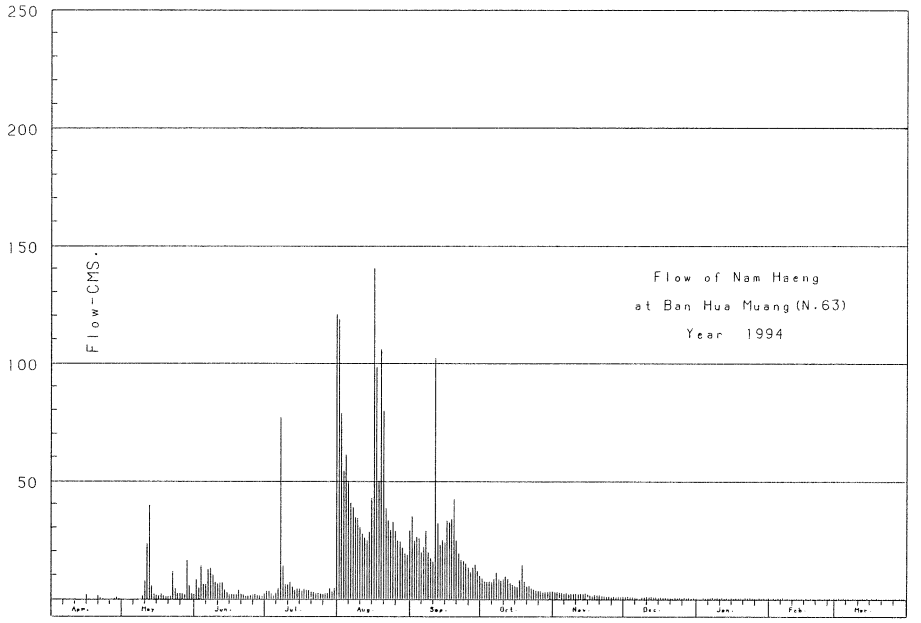
Nam Haeng at Ban Hua Muang, Nan (N.63)

Location	Lat. 18°-21'-48" N., Long. 100°-43'-41" E., on left bank at the bridge on road, Ban Hua Muang, Tambon Si Sa Ket, Amphoe Na Noi, Nan.
Drainage Area	788 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 34 meters from the first staff gage.
Elevation	+11.000 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 32 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.47	1.46	0.97	5.39	3.09	2.04	1.53	1.14	1.00	0.94	0.96	
2	0.48	0.45	1.15	1.00	4.45	2.61	1.96	1.51	1.15	1.02	0.94	0.96	
3	0.46	0.47	1.94	0.85	3.79	2.68	1.93	1.51	1.15	1.00	0.93	0.96	
4	0.47	0.45	1.29	0.74	3.98	2.66	1.94	1.46	1.10	0.99	0.98	0.98	
5	0.47	0.44	1.27	0.95	3.63	2.32	1.93	1.44	1.09	1.01	0.98	0.97	
6	0.47	0.46	1.82	1.11	3.33	2.47	2.02	1.44	0.99	1.03	1.00	0.97	
7	0.46	0.51	1.87	4.41	3.26	2.80	2.18	1.40	0.95	1.05	0.93	0.96	
8	0.45	0.47	1.64	1.95	3.07	2.32	2.02	1.39	1.07	1.03	0.93	0.94	
9	0.45	0.74	1.36	1.28	3.05	2.18	1.96	1.41	1.15	1.05	0.93	0.93	
10	0.45	1.42	1.31	1.28	2.87	2.07	2.03	1.41	1.15	1.03	0.94	0.94	
11	0.45	2.53	1.33	1.36	2.75	5.00	2.10	1.40	1.14	1.01	0.92	0.94	
12	0.44	3.29	1.35	1.20	2.66	3.06	2.02	1.39	1.14	1.00	0.92	0.94	
13	0.44	1.22	1.03	1.02	2.61	2.73	1.91	1.41	1.12	0.98	0.91	0.93	
14	0.57	0.85	0.93	1.10	2.78	2.80	1.83	1.41	1.09	0.99	0.91	0.93	
15	0.82	0.75	0.81	1.08	3.41	2.77	1.77	1.37	1.08	0.98	0.92	0.93	
16	0.49	0.72	0.83	1.01	5.80	3.09	1.75	1.27	1.07	0.99	0.92	0.93	
17	0.47	0.86	0.79	1.07	4.92	3.07	1.98	1.24	1.08	1.00	0.92	0.93	
18	0.47	0.73	0.82	1.04	3.66	3.11	2.34	1.30	1.05	1.00	0.92	0.95	
19	0.47	0.70	1.02	1.01	5.09	3.41	1.94	1.30	1.04	0.98	0.92	0.95	
20	0.77	0.67	0.84	0.96	4.48	2.79	1.78	1.29	1.03	1.00	0.92	0.94	
21	0.58	0.73	0.78	0.92	3.24	2.58	1.79	1.26	1.01	1.01	0.92	0.95	
22	0.51	1.74	0.72	0.88	3.01	2.43	1.71	1.19	1.04	1.02	0.90	0.93	
23	0.48	1.11	0.71	0.87	2.82	2.42	1.63	1.18	1.04	1.01	0.91	0.93	
24	0.48	0.86	0.76	0.86	2.99	2.36	1.60	1.17	1.03	1.00	0.93	0.92	
25	0.46	0.89	0.80	0.84	2.81	2.28	1.59	1.14	1.03	0.99	0.93	0.92	
26	0.46	0.84	0.81	0.86	2.60	2.19	1.57	1.14	1.03	0.96	0.91	0.91	
27	0.56	0.81	0.77	0.90	2.59	2.27	1.51	1.14	1.01	0.97	0.91	0.91	
28	0.73	2.12	0.72	1.10	2.44	2.33	1.50	1.15	1.02	0.97	0.93	0.91	
29	0.57	1.25	0.71	0.97	2.30	2.21	1.53	1.15	1.01	0.95		0.93	
30	0.50	0.88	0.84	1.10	2.25	2.10	1.53	1.15	1.00	0.96		0.93	
31		0.80		5.43	2.81		1.54		1.00	0.95		0.94	
Mean	0.51	0.98	1.08	1.29	3.38	2.67	1.84	1.32	1.06	1.00	0.93	0.94	
Max	0.82	3.29	1.94	5.43	5.80	5.00	2.34	1.53	1.15	1.05	1.00	0.98	5.80
Min	0.44	0.44	0.71	0.74	2.25	2.07	1.50	1.14	0.95	0.95	0.90	0.91	0.44

Annual Max Momentary Gage Height 8.74 M (A.D), at 24.00 Hours, on Jul 31, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.08 M (A.D)
Left Bank Elevation 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.24	8.46	3.53	118.97	35.37	9.02	3.44	1.26	0.75	0.60	0.65	
2	0.28	0.17	5.13	3.80	78.90	25.10	7.88	3.28	1.30	0.82	0.60	0.65	
3	0.21	0.24	14.30	2.53	54.77	26.50	7.49	3.28	1.30	0.75	0.58	0.65	
4	0.24	0.17	6.59	1.73	61.30	26.10	7.62	2.94	1.10	0.73	0.70	0.70	
5	0.24	0.14	6.36	3.35	49.56	19.92	7.49	2.81	1.07	0.79	0.70	0.68	
6	0.24	0.21	12.80	4.79	40.95	22.46	8.71	2.81	0.73	0.85	0.75	0.68	
7	0.21	0.39	13.43	77.30	39.28	29.00	11.59	2.55	0.63	0.92	0.58	0.65	
8	0.17	0.24	10.55	14.43	34.91	19.92	8.71	2.50	1.00	0.85	0.58	0.60	
9	0.17	1.73	7.36	6.47	34.45	17.68	7.88	2.61	1.30	0.92	0.58	0.58	
10	0.17	8.02	6.81	6.47	30.47	16.00	8.86	2.61	1.30	0.85	0.60	0.60	
11	0.17	23.57	7.03	7.36	27.95	102.20	9.95	2.55	1.26	0.79	0.55	0.60	
12	0.14	39.97	7.25	5.56	26.10	32.54	8.71	2.50	1.26	0.75	0.55	0.60	
13	0.14	5.79	4.07	3.98	25.10	23.38	7.23	2.61	1.18	0.70	0.53	0.58	
14	0.66	2.53	3.17	4.70	28.58	25.20	6.26	2.61	1.07	0.73	0.53	0.58	
15	2.30	1.80	2.23	4.52	42.99	24.42	5.60	2.39	1.03	0.70	0.55	0.58	
16	0.32	1.59	2.38	3.89	140.60	33.41	5.40	1.85	1.00	0.73	0.55	0.58	
17	0.24	2.60	2.08	4.43	98.76	32.83	8.14	1.70	1.03	0.75	0.55	0.58	
18	0.24	1.66	2.30	4.16	50.52	33.99	14.87	2.00	0.92	0.75	0.55	0.63	
19	0.24	1.45	3.98	3.89	106.07	42.90	7.62	2.00	0.89	0.70	0.55	0.63	
20	1.94	1.26	2.45	3.44	80.10	24.94	5.70	1.95	0.85	0.75	0.55	0.60	
21	0.71	1.66	2.01	3.08	38.82	19.79	5.80	1.80	0.79	0.79	0.55	0.63	
22	0.39	11.80	1.59	2.75	33.53	16.72	5.00	1.46	0.89	0.82	0.50	0.58	
23	0.28	4.79	1.52	2.68	29.42	16.51	4.27	1.42	0.89	0.79	0.53	0.58	
24	0.28	2.60	1.87	2.60	33.08	15.28	4.00	1.38	0.85	0.75	0.58	0.55	
25	0.21	2.83	2.15	2.45	29.21	13.64	3.92	1.26	0.85	0.73	0.58	0.55	
26	0.21	2.45	2.23	2.60	24.90	11.80	3.76	1.26	0.85	0.65	0.53	0.53	
27	0.62	2.23	1.94	2.90	24.71	13.44	3.28	1.26	0.79	0.68	0.53	0.53	
28	1.66	16.72	1.59	4.70	21.92	14.67	3.20	1.30	0.82	0.68	0.58	0.53	
29	0.66	6.13	1.52	3.53	19.60	12.21	3.44	1.30	0.79	0.63		0.58	
30	0.35	2.75	2.45	4.70	18.80	9.95	3.44	1.30	0.75	0.65		0.58	
31		2.15		120.90	29.21		3.52		0.75	0.63		0.60	
Total	14.04	149.88	147.60	323.22	1473.53	757.87	208.36	64.73	30.50	23.38	16.11	18.64	3227.86 CMSDAY
Mean	0.47	4.83	4.92	10.43	47.53	25.26	6.72	2.16	0.98	0.75	0.58	0.60	8.84 CMS
Max	2.30	39.97	14.30	120.90	140.60	102.20	14.87	3.44	1.30	0.92	0.75	0.70	140.60 CMS
Min	0.14	0.14	1.52	1.73	18.80	9.95	3.20	1.26	0.63	0.63	0.50	0.53	0.14 CMS
Runoff	1.213	12.950	12.753	27.926	127.313	65.480	18.002	5.593	2.635	2.020	1.392	1.610	278.887 MCM

Momentary Peak 331.80 CMS, at 8.74 M (A.D), at 24.00 Hours, on Jul 31, 1994

Runoff Yield 11.22 Liters/Second/Square KM, Momentary Peak Yield 421.07 Liters/Second/Square KM

WATER YEAR 1994

NAN RIVER BASIN

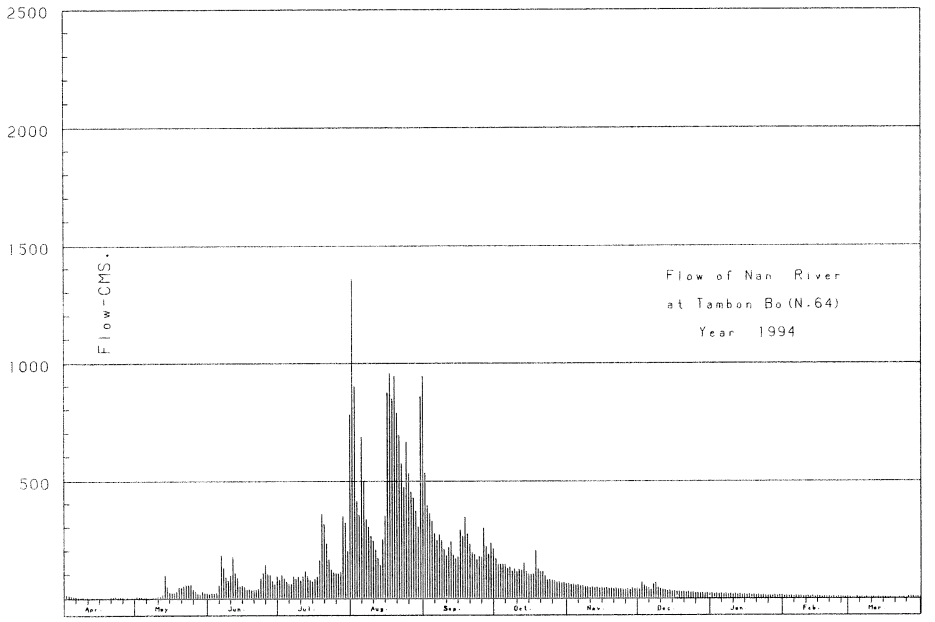
Nan River at Ban Pha Khwang, Nan (N.64)

Location	Lat. 19-00-31 N., Long. 100-47-18 E., on right bank at the bridge on highway, Tambon Bo, 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 fair. Stage-discharge relation defined by 29 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.16	1.02	1.26	1.94	8.87	5.77	2.81	1.74	1.50	1.28	1.14	1.02	
2	1.15	1.00	1.27	2.11	7.45	4.90	2.60	1.72	1.79	1.28	1.14	1.01	
3	1.05	0.97	1.31	2.00	5.04	4.60	2.57	1.71	1.69	1.27	1.14	1.01	
4	1.03	0.97	1.30	1.82	4.54	4.35	2.60	1.69	1.58	1.27	1.13	1.01	
5	1.01	0.95	1.66	1.72	6.53	3.85	2.57	1.68	1.54	1.26	1.12	1.01	
6	0.99	0.90	2.98	1.75	5.59	3.61	2.43	1.66	1.48	1.26	1.12	1.00	
7	0.98	0.93	2.44	2.08	4.42	3.83	2.45	1.63	1.74	1.26	1.12	1.00	
8	0.96	0.93	2.05	1.95	4.10	3.58	2.30	1.61	1.78	1.25	1.11	1.00	
9	0.93	0.97	1.88	2.07	3.77	3.20	2.37	1.59	1.58	1.25	1.11	0.99	
10	0.94	1.02	2.13	1.92	3.56	2.95	2.29	1.58	1.50	1.24	1.10	0.99	
11	0.91	1.06	2.87	2.05	3.21	3.28	2.35	1.57	1.48	1.24	1.10	0.99	
12	0.90	1.18	2.21	2.30	2.83	3.56	2.34	1.56	1.45	1.23	1.10	0.99	
13	0.90	2.13	2.03	2.06	2.56	3.00	2.62	1.56	1.43	1.23	1.09	0.98	
14	0.90	1.57	1.64	1.93	3.62	2.80	2.30	1.55	1.42	1.22	1.09	0.98	
15	0.89	1.32	1.64	1.82	4.54	2.91	2.15	1.55	1.40	1.21	1.08	0.98	
16	0.91	1.32	1.58	1.95	7.36	3.99	2.16	1.54	1.39	1.21	1.08	0.98	
17	0.90	1.29	1.48	2.06	7.65	3.75	2.16	1.54	1.38	1.21	1.06	0.97	
18	0.90	1.39	1.47	2.73	7.26	4.50	3.17	1.53	1.37	1.20	1.06	0.97	
19	0.92	1.56	1.47	4.61	7.62	3.86	2.40	1.52	1.37	1.20	1.05	0.96	
20	0.97	1.58	1.44	4.20	7.02	3.43	2.25	1.52	1.36	1.18	1.05	0.96	
21	1.01	1.61	1.47	3.47	6.57	3.10	2.29	1.52	1.35	1.18	1.04	0.96	
22	1.01	1.71	1.49	2.77	5.98	2.98	2.08	1.51	1.35	1.18	1.04	0.96	
23	0.99	1.66	2.01	2.37	5.44	2.80	1.94	1.50	1.34	1.17	1.03	0.96	
24	0.97	1.72	2.20	2.22	6.45	2.90	1.92	1.49	1.33	1.16	1.03	0.96	
25	0.95	1.49	2.59	2.21	5.78	2.90	1.92	1.49	1.32	1.15	1.03	0.95	
26	0.92	1.37	2.15	2.18	5.29	4.06	1.87	1.48	1.31	1.15	1.02	1.02	
27	0.91	1.30	2.15	2.27	5.14	3.35	1.84	1.48	1.31	1.16	1.02	1.07	
28	0.90	1.21	1.85	4.51	4.69	3.00	1.82	1.53	1.30	1.17	1.02	1.04	
29	0.92	1.36	1.73	4.29	4.11	3.48	1.79	1.52	1.30	1.17		1.03	
30	0.96	1.32	2.06	3.12	7.30	3.24	1.78	1.51	1.29	1.15		1.00	
31		1.27		6.99	7.60		1.76		1.29	1.14		1.00	
Mean	0.96	1.29	1.86	2.63	5.54	3.58	2.25	1.57	1.44	1.21	1.08	0.99	
Max	1.16	2.13	2.98	6.99	8.87	5.77	3.17	1.74	1.79	1.28	1.14	1.07	8.87
Min	0.89	0.90	1.26	1.72	2.56	2.80	1.76	1.48	1.29	1.14	1.02	0.95	0.89

Annual Max Momentary Gage Height 9.00 M (A.D), at 6.00 Hours, on Aug 1, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.24 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.6	8.8	22.2	83.0	1357.3	533.6	170.0	64.6	43.0	23.6	14.4	8.8	
2	15.0	8.0	22.9	100.0	902.0	398.0	149.0	62.8	69.1	23.6	14.4	8.4	
3	10.0	6.8	25.9	89.0	416.6	361.0	146.0	61.9	60.1	22.9	14.4	8.4	
4	9.2	6.8	25.0	71.8	353.8	331.5	149.0	60.1	50.2	22.9	13.8	8.4	
5	8.4	6.0	57.4	62.8	686.3	276.5	146.0	59.2	46.6	22.2	13.2	8.4	
6	7.6	4.0	187.0	65.5	501.3	250.1	132.0	57.4	41.2	22.2	13.2	8.0	
7	7.2	5.2	133.0	97.0	339.4	274.3	134.0	54.7	64.6	22.2	13.2	8.0	
8	6.4	5.2	94.0	84.0	304.0	247.0	119.0	52.9	68.2	21.5	12.6	8.0	
9	5.2	6.8	77.2	96.0	267.7	209.0	126.0	51.1	50.2	21.5	12.6	7.6	
10	5.6	8.8	102.0	81.0	245.0	184.0	118.0	50.2	43.0	20.8	12.0	7.6	
11	4.4	10.4	176.0	94.0	210.0	217.0	124.0	49.3	41.2	20.8	12.0	7.6	
12	4.0	16.8	110.0	119.0	172.0	245.0	123.0	48.4	38.5	20.1	12.0	7.6	
13	4.0	102.0	92.0	95.0	145.0	189.0	151.0	48.4	36.7	20.1	11.6	7.2	
14	4.0	49.3	55.6	82.0	251.2	169.0	119.0	47.5	35.8	19.4	11.6	7.2	
15	3.8	26.8	55.6	71.8	353.8	180.0	104.0	47.5	34.0	18.7	11.2	7.2	
16	4.4	26.8	50.2	84.0	876.8	291.9	105.0	46.6	33.1	18.7	11.2	7.2	
17	4.0	24.3	41.2	95.0	958.0	265.5	105.0	46.6	32.2	18.7	10.4	6.8	
18	4.0	33.1	40.3	162.0	849.2	349.0	206.0	45.7	31.3	18.0	10.4	6.8	
19	4.8	48.4	40.3	362.2	949.6	277.6	129.0	44.8	31.3	18.0	10.0	6.4	
20	6.8	50.2	37.6	315.0	791.6	232.0	114.0	44.8	30.4	16.8	10.0	6.4	
21	8.4	52.9	40.3	236.0	694.7	199.0	118.0	44.8	29.5	16.8	9.6	6.4	
22	8.4	61.9	42.1	166.0	575.0	187.0	97.0	43.9	29.5	16.8	9.6	6.4	
23	7.6	57.4	90.0	126.0	475.8	169.0	83.0	43.0	28.6	16.2	9.2	6.4	
24	6.8	62.8	109.0	111.0	669.5	179.0	81.0	42.1	27.7	15.6	9.2	6.4	
25	6.0	42.1	148.0	110.0	535.4	179.0	81.0	42.1	26.8	15.0	9.2	6.0	
26	4.8	31.3	104.0	107.0	452.5	299.6	76.3	41.2	25.9	15.0	8.8	8.8	
27	4.4	25.0	104.0	116.0	430.6	224.0	73.6	41.2	25.9	15.6	8.8	10.8	
28	4.0	18.7	74.5	350.2	371.8	189.0	71.8	45.7	25.0	16.2	8.8	9.6	
29	4.8	30.4	63.7	324.9	305.1	237.0	69.1	44.8	25.0	16.2		9.2	
30	6.4	26.8	95.0	201.0	860.0	213.0	68.2	43.9	24.3	15.0		8.0	
31		22.9		784.8	944.0		66.4		24.3	14.4		8.0	
Total	196.0	886.7	2316.0	4943.0	17245.0	7556.6	3554.4	1477.2	1173.2	585.5	317.4	238.0	40489.0 CMSDAY
Mean	6.5	28.6	77.2	159.5	556.3	251.9	114.7	49.2	37.8	18.9	11.3	7.7	110.9 CMS
Max	15.6	102.0	187.0	784.8	1357.3	533.6	206.0	64.6	69.1	23.6	14.4	10.8	1357.3 CMS
Min	3.8	4.0	22.2	62.8	145.0	169.0	66.4	41.2	24.3	14.4	8.8	6.0	3.8 CMS
Runoff	16.93	76.61	200.10	427.08	1489.97	652.89	307.10	127.63	101.36	50.59	27.42	20.56	3498.25 MCM

Momentary Peak 1408.00 CMS, at 9.00 M (A.D), at 6.00 Hours, on Aug 1, 1994

Runoff Yield 32.32 Liters/Second/Square KM, Momentary Peak Yield 410.26 Liters/Second/Square KM

WATER YEAR 1994

NAM MAE KOK RIVER BASIN

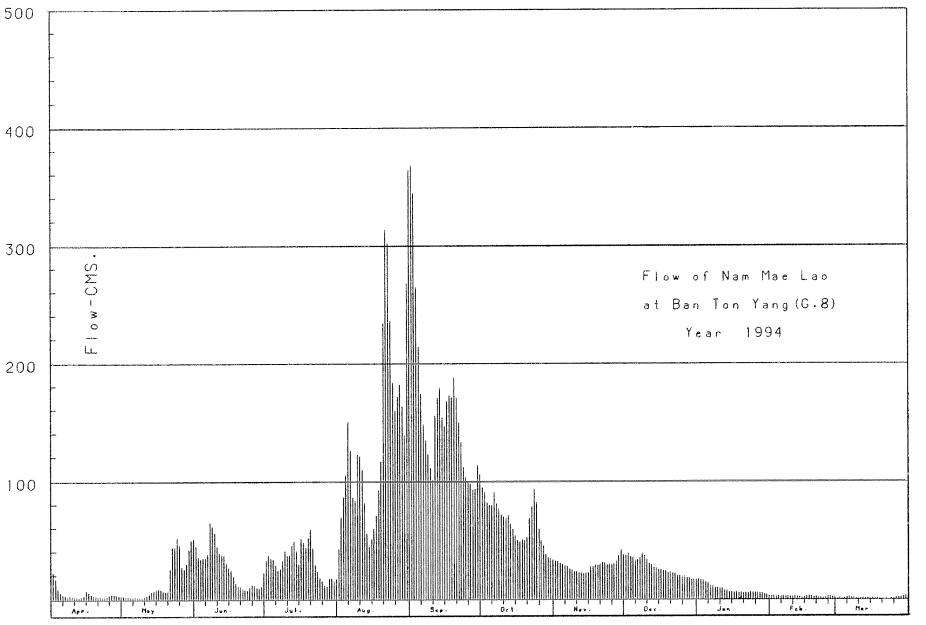
Nam Mae Lao at Ban Ton Yang, Chiang Rai (G.8)

Location	Lat. 19°-47'-27" N., Long. 99°-45'-12" E., on left bank at the bridge of Chiang Rai-Payao Highway, Tambon Bua Sali, 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. Stage-discharge relation defined by 91 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.49	0.79	1.98	1.73	1.94	4.80	2.82	1.72	1.82	1.36	0.82	0.68	
2	1.37	0.79	1.78	1.81	2.44	4.71	2.76	1.70	1.85	1.35	0.82	0.68	
3	1.10	0.75	1.75	1.76	2.71	4.35	2.64	1.68	1.80	1.34	0.81	0.68	
4	1.00	0.75	1.76	1.74	2.95	4.04	2.60	1.65	1.77	1.30	0.81	0.68	
5	0.90	0.74	1.77	1.64	3.45	3.68	2.60	1.63	1.73	1.27	0.81	0.75	
6	0.84	0.73	1.83	1.53	3.20	3.43	2.77	1.61	1.73	1.22	0.81	0.85	
7	0.81	0.71	2.37	1.57	2.71	3.29	2.63	1.57	1.78	1.18	0.81	0.74	
8	0.81	0.71	2.30	1.71	2.66	3.16	2.56	1.54	1.85	1.15	0.80	0.70	
9	0.80	0.71	2.20	1.90	3.16	3.03	2.48	1.52	1.82	1.14	0.80	0.68	
10	0.77	0.80	1.98	1.82	3.14	2.90	2.45	1.51	1.74	1.13	0.80	0.65	
11	0.74	0.81	1.86	1.82	3.01	3.50	2.44	1.50	1.67	1.12	0.80	0.68	
12	0.73	0.92	1.83	2.00	2.63	3.65	2.47	1.50	1.64	1.08	0.79	0.67	
13	0.76	1.02	1.81	2.06	2.19	3.73	2.34	1.48	1.60	1.05	0.74	0.67	
14	0.84	1.03	1.68	1.90	1.97	3.49	2.26	1.48	1.58	1.02	0.73	0.65	
15	1.06	1.09	1.58	1.65	2.10	3.41	2.15	1.50	1.56	1.01	0.73	0.65	
16	0.99	1.10	1.53	2.10	2.26	3.62	2.08	1.60	1.55	1.01	0.80	0.67	
17	0.92	1.09	1.43	2.04	2.47	3.67	2.05	1.61	1.54	1.01	0.84	0.67	
18	0.85	1.03	1.26	1.96	2.79	3.65	2.09	1.63	1.52	1.00	0.79	0.65	
19	0.84	1.03	1.20	2.12	3.09	3.81	2.07	1.64	1.50	0.99	0.78	0.65	
20	0.80	1.03	1.16	2.25	4.18	3.65	2.13	1.65	1.50	0.98	0.75	0.66	
21	0.76	1.56	1.12	1.94	4.59	3.45	2.43	1.69	1.49	0.98	0.74	0.66	
22	0.74	1.95	1.07	1.65	4.54	3.27	2.59	1.67	1.47	0.98	0.72	0.66	
23	0.73	1.95	1.07	1.51	4.19	3.04	2.80	1.65	1.44	1.00	0.71	0.66	
24	0.80	2.12	1.15	1.40	3.77	2.93	2.64	1.65	1.43	1.01	0.70	0.65	
25	0.85	1.99	1.23	1.31	3.54	2.87	2.27	1.65	1.43	0.99	0.81	0.65	
26	0.90	1.59	1.21	1.20	3.66	2.86	2.07	1.65	1.42	0.98	0.79	0.71	
27	0.90	1.56	1.15	1.19	3.75	2.80	1.99	1.72	1.40	0.98	0.75	0.73	
28	0.86	1.66	1.12	1.38	3.58	2.80	1.83	1.81	1.38	0.96	0.70	0.73	
29	0.84	1.92	1.19	1.38	3.33	3.06	1.78	1.92	1.36	0.93		0.78	
30	0.81	2.07	1.49	1.32	4.37	2.96	1.75	1.82	1.35	0.89		0.83	
31		2.10		1.36	4.78		1.73		1.36	0.82		0.75	
Mean	0.89	1.23	1.56	1.70	3.20	3.45	2.33	1.63	1.58	1.07	0.78	0.69	
Max	1.49	2.12	2.37	2.25	4.78	4.80	2.82	1.92	1.85	1.36	0.84	0.85	4.80
Min	0.73	0.71	1.07	1.19	1.94	2.80	1.73	1.48	1.35	0.82	0.70	0.65	0.65

Annual Max Momentary Gage Height 4.86 M (A.D), at 6.00 Hours, on Aug 31, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.25 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.05	2.97	45.64	33.85	43.72	370.00	95.52	33.40	37.96	17.56	3.40	1.56	
2	17.92	2.97	36.10	37.48	69.90	344.80	91.04	32.50	39.40	17.20	3.40	1.56	
3	9.20	2.45	34.75	35.20	87.34	265.00	82.64	31.60	37.00	16.84	3.25	1.56	
4	6.40	2.45	35.20	34.30	105.60	215.10	80.00	30.25	35.65	15.40	3.25	1.56	
5	4.60	2.32	35.65	29.80	151.00	174.60	80.00	29.35	33.85	14.38	3.25	2.45	
6	3.70	2.19	38.44	24.85	127.00	149.00	91.78	28.45	33.85	12.68	3.25	3.85	
7	3.25	1.93	65.91	26.65	87.34	135.55	81.98	26.65	36.10	11.44	3.25	2.32	
8	3.25	1.93	62.20	32.95	83.96	123.40	77.40	25.30	39.40	10.60	3.10	1.80	
9	3.10	1.93	57.00	41.80	123.40	112.12	72.30	24.40	37.96	10.32	3.10	1.56	
10	2.71	3.10	45.64	37.96	121.60	101.60	70.50	23.95	34.30	10.04	3.10	1.20	
11	2.32	3.25	39.88	37.96	110.44	156.00	69.90	23.50	31.15	9.76	3.10	1.56	
12	2.19	4.96	38.44	46.60	81.98	171.45	71.70	23.50	29.80	8.64	2.97	1.44	
13	2.58	6.96	37.48	49.72	56.48	180.00	64.32	22.60	28.00	7.80	2.32	1.44	
14	3.70	7.24	31.60	41.80	45.16	155.00	60.12	22.60	27.10	6.96	2.19	1.20	
15	8.08	8.92	27.10	30.25	51.80	147.00	54.40	23.50	26.20	6.68	2.19	1.20	
16	6.22	9.20	24.85	51.80	60.12	168.30	50.76	28.00	25.75	6.68	3.10	1.44	
17	4.96	8.92	20.35	48.68	71.70	173.55	49.20	28.45	25.30	6.68	3.70	1.44	
18	3.85	7.24	14.04	44.68	93.26	171.45	51.28	29.35	24.40	6.40	2.97	1.20	
19	3.70	7.24	12.00	52.84	117.16	188.83	50.24	29.80	23.50	6.22	2.84	1.20	
20	3.10	7.24	10.88	59.60	234.80	171.45	53.36	30.25	23.50	6.04	2.45	1.32	
21	2.58	26.20	9.76	43.72	313.80	151.00	69.30	32.05	23.05	6.04	2.32	1.32	
22	2.32	44.20	8.36	30.25	302.80	133.65	79.35	31.15	22.15	6.04	2.06	1.32	
23	2.19	44.20	8.36	23.95	236.40	112.96	94.00	30.25	20.80	6.40	1.93	1.32	
24	3.10	52.84	10.60	19.00	184.40	104.00	82.64	30.25	20.35	6.68	1.80	1.20	
25	3.85	46.12	13.02	15.76	160.08	99.32	60.64	30.25	20.35	6.22	3.25	1.20	
26	4.60	27.55	12.34	12.00	172.50	98.56	50.24	30.25	19.90	6.04	2.97	1.93	
27	4.60	26.20	10.60	11.72	182.20	94.00	46.12	33.40	19.00	6.04	2.45	2.19	
28	4.00	30.70	9.76	18.28	164.16	94.00	38.44	37.48	18.28	5.68	1.80	2.19	
29	3.70	42.76	11.72	18.28	139.35	114.64	36.10	42.76	17.56	5.14		2.84	
30	3.25	50.24	23.05	16.12	268.60	106.40	34.75	37.96	17.20	4.45		3.55	
31		51.80		17.56	364.40		33.85		17.56	3.40		2.45	
Total	152.07	538.22	830.72	1025.41	4412.45	4782.73	2023.87	883.20	846.37	270.45	78.76	54.37	15898.62 CMSDAY
Mean	5.07	17.36	27.69	33.08	142.34	159.42	65.29	29.44	27.30	8.72	2.81	1.75	43.56 CMS
Max	23.05	52.84	65.91	59.60	364.40	370.00	95.52	42.76	39.40	17.56	3.70	3.85	370.00 CMS
Min	2.19	1.93	8.36	11.72	43.72	94.00	33.85	22.60	17.20	3.40	1.80	1.20	1.20 CMS
Runoff	13.139	46.502	71.774	88.595	381.236	413.228	174.862	76.308	73.126	23.367	6.805	4.698	1373.641 MCM

Momentary Peak 392.80 CMS, at 4.86 M (A.D), at 6.00 Hours, on Aug 31, 1994

Runoff Yield 14.85 Liters/Second/Square KM, Momentary Peak Yield 133.88 Liters/Second/Square KM

WATER YEAR 1994

NAM MAE ING BASIN

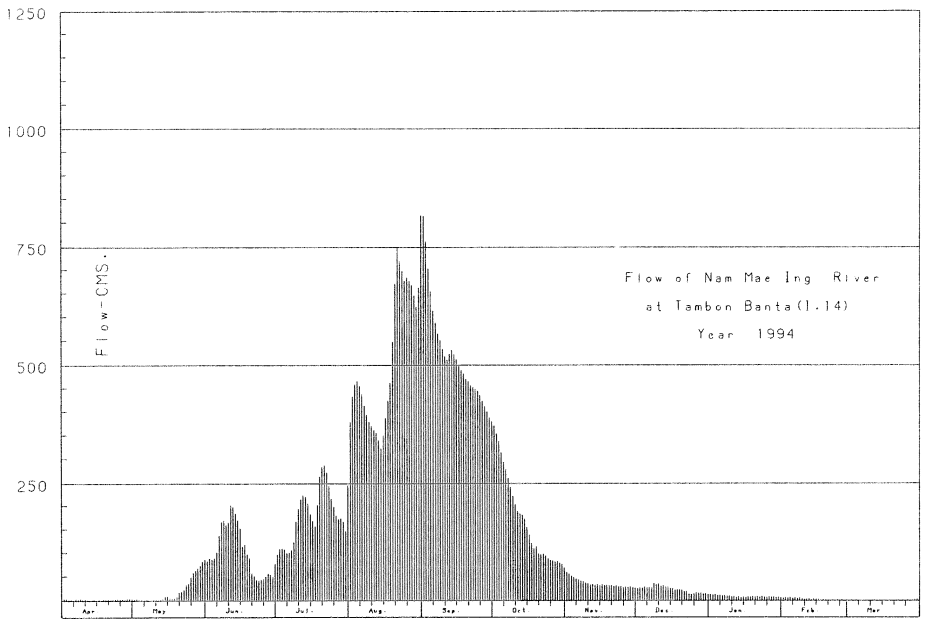
Nam Mae Ing at Ban Nam Ing, Chiang Rai (I.14)

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 the local weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 43 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.81	0.73	3.13	3.44	7.33	8.94	7.26	2.93	2.06	1.66	1.38	1.14	
2	0.75	0.72	3.23	3.65	7.71	8.84	7.12	2.81	2.07	1.65	1.39	1.14	
3	0.69	0.66	3.21	3.70	7.87	8.73	6.96	2.73	2.09	1.64	1.38	1.17	
4	0.65	0.63	3.24	3.64	7.92	8.62	6.74	2.64	2.14	1.61	1.38	1.15	
5	0.63	0.59	3.54	3.50	7.86	8.51	6.52	2.58	2.11	1.59	1.37	1.10	
6	0.74	0.58	4.21	3.50	7.74	8.44	6.33	2.52	2.10	1.58	1.36	1.07	
7	0.75	0.55	4.72	3.63	7.59	8.36	6.11	2.49	2.12	1.57	1.36	1.08	
8	0.73	0.51	4.76	3.96	7.44	8.30	5.84	2.43	2.34	1.55	1.36	1.09	
9	0.72	0.55	4.59	4.72	7.33	8.23	5.59	2.39	2.31	1.53	1.32	1.10	
10	0.71	0.57	4.69	5.17	7.25	8.16	5.32	2.33	2.31	1.51	1.28	1.12	
11	0.67	0.60	5.31	5.49	7.19	8.13	5.09	2.30	2.21	1.47	1.27	1.13	
12	0.65	0.66	5.24	5.60	7.12	8.18	5.01	2.29	2.20	1.45	1.26	1.12	
13	0.65	0.76	5.03	5.57	6.98	8.22	4.97	2.29	2.18	1.45	1.24	1.09	
14	0.64	1.02	4.77	5.35	6.82	8.18	4.82	2.28	2.13	1.43	1.25	1.01	
15	0.63	0.98	4.50	5.00	7.08	8.13	4.53	2.25	2.07	1.43	1.26	1.05	
16	0.64	0.86	3.78	4.74	7.39	8.08	4.24	2.27	2.02	1.44	1.23	1.07	
17	0.65	0.79	3.84	4.57	7.66	8.03	3.91	2.26	1.98	1.47	1.19	1.06	
18	0.66	0.77	3.45	5.32	7.89	7.99	3.94	2.25	1.95	1.49	1.18	1.05	
19	0.68	0.99	3.25	6.14	8.29	7.94	4.05	2.24	1.99	1.48	1.17	1.04	
20	0.67	1.34	2.52	6.39	8.66	7.91	3.76	2.23	1.93	1.49	1.16	1.03	
21	0.67	1.40	2.40	6.44	8.82	7.86	3.70	2.22	1.88	1.49	1.16	1.02	
22	0.70	1.56	2.17	6.27	8.76	7.84	3.75	2.21	1.85	1.48	1.15	1.01	
23	0.71	1.87	2.11	5.88	8.72	7.81	3.65	2.19	1.70	1.49	1.18	1.02	
24	0.71	1.93	2.19	5.49	8.67	7.79	3.56	2.16	1.64	1.47	1.19	1.00	
25	0.73	2.31	2.21	5.26	8.69	7.73	3.48	2.13	1.72	1.45	1.17	1.02	
26	0.72	2.56	2.34	4.93	8.67	7.65	3.43	2.13	1.76	1.46	1.16	1.03	
27	0.73	2.68	2.52	4.83	8.65	7.58	3.42	2.14	1.77	1.46	1.15	1.04	
28	0.74	2.76	2.44	4.83	8.60	7.50	3.41	2.14	1.74	1.44	1.15	1.10	
29	0.78	2.92	2.35	4.73	8.53	7.40	3.36	2.13	1.71	1.43		1.24	
30	0.73	3.08	2.98	4.39	8.64	7.34	3.27	2.06	1.70	1.42		1.23	
31		3.18		5.90	8.94		3.11		1.68	1.39		1.23	
Mean	0.70	1.33	3.49	4.90	7.96	8.08	4.72	2.33	1.98	1.50	1.25	1.09	
Max	0.81	3.18	5.31	6.44	8.94	8.94	7.26	2.93	2.34	1.66	1.39	1.24	8.94
Min	0.63	0.51	2.11	3.44	6.82	7.34	3.11	2.06	1.64	1.39	1.15	1.00	0.51

Annual Max Momentary Gage Height 8.97 M (A.D), at 12.00 Hours, on Aug 31, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.18 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.2	3.9	84.9	99.0	380.6	816.4	372.2	61.8	26.8	14.0	6.6	2.3	
2	4.2	3.7	89.4	109.5	433.6	761.6	356.2	56.7	27.2	13.7	6.8	2.3	
3	3.2	2.8	88.5	112.0	459.2	705.0	338.8	53.4	27.9	13.5	6.6	2.7	
4	2.6	2.3	89.8	109.0	468.0	656.4	316.3	49.6	29.6	12.6	6.6	2.4	
5	2.3	1.7	104.0	102.0	457.6	615.6	295.8	47.1	28.5	12.0	6.4	1.9	
6	4.0	1.6	139.1	102.0	438.4	591.6	279.0	44.5	28.2	11.7	6.2	1.9	
7	4.2	1.3	168.2	108.5	415.6	568.0	261.3	43.3	28.9	11.5	6.2	1.9	
8	3.9	0.9	170.6	125.3	394.6	553.0	241.2	40.8	37.0	10.9	6.2	1.9	
9	3.7	1.3	160.4	168.2	380.6	535.5	223.3	39.1	35.7	10.3	5.4	1.9	
10	3.6	1.5	166.4	195.2	371.0	519.2	204.8	36.6	35.7	9.8	4.6	2.1	
11	2.9	1.8	204.1	216.3	363.9	512.6	190.4	35.3	32.0	8.8	4.4	2.2	
12	2.6	2.8	199.6	224.0	356.2	523.6	185.6	34.9	31.6	8.3	4.2	2.1	
13	2.6	4.4	186.8	221.9	340.9	533.0	183.2	34.9	30.9	8.3	3.8	1.9	
14	2.4	9.5	171.2	206.8	324.1	523.6	174.2	34.6	29.2	7.7	4.0	1.8	
15	2.3	8.6	155.0	185.0	351.8	512.6	156.8	33.5	27.2	7.7	4.2	1.9	
16	2.4	6.2	116.0	169.4	387.8	501.6	140.7	34.2	25.5	8.0	3.6	1.9	
17	2.6	4.8	119.0	159.2	426.0	490.6	122.6	33.8	24.1	8.8	2.9	1.9	
18	2.8	4.5	99.5	204.8	462.4	482.0	110.7	33.5	23.2	9.3	2.8	1.9	
19	3.1	8.8	90.3	263.5	550.5	472.0	116.8	33.1	24.5	9.0	2.7	1.8	
20	2.9	17.3	58.3	284.1	673.2	466.0	101.0	32.7	22.5	9.3	2.6	1.8	
21	2.9	19.0	53.5	288.6	750.8	457.6	98.0	32.3	20.9	9.3	2.6	1.8	
22	3.4	23.7	44.6	274.0	720.0	454.4	100.5	32.0	19.9	9.0	2.4	1.8	
23	3.6	33.7	42.4	244.2	700.0	449.6	95.5	31.3	15.2	9.3	2.8	1.8	
24	3.6	35.8	45.3	216.3	677.4	446.4	91.0	30.2	13.5	8.8	2.9	1.8	
25	3.9	49.9	46.1	200.9	685.8	436.8	87.0	29.2	15.8	8.3	2.7	1.8	
26	3.7	59.9	51.1	180.8	677.4	424.5	84.5	29.2	17.1	8.5	2.6	1.8	
27	3.9	64.7	58.3	174.8	669.0	414.2	84.0	29.6	17.4	8.5	2.4	1.8	
28	4.0	68.2	55.1	174.8	648.0	403.0	83.5	29.6	16.4	8.0	2.4	1.9	
29	4.7	75.4	51.5	168.8	622.8	389.0	81.2	29.2	15.5	7.7		3.8	
30	3.9	82.6	78.1	149.0	664.8	381.8	77.1	26.8	15.2	7.5		3.6	
31		87.1		245.6	816.4		69.9		14.6	6.8		3.6	
Total	101.1	689.7	3187.1	5683.5	16068.4	15597.2	5323.1	1112.8	757.7	296.9	117.6	66.0	49001.1 CMSDAY
Mean	3.4	22.2	106.2	183.3	518.3	519.9	171.7	37.1	24.4	9.6	4.2	2.1	134.2 CMS
Max	5.2	87.1	204.1	288.6	816.4	816.4	372.2	61.8	37.0	14.0	6.8	3.8	816.4 CMS
Min	2.3	0.9	42.4	99.0	324.1	381.8	69.9	26.8	13.5	6.8	2.4	1.8	0.9 CMS
Runoff	8.74	59.59	275.37	491.05	1388.31	1347.60	459.92	96.15	65.47	25.65	10.16	5.70	4233.70 MCM

Momentary Peak 833.20 CMS, at 8.97 M (A.D), at 12.00 Hours, on Aug 31, 1994

Runoff Yield 21.81 Liters/Second/Square KM, Momentary Peak Yield 135.37 Liters/Second/Square KM

WATER YEAR 1994

CHAO PHRAYA RIVER BASIN

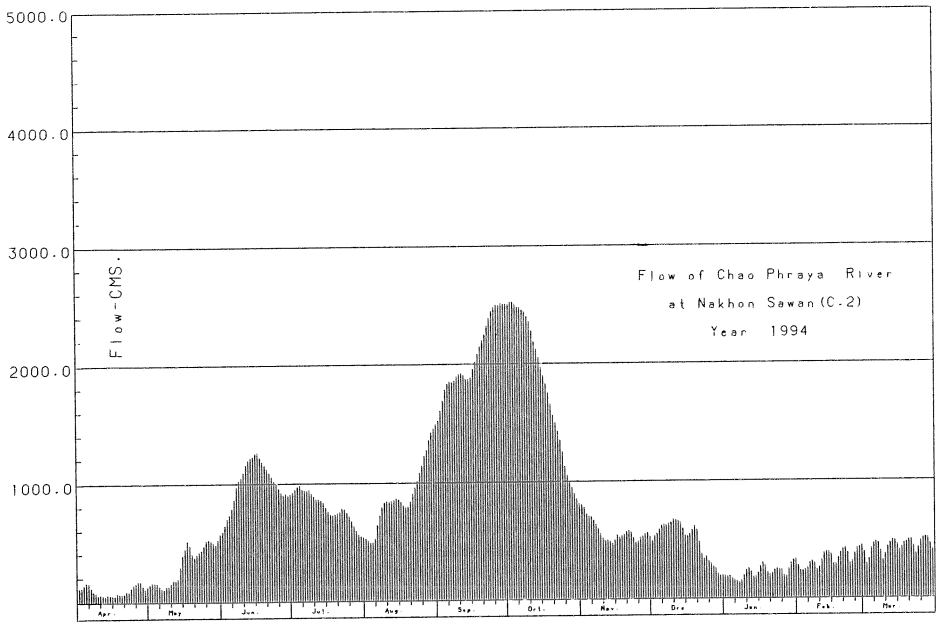
Chao Phraya River at Khai Chira Prawat, Nakhon Sawan (C.2)

Location	Lat. 15°-40'-15" N., Long. 100°-06'-45" E., on left bank at Khai Chira Prawat about 3 kilometers downstream from Dechatiwong Bridge, Amphoe Muang, Nakhon Sawan.
Drainage Area	110,569 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	About 20 meters west of the gage site.
Elevation	+25.628 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1914 to date.
Rating Operation	
Period of Rating	1956 to date.
Rated by Float	-
Rated by Current Meter	1956 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Phumiphol Dam, Sirikit Dam and Phrom Phiram Dam. Stage-discharge relation defined by 154 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.52	17.76	20.12	21.32	19.86	22.81	24.65	20.90	19.69	18.09	18.64	19.24	
2	17.53	17.84	20.30	21.38	19.78	22.97	24.68	20.82	19.86	18.06	18.35	18.69	
3	17.75	17.84	20.54	21.47	19.70	23.14	24.69	20.63	19.96	18.05	18.35	18.94	
4	17.86	17.79	20.64	21.48	19.70	23.32	24.65	20.54	20.09	17.92	18.40	19.36	
5	17.82	17.63	20.86	21.39	19.86	23.43	24.61	20.54	20.21	17.80	18.52	19.57	
6	17.55	17.42	21.12	21.36	20.30	23.46	24.60	20.42	20.25	17.70	18.75	19.61	
7	17.25	17.39	21.47	21.36	20.63	23.45	24.57	20.27	20.23	17.63	18.84	19.59	
8	17.06	17.57	21.61	21.37	20.87	23.47	24.53	20.14	20.28	17.74	18.73	19.26	
9	16.85	17.62	21.68	21.29	21.02	23.55	24.47	19.96	20.32	18.11	18.43	18.87	
10	16.84	17.77	21.80	21.19	21.04	23.58	24.38	19.79	20.42	18.39	18.53	19.12	
11	16.79	18.03	21.98	21.13	21.03	23.60	24.25	19.71	20.41	18.49	18.90	19.44	
12	16.76	18.01	22.07	21.12	21.05	23.56	24.08	19.72	20.38	18.30	19.17	19.58	
13	16.84	18.09	22.12	21.09	21.10	23.50	23.96	19.67	20.32	17.99	19.24	19.67	
14	16.81	18.74	22.16	21.01	21.12	23.49	23.84	19.59	20.12	18.02	19.22	19.68	
15	16.71	19.22	22.22	20.88	21.11	23.53	23.68	19.73	19.88	18.24	19.13	19.51	
16	16.73	19.51	22.23	20.75	21.02	23.66	23.55	19.92	19.87	18.58	18.67	19.29	
17	16.99	19.78	22.14	20.66	20.93	23.78	23.42	19.82	19.92	18.77	18.70	19.42	
18	16.96	19.63	22.04	20.62	20.86	23.89	23.26	19.89	20.07	18.61	18.97	19.56	
19	16.87	19.30	21.97	20.67	20.88	24.01	23.08	19.92	20.19	18.28	19.21	19.62	
20	16.96	19.16	21.88	20.69	21.03	24.10	22.88	20.02	20.07	18.11	19.33	19.69	
21	17.18	19.26	21.80	20.75	21.26	24.20	22.76	20.05	19.67	18.27	19.37	19.69	
22	17.19	19.38	21.71	20.84	21.43	24.33	22.60	20.02	19.17	18.41	19.20	19.45	
23	17.50	19.42	21.60	20.81	21.58	24.44	22.44	19.81	18.97	18.45	18.73	19.14	
24	17.72	19.62	21.52	20.72	21.78	24.55	22.21	19.62	19.04	18.45	18.83	19.37	
25	17.80	19.79	21.42	20.60	21.94	24.60	21.89	19.67	18.87	18.41	19.16	19.65	
26	17.96	19.85	21.30	20.44	22.14	24.64	21.70	19.82	18.75	18.07	19.37	19.77	
27	17.91	19.80	21.25	20.29	22.27	24.64	21.54	19.86	18.60	18.06	19.43	19.80	
28	17.64	19.72	21.27	20.13	22.46	24.66	21.39	19.94	18.48	18.46	19.47	19.76	
29	17.38	19.67	21.23	19.99	22.59	24.66	21.24	19.99	18.21	18.75		19.55	
30	17.56	19.82	21.26	19.94	22.67	24.65	21.07	19.84	18.06	18.89		19.31	
31		20.02		19.89	22.74		20.93		18.12	18.92		19.49	
Mean	17.28	18.79	21.51	20.86	21.15	23.86	23.28	20.02	19.63	18.26	18.92	19.44	
Max	17.96	20.02	22.23	21.48	22.74	24.66	24.69	20.90	20.42	18.92	19.47	19.80	24.69
Min	16.71	17.39	20.12	19.89	19.70	22.81	20.93	19.59	18.06	17.63	18.35	18.69	16.71

Annual Max Momentary Gage Height 24.70 M (MSL), at 24.00 Hours, on Oct 3, 1994
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 14.85 M (MSL)
Left Bank Elevation 25.76 M (MSL)
Right Bank Elevation 26.24 M (MSL), Drainage Area 110569 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.4	151.7	598.3	930.6	533.7	1533.0	2510.5	805.3	494.0	194.6	280.0	395.8	
2	123.6	161.6	643.7	950.4	515.0	1613.5	2527.4	782.7	533.7	190.6	232.8	288.8	
3	150.5	161.6	706.1	980.8	496.3	1699.0	2533.0	730.2	558.0	189.2	232.8	335.0	
4	164.1	155.4	733.0	984.2	496.3	1789.5	2510.5	706.1	590.7	171.7	240.5	421.0	
5	159.1	135.7	794.0	953.7	533.7	1844.8	2488.0	706.1	621.0	156.7	259.4	466.5	
6	126.0	111.2	868.0	943.8	643.7	1859.9	2482.3	674.3	631.1	144.3	299.3	475.3	
7	94.7	108.0	980.8	943.8	730.2	1854.9	2465.4	636.2	626.1	135.7	315.6	470.8	
8	78.1	128.4	1028.6	947.1	796.8	1864.9	2442.9	603.3	638.7	149.3	295.7	399.9	
9	61.8	134.5	1053.8	920.8	839.3	1906.2	2409.5	558.0	648.8	197.5	245.2	321.3	
10	61.0	153.0	1097.0	889.0	845.0	1922.0	2359.8	517.3	674.3	238.9	261.1	371.4	
11	57.3	186.6	1164.5	871.0	842.2	1932.5	2288.1	498.7	671.7	254.4	327.0	438.3	
12	55.2	183.9	1200.3	868.0	847.8	1911.5	2194.4	501.0	663.9	225.0	381.6	468.7	
13	61.0	194.6	1220.6	859.2	862.0	1880.0	2128.2	489.3	648.8	181.1	395.8	489.3	
14	58.8	297.5	1236.8	836.5	868.0	1875.0	2062.1	470.8	598.3	185.2	391.7	491.7	
15	51.7	391.7	1261.8	799.7	865.0	1895.8	1974.5	503.3	538.3	216.3	373.4	453.5	
16	53.1	453.5	1266.2	763.3	839.3	1964.0	1906.2	548.0	536.0	269.6	285.3	406.0	
17	72.2	515.0	1228.7	738.5	813.8	2029.0	1839.8	524.3	548.0	302.8	290.5	434.0	
18	70.0	480.0	1188.2	727.5	794.0	2089.6	1759.3	540.7	585.7	274.8	341.0	464.3	
19	63.3	408.0	1160.7	741.2	799.7	2155.8	1668.8	548.0	616.0	222.1	389.7	477.7	
20	70.0	379.5	1127.0	746.8	842.2	2205.4	1568.2	573.1	585.7	197.5	414.5	494.0	
21	88.3	399.9	1097.0	763.3	911.2	2260.6	1508.8	580.6	489.3	220.7	423.2	494.0	
22	89.1	425.3	1064.6	788.3	967.2	2332.3	1432.0	573.1	381.6	242.1	387.7	440.5	
23	120.0	434.0	1025.0	779.8	1018.2	2392.9	1359.3	522.0	341.0	248.3	295.7	375.5	
24	146.8	477.7	997.8	755.0	1089.8	2454.2	1257.4	477.7	355.1	248.3	313.7	423.2	
25	156.7	517.3	963.8	722.0	1149.5	2482.3	1130.7	489.3	321.3	242.1	379.5	484.7	
26	177.1	531.3	924.0	679.6	1228.7	2504.9	1061.0	524.3	299.3	191.9	423.2	512.7	
27	170.4	519.7	908.0	641.2	1283.8	2504.9	1004.6	533.7	273.0	190.6	436.2	519.7	
28	136.9	501.0	914.4	600.8	1368.2	2516.1	953.7	553.0	252.9	249.8	444.8	510.3	
29	107.1	489.3	901.6	565.5	1427.4	2516.1	904.8	565.5	211.9	299.3		462.2	
30	127.2	524.3	911.2	553.0	1465.6	2510.5	853.5	529.0	190.6	325.1		410.2	
31		573.1		540.7	1499.2		813.8		198.9	331.0		449.2	
Total	3073.5	10284.3	30265.5	24785.1	28212.8	62301.1	56398.5	17264.9	15323.7	6886.5	9356.9	13645.5	277798.3 CMSDAY
Mean	102.4	331.8	1008.8	799.5	910.1	2076.7	1819.3	575.5	494.3	222.1	334.2	440.2	761.1 CMS
Max	177.1	573.1	1266.2	984.2	1499.2	2516.1	2533.0	805.3	674.3	331.0	444.8	519.7	2533.0 CMS
Min	51.7	108.0	598.3	540.7	496.3	1533.0	813.8	470.8	190.6	135.7	232.8	288.8	51.7 CMS
Runoff	265.55	888.56	2614.94	2141.43	2437.59	5382.82	4872.83	1491.69	1323.97	594.99	808.44	1178.97	24001.78 MCM

Momentary Peak 2538.67 CMS, at 24.70 M (MSL), at 24.00 Hours, on Oct 3, 1994

Runoff Yield 6.88 Liters/Second/Square KM, Momentary Peak Yield 22.96 Liters/Second/Square KM

WATER YEAR 1994

CHAO PHRAYA RIVER BASIN

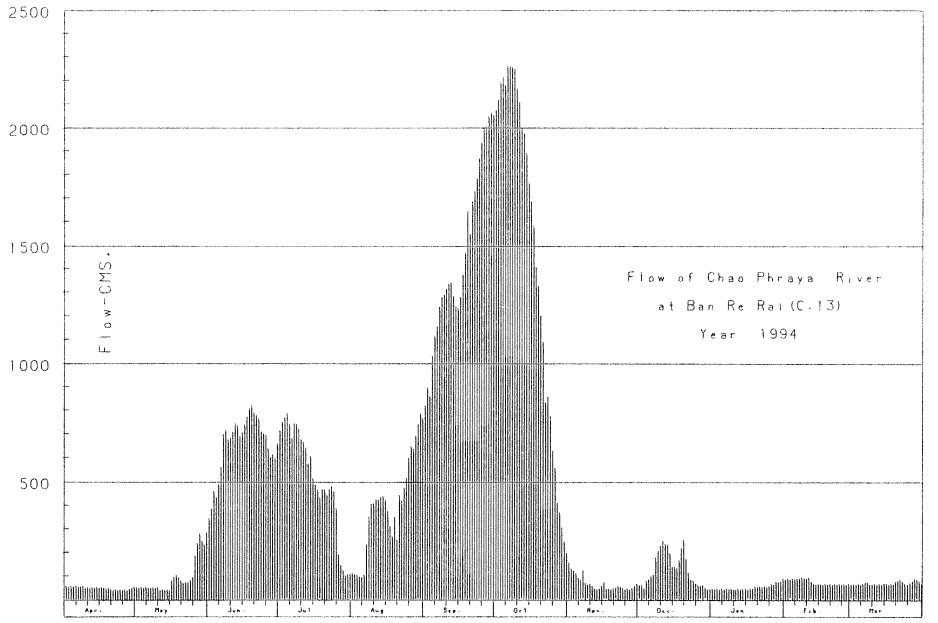
Chao Phraya River at Ban Re Rai, Chai Nat (C.13)

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 left bank about 5 meters from the top staff gage.
Elevation	+18.946 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1947 to date.
Rating Operation	
Period of Rating	1953-1962, 1965-1968, 1972, 1975-1976, 1980 to date.
Rated by Float	-
Rated by Current Meter	1953-1962, 1965-1968, 1972, 1975-1976, 1980 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Chao Phraya Dam above gage site. Stage-discharge relation defined by 163 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.79	5.71	8.36	10.09	6.53	10.50	13.77	7.07	5.90	5.64	6.25	5.93	
2	5.79	5.71	8.61	10.25	6.52	10.77	13.86	6.78	5.86	5.64	6.25	5.93	
3	5.79	5.71	8.97	10.31	6.44	10.65	14.01	6.71	5.67	5.64	6.25	5.93	
4	5.79	5.71	8.85	10.40	6.37	11.25	14.06	6.55	6.10	5.64	6.25	5.93	
5	5.79	5.71	9.10	10.21	6.35	11.51	13.98	6.28	6.24	5.64	6.25	5.93	
6	5.79	5.71	9.44	9.95	6.46	11.64	14.15	6.22	6.39	5.64	6.25	5.96	
7	5.79	5.71	10.03	10.23	7.70	11.87	14.15	6.73	6.51	5.64	6.29	6.07	
8	5.78	5.71	10.12	10.21	8.40	12.00	14.14	5.97	7.25	5.64	6.32	6.03	
9	5.71	5.71	9.93	10.14	8.71	12.02	14.13	5.93	7.52	5.64	6.32	5.94	
10	5.71	5.69	9.98	9.95	8.70	12.09	13.96	5.93	7.64	5.64	6.32	5.93	
11	5.71	5.56	10.08	9.89	8.81	12.14	13.84	5.86	7.81	5.64	6.32	5.93	
12	5.71	5.56	10.23	9.80	8.78	12.16	13.61	5.64	7.69	5.64	6.10	5.93	
13	5.71	5.56	10.18	9.51	8.86	12.00	13.57	5.64	7.71	5.64	5.93	5.93	
14	5.71	5.56	10.00	9.63	8.86	11.88	13.39	5.64	7.40	5.64	5.93	5.93	
15	5.71	5.59	10.06	9.22	8.79	11.85	13.14	5.81	6.89	5.64	5.93	5.95	
16	5.71	6.11	10.20	9.11	8.54	12.00	12.97	6.07	6.86	5.64	5.93	5.94	
17	5.71	6.37	10.34	8.99	8.20	12.25	12.73	5.65	6.85	5.64	5.93	5.93	
18	5.62	6.44	10.46	8.85	7.91	12.46	12.32	5.64	7.14	5.69	5.93	5.93	
19	5.71	6.34	10.52	9.00	8.41	12.88	12.12	5.64	7.59	5.78	5.93	5.94	
20	5.56	6.13	10.40	8.99	7.84	12.65	11.77	5.66	7.81	5.78	5.93	6.06	
21	5.56	6.00	10.37	8.89	8.88	12.97	11.43	5.74	7.22	5.78	5.93	6.15	
22	5.56	5.99	10.30	9.02	8.78	13.07	10.55	5.79	6.58	5.78	5.93	6.21	
23	5.56	6.05	10.09	9.06	9.03	13.18	10.65	5.80	6.23	5.78	5.93	6.12	
24	5.56	6.13	10.04	8.97	9.24	13.35	10.35	5.67	6.10	5.78	5.93	5.94	
25	5.56	6.37	10.03	8.59	9.62	13.49	9.75	5.64	5.99	5.84	5.93	5.93	
26	5.56	7.33	9.77	7.37	9.81	13.61	9.42	5.64	5.86	5.93	5.93	6.00	
27	5.56	7.70	9.62	6.96	9.76	13.63	8.73	5.64	5.86	5.93	5.93	6.14	
28	5.58	7.98	9.66	6.69	10.01	13.71	8.50	5.66	5.86	6.06	5.93	6.22	
29	5.71	7.80	9.61	6.45	10.21	13.75	8.16	5.84	5.72	6.07		6.25	
30	5.71	7.67	9.86	6.47	10.39	13.72	7.76	5.93	5.61	6.08		6.11	
31		8.02		6.51	10.30		7.41		5.64	6.24		5.94	
Mean	5.68	6.24	9.84	9.02	8.49	12.37	12.01	5.96	6.63	5.75	6.07	6.00	
Max	5.79	8.02	10.52	10.40	10.39	13.75	14.15	7.07	7.81	6.24	6.32	6.25	14.15
Min	5.56	5.56	8.36	6.45	6.35	10.50	7.41	5.64	5.61	5.64	5.93	5.93	5.56

Annual Max Momentary Gage Height 14.26 M (MSL), at 24.00 Hours, on Oct 6, 1994
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 1.68 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	60.5	54.8	347.3	718.1	113.5	824.0	2079.3	163.4	68.3	49.8	93.2	70.5	
2	60.5	54.8	393.3	757.8	112.7	900.1	2123.4	134.3	65.5	49.8	93.2	70.5	
3	60.5	54.8	464.6	773.1	106.7	866.2	2196.9	128.5	52.0	49.8	93.2	70.5	
4	60.5	54.8	440.2	796.0	101.8	1038.2	2221.4	115.2	82.6	49.8	93.2	70.5	
5	60.5	54.8	491.0	747.6	100.3	1117.4	2182.2	95.4	92.5	49.8	93.2	70.5	
6	60.5	54.8	566.6	684.4	108.2	1161.9	2265.5	91.1	103.2	49.8	93.2	72.6	
7	60.5	54.8	703.3	752.6	241.0	1241.8	2265.5	130.2	111.8	49.8	96.1	80.4	
8	59.8	54.8	725.4	747.6	354.3	1287.0	2260.6	73.3	181.9	49.8	98.2	77.6	
9	54.8	54.8	679.8	730.3	412.6	1294.6	2255.7	70.5	214.9	49.8	98.2	71.2	
10	54.8	53.4	691.4	684.4	410.7	1321.2	2172.4	70.5	232.3	49.8	98.2	70.5	
11	54.8	44.5	715.6	670.5	432.0	1340.2	2113.6	65.5	256.9	49.8	98.2	70.5	
12	54.8	44.5	752.6	649.6	426.1	1347.8	2000.9	49.8	239.6	49.8	82.6	70.5	
13	54.8	44.5	740.1	582.3	442.2	1287.0	1981.3	49.8	242.5	49.8	70.5	70.5	
14	54.8	44.5	696.0	610.2	442.2	1245.3	1893.1	49.8	199.5	49.8	70.5	70.5	
15	54.8	46.4	710.7	517.5	428.1	1234.9	1770.6	61.9	145.0	49.8	70.5	71.9	
16	54.8	83.3	745.0	493.2	379.7	1287.0	1690.8	80.4	142.0	49.8	70.5	71.2	
17	54.8	101.8	780.7	468.6	319.0	1384.0	1586.5	50.6	141.0	49.8	70.5	70.5	
18	48.4	106.7	812.8	440.2	271.6	1472.5	1413.4	49.8	170.6	53.4	70.5	70.5	
19	54.8	99.6	829.6	470.7	356.1	1651.2	1332.6	49.8	225.1	59.8	70.5	71.2	
20	44.5	84.7	796.0	468.6	261.3	1552.7	1207.1	51.3	256.9	59.8	70.5	79.7	
21	44.5	75.4	788.4	448.3	446.3	1690.8	1092.8	57.0	178.8	59.8	70.5	86.1	
22	44.5	74.7	770.5	474.7	426.1	1736.9	838.1	60.5	117.7	59.8	70.5	90.4	
23	44.5	79.0	718.1	482.9	476.8	1790.2	866.2	61.2	91.8	59.8	70.5	84.0	
24	44.5	84.7	705.8	464.6	521.9	1873.5	783.3	52.0	82.6	59.8	70.5	71.2	
25	44.5	101.8	703.3	389.4	607.8	1942.1	638.0	49.8	74.7	64.1	70.5	70.5	
26	44.5	190.7	642.6	195.7	651.9	2000.9	562.1	49.8	65.5	70.5	70.5	75.4	
27	44.5	241.0	607.8	152.1	640.3	2010.7	416.5	49.8	65.5	70.5	70.5	85.4	
28	45.8	283.1	617.1	126.8	698.5	2049.9	372.0	51.3	65.5	79.7	70.5	91.1	
29	54.8	255.5	605.5	107.4	747.6	2069.5	312.5	64.1	55.5	80.4		93.2	
30	54.8	236.7	663.5	108.9	793.5	2054.8	249.7	70.5	47.7	81.1		83.3	
31		289.6		111.8	770.5		200.7		49.8	92.5		71.2	
Total	1591.1	3159.3	19904.6	15825.9	12601.3	44074.3	45344.7	2197.1	4119.2	1797.6	2258.7	2343.6	155217.4 CMSDAY
Mean	53.0	101.9	663.5	510.5	406.5	1469.1	1462.7	73.2	132.9	58.0	80.7	75.6	425.3 CMS
Max	60.5	289.6	829.6	796.0	793.5	2069.5	2265.5	163.4	256.9	92.5	98.2	93.2	2265.5 CMS
Min	44.5	44.5	347.3	107.4	100.3	824.0	200.7	49.8	47.7	49.8	70.5	70.5	44.5 CMS
Runoff	137.47	272.96	1719.76	1367.36	1088.75	3808.02	3917.78	189.83	355.90	155.31	195.15	202.49	13410.78 MCM

Momentary Peak 2319.40 CMS, at 14.26 M (MSL), at 24.00 Hours, on Oct 6, 1994

Runoff Yield 3.52 Liters/Second/Square KM, Momentary Peak Yield 19.22 Liters/Second/Square KM

WATER YEAR 1994

CHAO PHRAYA RIVER BASIN

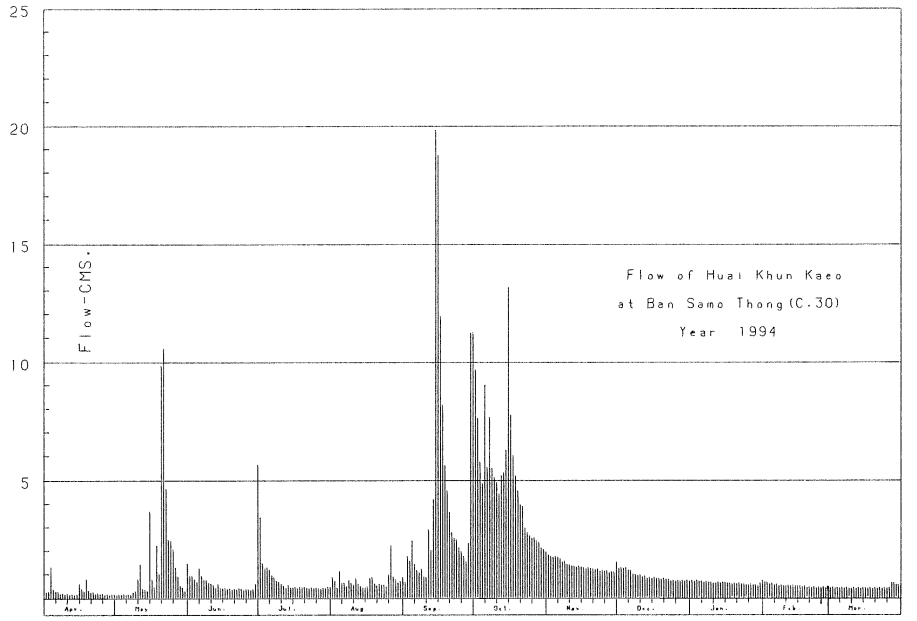
Huai Khun Kaeo at Ban Samo Thong, Uthai Thani (C.30)

Location	Lat. 15°-21'-04" N., Long. 99°-32'-22" E., on right bank infront of Wat Samo Thong School, Ban Samo Thong, Tambon Khok Khwai, Amphoe Ban Rai, Uthai Thani.
Drainage Area	219 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 60 meters from the top staff gage.
Elevation	+11.750 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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 139 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	0.45	0.82	1.09	0.80	0.76	1.58	0.94	0.87	0.77	0.76	0.69	
2	0.55	0.45	0.81	0.90	0.77	0.93	1.44	0.93	0.87	0.77	0.75	0.69	
3	0.88	0.47	0.79	0.87	0.69	0.91	1.30	0.93	0.87	0.77	0.74	0.69	
4	0.62	0.47	0.75	0.87	0.85	1.00	1.22	0.93	0.87	0.77	0.74	0.68	
5	0.57	0.47	0.87	0.86	0.75	0.90	1.54	0.93	0.86	0.76	0.73	0.68	
6	0.54	0.46	0.81	0.82	0.74	0.85	1.28	0.92	0.85	0.76	0.73	0.68	
7	0.50	0.46	0.78	0.80	0.71	0.84	1.44	0.91	0.83	0.76	0.72	0.68	
8	0.49	0.55	0.77	0.77	0.77	0.86	1.28	0.91	0.82	0.76	0.72	0.68	
9	0.48	0.56	0.75	0.75	0.74	0.81	1.24	0.90	0.82	0.75	0.72	0.68	
10	0.48	0.78	0.73	0.74	0.73	0.80	1.22	0.89	0.82	0.75	0.72	0.68	
11	0.47	0.90	0.72	0.71	0.79	1.04	1.18	0.89	0.81	0.75	0.72	0.68	
12	0.46	0.66	0.69	0.69	0.74	0.96	1.25	0.88	0.81	0.75	0.72	0.67	
13	0.46	0.61	0.73	0.72	0.71	1.16	1.26	0.88	0.80	0.75	0.72	0.67	
14	0.46	0.59	0.69	0.70	0.70	2.14	1.34	0.88	0.80	0.75	0.72	0.67	
15	0.74	1.11	0.67	0.69	0.70	2.09	1.79	0.88	0.80	0.75	0.71	0.67	
16	0.63	0.78	0.66	0.69	0.70	1.72	1.45	0.87	0.80	0.75	0.71	0.67	
17	0.59	0.69	0.65	0.68	0.80	1.48	1.32	0.87	0.80	0.74	0.71	0.67	
18	0.79	0.98	0.64	0.69	0.80	1.29	1.25	0.87	0.79	0.74	0.71	0.67	
19	0.58	0.83	0.63	0.70	0.74	1.19	1.19	0.87	0.79	0.74	0.70	0.67	
20	0.55	1.59	0.63	0.69	0.71	1.11	1.14	0.86	0.79	0.74	0.70	0.67	
21	0.53	1.64	0.62	0.67	0.73	1.03	1.13	0.86	0.79	0.74	0.70	0.67	
22	0.50	1.20	0.68	0.67	0.73	1.01	1.05	0.86	0.78	0.74	0.70	0.67	
23	0.50	1.00	0.63	0.67	0.72	1.00	1.03	0.85	0.77	0.73	0.69	0.67	
24	0.49	1.00	0.62	0.67	0.71	0.97	1.02	0.85	0.77	0.73	0.69	0.67	
25	0.48	0.96	0.62	0.66	0.82	0.95	1.01	0.85	0.77	0.73	0.69	0.67	
26	0.47	0.87	0.62	0.65	0.98	0.93	1.01	0.85	0.77	0.73	0.69	0.67	
27	0.47	0.81	0.62	0.65	0.81	0.91	1.00	0.84	0.77	0.73	0.69	0.75	
28	0.46	0.72	0.62	0.66	0.78	0.99	0.99	0.84	0.77	0.72	0.69	0.74	
29	0.46	0.67	0.74	0.68	0.75	1.68	0.97	0.84	0.77	0.72		0.73	
30	0.45	0.58	1.29	0.70	0.76	1.68	0.96	0.91	0.77	0.74		0.72	
31		0.90		0.70	0.80		0.95		0.77	0.77		0.71	
Mean	0.54	0.78	0.72	0.74	0.76	1.13	1.22	0.88	0.81	0.75	0.71	0.68	
Max	0.88	1.64	1.29	1.09	0.98	2.14	1.79	0.94	0.87	0.77	0.76	0.75	2.14
Min	0.45	0.45	0.62	0.65	0.69	0.76	0.95	0.84	0.77	0.72	0.69	0.67	0.45

Annual Max Momentary Gage Height 2.32 M (A.D), at 6.00 Hours, on Sep 14, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.66 M (A.D)
Left Bank Elevation 11.13 M (A.D)
Right Bank Elevation 11.75 M (A.D), Drainage Area 219 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.17	1.02	3.49	0.90	0.74	9.70	1.90	1.32	0.78	0.74	0.49	
2	0.30	0.17	0.96	1.50	0.78	1.80	7.69	1.80	1.32	0.78	0.70	0.49	
3	1.38	0.19	0.86	1.32	0.49	1.60	5.80	1.80	1.32	0.78	0.66	0.49	
4	0.39	0.19	0.70	1.32	1.20	2.50	4.92	1.80	1.32	0.78	0.66	0.47	
5	0.33	0.19	1.32	1.26	0.70	1.50	9.10	1.80	1.26	0.74	0.62	0.47	
6	0.29	0.18	0.96	1.02	0.66	1.20	5.58	1.70	1.20	0.74	0.62	0.47	
7	0.23	0.18	0.82	0.90	0.54	1.14	7.69	1.60	1.08	0.74	0.58	0.47	
8	0.22	0.30	0.78	0.78	0.78	1.26	5.58	1.60	1.02	0.74	0.58	0.47	
9	0.21	0.31	0.70	0.70	0.66	0.96	5.14	1.50	1.02	0.70	0.58	0.47	
10	0.21	0.82	0.62	0.66	0.62	0.90	4.92	1.44	1.02	0.70	0.58	0.47	
11	0.19	1.50	0.58	0.54	0.86	2.94	4.48	1.44	0.96	0.70	0.58	0.47	
12	0.18	0.45	0.49	0.49	0.66	2.10	5.25	1.38	0.96	0.70	0.58	0.46	
13	0.18	0.38	0.62	0.58	0.54	4.26	5.36	1.38	0.90	0.70	0.58	0.46	
14	0.18	0.35	0.49	0.50	0.50	19.84	6.34	1.38	0.90	0.70	0.58	0.46	
15	0.66	3.71	0.46	0.49	0.50	18.81	13.22	1.38	0.90	0.70	0.54	0.46	
16	0.41	0.82	0.45	0.49	0.50	11.96	7.83	1.32	0.90	0.70	0.54	0.46	
17	0.35	0.49	0.43	0.47	0.90	8.23	6.07	1.32	0.90	0.66	0.54	0.46	
18	0.86	2.30	0.42	0.49	0.90	5.69	5.25	1.32	0.86	0.66	0.54	0.46	
19	0.34	1.08	0.41	0.50	0.66	4.59	4.59	1.32	0.86	0.66	0.50	0.46	
20	0.30	9.85	0.41	0.49	0.54	3.71	4.04	1.26	0.86	0.66	0.50	0.46	
21	0.27	10.64	0.39	0.46	0.62	2.83	3.93	1.26	0.86	0.66	0.50	0.46	
22	0.23	4.70	0.47	0.46	0.62	2.61	3.05	1.26	0.82	0.66	0.50	0.46	
23	0.23	2.50	0.41	0.46	0.58	2.50	2.83	1.20	0.78	0.62	0.49	0.46	
24	0.22	2.50	0.39	0.46	0.54	2.20	2.72	1.20	0.78	0.62	0.49	0.46	
25	0.21	2.10	0.39	0.45	1.02	2.00	2.61	1.20	0.78	0.62	0.49	0.46	
26	0.19	1.32	0.39	0.43	2.30	1.80	2.61	1.20	0.78	0.62	0.49	0.46	
27	0.19	0.96	0.39	0.43	0.96	1.60	2.50	1.14	0.78	0.62	0.49	0.70	
28	0.18	0.58	0.39	0.45	0.82	2.40	2.40	1.14	0.78	0.58	0.49	0.66	
29	0.18	0.46	0.66	0.47	0.70	11.28	2.20	1.14	0.78	0.58		0.62	
30	0.17	0.34	5.69	0.50	0.74	11.28	2.10	1.60	0.78	0.66		0.58	
31		1.50		0.50	0.90		2.00		0.78	0.78		0.54	
Total	9.58	51.23	23.07	23.06	23.69	136.23	157.50	42.78	29.58	21.34	15.74	15.23	549.03 CMSDAY
Mean	0.32	1.65	0.77	0.74	0.76	4.54	5.08	1.43	0.95	0.69	0.56	0.49	1.50 CMS
Max	1.38	10.64	5.69	3.49	2.30	19.84	13.22	1.90	1.32	0.78	0.74	0.70	19.84 CMS
Min	0.17	0.17	0.39	0.43	0.49	0.74	2.00	1.14	0.78	0.58	0.49	0.46	0.17 CMS
Runoff	0.828	4.426	1.993	1.992	2.047	11.770	13.608	3.696	2.556	1.844	1.360	1.316	47.436 MCM

Momentary Peak 23.74 CMS, at 2.32 M (A.D), at 6.00 Hours, on Sep 14, 1994

Runoff Yield 6.87 Liters/Second/Square KM, Momentary Peak Yield 108.40 Liters/Second/Square KM

WATER YEAR 1994

SAKAE KRANG RIVER BASIN

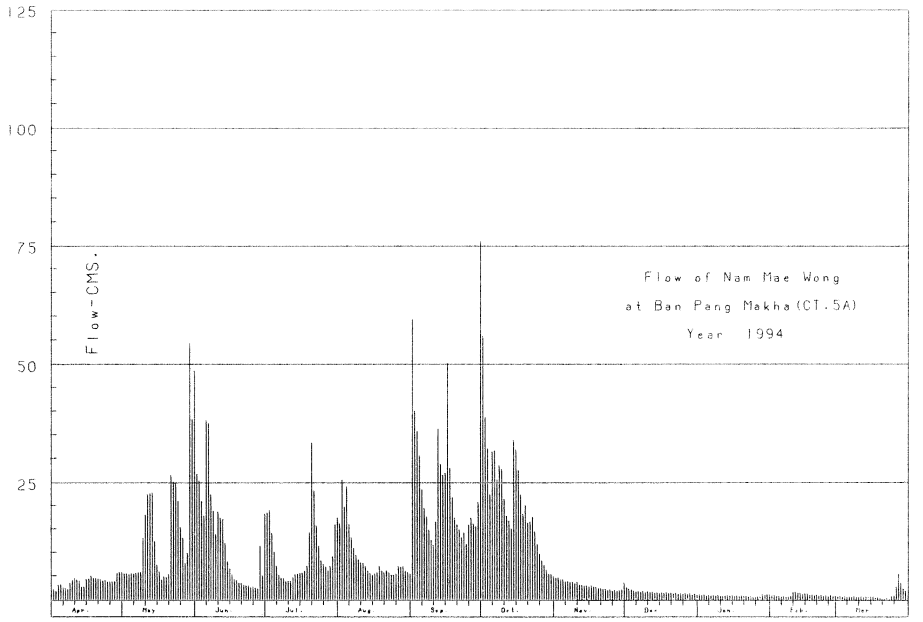
Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (CT.5A)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir about 50 meters above gage site. Stage-discharge relation defined by 85 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	0.48	1.01	0.81	0.75	1.64	1.58	0.42	0.27	0.10	0.08	0.05	
2	0.20	0.47	0.97	0.82	0.98	1.32	1.30	0.41	0.23	0.09	0.08	0.05	
3	0.29	0.47	0.87	0.70	0.84	1.23	1.14	0.39	0.23	0.09	0.06	0.05	
4	0.31	0.48	0.79	0.61	0.94	1.10	0.90	0.38	0.20	0.08	0.05	0.04	
5	0.26	0.48	1.28	0.53	0.75	0.93	1.12	0.36	0.20	0.08	0.05	0.04	
6	0.24	0.48	1.27	0.46	0.68	0.83	1.13	0.35	0.19	0.08	0.04	0.04	
7	0.23	0.50	0.90	0.41	0.63	0.79	0.98	0.35	0.19	0.08	0.04	0.04	
8	0.32	0.49	0.82	0.39	0.59	0.72	1.05	0.34	0.19	0.08	0.03	0.04	
9	0.38	0.68	0.70	0.36	0.57	0.67	1.03	0.33	0.18	0.08	0.07	0.04	
10	0.40	0.80	0.81	0.35	0.55	0.64	0.88	0.34	0.18	0.08	0.18	0.04	
11	0.37	0.90	0.78	0.35	0.55	0.76	0.79	0.31	0.18	0.08	0.17	0.04	
12	0.37	0.91	0.78	0.42	0.53	1.24	0.77	0.29	0.17	0.07	0.16	0.03	
13	0.27	0.91	0.65	0.46	0.51	1.06	0.73	0.29	0.16	0.07	0.14	0.03	
14	0.26	0.66	0.56	0.48	0.48	1.00	1.18	0.28	0.15	0.07	0.13	0.03	
15	0.38	0.54	0.52	0.49	0.46	1.01	1.13	0.28	0.15	0.07	0.12	0.03	
16	0.40	0.50	0.45	0.48	0.47	1.49	1.03	0.28	0.15	0.07	0.11	0.03	
17	0.44	0.38	0.39	0.51	0.50	1.04	0.90	0.28	0.15	0.06	0.10	0.02	
18	0.41	0.42	0.36	0.53	0.53	0.89	0.80	0.26	0.16	0.06	0.09	0.01	
19	0.40	0.42	0.33	0.71	0.51	0.78	0.85	0.25	0.15	0.06	0.09	0.01	
20	0.40	0.46	0.32	1.17	0.49	0.75	0.76	0.24	0.14	0.06	0.08	0.00	
21	0.38	1.00	0.29	0.92	0.51	0.72	0.76	0.24	0.14	0.05	0.08	-0.01	
22	0.37	0.97	0.29	0.74	0.49	0.68	0.79	0.23	0.14	0.05	0.08	-0.01	
23	0.36	0.96	0.28	0.64	0.46	0.71	0.71	0.22	0.13	0.04	0.07	0.00	
24	0.35	0.87	0.26	0.56	0.45	0.65	0.65	0.22	0.13	0.03	0.07	0.04	
25	0.34	0.73	0.26	0.54	0.48	0.75	0.60	0.21	0.13	0.03	0.07	0.08	
26	0.34	0.68	0.24	0.53	0.53	0.78	0.56	0.21	0.13	0.03	0.07	0.26	
27	0.36	0.55	0.24	0.51	0.53	0.75	0.54	0.21	0.13	0.05	0.06	0.48	
28	0.49	0.60	0.64	0.53	0.53	0.74	0.51	0.21	0.12	0.10	0.06	0.32	
29	0.49	1.56	0.45	0.58	0.51	0.86	0.48	0.23	0.11	0.10		0.24	
30	0.49	1.29	0.80	0.75	0.49	1.90	0.46	0.33	0.11	0.09		0.19	
31		1.46		0.78	0.48		0.43		0.10	0.09		0.05	
Mean	0.35	0.71	0.61	0.58	0.57	0.95	0.86	0.29	0.16	0.07	0.09	0.07	
Max	0.49	1.56	1.28	1.17	0.98	1.90	1.58	0.42	0.27	0.10	0.18	0.48	1.90
Min	0.20	0.38	0.24	0.35	0.45	0.64	0.43	0.21	0.10	0.03	0.03	-0.01	-0.01

Annual Max Momentary Gage Height 2.01 M (A.D), at 12.00 Hours, on Sep 30, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.41 M (A.D)
Left Bank Elevation 4.15 M (A.D)
Right Bank Elevation 4.68 M (A.D), Drainage Area 938 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.27	5.73	26.99	18.70	16.21	59.70	56.03	4.93	2.93	1.25	1.10	0.88	
2	2.00	5.60	25.33	19.11	25.74	40.20	39.00	4.80	2.40	1.18	1.10	0.88	
3	3.20	5.60	21.19	14.14	19.94	36.10	32.37	4.53	2.40	1.18	0.95	0.88	
4	3.47	5.73	17.87	10.41	24.09	30.71	22.43	4.40	2.00	1.10	0.88	0.80	
5	2.80	5.73	38.17	7.20	16.21	23.67	31.54	4.13	2.00	1.10	0.88	0.80	
6	2.53	5.73	37.76	5.47	13.31	19.53	31.96	4.00	1.92	1.10	0.80	0.80	
7	2.40	6.00	22.43	4.80	11.24	17.87	25.74	4.00	1.92	1.10	0.80	0.80	
8	3.60	5.87	19.11	4.53	9.60	14.97	28.64	3.87	1.92	1.10	0.73	0.80	
9	4.40	13.31	14.14	4.13	8.80	12.90	27.81	3.73	1.85	1.10	1.02	0.80	
10	4.67	18.29	18.70	4.00	8.00	11.66	21.60	3.87	1.85	1.10	1.85	0.80	
11	4.27	22.43	17.46	4.00	8.00	16.63	17.87	3.47	1.85	1.10	1.78	0.80	
12	4.27	22.84	17.46	4.93	7.20	36.51	17.04	3.20	1.78	1.02	1.70	0.73	
13	2.93	22.84	12.07	5.47	6.40	29.06	15.39	3.20	1.70	1.02	1.55	0.73	
14	2.80	12.49	8.40	5.73	5.73	26.57	34.03	3.07	1.63	1.02	1.48	0.73	
15	4.40	7.60	6.80	5.87	5.47	26.99	31.96	3.07	1.63	1.02	1.40	0.73	
16	4.67	6.00	5.33	5.73	5.60	50.51	27.81	3.07	1.63	1.02	1.33	0.73	
17	5.20	4.40	4.53	6.40	6.00	28.23	22.43	3.07	1.63	0.95	1.25	0.65	
18	4.80	4.93	4.13	7.20	7.20	22.01	18.29	2.80	1.70	0.95	1.18	0.58	
19	4.67	4.93	3.73	14.56	6.40	17.46	20.36	2.67	1.63	0.95	1.18	0.58	
20	4.67	5.47	3.60	33.61	5.87	16.21	16.63	2.53	1.55	0.95	1.10	0.50	
21	4.40	26.57	3.20	23.26	6.40	14.97	16.63	2.53	1.55	0.88	1.10	0.45	
22	4.27	25.33	3.20	15.80	5.87	13.31	17.87	2.40	1.55	0.88	1.10	0.45	
23	4.13	24.91	3.07	11.66	5.47	14.56	14.56	2.27	1.48	0.80	1.02	0.50	
24	4.00	21.19	2.80	8.40	5.33	12.07	12.07	2.27	1.48	0.73	1.02	0.80	
25	3.87	15.39	2.80	7.60	5.73	16.21	10.00	2.13	1.48	0.73	1.02	1.10	
26	3.87	13.31	2.53	7.20	7.20	17.46	8.40	2.13	1.48	0.73	1.02	2.80	
27	4.13	8.00	2.53	6.40	7.20	16.21	7.60	2.13	1.48	0.88	0.95	5.73	
28	5.87	10.00	11.66	7.20	7.20	15.80	6.40	2.13	1.40	1.25	0.95	3.60	
29	5.87	54.80	5.33	9.20	6.40	20.77	5.73	2.40	1.33	1.25		2.53	
30	5.87	38.59	18.29	16.21	5.87	76.25	5.47	3.73	1.33	1.18		1.92	
31		48.68		17.46	5.73		5.07		1.25	1.18		0.88	
Total	120.30	478.29	380.61	316.38	285.41	755.10	648.73	96.53	53.73	31.80	32.24	35.76	3234.88 CMSDAY
Mean	4.01	15.43	12.69	10.21	9.21	25.17	20.93	3.22	1.73	1.03	1.15	1.15	8.86 CMS
Max	5.87	54.80	38.17	33.61	25.74	76.25	56.03	4.93	2.93	1.25	1.85	5.73	76.25 CMS
Min	2.00	4.40	2.53	4.00	5.33	11.66	5.07	2.13	1.25	0.73	0.73	0.45	0.45 CMS
Runoff	10.394	41.324	32.885	27.335	24.659	65.241	56.050	8.340	4.642	2.748	2.786	3.090	279.494 MCM

Momentary Peak 83.75 CMS, at 2.01 M (A.D), at 12.00 Hours, on Sep 30, 1994

Runoff Yield 9.45 Liters/Second/Square KM, Momentary Peak Yield 89.29 Liters/Second/Square KM

WATER YEAR 1994

SAKAE KRANG RIVER BASIN

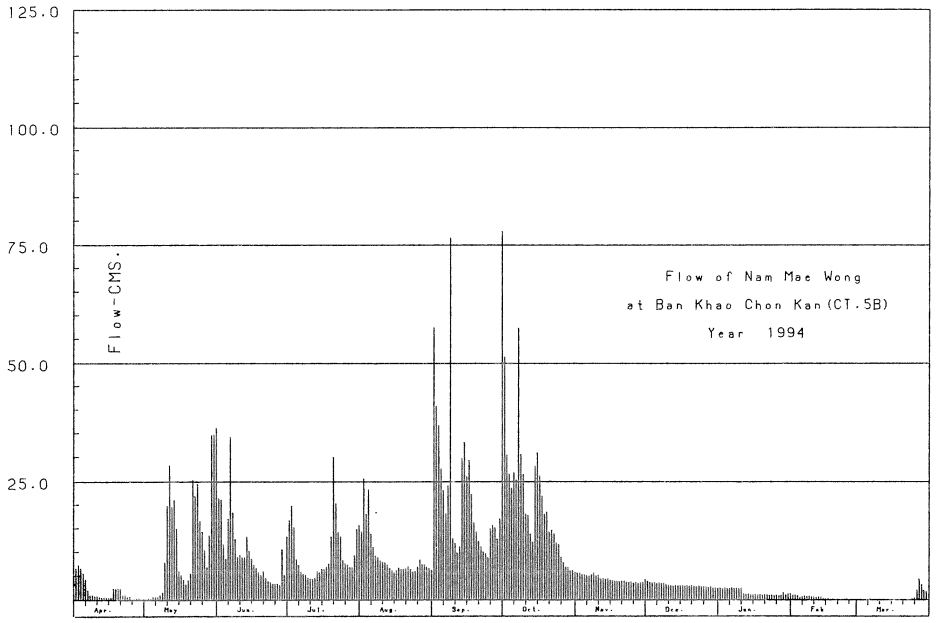
Nam Mae Wong at Ban Khao Chon Kan, Nakhon Sawan (CT.5B)

Location	Lat. 15°-54'-11" N., Long. 99°-27'-37" E., on right bank 8 kilometers upstream from CT.5A, Tambon Mae Lay, Amphoe Lat Yao, Nakhon Sawan.
Drainage Area	930 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 7.00 meters from the top staff gage.
Elevation	+13.173 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1988 to date.
Rated by Float	-
Rated by Current Meter	1988 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir about 50 meters above gage site. Stage-discharge relation defined by 38 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.34	4.75	5.84	5.71	5.64	6.57	6.46	5.28	5.13	5.00	4.85	4.74	
2	5.37	4.75	5.83	5.80	5.94	6.27	6.06	5.27	5.10	5.00	4.85	4.74	
3	5.34	4.75	5.55	5.67	5.75	6.19	5.96	5.25	5.10	5.00	4.84	4.74	
4	5.27	4.80	5.43	5.42	5.88	5.99	5.89	5.24	5.10	5.00	4.83	4.73	
5	5.17	4.80	5.72	5.37	5.63	5.88	5.97	5.23	5.09	5.00	4.82	4.73	
6	4.95	4.80	6.14	5.29	5.53	5.75	5.93	5.21	5.09	5.00	4.82	4.73	
7	4.85	4.85	5.76	5.26	5.45	5.90	6.57	5.25	5.09	5.00	4.82	4.73	
8	4.84	4.90	5.60	5.23	5.44	6.89	6.06	5.27	5.08	4.99	4.82	4.73	
9	4.83	5.40	5.44	5.19	5.41	5.60	5.96	5.23	5.07	4.99	4.81	4.73	
10	4.82	5.80	5.46	5.16	5.40	5.56	5.75	5.23	5.05	4.99	4.80	4.73	
11	4.81	6.00	5.44	5.16	5.40	5.48	5.74	5.17	5.05	4.87	4.80	4.73	
12	4.80	5.79	5.44	5.18	5.37	5.53	5.63	5.17	5.04	4.87	4.80	4.73	
13	4.79	5.83	5.61	5.30	5.34	6.04	5.57	5.17	5.04	4.87	4.80	4.73	
14	4.78	5.66	5.50	5.29	5.31	6.12	6.00	5.17	5.04	4.86	4.74	4.72	
15	4.78	5.30	5.43	5.33	5.28	5.95	6.07	5.15	5.04	4.86	4.74	4.72	
16	4.78	5.24	5.37	5.32	5.31	6.03	5.95	5.13	5.04	4.86	4.74	4.72	
17	4.99	5.15	5.34	5.35	5.34	5.86	5.85	5.13	5.04	4.85	4.74	4.71	
18	4.99	5.07	5.28	5.38	5.32	5.70	5.75	5.12	5.04	4.85	4.74	4.70	
19	4.99	5.14	5.24	5.61	5.33	5.64	5.76	5.12	5.04	4.85	4.74	4.70	
20	4.99	5.27	5.30	6.05	5.33	5.58	5.64	5.12	5.04	4.85	4.74	4.69	
21	4.85	5.93	5.18	5.81	5.35	5.53	5.65	5.12	5.04	4.85	4.74	4.69	
22	4.84	5.85	5.12	5.64	5.33	5.49	5.63	5.11	5.03	4.85	4.74	4.69	
23	4.81	5.91	5.10	5.61	5.30	5.47	5.56	5.11	5.03	4.84	4.74	4.70	
24	4.81	5.71	5.08	5.42	5.30	5.44	5.55	5.11	5.03	4.84	4.74	4.76	
25	4.71	5.64	5.07	5.38	5.35	5.66	5.44	5.10	5.02	4.84	4.73	4.78	
26	4.73	5.50	5.07	5.37	5.42	5.68	5.40	5.10	5.02	4.84	4.73	4.96	
27	4.76	5.35	5.06	5.35	5.38	5.67	5.35	5.09	5.02	4.85	4.73	5.17	
28	4.75	5.62	5.51	5.34	5.37	5.60	5.34	5.09	5.02	4.90	4.73	5.06	
29	4.74	6.15	5.24	5.46	5.35	5.72	5.31	5.11	5.00	4.86		4.96	
30	4.73	6.15	5.61	5.66	5.33	6.91	5.31	5.15	5.00	4.87		4.92	
31		6.18		5.68	5.32		5.29		5.00	4.88		4.87	
Mean	4.91	5.42	5.43	5.44	5.43	5.86	5.75	5.17	5.05	4.90	4.78	4.78	
Max	5.37	6.18	6.14	6.05	5.94	6.91	6.57	5.28	5.13	5.00	4.85	5.17	6.91
Min	4.71	4.75	5.06	5.16	5.28	5.44	5.29	5.09	5.00	4.84	4.73	4.69	4.69

Annual Max Momentary Gage Height 7.00 M (A.D), at 6.00 Hours, on Sep 30, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 4.54 M (A.D)
Left Bank Elevation 13.41 M (A.D)
Right Bank Elevation 13.41 M (A.D), Drainage Area 930 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.80	0.30	21.67	16.85	14.40	57.63	51.40	5.77	4.02	2.50	1.05	0.24	
2	7.40	0.30	21.25	20.00	25.83	41.18	30.83	5.65	3.67	2.50	1.05	0.24	
3	6.80	0.30	11.75	15.45	18.25	37.00	26.67	5.42	3.67	2.50	0.96	0.24	
4	5.65	0.60	8.75	8.50	23.33	27.92	23.75	5.30	3.67	2.50	0.87	0.18	
5	4.48	0.60	17.20	7.40	14.05	23.33	27.08	5.18	3.55	2.50	0.78	0.18	
6	2.00	0.60	34.50	5.88	11.25	18.25	25.42	4.95	3.55	2.50	0.78	0.18	
7	1.05	1.05	18.60	5.53	9.25	24.17	57.63	5.42	3.55	2.50	0.78	0.18	
8	0.96	1.50	13.00	5.18	9.00	76.72	30.83	5.65	3.43	2.40	0.78	0.18	
9	0.87	8.00	9.00	4.72	8.25	13.00	26.67	5.18	3.32	2.40	0.69	0.18	
10	0.78	20.00	9.50	4.37	8.00	12.00	18.25	5.18	3.08	2.40	0.60	0.18	
11	0.69	28.33	9.00	4.37	8.00	10.00	17.90	4.48	3.08	1.23	0.60	0.18	
12	0.60	19.65	9.00	4.60	7.40	11.25	14.05	4.48	2.97	1.23	0.60	0.18	
13	0.54	21.25	13.35	6.00	6.80	30.00	12.25	4.48	2.97	1.23	0.60	0.18	
14	0.48	15.10	10.50	5.88	6.20	33.50	28.33	4.48	2.97	1.14	0.24	0.12	
15	0.48	6.00	8.75	6.60	5.77	26.25	31.25	4.25	2.97	1.14	0.24	0.12	
16	0.48	5.30	7.40	6.40	6.20	29.58	26.25	4.02	2.97	1.14	0.24	0.12	
17	2.40	4.25	6.80	7.00	6.80	22.50	22.08	4.02	2.97	1.05	0.24	0.06	
18	2.40	3.32	5.77	7.60	6.40	16.50	18.25	3.90	2.97	1.05	0.24	0.00	
19	2.40	4.13	5.30	13.35	6.60	14.40	18.60	3.90	2.97	1.05	0.24	0.00	
20	2.40	5.65	6.00	30.42	6.60	12.50	14.40	3.90	2.97	1.05	0.24	0.00	
21	1.05	25.42	4.60	20.42	7.00	11.25	14.75	3.90	2.97	1.05	0.24	0.00	
22	0.96	22.08	3.90	14.40	6.60	10.25	14.05	3.78	2.85	1.05	0.24	0.00	
23	0.69	24.58	3.67	13.35	6.00	9.75	12.00	3.78	2.85	0.96	0.24	0.00	
24	0.69	16.85	3.43	8.50	6.00	9.00	11.75	3.78	2.85	0.96	0.24	0.36	
25	0.06	14.40	3.32	7.60	7.00	15.10	9.00	3.67	2.73	0.96	0.18	0.48	
26	0.18	10.50	3.32	7.40	8.50	15.80	8.00	3.67	2.73	0.96	0.18	2.10	
27	0.36	7.00	3.20	7.00	7.60	15.45	7.00	3.55	2.73	1.05	0.18	4.48	
28	0.30	13.70	10.75	6.80	7.40	13.00	6.80	3.55	2.73	1.50	0.18	3.20	
29	0.24	35.00	5.30	9.50	7.00	17.20	6.20	3.78	2.50	1.14		2.10	
30	0.18	35.00	13.35	15.10	6.60	77.95	6.20	4.25	2.50	1.23		1.70	
31		36.50		15.80	6.40		5.88		2.50	1.32		1.23	
Total	54.37	387.26	301.93	311.97	284.48	732.43	623.52	133.32	95.26	48.19	13.50	18.59	3004.82 CMSDAY
Mean	1.81	12.49	10.06	10.06	9.18	24.41	20.11	4.44	3.07	1.55	0.48	0.60	8.23 CMS
Max	7.40	36.50	34.50	30.42	25.83	77.95	57.63	5.77	4.02	2.50	1.05	4.48	77.95 CMS
Min	0.06	0.30	3.20	4.37	5.77	9.00	5.88	3.55	2.50	0.96	0.18	0.00	0.00 CMS
Runoff	4.698	33.459	26.087	26.954	24.579	63.282	53.872	11.519	8.230	4.164	1.166	1.606	259.616 MCM

Momentary Peak 83.50 CMS, at 7.00 M (A.D), at 6.00 Hours, on Sep 30, 1994

Runoff Yield 8.85 Liters/Second/Square KM, Momentary Peak Yield 89.78 Liters/Second/Square KM

WATER YEAR 1994

SAKAE KRANG RIVER BASIN

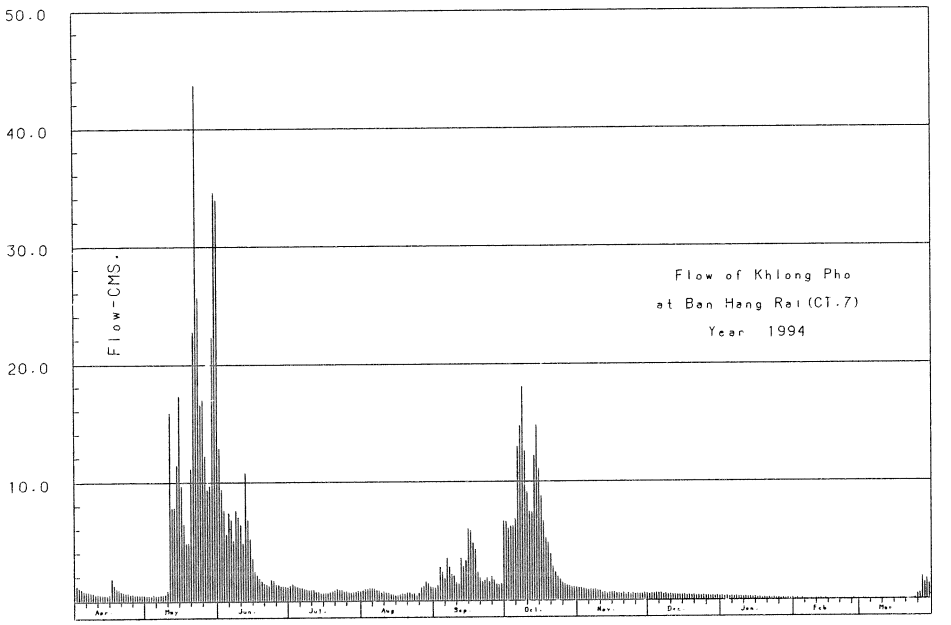
Khlong Pho at Ban Hang Rai, Nakhon Sawan (CT.7)

Location	Lat. 15°-38'-23" N., Long. 99°-32'-20" E., on right bank near the gage observer's house, Ban Hang Rai, Amphoe Lat Yao, Nakhon Sawan.
Drainage Area	457 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Infront of gage observer's house.
Elevation	+4.660 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1975 to date.
Rating Operation	
Period of Rating	1975 to 1984, 1988 to date.
Rated by Float	-
Rated by Current Meter	1975 to 1984, 1988 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 203 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	0.65	1.45	0.84	0.75	0.79	1.22	0.79	0.66	0.61	0.55	0.53	
2	0.80	0.64	1.34	0.89	0.77	0.85	1.19	0.78	0.66	0.60	0.55	0.53	
3	0.78	0.64	1.27	0.84	0.78	1.02	1.20	0.78	0.67	0.60	0.54	0.53	
4	0.73	0.66	1.17	0.83	0.79	0.99	1.20	0.75	0.67	0.60	0.54	0.52	
5	0.73	0.65	1.26	0.81	0.79	0.94	1.23	0.75	0.68	0.60	0.53	0.51	
6	0.72	0.64	1.23	0.79	0.77	1.06	1.45	0.75	0.67	0.60	0.53	0.51	
7	0.71	0.66	1.14	0.78	0.75	1.02	1.50	0.75	0.66	0.60	0.53	0.51	
8	0.69	0.65	1.27	0.76	0.73	0.97	1.59	0.75	0.66	0.60	0.53	0.51	
9	0.67	0.67	1.24	0.75	0.70	0.96	1.44	0.74	0.65	0.59	0.53	0.51	
10	0.67	0.74	1.21	0.75	0.71	0.90	1.33	0.72	0.65	0.59	0.54	0.51	
11	0.67	1.53	1.13	0.75	0.70	0.88	1.26	0.69	0.65	0.59	0.54	0.51	
12	0.66	1.28	1.39	0.72	0.69	1.06	1.26	0.69	0.64	0.59	0.54	0.51	
13	0.65	1.28	1.23	0.71	0.67	1.02	1.43	0.67	0.64	0.58	0.54	0.51	
14	0.65	1.41	1.15	0.69	0.65	1.05	1.50	0.68	0.63	0.58	0.54	0.51	
15	0.66	1.57	1.06	0.69	0.64	1.19	1.40	0.70	0.64	0.58	0.53	0.51	
16	0.94	1.35	1.00	0.69	0.63	1.18	1.32	0.69	0.64	0.57	0.53	0.51	
17	0.85	1.21	0.97	0.69	0.66	1.13	1.22	0.68	0.63	0.57	0.53	0.51	
18	0.79	1.13	0.94	0.70	0.67	1.10	1.15	0.67	0.63	0.56	0.53	0.51	
19	0.76	1.13	0.92	0.73	0.67	0.99	1.13	0.66	0.63	0.56	0.53	0.51	
20	0.73	1.40	0.89	0.74	0.69	0.94	1.08	0.68	0.63	0.56	0.53	0.51	
21	0.71	1.70	0.87	0.77	0.71	0.91	1.02	0.65	0.62	0.56	0.53	0.51	
22	0.70	2.08	0.85	0.76	0.67	0.92	0.99	0.67	0.62	0.56	0.53	0.51	
23	0.69	1.76	0.93	0.75	0.67	0.94	0.95	0.65	0.62	0.56	0.53	0.51	
24	0.68	1.55	0.92	0.73	0.64	0.91	0.93	0.67	0.62	0.56	0.53	0.53	
25	0.67	1.56	0.87	0.72	0.68	0.95	0.90	0.66	0.62	0.56	0.53	0.64	
26	0.66	1.43	0.87	0.71	0.79	0.92	0.86	0.66	0.61	0.55	0.53	0.65	
27	0.65	1.34	0.84	0.70	0.84	0.87	0.85	0.65	0.61	0.55	0.53	0.94	
28	0.66	1.35	0.83	0.70	0.91	0.85	0.83	0.66	0.61	0.55	0.53	0.88	
29	0.65	1.69	0.83	0.72	0.88	0.88	0.81	0.67	0.61	0.55		0.92	
30	0.65	1.93	0.81	0.73	0.82	1.22	0.80	0.66	0.61	0.55		0.85	
31		1.92		0.72	0.79		0.79		0.61	0.55		0.78	
Mean	0.71	1.23	1.06	0.75	0.73	0.98	1.16	0.70	0.64	0.58	0.53	0.58	
Max	0.94	2.08	1.45	0.89	0.91	1.22	1.59	0.79	0.68	0.61	0.55	0.94	2.08
Min	0.65	0.64	0.81	0.69	0.63	0.79	0.79	0.65	0.61	0.55	0.53	0.51	0.51

Annual Max Momentary Gage Height 2.48 M (A.D), at 6.00 Hours, on May 22, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.51 M (A.D)
Left Bank Elevation 3.74 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	0.50	13.00	1.26	0.90	1.06	6.70	1.06	0.54	0.34	0.15	0.09	
2	1.10	0.46	9.46	1.46	0.98	1.30	6.10	1.02	0.54	0.30	0.15	0.09	
3	1.02	0.46	7.70	1.26	1.02	2.86	6.30	1.02	0.58	0.30	0.12	0.09	
4	0.82	0.54	5.70	1.22	1.06	2.40	6.30	0.90	0.58	0.30	0.12	0.06	
5	0.82	0.50	7.50	1.14	1.06	1.90	6.90	0.90	0.62	0.30	0.09	0.03	
6	0.78	0.46	6.90	1.06	0.98	3.58	13.00	0.90	0.58	0.30	0.09	0.03	
7	0.74	0.54	5.10	1.02	0.90	2.86	14.80	0.90	0.54	0.30	0.09	0.03	
8	0.66	0.50	7.70	0.94	0.82	2.20	18.13	0.90	0.54	0.30	0.09	0.03	
9	0.58	0.58	7.10	0.90	0.70	2.10	12.64	0.86	0.50	0.27	0.09	0.03	
10	0.58	0.86	6.50	0.90	0.74	1.50	9.17	0.78	0.50	0.27	0.12	0.03	
11	0.58	15.91	4.90	0.90	0.70	1.42	7.50	0.66	0.50	0.27	0.12	0.03	
12	0.54	7.90	10.91	0.78	0.66	3.58	7.50	0.66	0.46	0.27	0.12	0.03	
13	0.50	7.90	6.90	0.74	0.58	2.86	12.28	0.58	0.46	0.24	0.12	0.03	
14	0.50	11.56	5.30	0.66	0.50	3.40	14.80	0.62	0.42	0.24	0.12	0.03	
15	0.54	17.39	3.58	0.66	0.46	6.10	11.20	0.70	0.46	0.24	0.09	0.03	
16	1.90	9.75	2.50	0.66	0.42	5.90	8.88	0.66	0.46	0.21	0.09	0.03	
17	1.30	6.50	2.20	0.66	0.54	4.90	6.70	0.62	0.42	0.21	0.09	0.03	
18	1.06	4.90	1.90	0.70	0.58	4.30	5.30	0.58	0.42	0.18	0.09	0.03	
19	0.94	4.90	1.70	0.82	0.58	2.40	4.90	0.54	0.42	0.18	0.09	0.03	
20	0.82	11.20	1.46	0.86	0.66	1.90	3.94	0.62	0.42	0.18	0.09	0.03	
21	0.74	22.80	1.38	0.98	0.74	1.60	2.86	0.50	0.38	0.18	0.09	0.03	
22	0.70	43.76	1.30	0.94	0.58	1.70	2.40	0.58	0.38	0.18	0.09	0.03	
23	0.66	25.74	1.80	0.90	0.58	1.90	2.00	0.50	0.38	0.18	0.09	0.03	
24	0.62	16.65	1.70	0.82	0.46	1.60	1.80	0.58	0.38	0.18	0.09	0.09	
25	0.58	17.02	1.38	0.78	0.62	2.00	1.50	0.54	0.38	0.18	0.09	0.46	
26	0.54	12.28	1.38	0.74	1.06	1.70	1.34	0.54	0.34	0.15	0.09	0.50	
27	0.50	9.46	1.26	0.70	1.26	1.38	1.30	0.50	0.34	0.15	0.09	1.90	
28	0.54	9.75	1.22	0.70	1.60	1.30	1.22	0.54	0.34	0.15	0.09	1.42	
29	0.50	22.37	1.22	0.78	1.42	1.42	1.14	0.58	0.34	0.15		1.70	
30	0.50	34.60	1.14	0.82	1.18	6.70	1.10	0.54	0.34	0.15		1.30	
31		34.00		0.78	1.06		1.06		0.34	0.15		1.02	
Total	22.96	351.74	131.79	27.54	25.40	79.82	200.76	20.88	13.90	7.00	2.85	9.29	893.93 CMSDAY
Mean	0.77	11.35	4.39	0.89	0.82	2.66	6.48	0.70	0.45	0.23	0.10	0.30	2.45 CMS
Max	1.90	43.76	13.00	1.46	1.60	6.70	18.13	1.06	0.62	0.34	0.15	1.90	43.76 CMS
Min	0.50	0.46	1.14	0.66	0.42	1.06	1.06	0.50	0.34	0.15	0.09	0.03	0.03 CMS
Runoff	1.984	30.390	11.387	2.379	2.195	6.896	17.346	1.804	1.201	0.605	0.246	0.803	77.236 MCM

Momentary Peak 73.40 CMS, at 2.48 M (A.D), at 6.00 Hours, on May 22, 1994

Runoff Yield 5.36 Liters/Second/Square KM, Momentary Peak Yield 160.61 Liters/Second/Square KM

WATER YEAR 1994

SAKAE KRANG RIVER BASIN

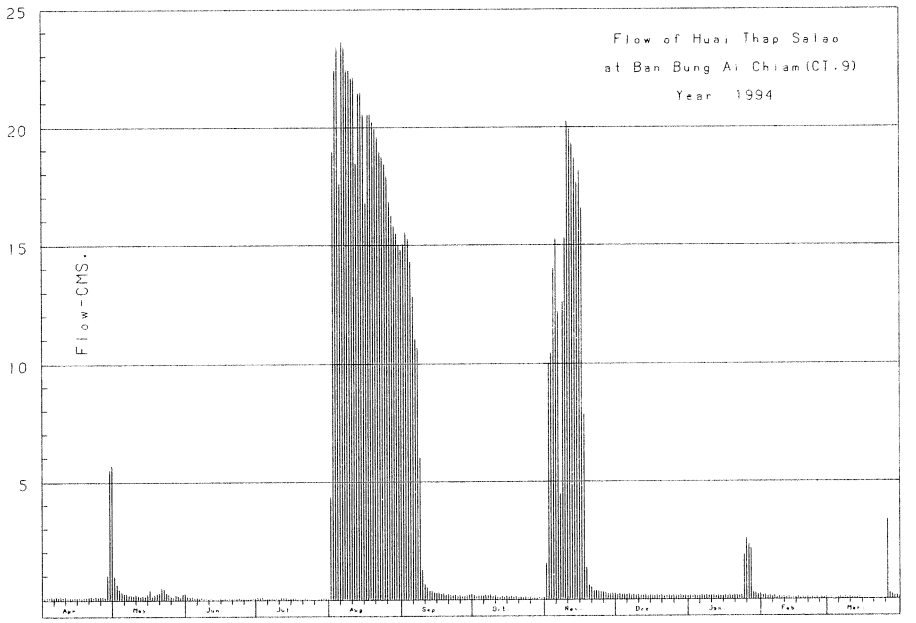
Huai Thap Salao at Ban Bung Ai Chiam, Uthai Thani (CT.9)

Location	Lat. 15°-31'-38" N., Long. 99°-28'-10" E., on left bank about 9 kilometers upstream from CT.6, Ban Bung Ai Chiam, King Amphoe Lan Sak, Uthai Thani.
Drainage Area	522 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+123.45 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 100 meters from the gage observer's house.
Elevation	+129.00 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1977 to date.
Rating Operation	
Period of Rating	1977 to date.
Rated by Float	-
Rated by Current Meter	1977 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Thap Salao reservoir, about 5 kilometers above gage site. Stage-discharge relation defined by 130 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.10	124.32	124.11	124.10	124.61	125.15	124.13	124.38	124.14	124.12	124.13	124.09	
2	124.10	124.27	124.11	124.10	125.30	125.17	124.12	124.93	124.14	124.12	124.13	124.09	
3	124.11	124.21	124.11	124.10	125.41	125.16	124.12	124.95	124.14	124.12	124.12	124.09	
4	124.11	124.18	124.10	124.08	125.44	125.12	124.13	125.11	124.14	124.12	124.12	124.09	
5	124.11	124.16	124.10	124.08	125.25	125.06	124.13	125.16	124.14	124.12	124.11	124.09	
6	124.11	124.15	124.09	124.08	125.45	124.98	124.13	125.03	124.14	124.12	124.11	124.09	
7	124.11	124.14	124.09	124.08	125.44	124.96	124.13	124.62	124.13	124.12	124.10	124.09	
8	124.11	124.13	124.09	124.08	125.41	124.72	124.13	125.05	124.13	124.12	124.10	124.09	
9	124.11	124.13	124.08	124.08	125.41	124.35	124.12	125.16	124.13	124.12	124.10	124.09	
10	124.11	124.14	124.08	124.08	125.40	124.27	124.12	125.34	124.13	124.12	124.10	124.09	
11	124.10	124.13	124.08	124.10	125.40	124.23	124.11	125.33	124.13	124.12	124.10	124.09	
12	124.10	124.12	124.08	124.10	125.28	124.20	124.11	125.31	124.13	124.12	124.10	124.09	
13	124.10	124.12	124.08	124.09	125.38	124.19	124.11	125.29	124.13	124.12	124.09	124.09	
14	124.10	124.12	124.08	124.09	125.38	124.18	124.11	125.25	124.12	124.12	124.09	124.09	
15	124.10	124.14	124.08	124.09	125.35	124.17	124.11	125.27	124.12	124.12	124.09	124.09	
16	124.10	124.20	124.08	124.09	125.22	124.16	124.11	125.21	124.12	124.12	124.09	124.08	
17	124.10	124.12	124.08	124.08	125.35	124.15	124.11	124.82	124.12	124.12	124.09	124.08	
18	124.10	124.13	124.08	124.08	125.35	124.15	124.11	124.36	124.12	124.12	124.09	124.08	
19	124.11	124.16	124.08	124.08	125.34	124.14	124.11	124.26	124.12	124.12	124.09	124.07	
20	124.11	124.16	124.08	124.08	125.33	124.14	124.10	124.23	124.12	124.12	124.09	124.07	
21	124.11	124.22	124.08	124.08	125.32	124.13	124.10	124.20	124.12	124.12	124.09	124.07	
22	124.11	124.22	124.09	124.08	125.30	124.13	124.10	124.20	124.12	124.12	124.09	124.06	
23	124.11	124.17	124.08	124.08	125.29	124.13	124.10	124.18	124.12	124.12	124.09	124.06	
24	124.11	124.14	124.08	124.08	125.28	124.12	124.10	124.18	124.12	124.42	124.09	124.06	
25	124.11	124.12	124.08	124.08	125.26	124.12	124.10	124.17	124.12	124.48	124.09	124.06	
26	124.11	124.10	124.08	124.08	125.22	124.12	124.09	124.16	124.12	124.46	124.09	124.54	
27	124.11	124.14	124.08	124.08	125.20	124.12	124.09	124.15	124.12	124.44	124.09	124.16	
28	124.33	124.12	124.08	124.08	125.18	124.12	124.09	124.15	124.12	124.17	124.09	124.13	
29	124.69	124.11	124.08	124.08	125.17	124.14	124.09	124.15	124.12	124.15		124.12	
30	124.70	124.16	124.09	124.09	125.15	124.14	124.09	124.15	124.12	124.14		124.11	
31		124.15		124.10	125.14		124.09		124.12	124.14		124.10	
Mean	124.15	124.16	124.09	124.09	125.29	124.40	124.11	124.69	124.13	124.17	124.10	124.10	
Max	124.70	124.32	124.11	124.10	125.45	125.17	124.13	125.34	124.14	124.48	124.13	124.54	125.45
Min	124.10	124.10	124.08	124.08	124.61	124.12	124.09	124.15	124.12	124.12	124.09	124.06	124.06

Annual Max Momentary Gage Height 125.45 M (MSL), at 6.00 Hours, on Aug 5, 1994
Zero Gage at Bottom Elevation 123.45 M (MSL), River Bed 123.93 M (MSL)
Left Bank Elevation 127.55 M (MSL)
Right Bank Elevation 128.53 M (MSL), Drainage Area 522 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.98	0.13	0.10	4.35	15.05	0.19	1.52	0.22	0.16	0.19	0.08	
2	0.10	0.68	0.13	0.10	19.00	15.55	0.16	10.03	0.22	0.16	0.19	0.08	
3	0.13	0.44	0.13	0.10	22.42	15.30	0.16	10.45	0.22	0.16	0.16	0.08	
4	0.13	0.34	0.10	0.06	23.38	14.30	0.19	14.05	0.22	0.16	0.16	0.08	
5	0.13	0.28	0.10	0.06	17.65	12.88	0.19	15.30	0.22	0.16	0.13	0.08	
6	0.13	0.25	0.08	0.06	23.70	11.08	0.19	12.19	0.22	0.16	0.13	0.08	
7	0.13	0.22	0.08	0.06	23.38	10.66	0.19	4.50	0.19	0.16	0.10	0.08	
8	0.13	0.19	0.08	0.06	22.42	6.06	0.19	12.65	0.19	0.16	0.10	0.08	
9	0.13	0.19	0.06	0.06	22.42	1.25	0.16	15.30	0.19	0.16	0.10	0.08	
10	0.13	0.22	0.06	0.06	22.10	0.68	0.16	20.24	0.19	0.16	0.10	0.08	
11	0.10	0.19	0.06	0.10	22.10	0.52	0.13	19.93	0.19	0.16	0.10	0.08	
12	0.10	0.16	0.06	0.10	18.46	0.40	0.13	19.31	0.19	0.16	0.10	0.08	
13	0.10	0.16	0.06	0.08	21.48	0.37	0.13	18.73	0.19	0.16	0.08	0.08	
14	0.10	0.16	0.06	0.08	21.48	0.34	0.13	17.65	0.16	0.16	0.08	0.08	
15	0.10	0.22	0.06	0.08	20.55	0.31	0.13	18.19	0.16	0.16	0.08	0.08	
16	0.10	0.40	0.06	0.08	16.84	0.28	0.13	16.57	0.16	0.16	0.08	0.06	
17	0.10	0.16	0.06	0.06	20.55	0.25	0.13	7.88	0.16	0.16	0.08	0.06	
18	0.10	0.19	0.06	0.06	20.55	0.25	0.13	1.34	0.16	0.16	0.08	0.06	
19	0.13	0.28	0.06	0.06	20.24	0.22	0.13	0.64	0.16	0.16	0.08	0.04	
20	0.13	0.28	0.06	0.06	19.93	0.22	0.10	0.52	0.16	0.16	0.08	0.04	
21	0.13	0.48	0.06	0.06	19.62	0.19	0.10	0.40	0.16	0.16	0.08	0.04	
22	0.13	0.48	0.08	0.06	19.00	0.19	0.10	0.40	0.16	0.16	0.08	0.02	
23	0.13	0.31	0.06	0.06	18.73	0.19	0.10	0.34	0.16	0.16	0.08	0.02	
24	0.13	0.22	0.06	0.06	18.46	0.16	0.10	0.34	0.16	1.92	0.08	0.02	
25	0.13	0.16	0.06	0.06	17.92	0.16	0.10	0.31	0.16	2.58	0.08	0.02	
26	0.13	0.10	0.06	0.06	16.84	0.16	0.08	0.28	0.16	2.36	0.08	3.36	
27	0.13	0.22	0.06	0.06	16.30	0.16	0.08	0.25	0.16	2.14	0.08	0.28	
28	1.07	0.16	0.06	0.06	15.80	0.16	0.08	0.25	0.16	0.31	0.08	0.19	
29	5.55	0.13	0.06	0.06	15.55	0.22	0.08	0.25	0.16	0.25		0.16	
30	5.70	0.28	0.08	0.08	15.05	0.22	0.08	0.25	0.16	0.22		0.13	
31		0.25		0.10	14.80		0.08		0.16	0.22		0.10	
Total	15.53	8.78	2.19	2.20	591.07	107.78	4.03	240.06	5.53	13.68	2.84	5.80	999.49 CMSDAY
Mean	0.52	0.28	0.07	0.07	19.07	3.59	0.13	8.00	0.18	0.44	0.10	0.19	2.74 CMS
Max	5.70	0.98	0.13	0.10	23.70	15.55	0.19	20.24	0.22	2.58	0.19	3.36	23.70 CMS
Min	0.10	0.10	0.06	0.06	4.35	0.16	0.08	0.25	0.16	0.16	0.08	0.02	0.02 CMS
Runoff	1.342	0.759	0.189	0.190	51.068	9.312	0.348	20.741	0.478	1.182	0.245	0.501	86.356 MCM

Momentary Peak 23.70 CMS, at 125.45 M (MSL), at 6.00 Hours, on Aug 5, 1994

Runoff Yield 5.25 Liters/Second/Square KM, Momentary Peak Yield 45.40 Liters/Second/Square KM

WATER YEAR 1994

PASAK RIVER BASIN

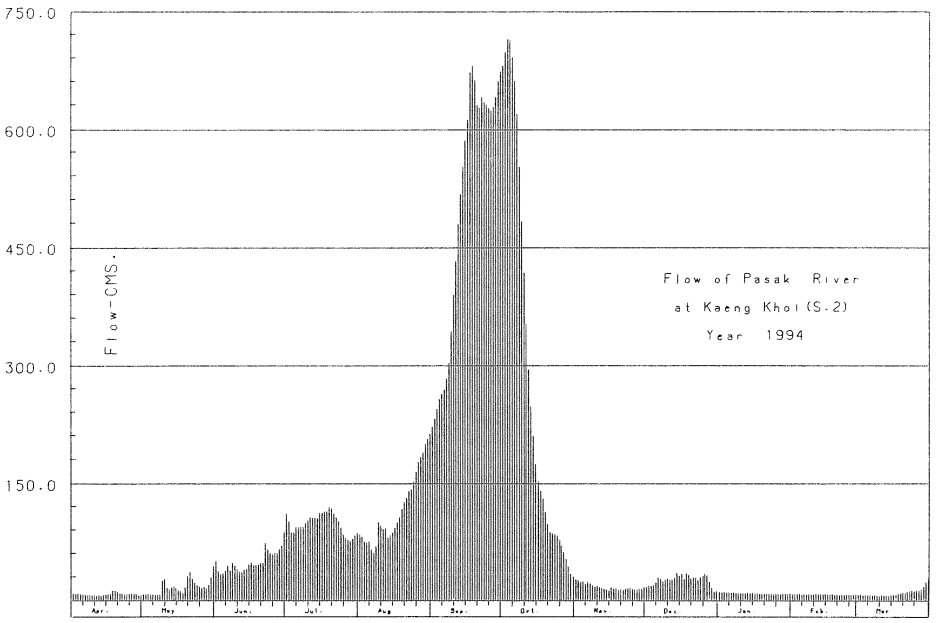
Pasak River at Kaeng Khoi, Saraburi (S.2)

Location	Lat. 14-35-32 N., Long. 101-00-23 E., on left bank about 100 meters downstream from Kaeng Khoi Water Supply, Amphoe Kaeng Khoi, Saraburi.
Drainage Area	14,522 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+6.11 m.(M.S.L.)
Bench Mark	B.M._H.D.
Location	On left bank near the automatic gage building.
Elevation	+20.130 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1914 to date.
Rating Operation	
Period of Rating	1959 - 1962, 1965 - 1966, 1993 to date.
Rated by Float	-
Rated by Current Meter	1959 - 1962, 1965 - 1966, 1993 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.85	6.79	8.07	9.02	8.65	10.25	13.21	7.52	7.20	6.96	6.85	6.81	
2	6.85	6.83	7.79	8.89	8.60	10.35	13.30	7.48	7.24	6.96	6.85	6.81	
3	6.85	6.83	7.71	8.67	8.52	10.46	13.37	7.43	7.26	6.95	6.85	6.79	
4	6.82	6.81	7.72	8.68	8.49	10.58	13.36	7.41	7.26	6.95	6.85	6.77	
5	6.80	6.80	7.82	8.77	8.52	10.63	13.27	7.34	7.39	6.94	6.84	6.77	
6	6.79	6.79	7.94	8.78	8.35	10.68	13.11	7.39	7.57	6.94	6.83	6.76	
7	6.79	6.78	7.82	8.78	8.28	10.78	12.89	7.36	7.55	6.94	6.83	6.76	
8	6.78	6.78	8.01	8.78	8.41	10.93	12.54	7.27	7.41	6.91	6.83	6.77	
9	6.76	7.46	7.95	8.85	8.87	11.21	12.13	7.22	7.52	6.91	6.84	6.77	
10	6.75	7.51	7.86	8.91	8.81	11.53	11.72	7.22	7.54	6.91	6.84	6.77	
11	6.74	7.16	7.78	8.95	8.75	11.81	11.28	7.19	7.51	6.91	6.84	6.77	
12	6.74	7.07	7.79	8.95	8.75	12.11	10.87	7.14	7.49	6.90	6.85	6.76	
13	6.73	7.18	7.83	8.94	8.59	12.34	10.49	7.12	7.60	6.91	6.84	6.75	
14	6.76	7.20	7.88	8.95	8.63	12.54	10.14	7.08	7.74	6.91	6.84	6.76	
15	6.81	7.15	7.97	9.03	8.68	12.71	9.77	7.06	7.64	6.92	6.83	6.76	
16	6.80	7.07	8.02	9.04	8.76	12.85	9.53	7.16	7.72	6.92	6.83	6.77	
17	6.85	7.01	7.96	9.05	8.87	13.17	9.39	7.14	7.54	6.89	6.83	6.81	
18	7.01	6.94	7.95	9.06	8.95	13.21	9.26	7.13	7.72	6.87	6.82	6.88	
19	7.03	7.17	7.98	9.12	9.10	13.12	9.05	7.08	7.68	6.87	6.80	6.92	
20	6.94	7.65	8.00	9.11	9.20	12.95	8.83	7.09	7.53	6.87	6.80	6.93	
21	6.88	7.79	8.02	9.02	9.27	12.93	8.69	7.08	7.60	6.86	6.80	6.94	
22	6.83	7.57	8.48	8.96	9.38	13.00	8.66	7.10	7.58	6.86	6.80	6.97	
23	6.81	7.37	8.36	8.88	9.41	12.97	8.65	7.15	7.49	6.86	6.80	7.02	
24	6.81	7.30	8.26	8.77	9.52	12.95	8.62	7.15	7.59	6.86	6.80	7.03	
25	6.83	7.23	8.24	8.65	9.67	12.93	8.55	7.11	7.66	6.86	6.80	7.02	
26	6.84	7.15	8.26	8.58	9.80	12.91	8.44	7.09	7.74	6.86	6.80	7.05	
27	6.83	7.21	8.28	8.55	9.87	12.94	8.28	7.10	7.66	6.86	6.81	7.06	
28	6.81	7.15	8.35	8.52	9.92	13.00	8.12	7.11	7.43	6.86	6.81	7.09	
29	6.75	7.31	8.43	8.57	10.04	13.11	7.91	7.11	7.16	6.85		7.22	
30	6.74	7.60	8.69	8.62	10.09	13.17	7.73	7.18	7.01	6.85		7.39	
31		7.93		8.67	10.16		7.61		7.02	6.85		7.52	
Mean	6.82	7.18	8.04	8.84	9.06	12.14	10.28	7.20	7.49	6.90	6.83	6.91	
Max	7.03	7.93	8.69	9.12	10.16	13.21	13.37	7.52	7.74	6.96	6.85	7.52	13.37
Min	6.73	6.78	7.71	8.52	8.28	10.25	7.61	7.06	7.01	6.85	6.80	6.75	6.73

Annual Max Momentary Gage Height 13.37 M (MSL), at 23.00 Hours, on Oct 2, 1994
Zero Gage at Bottom Elevation 6.11 M (MSL), River Bed 4.77 M (MSL)
Left Bank Elevation 21.36 M (MSL)
Right Bank Elevation 21.37 M (MSL), Drainage Area 14522 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.0	7.8	51.5	111.6	85.5	222.0	680.9	27.6	18.0	11.2	9.0	8.2	
2	9.0	8.6	37.6	102.3	82.0	232.5	698.0	26.4	19.2	11.2	9.0	8.2	
3	9.0	8.6	34.4	86.9	76.4	244.6	715.5	24.9	19.8	11.0	9.0	7.8	
4	8.4	8.2	34.8	87.6	74.4	257.8	713.0	24.3	19.8	11.0	9.0	7.4	
5	8.0	8.0	39.0	93.9	76.4	263.9	692.3	22.2	23.7	10.8	8.8	7.4	
6	7.8	7.8	45.0	94.6	66.0	270.4	661.9	23.7	29.1	10.8	8.6	7.2	
7	7.8	7.6	39.0	94.6	62.0	283.4	620.1	22.8	28.5	10.8	8.6	7.2	
8	7.6	7.6	48.5	94.6	69.6	304.2	553.6	20.1	24.3	10.2	8.6	7.4	
9	7.2	25.8	45.5	99.5	100.9	343.4	483.8	18.6	27.6	10.2	8.8	7.4	
10	7.0	27.3	41.0	103.7	96.7	390.5	419.0	18.6	28.2	10.2	8.8	7.4	
11	6.8	16.8	37.2	106.5	92.5	432.6	353.2	17.7	27.3	10.2	8.8	7.4	
12	6.8	14.1	37.6	106.5	92.5	480.6	295.8	16.2	26.7	10.0	9.0	7.2	
13	6.6	17.4	39.5	105.8	81.3	517.8	247.9	15.6	30.0	10.2	8.8	7.0	
14	7.2	18.0	42.0	106.5	84.1	553.6	211.0	14.4	35.6	10.2	8.8	7.2	
15	8.2	16.5	46.5	112.4	87.6	585.9	174.3	13.8	31.6	10.4	8.6	7.2	
16	8.0	14.1	49.0	113.2	93.2	612.5	152.7	16.8	34.8	10.4	8.6	7.4	
17	9.0	12.3	46.0	114.0	100.9	673.3	141.2	16.2	28.2	9.8	8.6	8.2	
18	12.3	10.8	45.5	114.8	106.5	680.9	130.8	15.9	34.8	9.4	8.4	9.6	
19	12.9	17.1	47.0	119.6	118.0	663.8	114.0	14.4	33.2	9.4	8.0	10.4	
20	10.8	32.0	48.0	118.8	126.0	631.5	98.1	14.7	27.9	9.4	8.0	10.6	
21	9.6	37.6	49.0	111.6	131.6	627.7	88.3	14.4	30.0	9.2	8.0	10.8	
22	8.6	29.1	73.8	107.2	140.4	641.0	86.2	15.0	29.4	9.2	8.0	11.4	
23	8.2	23.1	66.6	101.6	142.8	635.3	85.5	16.5	26.7	9.2	8.0	12.6	
24	8.2	21.0	61.0	93.9	151.8	631.5	83.4	16.5	29.7	9.2	8.0	12.9	
25	8.6	18.9	60.0	85.5	165.3	627.7	78.5	15.3	32.4	9.2	8.0	12.6	
26	8.8	16.5	61.0	80.6	177.0	623.9	71.4	14.7	35.6	9.2	8.0	13.5	
27	8.6	18.3	62.0	78.5	184.0	629.6	62.0	15.0	32.4	9.2	8.2	13.8	
28	8.2	16.5	66.0	76.4	189.0	641.0	54.0	15.3	24.9	9.2	8.2	14.7	
29	7.0	21.3	70.8	79.9	201.0	661.9	43.5	15.3	16.8	9.0		18.6	
30	6.8	30.0	88.3	83.4	206.0	673.3	35.2	17.4	12.3	9.0		23.7	
31		44.5		86.9	213.0		30.4		12.6	9.0		27.6	
Total	252.0	563.2	1513.1	3072.9	3674.4	15038.1	8875.5	540.3	831.1	307.4	238.2	330.0	35236.2 CMSDAY
Mean	8.4	18.2	50.4	99.1	118.5	501.3	286.3	18.0	26.8	9.9	8.5	10.6	96.5 CMS
Max	12.9	44.5	88.3	119.6	213.0	680.9	715.5	27.6	35.6	11.2	9.0	27.6	715.5 CMS
Min	6.6	7.6	34.4	76.4	62.0	222.0	30.4	13.8	12.3	9.0	8.0	7.0	6.6 CMS
Runoff	21.77	48.66	130.73	265.50	317.47	1299.29	766.84	46.68	71.81	26.56	20.58	28.51	3044.41 MCM

Momentary Peak 715.50 CMS, at 13.37 M (MSL), at 23.00 Hours, on Oct 2, 1994

Runoff Yield 6.65 Liters/Second/Square KM, Momentary Peak Yield 49.27 Liters/Second/Square KM

WATER YEAR 1994

PASAK RIVER BASIN

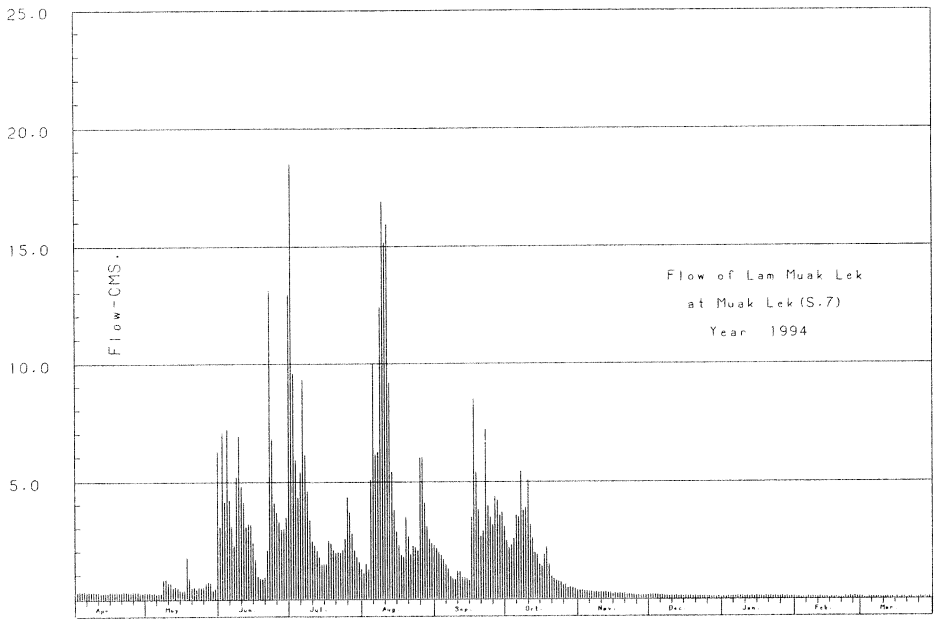
Lam Muak Lek at Muak Lek, Saraburi (S.7)

Location	Lat. 14°-38'-04" N., Long. 101°-12'-37" E., on left bank about 50 meters upstream from the bridge of Saraburi - Nakhon Ratchasima Highway, Tambon Muak Lek, Amphoe Muak Lek, Saraburi.
Drainage Area	177 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Near automatic gage building.
Elevation	+6.919 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965 to date.
Rated by Float	-
Rated by Current Meter	1965 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.57	0.55	0.91	2.02	0.71	0.82	0.85	0.60	0.51	0.42	0.42	0.42	
2	0.57	0.55	1.25	1.43	0.75	0.80	0.82	0.59	0.51	0.42	0.41	0.42	
3	0.57	0.54	1.01	1.16	0.73	0.79	0.83	0.59	0.51	0.44	0.40	0.41	
4	0.57	0.54	1.26	1.03	1.09	0.77	0.86	0.58	0.50	0.45	0.40	0.41	
5	0.56	0.52	1.02	1.12	1.46	0.75	0.96	0.58	0.50	0.45	0.41	0.41	
6	0.56	0.52	0.91	1.41	1.18	0.73	0.95	0.57	0.49	0.45	0.42	0.40	
7	0.56	0.54	0.83	1.18	1.19	0.70	1.12	0.56	0.48	0.45	0.42	0.40	
8	0.56	0.67	1.10	1.05	1.63	0.68	0.98	0.56	0.46	0.46	0.42	0.40	
9	0.56	0.68	1.24	0.94	1.92	0.68	0.99	0.56	0.46	0.45	0.42	0.40	
10	0.55	0.65	1.07	0.85	1.81	0.72	1.09	0.56	0.46	0.44	0.41	0.40	
11	0.54	0.65	1.01	0.83	1.86	0.72	0.92	0.56	0.46	0.44	0.42	0.40	
12	0.54	0.62	0.91	0.81	1.40	0.69	0.86	0.56	0.46	0.44	0.40	0.40	
13	0.54	0.62	0.92	0.78	1.12	0.69	0.80	0.55	0.46	0.44	0.40	0.40	
14	0.54	0.62	0.92	0.75	0.98	0.68	0.79	0.55	0.46	0.44	0.39	0.39	
15	0.56	0.59	0.84	0.75	0.89	0.67	0.75	0.53	0.45	0.46	0.39	0.39	
16	0.56	0.59	0.77	0.75	0.83	0.95	0.74	0.53	0.46	0.45	0.40	0.40	
17	0.56	0.59	0.70	0.85	0.79	1.35	0.79	0.53	0.46	0.44	0.40	0.40	
18	0.56	0.78	0.68	0.84	0.78	1.12	0.82	0.53	0.45	0.44	0.39	0.40	
19	0.56	0.68	0.68	0.81	0.95	0.98	0.75	0.53	0.45	0.44	0.38	0.40	
20	0.56	0.62	0.69	0.80	0.87	0.87	0.70	0.53	0.45	0.45	0.39	0.39	
21	0.56	0.62	0.81	0.80	0.79	0.89	0.68	0.51	0.45	0.45	0.39	0.40	
22	0.56	0.61	1.68	0.80	0.83	1.26	0.67	0.51	0.44	0.44	0.42	0.40	
23	0.56	0.62	1.23	0.81	0.82	1.00	0.66	0.51	0.44	0.44	0.42	0.39	
24	0.56	0.62	1.01	0.86	0.81	0.95	0.66	0.50	0.44	0.44	0.43	0.39	
25	0.56	0.62	0.97	1.03	1.17	0.92	0.64	0.49	0.44	0.44	0.43	0.39	
26	0.56	0.65	0.93	0.97	1.17	1.03	0.64	0.48	0.43	0.44	0.43	0.39	
27	0.56	0.66	0.90	0.88	1.01	1.02	0.62	0.48	0.43	0.44	0.43	0.39	
28	0.54	0.65	0.90	0.81	0.91	0.96	0.62	0.48	0.43	0.44	0.42	0.40	
29	0.54	0.60	0.95	0.78	0.86	0.97	0.62	0.49	0.42	0.42		0.40	
30	0.54	0.61	1.67	0.76	0.84	0.91	0.61	0.49	0.42	0.42		0.40	
31		1.19		0.73	0.83		0.60		0.42	0.42		0.39	
Mean	0.56	0.63	0.99	0.95	1.06	0.87	0.79	0.54	0.46	0.44	0.41	0.40	
Max	0.57	1.19	1.68	2.02	1.92	1.35	1.12	0.60	0.51	0.46	0.43	0.42	2.02
Min	0.54	0.52	0.68	0.73	0.71	0.67	0.60	0.48	0.42	0.42	0.38	0.39	0.38

Annual Max Momentary Gage Height 3.24 M (A.D), at 21.00 Hours, on Aug 8, 1994
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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.34	0.30	3.10	18.52	1.10	2.20	2.50	0.40	0.22	0.12	0.12	0.12	
2	0.34	0.30	7.10	9.62	1.50	2.00	2.20	0.38	0.22	0.12	0.11	0.12	
3	0.34	0.28	4.12	5.92	1.30	1.90	2.30	0.38	0.22	0.14	0.10	0.11	
4	0.34	0.28	7.24	4.36	5.08	1.70	2.60	0.36	0.20	0.15	0.10	0.11	
5	0.32	0.24	4.24	5.44	10.04	1.50	3.60	0.36	0.20	0.15	0.11	0.11	
6	0.32	0.24	3.10	9.34	6.16	1.30	3.50	0.34	0.19	0.15	0.12	0.10	
7	0.32	0.28	2.30	6.16	6.28	1.00	5.44	0.32	0.18	0.15	0.12	0.10	
8	0.32	0.82	5.20	4.60	12.42	0.88	3.80	0.32	0.16	0.16	0.12	0.10	
9	0.32	0.88	6.96	3.40	16.92	0.88	3.90	0.32	0.16	0.15	0.12	0.10	
10	0.30	0.70	4.84	2.50	15.16	1.20	5.08	0.32	0.16	0.14	0.11	0.10	
11	0.28	0.70	4.12	2.30	15.96	1.20	3.20	0.32	0.16	0.14	0.12	0.10	
12	0.28	0.52	3.10	2.10	9.20	0.94	2.60	0.32	0.16	0.14	0.10	0.10	
13	0.28	0.52	3.20	1.80	5.44	0.94	2.00	0.30	0.16	0.14	0.10	0.10	
14	0.28	0.52	3.20	1.50	3.80	0.88	1.90	0.30	0.16	0.14	0.09	0.09	
15	0.32	0.38	2.40	1.50	2.90	0.82	1.50	0.26	0.15	0.16	0.09	0.09	
16	0.32	0.38	1.70	1.50	2.30	3.50	1.40	0.26	0.16	0.15	0.10	0.10	
17	0.32	0.38	1.00	2.50	1.90	8.50	1.90	0.26	0.16	0.14	0.10	0.10	
18	0.32	1.80	0.88	2.40	1.80	5.44	2.20	0.26	0.15	0.14	0.09	0.10	
19	0.32	0.88	0.88	2.10	3.50	3.80	1.50	0.26	0.15	0.14	0.09	0.10	
20	0.32	0.52	0.94	2.00	2.70	2,70	1.00	0.26	0.15	0.15	0.09	0.09	
21	0.32	0.52	2.10	2.00	1.90	2.90	0.88	0.22	0.15	0.15	0.09	0.10	
22	0.32	0.46	13.12	2.00	2.30	7.24	0.82	0.22	0.14	0.14	0.12	0.10	
23	0.32	0.52	6.82	2.10	2.20	4.00	0.76	0.22	0.14	0.14	0.12	0.09	
24	0.32	0.52	4.12	2.60	2.10	3.50	0.76	0.20	0.14	0.14	0.13	0.09	
25	0.32	0.52	3.70	4.36	6.04	3.20	0.64	0.19	0.14	0.14	0.13	0.09	
26	0.32	0.70	3.30	3.70	6.04	4.36	0.64	0.18	0.13	0.14	0.13	0.09	
27	0.32	0.76	3.00	2.80	4.12	4.24	0.52	0.18	0.13	0.14	0.13	0.09	
28	0.28	0.70	3.00	2.10	3.10	3.60	0.52	0.18	0.13	0.14	0.12	0.10	
29	0.28	0.40	3.50	1.80	2.60	3.70	0.52	0.19	0.12	0.12		0.10	
30	0.28	0.46	12.98	1.60	2.40	3.10	0.46	0.19	0.12	0.12		0.10	
31		6.28		1.30	2.30		0.40		0.12	0.12		0.09	
Total	9.38	22.76	125.26	115.92	160.56	83.12	61.04	8.27	4.93	4.36	3.07	3.08	601.75 CMSDAY
Mean	0.31	0.73	4.18	3.74	5.18	2.77	1.97	0.28	0.16	0.14	0.11	0.10	1.65 CMS
Max	0.34	6.28	13.12	18.52	16.92	8.50	5.44	0.40	0.22	0.16	0.13	0.12	18.52 CMS
Min	0.28	0.24	0.88	1.30	1.10	0.82	0.40	0.18	0.12	0.12	0.09	0.09	0.09 CMS
Runoff	0.810	1.966	10.822	10.015	13.872	7.182	5.274	0.715	0.426	0.377	0.265	0.266	51.991 MCM

Momentary Peak 41.48 CMS, at 3.24 M (A.D), at 21.00 Hours, on Aug 8, 1994
Runoff Yield 9.31 Liters/Second/Square KM, Momentary Peak Yield 234.35 Liters/Second/Square KM

WATER YEAR 1994

PASAK RIVER BASIN

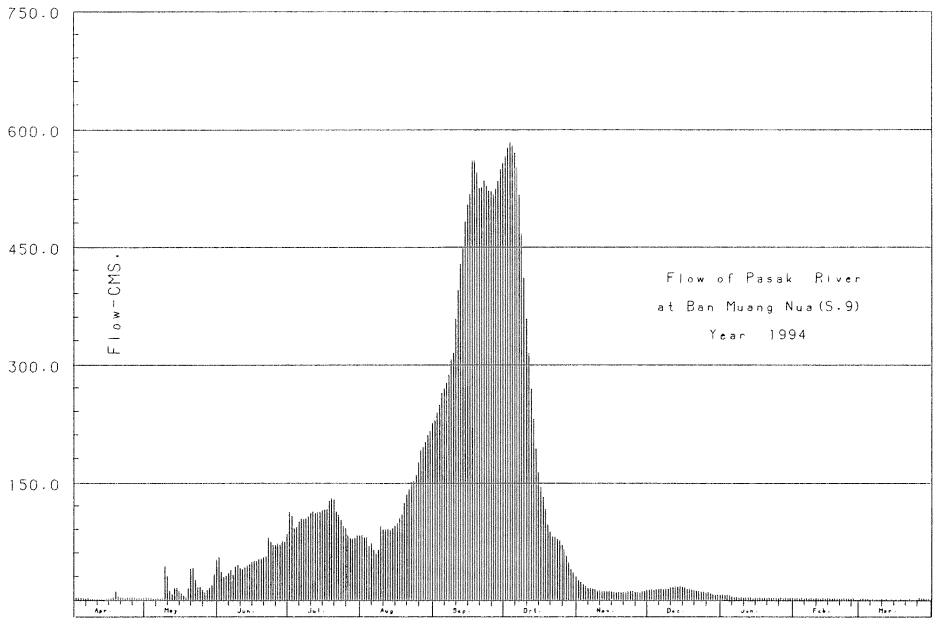
Pasak River at Ban Muang Nua, Saraburi (S.9)

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 good. Stage-discharge relation defined by 29 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.35	8.37	9.53	10.44	9.99	11.77	14.43	8.99	8.69	8.50	8.32	8.27	
2	8.36	8.33	9.19	10.38	9.95	11.86	14.50	8.93	8.69	8.50	8.31	8.25	
3	8.33	8.28	9.07	10.15	9.95	11.97	14.55	8.88	8.68	8.49	8.30	8.24	
4	8.29	8.26	9.09	10.16	9.76	12.10	14.52	8.81	8.69	8.49	8.30	8.24	
5	8.26	8.24	9.17	10.28	9.83	12.16	14.46	8.75	8.71	8.42	8.30	8.22	
6	8.25	8.23	9.24	10.32	9.69	12.22	14.33	8.74	8.71	8.41	8.30	8.21	
7	8.23	8.22	9.13	10.32	9.60	12.32	14.09	8.73	8.71	8.40	8.29	8.21	
8	8.21	8.34	9.32	10.32	9.69	12.48	13.73	8.69	8.71	8.39	8.29	8.21	
9	8.21	9.33	9.37	10.37	10.19	12.56	13.32	8.65	8.73	8.39	8.29	8.22	
10	8.20	9.07	9.30	10.43	10.12	12.91	12.92	8.65	8.76	8.38	8.29	8.21	
11	8.20	8.63	9.26	10.45	10.11	13.20	12.55	8.63	8.78	8.38	8.29	8.21	
12	8.19	8.52	9.31	10.43	10.13	13.45	12.16	8.62	8.80	8.38	8.29	8.20	
13	8.17	8.75	9.35	10.44	10.10	13.62	11.78	8.63	8.80	8.38	8.29	8.20	
14	8.22	8.74	9.38	10.45	10.15	13.84	11.41	8.62	8.80	8.32	8.29	8.20	
15	8.27	8.66	9.42	10.47	10.19	14.00	11.07	8.62	8.80	8.34	8.29	8.19	
16	8.27	8.55	9.44	10.48	10.25	14.09	10.86	8.59	8.77	8.34	8.29	8.19	
17	8.35	8.48	9.45	10.49	10.33	14.40	10.71	8.59	8.72	8.35	8.29	8.20	
18	8.63	8.40	9.48	10.65	10.41	14.39	10.49	8.59	8.72	8.33	8.28	8.21	
19	8.43	8.73	9.50	10.68	10.60	14.29	10.22	8.59	8.70	8.34	8.28	8.21	
20	8.33	9.27	9.52	10.67	10.75	14.15	10.06	8.59	8.67	8.34	8.28	8.21	
21	8.32	9.30	9.55	10.46	10.82	14.15	9.97	8.59	8.65	8.34	8.28	8.22	
22	8.29	9.00	9.94	10.39	10.94	14.22	9.95	8.61	8.63	8.34	8.28	8.22	
23	8.31	8.76	9.86	10.31	10.95	14.17	9.91	8.65	8.62	8.34	8.28	8.21	
24	8.34	8.80	9.78	10.18	11.04	14.12	9.87	8.63	8.61	8.34	8.28	8.21	
25	8.33	8.69	9.79	10.15	11.22	14.12	9.79	8.61	8.59	8.34	8.28	8.21	
26	8.33	8.58	9.81	10.00	11.38	14.09	9.69	8.59	8.59	8.34	8.28	8.34	
27	8.28	8.69	9.80	9.93	11.43	14.14	9.56	8.59	8.56	8.34	8.28	8.31	
28	8.27	8.75	9.86	9.91	11.49	14.21	9.41	8.61	8.50	8.34	8.28	8.26	
29	8.27	8.86	9.86	9.94	11.58	14.32	9.27	8.64	8.50	8.32		8.26	
30	8.27	9.13	10.02	9.98	11.63	14.37	9.17	8.68	8.49	8.32		8.24	
31		9.47		9.99	11.73		9.07		8.50	8.32		8.24	
Mean	8.29	8.69	9.49	10.31	10.52	13.46	11.54	8.67	8.67	8.37	8.29	8.23	
Max	8.63	9.47	10.02	10.68	11.73	14.40	14.55	8.99	8.80	8.50	8.32	8.34	14.55
Min	8.17	8.22	9.07	9.91	9.60	11.77	9.07	8.59	8.49	8.32	8.28	8.19	8.17

Annual Max Momentary Gage Height 14.55 M (MSL), at 12.00 Hours, on Oct 3, 1994
Zero Gage at Bottom Elevation 7.49 M (MSL), River Bed 5.83 M (MSL)
Left Bank Elevation 22.10 M (MSL)
Right Bank Elevation 22.11 M (MSL), Drainage Area 14374 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.8	4.0	55.8	112.8	83.4	230.0	566.5	26.5	14.1	7.6	3.4	2.8	
2	3.9	3.6	36.5	108.6	81.0	239.0	577.0	23.5	14.1	7.6	3.3	2.6	
3	3.6	3.0	30.5	93.0	81.0	250.0	584.5	21.2	13.7	7.3	3.2	2.5	
4	3.1	2.7	31.5	93.6	69.6	264.0	580.0	18.4	14.1	7.3	3.2	2.5	
5	2.7	2.5	35.5	101.6	73.8	270.6	571.0	16.2	14.8	5.0	3.2	2.2	
6	2.6	2.4	39.0	104.4	65.4	277.2	551.5	15.8	14.8	4.7	3.2	2.1	
7	2.4	2.2	33.5	104.4	60.0	288.2	517.6	15.5	14.8	4.4	3.1	2.1	
8	2.1	3.7	43.2	104.4	65.4	306.6	467.2	14.1	14.8	4.3	3.1	2.1	
9	2.1	43.8	46.2	107.9	95.4	316.2	411.6	12.7	15.5	4.3	3.1	2.2	
10	2.0	30.5	42.0	112.1	91.2	358.3	359.6	12.7	16.6	4.2	3.1	2.1	
11	2.0	12.0	40.0	113.5	90.6	396.0	315.0	12.0	17.3	4.2	3.1	2.1	
12	1.9	8.3	42.6	112.1	91.8	428.5	270.6	11.7	18.0	4.2	3.1	2.0	
13	1.7	16.2	45.0	112.8	90.0	451.8	231.0	12.0	18.0	4.2	3.1	2.0	
14	2.2	15.8	46.8	113.5	93.0	482.6	194.0	11.7	18.0	3.4	3.1	2.0	
15	2.8	13.0	49.2	114.9	95.4	505.0	163.3	11.7	18.0	3.7	3.1	1.9	
16	2.8	9.3	50.4	115.6	99.5	517.6	144.8	10.7	16.9	3.7	3.1	1.9	
17	3.8	7.0	51.0	116.3	105.1	562.0	132.8	10.7	15.1	3.8	3.1	2.0	
18	12.0	4.4	52.8	128.0	110.7	560.5	116.3	10.7	15.1	3.6	3.0	2.1	
19	5.4	15.5	54.0	130.4	124.0	545.6	97.4	10.7	14.4	3.7	3.0	2.1	
20	3.6	40.5	55.2	129.6	136.0	526.0	87.6	10.7	13.4	3.7	3.0	2.1	
21	3.4	42.0	57.0	114.2	141.6	526.0	82.2	10.7	12.7	3.7	3.0	2.2	
22	3.1	27.0	80.4	109.3	151.6	535.8	81.0	11.3	12.0	3.7	3.0	2.2	
23	3.3	16.6	75.6	103.7	152.5	528.8	78.6	12.7	11.7	3.7	3.0	2.1	
24	3.7	18.0	70.8	94.8	160.6	521.8	76.2	12.0	11.3	3.7	3.0	2.1	
25	3.6	14.1	71.4	93.0	176.8	521.8	71.4	11.3	10.7	3.7	3.0	2.1	
26	3.6	10.3	72.6	84.0	191.2	517.6	65.4	10.7	10.7	3.7	3.0	3.7	
27	3.0	14.1	72.0	79.8	196.0	524.6	57.6	10.7	9.6	3.7	3.0	3.3	
28	2.8	16.2	75.6	78.6	202.0	534.4	48.6	11.3	7.6	3.7	3.0	2.7	
29	2.8	20.4	75.6	80.4	211.0	550.0	40.5	12.4	7.6	3.4		2.7	
30	2.8	33.5	85.2	82.8	216.0	557.5	35.5	13.7	7.3	3.4		2.5	
31		52.2		83.4	226.0		30.5		7.6	3.4		2.5	
Total	98.6	504.8	1616.9	3233.5	3827.6	13094.0	7606.8	406.0	420.3	134.7	86.6	71.5	31101.3 CMSDAY
Mean	3.3	16.3	53.9	104.3	123.5	436.5	245.4	13.5	13.6	4.3	3.1	2.3	85.2 CMS
Max	12.0	52.2	85.2	130.4	226.0	562.0	584.5	26.5	18.0	7.6	3.4	3.7	584.5 CMS
Min	1.7	2.2	30.5	78.6	60.0	230.0	30.5	10.7	7.3	3.4	3.0	1.9	1.7 CMS
Runoff	8.52	43.61	139.70	279.37	330.70	1131.32	657.23	35.08	36.31	11.64	7.48	6.18	2687.15 MCM

Momentary Peak 584.50 CMS, at 14.55 M (MSL), at 12.00 Hours, on Oct 3, 1994

Runoff Yield 5.93 Liters/Second/Square KM, Momentary Peak Yield 40.66 Liters/Second/Square KM

WATER YEAR 1994

PASAK RIVER BASIN

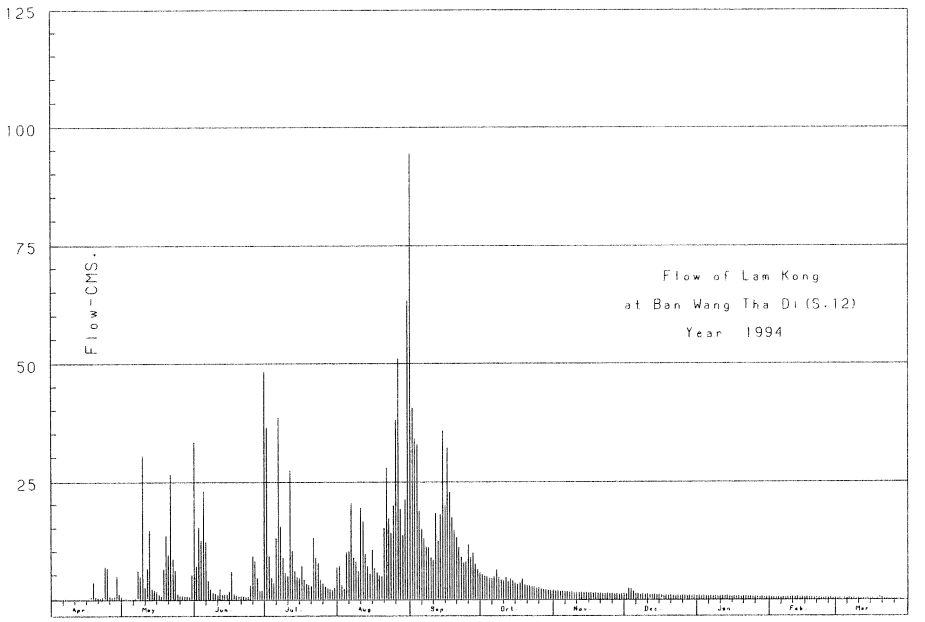
Lam Kong at Ban Wang Tha Di, Phetchabun (S.12)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 112 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.42	1.20	2.49	1.21	2.62	1.08	0.77	0.69	0.60	0.51	0.45	
2	0.40	0.41	1.66	1.34	0.89	2.41	1.06	0.76	0.82	0.60	0.50	0.45	
3	0.38	0.40	1.52	1.03	0.82	2.37	1.04	0.76	0.81	0.60	0.50	0.45	
4	0.37	0.40	2.01	0.93	1.38	1.82	1.02	0.75	0.77	0.60	0.50	0.45	
5	0.39	0.40	1.51	1.55	1.40	1.65	1.02	0.75	0.70	0.59	0.50	0.46	
6	0.39	0.40	0.98	2.56	1.90	1.54	1.04	0.74	0.68	0.58	0.50	0.46	
7	0.39	1.14	0.81	1.67	1.32	1.45	1.16	0.74	0.67	0.58	0.50	0.47	
8	0.40	1.04	0.73	1.32	1.26	1.44	1.03	0.73	0.68	0.58	0.51	0.45	
9	0.40	2.29	0.70	1.11	1.14	1.32	0.99	0.72	0.68	0.58	0.51	0.45	
10	0.40	0.85	0.65	1.06	1.85	1.28	0.97	0.72	0.67	0.58	0.52	0.45	
11	0.40	1.17	0.81	2.18	1.73	1.80	1.04	0.72	0.66	0.58	0.52	0.44	
12	0.40	1.63	0.67	1.40	1.36	1.52	0.96	0.72	0.66	0.59	0.52	0.44	
13	0.40	0.82	0.65	1.14	1.20	1.79	1.00	0.72	0.65	0.59	0.51	0.44	
14	0.40	0.78	0.68	1.03	1.10	2.47	0.98	0.72	0.65	0.58	0.51	0.44	
15	0.40	0.74	0.75	1.01	1.42	1.88	0.93	0.72	0.65	0.58	0.51	0.44	
16	0.29	0.66	1.13	1.21	1.17	2.34	0.91	0.71	0.64	0.57	0.51	0.43	
17	0.53	0.56	0.69	0.99	1.12	2.00	0.94	0.71	0.62	0.57	0.51	0.42	
18	0.95	1.17	0.62	0.92	1.06	1.76	1.00	0.71	0.62	0.57	0.50	0.42	
19	0.49	1.58	0.59	0.89	1.06	1.63	0.91	0.71	0.62	0.56	0.49	0.56	
20	0.46	1.35	0.57	0.88	1.66	1.56	0.88	0.70	0.61	0.56	0.49	0.48	
21	0.45	2.14	0.56	1.55	2.20	1.44	0.87	0.70	0.61	0.56	0.49	0.44	
22	0.49	1.30	0.54	1.31	1.75	1.33	0.87	0.70	0.60	0.56	0.48	0.43	
23	1.20	1.14	0.54	1.25	1.60	1.25	0.86	0.70	0.60	0.55	0.47	0.41	
24	1.17	0.69	0.89	0.99	1.88	1.26	0.84	0.70	0.60	0.55	0.47	0.39	
25	0.57	0.58	1.34	0.92	2.54	1.48	0.84	0.69	0.60	0.55	0.47	0.39	
26	0.47	0.58	1.27	0.87	2.93	1.32	0.82	0.69	0.60	0.54	0.47	0.38	
27	0.55	0.57	1.03	0.83	1.84	1.38	0.81	0.69	0.60	0.54	0.46	0.40	
28	1.06	0.56	0.78	0.80	1.58	1.23	0.80	0.68	0.60	0.53	0.46	0.39	
29	0.66	0.56	0.77	0.79	1.93	1.16	0.79	0.67	0.60	0.53		0.39	
30	0.50	1.08	2.85	0.83	3.24	1.11	0.78	0.69	0.60	0.52		0.39	
31		2.39		1.18	3.74		0.78		0.60	0.52		0.40	
Mean	0.53	0.96	0.98	1.23	1.65	1.65	0.94	0.72	0.65	0.57	0.50	0.43	
Max	1.20	2.39	2.85	2.56	3.74	2.62	1.16	0.77	0.82	0.60	0.52	0.56	3.74
Min	0.29	0.40	0.54	0.79	0.82	1.11	0.78	0.67	0.60	0.52	0.46	0.38	0.29

Annual Max Momentary Gage Height 4.25 M (A.D), at 12.00 Hours, on Aug 31, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.12 M (A.D)
Left Bank Elevation 6.30 M (A.D)
Right Bank Elevation 5.13 M (A.D), Drainage Area 471 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.26	7.00	36.51	7.16	40.76	5.26	1.86	1.25	0.80	0.53	0.35	
2	0.20	0.23	15.30	9.28	3.00	34.19	5.02	1.78	2.30	0.80	0.50	0.35	
3	0.16	0.20	12.50	4.66	2.30	33.03	4.78	1.78	2.20	0.80	0.50	0.35	
4	0.14	0.20	23.16	3.46	9.96	18.74	4.54	1.70	1.86	0.80	0.50	0.35	
5	0.18	0.20	12.30	13.10	10.30	15.10	4.54	1.70	1.30	0.77	0.50	0.38	
6	0.18	0.20	4.06	38.78	20.50	12.90	4.78	1.62	1.20	0.74	0.50	0.38	
7	0.18	6.10	2.20	15.50	8.94	11.20	6.40	1.62	1.15	0.74	0.50	0.41	
8	0.20	4.78	1.54	8.94	7.96	11.02	4.66	1.54	1.20	0.74	0.53	0.35	
9	0.20	30.71	1.30	5.65	6.10	8.94	4.18	1.46	1.20	0.74	0.53	0.35	
10	0.20	2.60	1.05	5.02	19.40	8.28	3.94	1.46	1.15	0.74	0.56	0.35	
11	0.20	6.55	2.20	27.58	16.76	18.30	4.78	1.46	1.10	0.74	0.56	0.32	
12	0.20	14.70	1.15	10.30	9.62	12.50	3.82	1.46	1.10	0.77	0.56	0.32	
13	0.20	2.30	1.05	6.10	7.00	18.08	4.30	1.46	1.05	0.77	0.53	0.32	
14	0.20	1.94	1.20	4.66	5.50	35.93	4.06	1.46	1.05	0.74	0.53	0.32	
15	0.20	1.62	1.70	4.42	10.66	20.06	3.46	1.46	1.05	0.74	0.53	0.32	
16	0.00	1.10	5.95	7.16	6.55	32.16	3.22	1.38	1.00	0.71	0.53	0.29	
17	0.59	0.68	1.25	4.18	5.80	22.90	3.58	1.38	0.90	0.71	0.53	0.26	
18	3.70	6.55	0.90	3.34	5.02	17.42	4.30	1.38	0.90	0.71	0.50	0.26	
19	0.47	13.70	0.77	3.00	5.02	14.70	3.22	1.38	0.90	0.68	0.47	0.68	
20	0.38	9.45	0.71	2.90	15.30	13.30	2.90	1.30	0.85	0.68	0.47	0.44	
21	0.35	26.54	0.68	13.10	28.10	11.02	2.80	1.30	0.85	0.68	0.47	0.32	
22	0.47	8.60	0.62	8.77	17.20	9.11	2.80	1.30	0.80	0.68	0.44	0.29	
23	7.00	6.10	0.62	7.80	14.10	7.80	2.70	1.30	0.80	0.65	0.41	0.23	
24	6.55	1.25	3.00	4.18	20.06	7.96	2.50	1.30	0.80	0.65	0.41	0.18	
25	0.71	0.74	9.28	3.34	38.12	11.74	2.50	1.25	0.80	0.65	0.41	0.18	
26	0.41	0.74	8.12	2.80	51.28	8.94	2.30	1.25	0.80	0.62	0.41	0.16	
27	0.65	0.71	4.66	2.40	19.18	9.96	2.20	1.25	0.80	0.62	0.38	0.20	
28	5.02	0.68	1.94	2.10	13.70	7.48	2.10	1.20	0.80	0.59	0.38	0.18	
29	1.10	0.68	1.86	2.02	21.22	6.40	2.02	1.15	0.80	0.59		0.18	
30	0.50	5.26	48.45	2.40	63.40	5.65	1.94	1.25	0.80	0.56		0.18	
31		33.61		6.70	94.60		1.94		0.80	0.56		0.20	
Total	30.80	188.98	176.52	270.15	563.81	485.57	111.54	43.19	33.56	21.77	13.67	9.45	1949.01 CMSDAY
Mean	1.03	6.10	5.88	8.71	18.19	16.19	3.60	1.44	1.08	0.70	0.49	0.30	5.34 CMS
Max	7.00	33.61	48.45	38.78	94.60	40.76	6.40	1.86	2.30	0.80	0.56	0.68	94.60 CMS
Min	0.00	0.20	0.62	2.02	2.30	5.65	1.94	1.15	0.80	0.56	0.38	0.16	0.00 CMS
Runoff	2.661	16.328	15.251	23.341	48.713	41.953	9.637	3.732	2.900	1.881	1.181	0.816	168.394 MCM

Momentary Peak 148.15 CMS, at 4.25 M (A.D), at 12.00 Hours, on Aug 31, 1994

Runoff Yield 11.34 Liters/Second/Square KM, Momentary Peak Yield 314.54 Liters/Second/Square KM

WATER YEAR 1994

PASAK RIVER BASIN

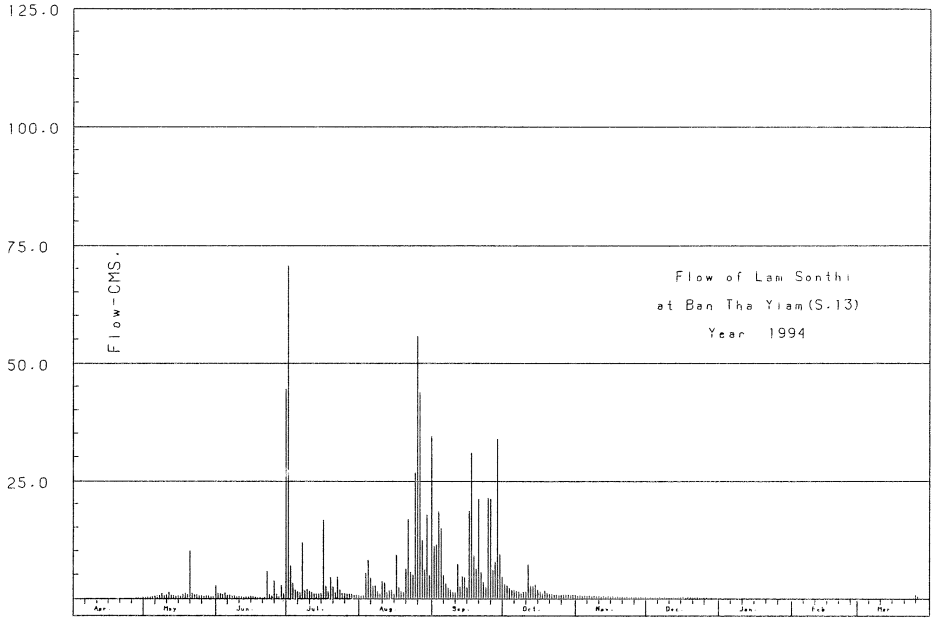
Lam Sonthi at Ban Tha Yiam, Lop Buri (S.13)

Location	Lat. 15°-20'-21" N., Long. 101°-22'-30" E., on left bank near Wat Tha Yiam, Amphoe Chai Badan, Lop Buri.
Drainage Area	359 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	About 15 meters from the top staff gage.
Elevation	+8.697 m.(A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir about 6 meters above gage site. Stage-discharge relation defined by 147 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	1.25	0.87	5.95	0.66	2.09	1.19	0.67	0.50	0.41	0.35	0.35	
2	0.10	1.20	0.89	1.67	0.65	2.14	1.17	0.65	0.50	0.41	0.35	0.35	
3	0.10	1.16	0.76	1.22	1.47	2.81	1.09	0.64	0.50	0.41	0.35	0.34	
4	0.10	0.86	0.94	1.05	1.81	2.48	1.04	0.65	0.50	0.41	0.35	0.34	
5	0.10	0.74	0.72	0.99	1.36	1.42	1.03	0.65	0.50	0.41	0.35	0.34	
6	0.10	0.64	0.69	0.91	1.14	1.22	1.01	0.64	0.50	0.41	0.35	0.34	
7	0.10	0.70	0.63	2.18	1.16	1.11	0.97	0.63	0.49	0.41	0.35	0.34	
8	0.10	0.84	0.61	1.01	0.97	1.04	0.90	0.63	0.49	0.40	0.35	0.34	
9	0.10	0.67	0.58	1.07	0.85	0.96	0.95	0.61	0.49	0.40	0.35	0.34	
10	0.10	0.68	0.56	1.01	1.26	0.92	0.99	0.60	0.49	0.40	0.35	0.34	
11	0.10	0.96	0.55	0.93	1.24	1.71	1.70	0.59	0.49	0.40	0.35	0.34	
12	0.10	0.72	0.54	0.87	0.92	1.12	1.16	0.59	0.49	0.40	0.35	0.34	
13	0.10	0.64	0.53	0.78	1.02	1.40	1.15	0.58	0.48	0.40	0.35	0.34	
14	0.10	0.62	0.57	0.85	1.03	1.36	1.18	0.58	0.47	0.40	0.35	0.34	
15	0.10	0.60	0.62	0.84	0.85	1.11	1.04	0.57	0.54	0.39	0.35	0.34	
16	0.10	0.57	0.55	2.64	1.92	2.82	0.98	0.57	0.54	0.39	0.35	0.34	
17	0.10	0.80	0.52	1.15	1.12	3.83	0.83	0.56	0.53	0.39	0.35	0.33	
18	0.10	0.86	0.51	0.96	0.98	1.90	1.02	0.55	0.53	0.39	0.35	0.29	
19	0.10	0.77	0.49	1.37	0.96	1.58	0.88	0.55	0.53	0.38	0.35	0.26	
20	0.10	2.01	0.50	1.13	1.58	3.05	0.84	0.54	0.53	0.38	0.35	0.23	
21	0.11	0.88	0.48	0.92	2.67	1.51	0.83	0.55	0.52	0.38	0.35	0.19	
22	0.15	0.77	1.53	1.37	1.50	1.24	0.75	0.54	0.51	0.38	0.35	0.20	
23	0.62	0.71	0.76	1.04	1.44	1.12	0.73	0.53	0.50	0.38	0.35	0.29	
24	1.60	0.66	0.64	0.85	3.51	3.06	0.72	0.53	0.48	0.37	0.35	0.52	
25	1.54	0.61	1.27	0.84	5.29	3.05	0.74	0.52	0.48	0.37	0.35	0.77	
26	1.51	0.58	0.77	0.85	4.68	1.56	0.73	0.51	0.43	0.37	0.35	0.54	
27	1.45	0.66	0.59	0.84	2.23	1.76	0.76	0.51	0.42	0.36	0.35	0.48	
28	1.40	0.61	1.17	0.76	1.56	4.03	0.73	0.51	0.42	0.36	0.35	0.41	
29	1.35	0.57	0.80	0.71	2.75	1.93	0.73	0.51	0.42	0.35		0.39	
30	1.31	0.54	4.72	0.67	1.43	1.38	0.72	0.50	0.42	0.35		0.37	
31		1.17		0.64	4.07		0.69		0.41	0.35		0.35	
Mean	0.43	0.81	0.85	1.23	1.74	1.89	0.94	0.58	0.49	0.39	0.35	0.36	
Max	1.60	2.01	4.72	5.95	5.29	4.03	1.70	0.67	0.54	0.41	0.35	0.77	5.95
Min	0.10	0.54	0.48	0.64	0.65	0.92	0.69	0.50	0.41	0.35	0.35	0.19	0.10

Annual Max Momentary Gage Height 7.03 M (A.D), at 6.00 Hours, on Jul 1, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.10 M (A.D)
Left Bank Elevation 7.05 M (A.D)
Right Bank Elevation 8.15 M (A.D), Drainage Area 359 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.46	1.23	70.87	0.76	11.13	3.12	0.78	0.40	0.26	0.17	0.17	
2	0.00	0.49	1.28	7.12	0.74	11.64	2.96	0.74	0.40	0.26	0.17	0.17	
3	0.00	0.52	0.99	3.37	5.45	18.51	2.33	0.72	0.40	0.26	0.17	0.16	
4	0.00	0.56	1.46	2.05	8.30	15.08	1.98	0.74	0.40	0.26	0.17	0.16	
5	0.00	0.60	0.90	1.66	4.53	5.03	1.91	0.74	0.40	0.26	0.17	0.16	
6	0.00	0.72	0.83	1.34	2.72	3.37	1.77	0.72	0.40	0.26	0.17	0.16	
7	0.00	0.85	0.69	12.04	2.88	2.48	1.58	0.69	0.39	0.26	0.17	0.16	
8	0.00	1.16	0.65	1.77	1.58	1.98	1.30	0.69	0.39	0.25	0.17	0.16	
9	0.00	0.78	0.58	2.19	1.19	1.54	1.50	0.65	0.39	0.25	0.17	0.16	
10	0.00	0.81	0.54	1.77	3.70	1.38	1.66	0.63	0.39	0.25	0.17	0.16	
11	0.00	1.54	0.51	1.42	3.53	7.45	7.37	0.60	0.39	0.25	0.17	0.16	
12	0.00	0.90	0.49	1.23	1.38	2.56	2.88	0.60	0.39	0.25	0.17	0.16	
13	0.00	0.72	0.47	1.03	1.84	4.87	2.80	0.58	0.37	0.25	0.17	0.16	
14	0.00	0.67	0.56	1.19	1.91	4.53	3.04	0.58	0.36	0.25	0.17	0.16	
15	0.00	0.63	0.67	1.16	1.19	2.48	1.98	0.56	0.49	0.23	0.17	0.16	
16	0.00	0.56	0.51	16.69	9.41	18.62	1.62	0.56	0.49	0.23	0.17	0.16	
17	0.00	1.08	0.44	2.80	2.56	31.13	1.14	0.54	0.47	0.23	0.17	0.15	
18	0.00	1.21	0.42	1.54	1.62	9.21	1.84	0.51	0.47	0.23	0.17	0.09	
19	0.00	1.01	0.39	4.62	1.54	6.37	1.26	0.51	0.47	0.22	0.17	0.06	
20	0.00	10.32	0.40	2.64	6.37	21.32	1.16	0.49	0.47	0.22	0.17	0.03	
21	0.00	1.26	0.37	1.38	17.00	5.78	1.14	0.51	0.44	0.22	0.17	0.00	
22	0.00	1.01	5.95	4.62	5.70	3.53	0.96	0.49	0.42	0.22	0.17	0.00	
23	0.19	0.87	0.99	1.98	5.20	2.56	0.92	0.47	0.40	0.22	0.17	0.09	
24	0.22	0.76	0.72	1.19	26.91	21.44	0.90	0.47	0.37	0.21	0.17	0.44	
25	0.25	0.65	3.78	1.16	55.89	21.32	0.94	0.44	0.37	0.21	0.17	1.01	
26	0.28	0.58	1.01	1.19	43.87	6.20	0.92	0.42	0.30	0.21	0.17	0.49	
27	0.31	0.76	0.60	1.16	12.55	7.87	0.99	0.42	0.28	0.19	0.17	0.37	
28	0.35	0.65	2.96	0.99	6.20	33.97	0.92	0.42	0.28	0.19	0.17	0.26	
29	0.38	0.56	1.08	0.87	17.85	9.51	0.92	0.42	0.28	0.17		0.23	
30	0.42	0.49	44.56	0.78	5.12	4.70	0.90	0.40	0.28	0.17		0.21	
31		2.96		0.72	34.53		0.83		0.26	0.17		0.17	
Total	2.40	36.14	76.03	154.54	294.02	297.56	55.54	17.09	12.01	7.11	4.76	6.18	963.38 CMSDAY
Mean	0.08	1.17	2.53	4.99	9.48	9.92	1.79	0.57	0.39	0.23	0.17	0.20	2.64 CMS
Max	0.42	10.32	44.56	70.87	55.89	33.97	7.37	0.78	0.49	0.26	0.17	1.01	70.87 CMS
Min	0.00	0.46	0.37	0.72	0.74	1.38	0.83	0.40	0.26	0.17	0.17	0.00	0.00 CMS
Runoff	0.207	3.122	6.569	13.352	25.403	25.709	4.799	1.477	1.038	0.614	0.411	0.534	83.236 MCM

Momentary Peak 106.24 CMS, at 7.03 M (A.D), at 6.00 Hours, on Jul 1, 1994

Runoff Yield 7.35 Liters/Second/Square KM, Momentary Peak Yield 295.93 Liters/Second/Square KM

WATER YEAR 1994

PASAK RIVER BASIN

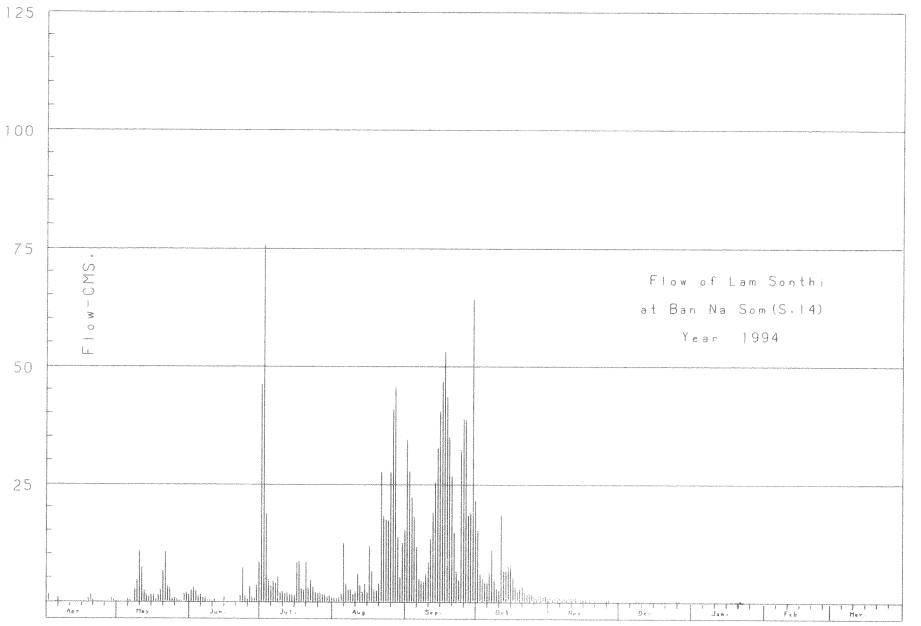
Lam Sonthi at Ban Na Som, Lop Buri (S.14)

Location	Lat. 15°13'24" N., Long. 101°16'51" E., on left bank at the bridge on road, Ban Na Som, Tambon Nong Yi To, Amphoe Chai Badan, Lop Buri.
Drainage Area	1,247 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the gage observer's house.
Elevation	+10.065 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir about 1 kilometer above gage site on Nov.20,94-Mar.31,95, discharge estimated by recession equation. Stage-discharge relation defined by 47 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.77	1.38	1.96	5.74	1.56	4.91	3.36	1.60	1.52	1.30	1.16	1.16	
2	1.25	1.25	2.03	7.47	1.57	4.43	2.44	1.61	1.50	1.30	1.16	1.16	
3	1.19	1.19	1.94	3.70	1.57	3.99	2.31	1.60	1.60	1.30	1.16	1.16	
4	1.21	1.19	1.64	2.27	1.80	3.62	2.23	1.60	1.51	1.30	1.16	1.16	
5	1.63	1.51	1.78	2.10	3.11	3.04	2.19	1.60	1.50	1.30	1.16	1.16	
6	1.22	1.40	1.62	2.22	2.15	2.31	2.48	1.58	1.53	1.30	1.16	1.16	
7	1.19	1.33	1.61	2.20	1.98	2.24	2.99	1.58	1.50	1.30	1.16	1.16	
8	1.17	1.98	1.48	2.35	1.97	2.22	2.26	1.58	1.50	1.30	1.16	1.20	
9	1.16	2.25	1.42	1.86	1.80	2.41	2.00	1.58	1.50	1.30	1.16	1.20	
10	1.16	2.94	1.36	1.90	1.89	2.71	1.95	1.56	1.49	1.30	1.16	1.20	
11	1.15	2.59	1.46	1.83	2.45	3.20	3.69	1.57	1.45	1.30	1.16	1.26	
12	1.15	1.95	1.27	1.83	2.10	3.70	2.51	1.56	1.44	1.30	1.16	1.20	
13	1.12	1.74	1.25	1.77	1.87	4.23	2.49	1.51	1.44	1.30	1.16	1.20	
14	1.12	1.66	1.27	1.73	2.18	4.80	2.62	1.50	1.40	1.30	1.16	1.20	
15	1.14	1.73	1.67	1.74	1.90	5.34	2.63	1.51	1.40	1.30	1.16	1.16	
16	1.14	1.75	1.38	2.71	3.04	5.79	2.34	1.52	1.40	1.30	1.16	1.16	
17	1.12	1.49	1.28	2.72	2.50	6.17	2.06	1.53	1.40	1.30	1.16	1.16	
18	1.51	1.74	1.22	2.02	1.96	5.57	1.91	1.50	1.40	1.30	1.16	1.16	
19	1.77	1.94	1.20	1.95	1.95	4.95	2.05	1.49	1.40	1.30	1.16	1.16	
20	1.44	2.49	1.20	2.72	2.15	4.35	2.08	1.20	1.38	1.30	1.16	1.16	
21	1.19	2.94	1.19	2.01	4.42	3.33	1.88	1.54	1.36	1.26	1.16	1.16	
22	1.20	2.08	1.69	2.28	3.64	2.48	1.80	1.19	1.36	1.20	1.16	1.16	
23	1.20	1.99	2.60	2.05	3.58	2.27	1.80	1.20	1.35	1.20	1.16	1.16	
24	1.23	1.54	1.66	1.88	3.55	4.76	1.80	1.20	1.35	1.20	1.16	1.16	
25	1.15	1.56	1.54	1.84	4.41	5.24	1.74	1.20	1.32	1.18	1.16	1.16	
26	1.12	1.47	2.09	1.82	5.38	5.21	1.70	1.25	1.32	1.18	1.16	1.20	
27	1.13	1.42	1.60	1.80	5.69	3.66	1.71	1.26	1.32	1.16	1.16	1.20	
28	1.55	1.29	1.60	1.73	3.25	3.69	1.70	1.20	1.30	1.16	1.16	1.24	
29	1.40	1.80	2.09	1.69	2.33	6.83	1.70	1.21	1.30	1.16		1.22	
30	1.47	1.83	2.69	1.68	3.11	3.93	1.67	1.20	1.30	1.16		1.22	
31		1.73		1.60	3.39		1.69		1.30	1.16		1.21	
Mean	1.28	1.78	1.63	2.36	2.72	4.05	2.19	1.44	1.41	1.26	1.16	1.18	
Max	1.77	2.94	2.69	7.47	5.69	6.83	3.69	1.61	1.60	1.30	1.16	1.26	7.47
Min	1.12	1.19	1.19	1.60	1.56	2.22	1.67	1.19	1.30	1.16	1.16	1.16	1.12

Annual Max Momentary Gage Height 7.70 M (A.D), at 6.00 Hours, on Jul 2, 1994
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 11.44 M (A.D), Drainage Area 1247 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.71	0.37	2.66	46.34	0.91	34.46	15.17	1.05	0.53	0.29	0.16	0.09	
2	0.17	0.17	3.09	75.95	0.95	27.92	6.17	1.08	0.52	0.29	0.16	0.09	
3	0.09	0.09	2.54	18.98	0.95	22.42	5.08	1.05	0.51	0.28	0.16	0.09	
4	0.12	0.09	1.19	4.76	1.85	18.08	4.44	1.05	0.50	0.28	0.15	0.09	
5	1.15	0.73	1.76	3.55	12.56	11.85	4.13	1.05	0.49	0.27	0.15	0.09	
6	0.13	0.40	1.12	4.36	3.88	5.08	6.50	0.98	0.48	0.27	0.15	0.09	
7	0.09	0.30	1.08	4.20	2.78	4.52	11.34	0.98	0.47	0.26	0.14	0.08	
8	0.07	2.78	0.64	5.42	2.72	4.36	4.68	0.98	0.47	0.26	0.14	0.08	
9	0.06	4.60	0.46	2.12	1.85	5.92	2.90	0.98	0.46	0.25	0.14	0.08	
10	0.06	10.83	0.34	2.30	2.26	8.55	2.60	0.91	0.45	0.25	0.14	0.08	
11	0.05	7.42	0.58	1.99	6.25	13.48	18.87	0.95	0.44	0.24	0.13	0.08	
12	0.05	2.60	0.20	1.99	3.55	18.98	6.75	0.91	0.43	0.24	0.13	0.08	
13	0.02	1.58	0.17	1.71	2.17	25.35	6.58	0.73	0.42	0.23	0.13	0.08	
14	0.02	1.26	0.20	1.53	4.07	32.91	7.69	0.70	0.41	0.23	0.13	0.07	
15	0.04	1.53	1.29	1.58	2.30	40.53	7.79	0.73	0.41	0.22	0.12	0.07	
16	0.04	1.62	0.37	8.55	11.85	47.10	5.33	0.77	0.40	0.22	0.12	0.07	
17	0.02	0.67	0.22	8.64	6.67	53.20	3.29	0.80	0.39	0.22	0.12	0.07	
18	0.73	1.58	0.13	3.03	2.66	43.78	2.36	0.70	0.38	0.21	0.12	0.07	
19	1.71	2.54	0.10	2.60	2.60	35.03	3.22	0.67	0.38	0.21	0.11	0.07	
20	0.52	6.58	0.10	8.64	3.88	26.86	3.42	0.66	0.37	0.20	0.11	0.07	
21	0.09	10.83	0.09	2.97	27.79	14.84	2.21	0.64	0.36	0.20	0.11	0.06	
22	0.10	3.42	1.37	4.84	18.31	6.50	1.85	0.63	0.36	0.20	0.11	0.06	
23	0.10	2.84	7.50	3.22	17.64	4.76	1.85	0.62	0.35	0.19	0.11	0.06	
24	0.14	0.84	1.26	2.21	17.30	32.35	1.85	0.61	0.34	0.19	0.10	0.06	
25	0.05	0.91	0.84	2.03	27.66	39.12	1.58	0.60	0.34	0.19	0.10	0.06	
26	0.02	0.61	3.48	1.94	41.10	38.70	1.40	0.59	0.33	0.18	0.10	0.06	
27	0.03	0.46	1.05	1.85	45.57	18.53	1.44	0.57	0.32	0.18	0.10	0.06	
28	0.87	0.23	1.05	1.53	13.99	18.87	1.40	0.56	0.32	0.17	0.10	0.06	
29	0.40	1.85	3.48	1.37	5.25	64.49	1.40	0.55	0.31	0.17		0.06	
30	0.61	1.99	8.36	1.33	12.56	21.69	1.29	0.54	0.31	0.17		0.05	
31		1.53		1.05	15.51		1.37		0.30	0.17		0.05	
Total	9.26	73.25	46.72	232.58	319.39	740.23	145.95	23.64	12.55	6.93	3.54	2.23	1616.27 CMSDAY
Mean	0.31	2.36	1.56	7.50	10.30	24.67	4.71	0.79	0.40	0.22	0.13	0.07	4.43 CMS
Max	1.71	10.83	8.36	75.95	45.57	64.49	18.87	1.08	0.53	0.29	0.16	0.09	75.95 CMS
Min	0.02	0.09	0.09	1.05	0.91	4.36	1.29	0.54	0.30	0.17	0.10	0.05	0.02 CMS
Runoff	0.800	6.329	4.037	20.095	27.595	63.956	12.610	2.042	1.084	0.599	0.306	0.193	139.646 MCM

Momentary Peak 80.40 CMS, at 7.70 M (A.D), at 6.00 Hours, on Jul 2, 1994

Runoff Yield 3.55 Liters/Second/Square KM, Momentary Peak Yield 64.47 Liters/Second/Square KM

WATER YEAR 1994

PASAK RIVER BASIN

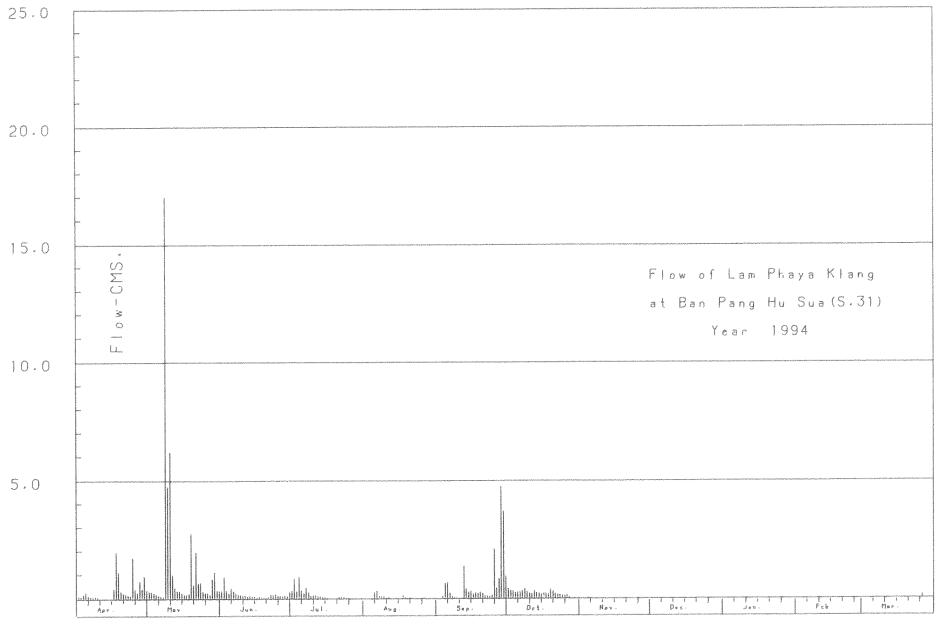
Lam Phaya Klang at Ban Pang Hu Sua, Lop Buri (S.31)

Location	Lat. 15°-06'-05" N., Long. 101°-24'-11" E., on left bank at the bridge of Dan Khun Tod - Chai Badan Highway, Tambon Sap Sombun, Amphoe Chai Badan, Lop Buri.
Drainage Area	381 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+7.083 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1986 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.23	0.24	0.23	0.09	0.10	0.27	0.12	0.06	0.05	0.04	0.05	
2	0.14	0.22	0.35	0.34	0.09	0.11	0.25	0.12	0.06	0.05	0.04	0.05	
3	0.18	0.21	0.24	0.23	0.09	0.14	0.23	0.12	0.07	0.05	0.04	0.05	
4	0.21	0.18	0.20	0.35	0.11	0.32	0.21	0.12	0.06	0.04	0.04	0.05	
5	0.16	0.16	0.28	0.24	0.21	0.32	0.21	0.12	0.06	0.04	0.04	0.05	
6	0.14	0.14	0.24	0.20	0.24	0.21	0.22	0.12	0.07	0.05	0.04	0.05	
7	0.14	0.14	0.20	0.29	0.16	0.15	0.23	0.09	0.07	0.05	0.04	0.05	
8	0.14	1.47	0.18	0.22	0.14	0.12	0.28	0.07	0.07	0.05	0.04	0.05	
9	0.14	0.61	0.17	0.18	0.15	0.12	0.22	0.07	0.07	0.06	0.04	0.05	
10	0.11	0.67	0.16	0.17	0.15	0.11	0.20	0.07	0.07	0.06	0.04	0.05	
11	0.09	0.36	0.16	0.16	0.14	0.11	0.18	0.07	0.07	0.06	0.04	0.06	
12	0.09	0.29	0.15	0.15	0.12	0.40	0.24	0.07	0.07	0.06	0.05	0.06	
13	0.09	0.24	0.15	0.14	0.11	0.27	0.20	0.07	0.07	0.06	0.05	0.06	
14	0.09	0.23	0.15	0.14	0.12	0.22	0.20	0.07	0.07	0.06	0.05	0.06	
15	0.09	0.20	0.14	0.13	0.11	0.23	0.18	0.07	0.07	0.06	0.05	0.06	
16	0.27	0.18	0.14	0.13	0.11	0.19	0.20	0.07	0.07	0.05	0.05	0.06	
17	0.45	0.17	0.14	0.12	0.17	0.20	0.19	0.07	0.07	0.05	0.05	0.06	
18	0.37	0.20	0.14	0.11	0.13	0.20	0.19	0.08	0.07	0.05	0.05	0.06	
19	0.23	0.51	0.13	0.09	0.12	0.21	0.26	0.07	0.07	0.05	0.05	0.06	
20	0.20	0.31	0.13	0.08	0.13	0.20	0.24	0.07	0.07	0.04	0.05	0.06	
21	0.18	0.45	0.13	0.13	0.13	0.15	0.19	0.07	0.05	0.05	0.05	0.04	
22	0.17	0.32	0.18	0.14	0.12	0.15	0.18	0.07	0.05	0.05	0.05	0.04	
23	0.15	0.32	0.16	0.13	0.12	0.14	0.17	0.06	0.06	0.05	0.05	0.06	
24	0.43	0.23	0.19	0.13	0.12	0.17	0.16	0.06	0.07	0.05	0.05	0.10	
25	0.26	0.21	0.16	0.13	0.12	0.46	0.16	0.06	0.07	0.03	0.05	0.06	
26	0.20	0.20	0.15	0.11	0.12	0.28	0.16	0.06	0.07	0.03	0.07	0.17	
27	0.33	0.18	0.15	0.10	0.11	0.34	0.13	0.06	0.06	0.03	0.06	0.07	
28	0.28	0.34	0.15	0.10	0.10	0.61	0.12	0.06	0.06	0.03	0.05	0.05	
29	0.35	0.37	0.15	0.10	0.10	0.56	0.12	0.06	0.05	0.05		0.05	
30	0.25	0.25	0.22	0.10	0.10	0.35	0.12	0.06	0.05	0.05		0.05	
31		0.23		0.10	0.10		0.12		0.05	0.04		0.05	
Mean	0.20	0.32	0.18	0.16	0.13	0.24	0.19	0.08	0.06	0.05	0.05	0.06	
Max	0.45	1.47	0.35	0.35	0.24	0.61	0.28	0.12	0.07	0.06	0.07	0.17	1.47
Min	0.09	0.14	0.13	0.08	0.09	0.10	0.12	0.06	0.05	0.03	0.04	0.04	0.03

Annual Max Momentary Gage Height 2.27 M (A.D), at 16.00 Hours, on May 8, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.37 M (A.D)
Left Bank Elevation 5.45 M (A.D)
Right Bank Elevation 4.13 M (A.D), Drainage Area 381 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.33	0.35	0.33	0.00	0.00	0.43	0.05	0.00	0.00	0.00	0.00	
2	0.10	0.30	0.95	0.86	0.00	0.02	0.37	0.05	0.00	0.00	0.00	0.00	
3	0.20	0.27	0.35	0.33	0.00	0.10	0.33	0.05	0.00	0.00	0.00	0.00	
4	0.27	0.20	0.25	0.95	0.02	0.68	0.27	0.05	0.00	0.00	0.00	0.00	
5	0.15	0.15	0.45	0.35	0.27	0.68	0.27	0.05	0.00	0.00	0.00	0.00	
6	0.10	0.10	0.35	0.25	0.35	0.27	0.30	0.05	0.00	0.00	0.00	0.00	
7	0.10	0.10	0.25	0.47	0.15	0.13	0.33	0.00	0.00	0.00	0.00	0.00	
8	0.10	17.05	0.20	0.30	0.10	0.05	0.45	0.00	0.00	0.00	0.00	0.00	
9	0.10	4.75	0.17	0.20	0.13	0.05	0.30	0.00	0.00	0.00	0.00	0.00	
10	0.02	6.25	0.15	0.17	0.13	0.02	0.25	0.00	0.00	0.00	0.00	0.00	
11	0.00	1.04	0.15	0.15	0.10	0.02	0.20	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.47	0.13	0.13	0.05	1.40	0.35	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.35	0.13	0.10	0.02	0.43	0.25	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.33	0.13	0.10	0.05	0.30	0.25	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.25	0.10	0.07	0.02	0.33	0.20	0.00	0.00	0.00	0.00	0.00	
16	0.43	0.20	0.10	0.07	0.02	0.22	0.25	0.00	0.00	0.00	0.00	0.00	
17	2.00	0.17	0.10	0.05	0.17	0.25	0.22	0.00	0.00	0.00	0.00	0.00	
18	1.13	0.25	0.10	0.02	0.07	0.25	0.22	0.00	0.00	0.00	0.00	0.00	
19	0.33	2.79	0.07	0.00	0.05	0.27	0.40	0.00	0.00	0.00	0.00	0.00	
20	0.25	0.59	0.07	0.00	0.07	0.25	0.35	0.00	0.00	0.00	0.00	0.00	
21	0.20	2.00	0.07	0.07	0.07	0.13	0.22	0.00	0.00	0.00	0.00	0.00	
22	0.17	0.68	0.20	0.10	0.05	0.13	0.20	0.00	0.00	0.00	0.00	0.00	
23	0.13	0.68	0.15	0.07	0.05	0.10	0.17	0.00	0.00	0.00	0.00	0.00	
24	1.76	0.33	0.22	0.07	0.05	0.17	0.15	0.00	0.00	0.00	0.00	0.00	
25	0.40	0.27	0.15	0.07	0.05	2.12	0.15	0.00	0.00	0.00	0.00	0.00	
26	0.25	0.25	0.13	0.02	0.05	0.45	0.15	0.00	0.00	0.00	0.00	0.17	
27	0.77	0.20	0.13	0.00	0.02	0.86	0.07	0.00	0.00	0.00	0.00	0.00	
28	0.45	0.86	0.13	0.00	0.00	4.75	0.05	0.00	0.00	0.00	0.00	0.00	
29	0.95	1.13	0.13	0.00	0.00	3.74	0.05	0.00	0.00	0.00		0.00	
30	0.37	0.37	0.30	0.00	0.00	0.95	0.05	0.00	0.00	0.00		0.00	
31		0.33		0.00	0.00		0.05		0.00	0.00		0.00	
Total	10.86	43.04	6.16	5.30	2.11	19.12	7.30	0.30	0.00	0.00	0.00	0.17	94.36 CMSDAY
Mean	0.36	1.39	0.21	0.17	0.07	0.64	0.24	0.01	0.00	0.00	0.00	0.01	0.26 CMS
Max	2.00	17.05	0.95	0.95	0.35	4.75	0.45	0.05	0.00	0.00	0.00	0.17	17.05 CMS
Min	0.00	0.10	0.07	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.938	3.719	0.532	0.458	0.182	1.652	0.631	0.026	0.000	0.000	0.000	0.015	8.153 MCM

Momentary Peak 33.01 CMS, at 2.27 M (A.D), at 16.00 Hours, on May 8, 1994

Runoff Yield 0.68 Liters/Second/Square KM, Momentary Peak Yield 86.64 Liters/Second/Square KM

WATER YEAR 1994

SALAWIN RIVER BASIN

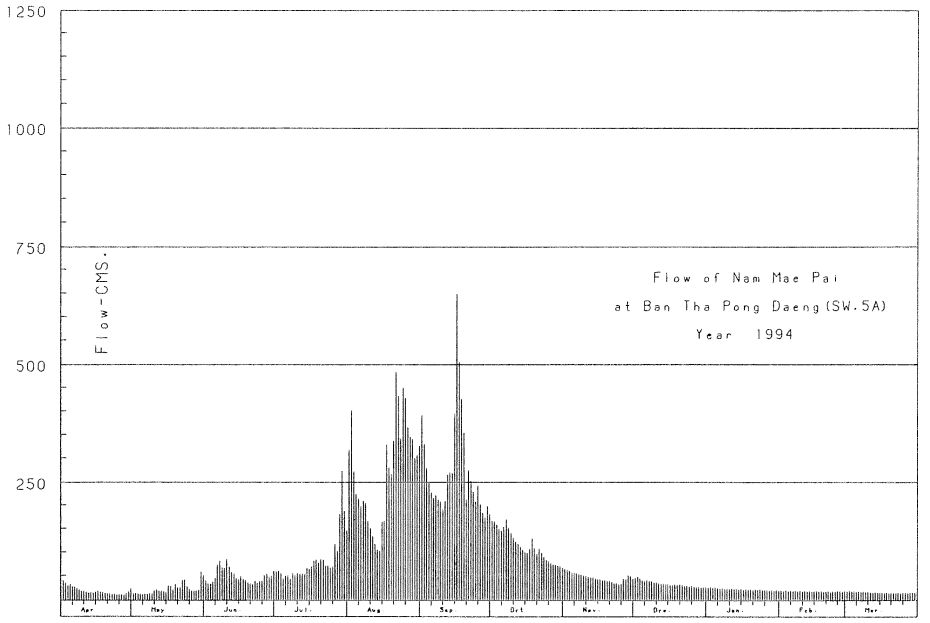
Nam Mae Pai at Ban Tha Pong Daeng, Mae Hong Son (SW.5A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the weir located about 2 kilometers upstream site and sand escavation 200 meters downstream from the gage site. Stage-discharge relation defined by 82 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	0.30	0.77	0.98	2.91	3.34	1.92	1.03	0.68	0.35	0.20	0.16	
2	0.70	0.28	0.67	0.98	3.41	2.99	1.90	1.02	0.74	0.35	0.20	0.16	
3	0.63	0.28	0.68	0.94	2.62	2.66	1.86	0.98	0.67	0.34	0.20	0.16	
4	0.65	0.25	0.72	0.81	2.31	2.48	1.78	0.96	0.62	0.34	0.19	0.15	
5	0.60	0.25	0.83	0.88	2.25	2.34	1.76	0.95	0.59	0.33	0.19	0.15	
6	0.56	0.24	1.11	0.88	2.13	2.25	1.81	0.93	0.62	0.32	0.19	0.15	
7	0.53	0.25	1.21	0.81	2.22	2.29	1.94	0.92	0.60	0.31	0.19	0.15	
8	0.44	0.27	1.06	0.94	2.18	2.24	1.80	0.90	0.57	0.30	0.19	0.15	
9	0.41	0.29	1.04	0.88	1.91	2.20	1.72	0.89	0.55	0.30	0.19	0.14	
10	0.40	0.40	1.23	0.93	1.80	2.09	1.63	0.87	0.53	0.29	0.18	0.13	
11	0.37	0.47	1.07	0.92	1.66	2.21	1.56	0.86	0.51	0.29	0.18	0.12	
12	0.33	0.40	0.95	0.92	1.53	2.58	1.53	0.85	0.50	0.29	0.18	0.12	
13	0.33	0.40	0.93	0.93	1.42	2.60	1.48	0.84	0.49	0.28	0.17	0.11	
14	0.32	0.39	0.81	1.04	1.41	2.60	1.42	0.83	0.49	0.28	0.16	0.11	
15	0.35	0.32	0.80	1.03	1.90	3.37	1.38	0.81	0.48	0.27	0.16	0.10	
16	0.40	0.60	0.86	1.07	1.91	4.71	1.36	0.80	0.46	0.26	0.16	0.09	
17	0.38	0.61	0.81	1.21	2.98	3.98	1.44	0.78	0.45	0.26	0.16	0.09	
18	0.33	0.44	0.77	1.22	2.67	3.54	1.63	0.77	0.46	0.26	0.15	0.09	
19	0.32	0.68	0.72	1.16	2.59	3.13	1.45	0.76	0.46	0.25	0.15	0.08	
20	0.28	0.53	0.67	1.23	3.02	2.24	1.35	0.75	0.46	0.25	0.15	0.08	
21	0.26	0.56	0.65	1.23	3.86	2.63	1.44	0.73	0.44	0.25	0.15	0.08	
22	0.25	0.78	0.76	1.10	3.58	2.50	1.37	0.70	0.42	0.25	0.15	0.09	
23	0.24	0.78	0.69	1.09	3.05	2.34	1.28	0.69	0.41	0.25	0.15	0.08	
24	0.22	0.60	0.75	1.06	3.68	2.21	1.23	0.68	0.40	0.24	0.16	0.08	
25	0.22	0.47	0.75	1.07	3.55	2.43	1.19	0.66	0.40	0.24	0.16	0.08	
26	0.20	0.40	0.88	1.52	3.20	2.16	1.15	0.65	0.39	0.23	0.15	0.08	
27	0.20	0.42	0.93	1.40	3.08	2.04	1.13	0.66	0.38	0.22	0.16	0.08	
28	0.28	0.40	0.86	2.02	3.04	1.96	1.11	0.78	0.36	0.22	0.16	0.08	
29	0.38	0.45	0.87	2.62	2.80	2.14	1.10	0.74	0.36	0.22		0.10	
30	0.50	0.97	0.97	2.06	2.83	2.01	1.08	0.68	0.35	0.21		0.08	
31		0.88		1.76	2.96		1.06		0.35	0.21		0.08	
Mean	0.39	0.46	0.86	1.18	2.60	2.61	1.48	0.82	0.49	0.27	0.17	0.11	
Max	0.77	0.97	1.23	2.62	3.86	4.71	1.94	1.03	0.74	0.35	0.20	0.16	4.71
Min	0.20	0.24	0.65	0.81	1.41	1.96	1.06	0.65	0.35	0.21	0.15	0.08	0.08

Annual Max Momentary Gage Height 5.18 M (A.D), at 6.00 Hours, on Sep 16, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.24 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.60	14.60	41.60	61.04	319.60	391.80	168.80	66.00	46.12	26.75	20.00	18.32	
2	36.00	13.84	34.02	61.04	403.80	332.40	166.00	65.00	49.96	26.75	20.00	18.32	
3	31.38	13.84	34.68	57.12	273.20	279.60	160.80	61.04	45.48	26.26	20.00	18.32	
4	32.70	12.70	37.60	44.92	224.50	250.80	150.40	59.08	42.28	26.26	19.58	17.90	
5	29.40	12.70	46.76	51.36	215.50	229.00	147.80	58.10	40.38	25.77	19.58	17.90	
6	27.24	12.32	74.00	51.36	198.20	215.50	154.30	56.14	42.28	25.28	19.58	17.90	
7	25.62	12.70	84.00	44.92	211.00	221.50	171.60	55.16	41.00	24.79	19.58	17.90	
8	21.00	13.46	69.00	57.12	205.20	214.00	153.00	53.20	39.14	24.30	19.58	17.90	
9	19.50	14.22	67.00	51.36	167.40	208.00	142.60	52.28	37.90	24.30	19.58	17.48	
10	19.00	19.00	86.00	56.14	153.00	192.60	131.60	50.44	36.66	23.87	19.16	17.06	
11	17.68	22.50	70.00	55.16	135.20	209.50	123.20	49.52	35.42	23.87	19.16	16.64	
12	15.92	19.00	58.10	55.16	119.60	266.80	119.60	48.60	34.80	23.87	19.16	16.64	
13	15.92	19.00	56.14	56.14	106.40	270.00	113.60	47.68	34.24	23.44	18.74	16.22	
14	15.48	18.56	44.92	67.00	105.20	270.00	106.40	46.76	34.24	23.44	18.32	16.22	
15	16.80	15.48	44.00	66.00	166.00	396.90	101.80	44.92	33.68	23.01	18.32	15.80	
16	19.00	29.40	49.52	70.00	167.40	648.10	99.60	44.00	32.56	22.58	18.32	15.42	
17	18.12	30.06	44.92	84.00	330.80	506.40	108.80	42.40	32.00	22.58	18.32	15.42	
18	15.92	21.00	41.60	85.00	281.20	427.20	131.60	41.60	32.56	22.58	17.90	15.42	
19	15.48	34.68	37.60	79.00	268.40	356.10	110.00	40.80	32.56	22.15	17.90	15.04	
20	13.84	25.62	34.02	86.00	337.40	214.00	98.50	40.00	32.56	22.15	17.90	15.04	
21	13.08	27.24	32.70	86.00	484.80	274.80	108.80	38.40	31.44	22.15	17.90	15.04	
22	12.70	42.40	40.80	73.00	434.40	254.00	100.70	36.00	30.32	22.15	17.90	15.42	
23	12.32	42.40	35.34	72.00	342.50	167.40	91.00	35.34	29.76	22.15	17.90	15.04	
24	11.56	29.40	40.00	69.00	452.40	209.50	86.00	34.68	29.20	21.72	18.32	15.04	
25	11.56	22.50	40.00	70.00	429.00	250.80	82.00	33.36	29.20	21.72	18.32	15.04	
26	10.80	19.00	51.36	118.40	368.00	202.40	78.00	44.20	28.71	21.29	17.90	15.04	
27	10.80	20.00	56.14	104.00	347.60	185.60	76.00	44.84	28.71	20.86	18.32	15.04	
28	13.84	19.00	49.52	182.80	340.80	174.40	74.00	52.52	27.24	20.86	18.32	15.04	
29	18.12	21.50	50.44	273.20	302.00	199.60	73.00	49.96	27.24	20.86		15.80	
30	24.00	60.06	60.06	188.40	306.80	181.40	71.00	46.12	26.75	20.43		15.04	
31		51.36		147.80	327.60		69.00		26.75	20.43		15.04	
Total	586.38	729.54	1511.84	2624.44	8524.90	8200.10	3569.50	1438.14	1071.14	718.62	525.56	503.44	30003.60 CMSDAY
Mean	19.55	23.53	50.39	84.66	275.00	273.34	115.15	47.94	34.55	23.18	18.77	16.24	82.20 CMS
Max	41.60	60.06	86.00	273.20	484.80	648.10	171.60	66.00	49.96	26.75	20.00	18.32	648.10 CMS
Min	10.80	12.32	32.70	44.92	105.20	167.40	69.00	33.36	26.75	20.43	17.90	15.04	10.80 CMS
Runoff	50.663	63.032	130.623	226.752	736.551	708.489	308.405	124.255	92.547	62.089	45.408	43.497	2592.311 MCM

Momentary Peak 746.80 CMS, at 5.18 M (A.D), at 6.00 Hours, on Sep 16, 1994
Runoff Yield 18.41 Liters/Second/Square KM, Momentary Peak Yield 167.22 Liters/Second/Square KM

WATER YEAR 1994

SALAWIN RIVER BASIN

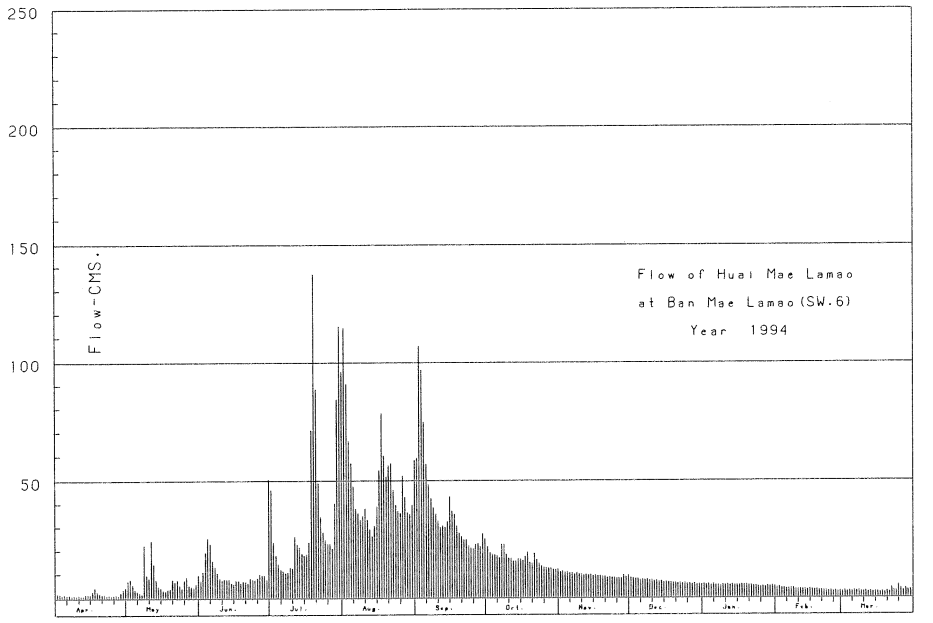
Huai Mae Lamao at Ban Mae Lamao, Tak (SW.6)

Location	Lat. 16°-45'-44" N., Long. 98°-45'-14" E., on left bank downstream from the bridge on highway, at Ban Mae Lamao, Amphoe Mae Sot, Tak.
Drainage Area	1,038 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	About 6.25 meters from automatic gage building.
Elevation	+10.386 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1971 to date.
Rated by Float	-
Rated by Current Meter	1971 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 86 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.51	0.73	0.75	1.94	3.56	2.28	1.25	0.90	0.80	0.68	0.63	0.55	
2	0.48	0.77	0.89	1.31	3.04	3.39	1.17	0.90	0.78	0.68	0.63	0.56	
3	0.46	0.67	1.18	1.13	2.46	3.17	1.14	0.89	0.78	0.68	0.62	0.55	
4	0.46	0.60	1.36	1.00	2.23	2.66	1.14	0.89	0.77	0.67	0.61	0.55	
5	0.45	0.56	1.30	0.93	1.98	2.22	1.12	0.88	0.76	0.68	0.61	0.55	
6	0.44	0.51	1.05	0.90	1.72	2.00	1.10	0.87	0.76	0.67	0.60	0.56	
7	0.43	0.49	0.97	0.88	1.67	1.85	1.28	0.86	0.76	0.66	0.62	0.56	
8	0.43	1.28	0.87	0.88	1.59	1.73	1.29	0.87	0.76	0.66	0.61	0.56	
9	0.43	0.83	0.79	0.96	1.63	1.66	1.14	0.86	0.75	0.67	0.60	0.55	
10	0.43	0.79	0.76	0.94	1.72	1.57	1.09	0.85	0.75	0.67	0.60	0.55	
11	0.43	1.33	0.76	1.38	1.59	1.49	1.08	0.84	0.74	0.67	0.59	0.55	
12	0.43	1.01	0.77	1.29	1.47	1.51	1.05	0.84	0.74	0.67	0.60	0.54	
13	0.46	0.75	0.76	1.24	1.39	1.50	1.04	0.84	0.73	0.67	0.59	0.54	
14	0.48	0.65	0.71	1.16	1.51	1.57	1.08	0.84	0.73	0.67	0.59	0.54	
15	0.46	0.61	0.68	1.13	1.75	1.87	1.07	0.83	0.72	0.66	0.59	0.53	
16	0.54	0.57	0.74	1.14	2.15	1.69	1.06	0.83	0.72	0.67	0.58	0.53	
17	0.63	0.57	0.75	1.31	2.76	1.66	1.11	0.83	0.72	0.67	0.59	0.53	
18	0.54	0.59	0.70	2.58	2.31	1.51	1.17	0.82	0.71	0.68	0.58	0.53	
19	0.52	0.61	0.74	4.06	2.09	1.43	1.03	0.82	0.71	0.67	0.58	0.53	
20	0.48	0.76	0.72	2.99	2.20	1.38	1.01	0.81	0.70	0.67	0.57	0.54	
21	0.46	0.72	0.71	2.02	2.23	1.34	1.16	0.80	0.70	0.66	0.57	0.54	
22	0.44	0.76	0.78	1.62	1.94	1.35	1.07	0.80	0.70	0.66	0.56	0.61	
23	0.43	0.67	0.77	1.44	1.77	1.27	1.01	0.80	0.70	0.65	0.56	0.57	
24	0.43	0.61	0.75	1.34	1.69	1.23	0.98	0.79	0.70	0.65	0.56	0.55	
25	0.42	0.76	0.79	1.30	1.67	1.23	0.96	0.79	0.70	0.64	0.55	0.67	
26	0.45	0.80	0.85	1.29	2.09	1.28	0.95	0.78	0.69	0.64	0.55	0.60	
27	0.44	0.67	0.84	1.23	1.86	1.30	0.95	0.79	0.69	0.64	0.55	0.57	
28	0.53	0.64	0.83	1.79	1.68	1.25	0.94	0.83	0.69	0.65	0.55	0.60	
29	0.58	0.63	0.76	2.89	1.65	1.42	0.93	0.81	0.68	0.65		0.58	
30	0.63	0.68	2.05	3.58	1.77	1.35	0.92	0.83	0.68	0.65		0.57	
31		0.85		3.15	2.26		0.93		0.68	0.64		0.55	
Mean	0.48	0.72	0.88	1.64	1.98	1.71	1.07	0.84	0.73	0.66	0.59	0.56	
Max	0.63	1.33	2.05	4.06	3.56	3.39	1.29	0.90	0.80	0.68	0.63	0.67	4.06
Min	0.42	0.49	0.68	0.88	1.39	1.23	0.92	0.78	0.68	0.64	0.55	0.53	0.42

Annual Max Momentary Gage Height 5.00 M (A.D), at 14.00 Hours, on Jul 30, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.09 M (A.D)
Left Bank Elevation 8.70 M (A.D)
Right Bank Elevation 7.76 M (A.D), Drainage Area 1038 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	7.25	7.75	46.10	114.70	59.70	22.00	11.50	9.00	6.00	4.75	3.00	
2	1.80	8.25	11.25	23.85	91.30	107.05	19.60	11.50	8.50	6.00	4.75	3.20	
3	1.60	5.75	19.90	18.40	66.90	97.15	18.70	11.25	8.50	6.00	4.50	3.00	
4	1.60	4.00	25.60	14.50	57.70	74.90	18.70	11.25	8.25	5.75	4.25	3.00	
5	1.50	3.20	23.50	12.40	47.70	57.30	18.10	11.00	8.00	6.00	4.25	3.00	
6	1.40	2.20	16.00	11.50	38.20	48.50	17.50	10.75	8.00	5.75	4.00	3.20	
7	1.30	1.90	13.60	11.00	36.45	42.75	22.90	10.50	8.00	5.50	4.50	3.20	
8	1.30	22.90	10.75	11.00	33.65	38.55	23.20	10.75	8.00	5.50	4.25	3.20	
9	1.30	9.75	8.75	13.30	35.05	36.10	18.70	10.50	7.75	5.75	4.00	3.00	
10	1.30	8.75	8.00	12.70	38.20	32.95	17.20	10.25	7.75	5.75	4.00	3.00	
11	1.30	24.55	8.00	26.30	33.65	30.15	16.90	10.00	7.50	5.75	3.80	3.00	
12	1.30	14.80	8.25	23.20	29.45	30.85	16.00	10.00	7.50	5.75	4.00	2.80	
13	1.60	7.75	8.00	21.70	26.65	30.50	15.70	10.00	7.25	5.75	3.80	2.80	
14	1.80	5.25	6.75	19.30	30.85	32.95	16.90	10.00	7.25	5.75	3.80	2.80	
15	1.60	4.25	6.00	18.40	39.25	43.45	16.60	9.75	7.00	5.50	3.80	2.60	
16	2.80	3.40	7.50	18.70	54.50	37.15	16.30	9.75	7.00	5.75	3.60	2.60	
17	4.75	3.40	7.75	23.85	78.90	36.10	17.80	9.75	7.00	5.75	3.80	2.60	
18	2.80	3.80	6.50	71.70	60.90	30.85	19.60	9.50	6.75	6.00	3.60	2.60	
19	2.40	4.25	7.50	137.58	52.10	28.05	15.40	9.50	6.75	5.75	3.60	2.60	
20	1.80	8.00	7.00	89.05	56.50	26.30	14.80	9.25	6.50	5.75	3.40	2.80	
21	1.60	7.00	6.75	49.30	57.70	24.90	19.30	9.00	6.50	5.50	3.40	2.80	
22	1.40	8.00	8.50	34.70	46.10	25.25	16.60	9.00	6.50	5.50	3.20	4.25	
23	1.30	5.75	8.25	28.40	39.95	22.60	14.80	9.00	6.50	5.25	3.20	3.40	
24	1.30	4.25	7.75	24.90	37.15	21.40	13.90	8.75	6.50	5.25	3.20	3.00	
25	1.20	8.00	8.75	23.50	36.45	21.40	13.30	8.75	6.50	5.00	3.00	5.75	
26	1.50	9.00	10.25	23.20	52.10	22.90	13.00	8.50	6.25	5.00	3.00	4.00	
27	1.40	5.75	10.00	21.40	43.10	23.50	13.00	8.75	6.25	5.00	3.00	3.40	
28	2.60	5.00	9.75	40.65	36.80	22.00	12.70	9.75	6.25	5.25	3.00	4.00	
29	3.60	4.75	8.00	84.55	35.75	27.70	12.40	9.25	6.00	5.25		3.60	
30	4.75	6.00	50.50	115.60	39.95	25.25	12.10	9.75	6.00	5.25		3.40	
31		10.25		96.25	58.90		12.40		6.00	5.00		3.00	
Total	58.10	227.15	346.85	1166.98	1506.55	1158.20	516.10	297.25	221.50	172.75	105.45	98.60	5875.48 CMSDAY
Mean	1.94	7.33	11.56	37.64	48.60	38.61	16.65	9.91	7.15	5.57	3.77	3.18	16.10 CMS
Max	4.75	24.55	50.50	137.58	114.70	107.05	23.20	11.50	9.00	6.00	4.75	5.75	137.58 CMS
Min	1.20	1.90	6.00	11.00	26.65	21.40	12.10	8.50	6.00	5.00	3.00	2.60	1.20 CMS
Runoff	5.020	19.626	29.968	100.827	130.166	100.068	44.591	25.682	19.138	14.926	9.111	8.519	507.642 MCM

Momentary Peak 184.50 CMS, at 5.00 M (A.D), at 14.00 Hours, on Jul 30, 1994

Runoff Yield 15.51 Liters/Second/Square KM, Momentary Peak Yield 177.75 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

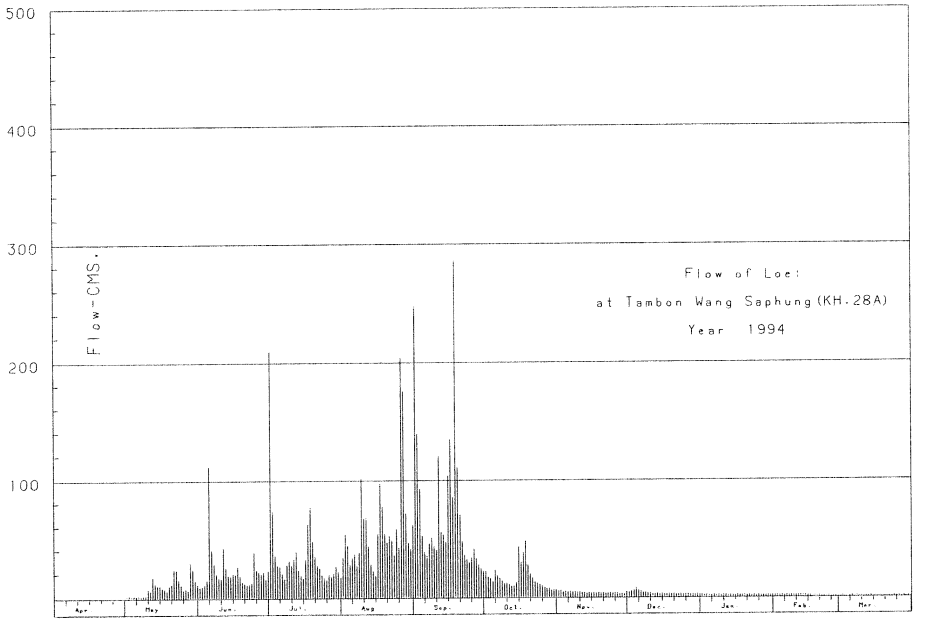
Loei River at Ban Na Lak, Loei (Kh.28A)

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	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.
Period of Available Gage Records	1994 to date.
Rating Operation	
Period of Rating	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stream gaging began on May 1,1994. Stage-discharge relation defined by 20 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	239.89	240.47	243.64	241.32	243.95	240.98	240.29	240.19	239.92	239.89	239.79	
2	*******	239.90	240.48	242.06	241.72	242.91	240.84	240.28	240.22	239.92	239.89	239.79	
3	*******	239.89	240.59	241.36	241.54	242.34	240.78	240.22	240.30	239.92	239.89	239.79	
4	*******	239.88	240.74	241.13	241.15	241.69	240.71	240.22	240.41	239.92	239.89	239.78	
5	*******	239.88	242.58	241.12	241.31	241.42	241.02	240.21	240.30	239.92	239.89	239.78	
6	*******	239.89	241.46	240.92	241.37	241.33	240.85	240.21	240.21	239.92	239.89	239.78	
7	*******	239.89	241.17	240.79	241.13	241.57	240.80	240.21	240.16	239.92	239.89	239.78	
8	*******	239.90	240.93	241.15	241.40	241.67	240.71	240.20	240.11	239.92	239.89	239.78	
9	*******	239.97	240.80	241.25	242.45	241.51	240.64	240.19	240.11	239.91	239.89	239.78	
10	*******	240.37	240.80	241.13	241.97	241.44	240.62	240.19	240.08	239.91	239.89	239.78	
11	*******	240.31	241.49	241.27	241.97	242.68	240.56	240.18	240.04	239.91	239.89	239.79	
12	*******	240.84	241.09	241.43	241.52	241.77	240.51	240.12	240.02	239.91	239.88	239.79	
13	*******	240.61	240.89	241.03	241.17	241.71	240.50	240.12	240.02	239.91	239.88	239.80	
14	*******	240.55	240.85	240.86	240.99	241.59	240.67	240.12	240.01	239.91	239.88	239.79	
15	*******	240.52	240.92	240.81	240.87	242.48	241.51	240.12	240.01	239.91	239.88	239.79	
16	*******	240.46	240.91	241.26	241.73	242.85	241.20	240.12	240.01	239.91	239.82	239.78	
17	*******	240.39	241.10	241.89	242.39	242.23	241.39	240.12	240.01	239.90	239.82	239.78	
18	*******	240.31	240.86	242.12	242.13	244.25	241.61	240.11	240.01	239.90	239.82	239.78	
19	*******	240.51	240.71	241.62	241.74	242.56	241.15	240.11	240.01	239.90	239.81	239.78	
20	*******	240.61	240.62	241.32	241.58	242.02	240.90	240.10	240.00	239.90	239.80	239.78	
21	*******	241.03	240.59	241.13	241.69	241.60	240.79	240.10	240.00	239.90	239.80	239.78	
22	*******	241.04	240.61	241.08	241.63	241.36	240.69	240.10	239.99	239.90	239.80	239.78	
23	*******	240.75	240.65	240.90	241.36	241.26	240.62	240.09	239.99	239.90	239.79	239.78	
24	*******	240.59	241.42	240.80	241.81	241.21	240.59	240.09	239.98	239.90	239.78	239.78	
25	*******	240.33	241.04	240.76	241.49	241.30	240.50	240.09	239.98	239.90	239.78	239.78	
26	*******	240.39	240.97	240.89	243.58	241.48	240.46	240.08	239.98	239.90	239.78	239.78	
27	*******	240.34	240.93	240.85	243.31	241.30	240.40	240.02	239.98	239.90	239.78	239.78	
28	*******	241.21	240.97	240.92	242.04	241.14	240.39	240.02	239.98	239.90	239.78	239.80	
29	*******	241.04	240.78	241.12	241.59	241.06	240.32	240.02	239.98	239.90		239.80	
30	*******	240.74	241.00	240.97	241.47	240.99	240.31	240.16	239.98	239.90		239.80	
31		240.57		240.83	241.86		240.30		239.98	239.89		239.80	
Mean	*******	240.41	240.95	241.24	241.72	241.89	240.75	240.14	240.07	239.91	239.85	239.79	
Max	*******	241.21	242.58	243.64	243.58	244.25	241.61	240.29	240.41	239.92	239.89	239.80	244.25
Min	*******	239.88	240.47	240.76	240.87	240.99	240.30	240.02	239.98	239.89	239.78	239.78	*******

Annual Max Momentary Gage Height 244.32 M (MSL), at 9.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 239.62 M (MSL), River Bed 239.23 M (MSL)
Left Bank Elevation 246.10 M (MSL)
Right Bank Elevation 245.40 M (MSL), Drainage Area 1262 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	1.93	9.40	210.40	34.90	247.50	22.40	6.35	4.90	2.20	1.93	1.25	
2	*******	2.00	9.60	73.60	54.00	139.90	18.20	6.20	5.30	2.20	1.93	1.25	
3	*******	1.93	11.80	36.70	45.00	93.20	16.40	5.30	6.50	2.20	1.93	1.25	
4	*******	1.86	15.20	27.55	28.25	52.50	14.30	5.30	8.20	2.20	1.93	1.20	
5	*******	1.86	112.40	27.20	34.45	39.40	23.70	5.15	6.50	2.20	1.93	1.20	
6	*******	1.93	41.20	20.60	37.15	35.35	18.50	5.15	5.15	2.20	1.93	1.20	
7	*******	1.93	28.95	16.70	27.55	46.50	17.00	5.15	4.60	2.20	1.93	1.20	
8	*******	2.00	20.90	28.25	38.50	51.50	14.30	5.00	4.10	2.20	1.93	1.20	
9	*******	2.70	17.00	32.00	102.00	43.50	12.80	4.90	4.10	2.10	1.93	1.20	
10	*******	7.55	17.00	27.55	68.20	40.30	12.40	4.90	3.80	2.10	1.93	1.20	
11	*******	6.65	42.55	32.80	68.20	120.40	11.20	4.80	3.40	2.10	1.93	1.25	
12	*******	18.20	26.15	39.85	44.00	56.50	10.20	4.20	3.20	2.10	1.86	1.25	
13	*******	12.20	19.70	24.05	28.95	53.50	10.00	4.20	3.20	2.10	1.86	1.30	
14	*******	11.00	18.50	18.80	22.70	47.50	13.40	4.20	3.10	2.10	1.86	1.25	
15	*******	10.40	20.60	17.30	19.10	104.40	43.50	4.20	3.10	2.10	1.86	1.25	
16	*******	9.20	20.30	32.40	54.50	134.50	30.00	4.20	3.10	2.10	1.44	1.20	
17	*******	7.85	26.50	63.40	97.20	85.10	38.05	4.20	3.10	2.00	1.44	1.20	
18	*******	6.65	18.80	77.40	78.10	286.50	48.50	4.10	3.10	2.00	1.44	1.20	
19	*******	10.20	14.30	49.00	55.00	110.80	28.25	4.10	3.10	2.00	1.37	1.20	
20	*******	12.20	12.40	34.90	47.00	71.20	20.00	4.00	3.00	2.00	1.30	1.20	
21	*******	24.05	11.80	27.55	52.50	48.00	16.70	4.00	3.00	2.00	1.30	1.20	
22	*******	24.40	12.20	25.80	49.50	36.70	13.80	4.00	2.90	2.00	1.30	1.20	
23	*******	15.50	13.00	20.00	36.70	32.40	12.40	3.90	2.90	2.00	1.25	1.20	
24	*******	11.80	39.40	17.00	58.60	30.40	11.80	3.90	2.80	2.00	1.20	1.20	
25	*******	6.95	24.40	15.80	42.55	34.00	10.00	3.90	2.80	2.00	1.20	1.20	
26	*******	7.85	22.10	19.70	203.80	42.10	9.20	3.80	2.80	2.00	1.20	1.20	
27	*******	7.10	20.90	18.50	176.00	34.00	8.00	3.20	2.80	2.00	1.20	1.20	
28	*******	30.40	22.10	20.60	72.40	27.90	7.85	3.20	2.80	2.00	1.20	1.30	
29	*******	24.40	16.40	27.20	47.50	25.10	6.80	3.20	2.80	2.00		1.30	
30	*******	15.20	23.00	22.10	41.65	22.70	6.65	4.60	2.80	2.00		1.30	
31		11.40		17.90	61.60		6.50		2.80	1.93		1.30	
Total	*******	309.29	708.55	1122.60	1827.55	2193.35	532.80	133.30	115.75	64.33	45.51	38.05	******** CMSDAY
Mean	*******	9.98	23.62	36.21	58.95	73.11	17.19	4.44	3.73	2.08	1.63	1.23	******** CMS
Max	*******	30.40	112.40	210.40	203.80	286.50	48.50	6.35	8.20	2.20	1.93	1.30	286.50 CMS
Min	*******	1.86	9.40	15.80	19.10	22.70	6.50	3.20	2.80	1.93	1.20	1.20	******** CMS
Runoff	*******	26.723	61.219	96.993	157.900	189.505	46.034	11.517	10.001	5.558	3.932	3.288	******** MCM

Momentary Peak 295.80 CMS, at 244.32 M (MSL), at 9.00 Hours, on Sep 18, 1994

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield 234.39 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

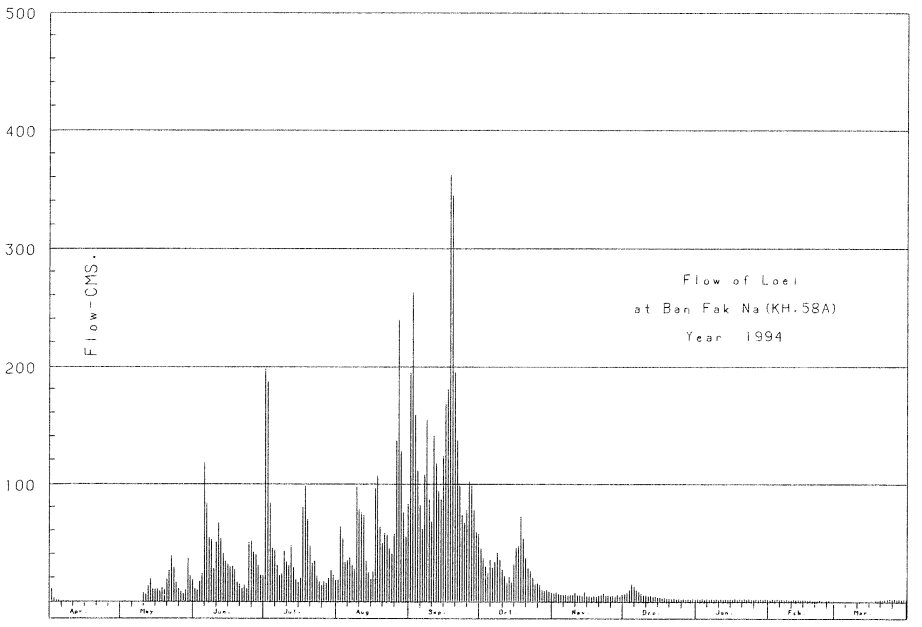
Loei River at Ban Fak Na, Loei (Kh.58A)

Location	Lat. 17°-29'-35" N., Long. 101°-44'-19" E., on left bank at the bridge on road, Ban Fak Na, Amphoe Muang, Loei.
Drainage Area	3,101 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+229.00 m.(M.S.L.)
Bench Mark	B.M.-Highways Dept.
Location	On left bank upstream side at the abutment of the bridge.
Elevation	+240.622 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.77	229.87	230.79	234.10	231.04	234.06	231.78	230.60	230.58	230.28	230.23	230.14	
2	230.32	230.17	230.70	233.97	232.16	234.81	231.56	230.63	230.60	230.28	230.25	230.13	
3	230.20	230.06	231.00	232.51	231.97	233.62	231.40	230.57	230.74	230.28	230.26	230.12	
4	230.15	229.98	231.20	231.77	231.47	232.97	231.22	230.52	230.91	230.27	230.26	230.10	
5	230.12	229.92	233.07	231.73	231.51	232.48	231.52	230.52	230.85	230.27	230.26	230.08	
6	230.10	229.89	232.50	231.42	231.58	232.13	231.37	230.52	230.71	230.26	230.25	230.07	
7	230.08	229.88	231.99	231.17	231.42	232.90	231.48	230.51	230.67	230.26	230.24	230.06	
8	230.03	229.94	231.94	231.20	231.33	233.56	231.69	230.51	230.58	230.25	230.24	230.06	
9	230.01	230.10	231.35	231.72	232.74	232.56	231.54	230.52	230.52	230.26	230.23	230.05	
10	229.98	230.59	231.90	231.48	232.42	232.24	231.33	230.61	230.50	230.26	230.23	230.04	
11	229.98	230.55	232.23	231.40	232.37	233.39	231.14	230.51	230.48	230.26	230.23	230.03	
12	229.97	230.87	231.95	231.83	232.34	233.06	230.96	230.50	230.46	230.26	230.22	230.06	
13	229.96	231.07	231.67	231.37	231.51	232.67	231.11	230.49	230.44	230.26	230.21	230.11	
14	229.96	230.74	231.49	231.04	231.24	232.56	230.96	230.64	230.43	230.27	230.21	230.13	
15	230.04	230.74	231.44	230.98	231.07	233.14	231.44	230.47	230.42	230.27	230.20	230.14	
16	230.02	230.74	231.37	231.10	231.27	233.75	231.78	230.45	230.38	230.27	230.20	230.15	
17	230.03	230.70	231.40	232.44	232.72	233.89	231.82	230.44	230.36	230.27	230.20	230.13	
18	230.03	230.79	231.32	232.75	232.89	235.73	232.32	230.45	230.35	230.27	230.20	230.14	
19	230.02	230.73	230.98	232.27	232.16	235.59	231.97	230.44	230.32	230.27	230.19	230.19	
20	229.98	231.06	230.91	231.83	231.88	234.07	231.57	230.47	230.31	230.27	230.19	230.21	
21	229.96	231.29	230.80	231.45	232.05	233.34	231.36	230.53	230.31	230.28	230.19	230.22	
22	229.96	231.60	230.88	231.51	232.03	232.78	231.28	230.57	230.32	230.28	230.19	230.22	
23	229.92	231.37	230.80	231.14	231.76	232.34	231.11	230.50	230.30	230.27	230.19	230.27	
24	230.02	230.95	231.88	231.00	231.66	232.22	230.91	230.49	230.28	230.27	230.18	230.27	
25	229.99	230.80	231.92	230.90	232.04	232.40	230.95	230.47	230.28	230.26	230.18	230.27	
26	229.97	230.65	231.68	230.98	233.34	232.81	230.88	230.46	230.27	230.26	230.18	230.27	
27	229.92	230.57	231.64	230.95	234.57	232.77	230.74	230.44	230.26	230.26	230.15	230.25	
28	229.88	230.71	231.40	231.08	233.20	232.41	230.67	230.51	230.26	230.26	230.15	230.24	
29	229.87	231.56	231.17	231.31	232.38	232.08	230.75	230.47	230.27	230.26		230.24	
30	229.88	231.14	231.15	231.16	232.00	232.04	230.65	230.52	230.28	230.26		230.24	
31		231.03		231.02	232.49		230.61		230.28	230.26		230.24	
Mean	230.04	230.65	231.48	231.63	232.08	233.15	231.29	230.51	230.44	230.27	230.21	230.16	
Max	230.77	231.60	233.07	234.10	234.57	235.73	232.32	230.64	230.91	230.28	230.26	230.27	235.73
Min	229.87	229.87	230.70	230.90	231.04	232.04	230.61	230.44	230.26	230.25	230.15	230.03	229.87

Annual Max Momentary Gage Height 236.16 M (MSL), at 18.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 229.00 M (MSL), River Bed 229.51 M (MSL)
Left Bank Elevation 240.62 M (MSL)
Right Bank Elevation 240.62 M (MSL), Drainage Area 3101 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.40	0.14	11.80	198.00	19.20	194.80	46.20	8.00	7.60	2.80	2.30	1.40	
2	3.30	1.70	10.00	187.60	64.00	263.00	37.40	8.60	8.00	2.80	2.50	1.30	
3	2.00	0.80	18.00	84.60	54.65	159.60	31.00	7.40	10.80	2.80	2.60	1.20	
4	1.50	0.44	24.00	45.80	33.80	112.20	24.60	6.40	15.30	2.70	2.60	1.00	
5	1.20	0.26	118.90	44.20	35.40	82.80	35.80	6.40	13.50	2.70	2.60	0.90	
6	1.00	0.18	84.00	31.80	38.20	62.50	29.80	6.40	10.20	2.60	2.50	0.85	
7	0.90	0.16	55.55	23.10	31.80	108.00	34.20	6.20	9.40	2.60	2.40	0.80	
8	0.65	0.32	53.30	24.00	28.20	154.80	42.60	6.20	7.60	2.50	2.40	0.80	
9	0.55	1.00	29.00	43.80	98.40	87.60	36.60	6.40	6.40	2.60	2.30	0.75	
10	0.44	7.80	51.50	34.20	79.20	68.40	28.20	8.20	6.00	2.60	2.30	0.70	
11	0.44	7.00	67.80	31.00	76.20	141.30	22.20	6.20	5.70	2.60	2.30	0.65	
12	0.41	14.10	53.75	48.35	74.40	118.20	16.80	6.00	5.40	2.60	2.20	0.80	
13	0.38	20.10	41.80	29.80	35.40	94.20	21.30	5.85	5.10	2.60	2.10	1.10	
14	0.38	10.80	34.60	19.20	25.20	87.60	16.80	8.80	4.95	2.70	2.10	1.30	
15	0.70	10.80	32.60	17.40	20.10	123.80	32.60	5.55	4.80	2.70	2.00	1.40	
16	0.60	10.80	29.80	21.00	26.10	170.00	46.20	5.25	4.20	2.70	2.00	1.50	
17	0.65	10.00	31.00	80.40	97.20	181.20	47.90	5.10	3.90	2.70	2.00	1.30	
18	0.65	11.80	27.80	99.00	107.40	362.60	73.20	5.25	3.75	2.70	2.00	1.40	
19	0.60	10.60	17.40	70.20	64.00	345.90	54.65	5.10	3.30	2.70	1.90	1.90	
20	0.44	19.80	15.30	48.35	50.60	195.60	37.80	5.55	3.15	2.70	1.90	2.10	
21	0.38	26.70	12.00	33.00	58.50	137.80	29.40	6.60	3.15	2.80	1.90	2.20	
22	0.38	39.00	14.40	35.40	57.50	100.80	26.40	7.40	3.30	2.80	1.90	2.20	
23	0.26	29.80	12.00	22.20	45.40	74.40	21.30	6.00	3.00	2.70	1.90	2.70	
24	0.60	16.50	50.60	18.00	41.40	67.20	15.30	5.85	2.80	2.70	1.80	2.70	
25	0.47	12.00	52.40	15.00	58.00	78.00	16.50	5.55	2.80	2.60	1.80	2.70	
26	0.41	9.00	42.20	17.40	137.80	102.60	14.40	5.40	2.70	2.60	1.80	2.70	
27	0.26	7.40	40.60	16.50	240.30	100.20	10.80	5.10	2.60	2.60	1.50	2.50	
28	0.16	10.20	31.00	20.40	128.00	78.60	9.40	6.20	2.60	2.60	1.50	2.40	
29	0.14	37.40	23.10	27.40	76.80	60.00	11.00	5.55	2.70	2.60		2.40	
30	0.16	22.20	22.50	22.80	56.00	58.00	9.00	6.40	2.80	2.60		2.40	
31		18.90		18.60	83.40		8.20		2.80	2.60		2.40	
Total	31.41	367.70	1108.70	1428.50	2042.55	3971.70	887.55	188.90	170.30	82.60	59.10	50.45	10389.46 CMSDAY
Mean	1.05	11.86	36.96	46.08	65.89	132.39	28.63	6.30	5.49	2.66	2.11	1.63	28.46 CMS
Max	11.40	39.00	118.90	198.00	240.30	362.60	73.20	8.80	15.30	2.80	2.60	2.70	362.60 CMS
Min	0.14	0.14	10.00	15.00	19.20	58.00	8.20	5.10	2.60	2.50	1.50	0.65	0.14 CMS
Runoff	2.714	31.769	95.792	123.422	176.476	343.155	76.684	16.321	14.714	7.137	5.106	4.359	897.649 MCM

Momentary Peak 414.20 CMS, at 236.16 M (MSL), at 18.00 Hours, on Sep 18, 1994

Runoff Yield 9.18 Liters/Second/Square KM, Momentary Peak Yield 133.57 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

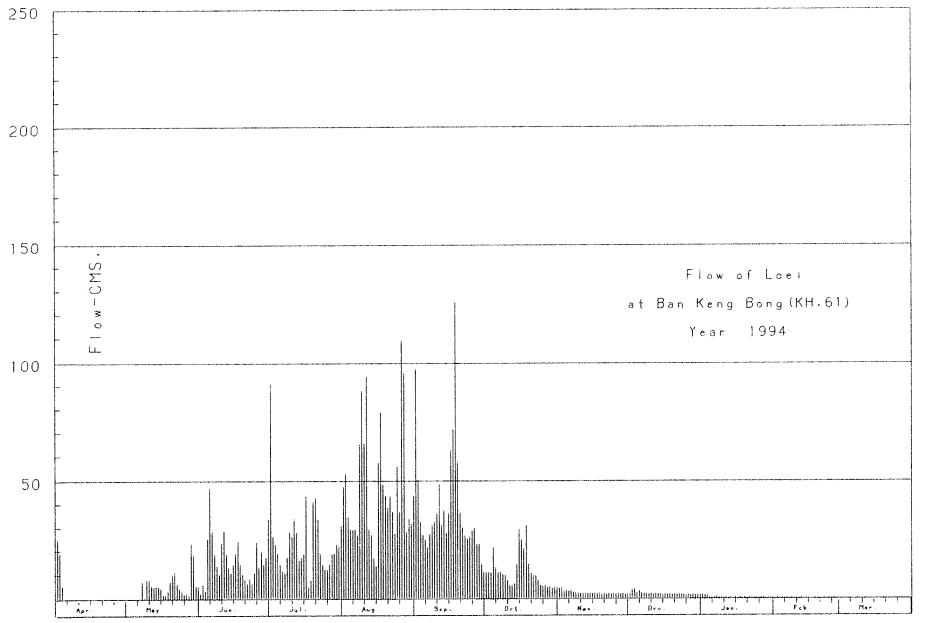
Loei River at Ban Keng Bong, Loei (Kh.61)

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 good. Stage-discharge relation defined by 20 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.26	258.69	258.86	260.60	259.76	260.71	259.06	258.94	258.87	258.84	258.77	258.74	
2	259.16	258.67	258.97	259.29	259.86	259.81	259.06	258.94	258.92	258.84	258.77	258.73	
3	258.96	258.66	258.91	259.21	259.48	259.43	259.06	258.91	258.93	258.84	258.77	258.73	
4	258.55	258.66	259.27	259.16	259.36	259.31	259.19	258.91	258.87	258.79	258.77	258.73	
5	258.72	258.66	259.74	259.11	259.36	259.26	259.09	258.91	258.91	258.79	258.76	258.73	
6	258.64	258.66	259.34	259.07	259.36	259.19	259.06	258.91	258.87	258.79	258.76	258.73	
7	258.64	259.00	259.16	259.06	259.31	259.31	259.06	258.90	258.87	258.79	258.76	258.73	
8	258.56	258.72	259.10	259.14	260.11	259.40	259.05	258.88	258.86	258.79	258.76	258.72	
9	258.55	259.01	259.05	259.34	260.54	259.43	259.04	258.88	258.86	258.79	258.76	258.72	
10	258.55	259.01	259.22	259.29	260.12	259.51	259.01	258.87	258.86	258.78	258.76	258.72	
11	258.55	258.96	259.35	259.46	260.66	259.78	258.96	258.87	258.86	258.78	258.76	258.72	
12	258.55	258.96	259.16	259.33	259.36	259.40	258.96	258.87	258.86	258.78	258.76	258.72	
13	258.55	258.95	259.09	259.13	259.31	259.54	258.98	258.87	258.86	258.78	258.76	258.72	
14	258.64	258.95	259.06	259.14	259.14	259.33	259.11	258.87	258.85	258.78	258.76	258.72	
15	258.68	258.93	259.11	259.16	259.10	259.51	259.36	258.87	258.85	258.78	258.76	258.71	
16	258.65	258.85	259.16	259.67	259.96	260.06	259.26	258.87	258.85	258.78	258.75	258.66	
17	258.65	258.83	259.25	258.94	260.38	260.24	259.18	258.87	258.85	258.78	258.75	258.66	
18	258.68	258.91	259.11	259.01	259.77	261.20	259.40	258.87	258.85	258.77	258.74	258.66	
19	258.58	259.00	259.05	259.62	259.68	259.96	259.11	258.86	258.85	258.77	258.74	258.65	
20	258.55	259.05	259.01	259.66	259.56	259.52	259.06	258.86	258.85	258.77	258.74	258.65	
21	258.55	259.06	258.98	259.46	259.67	259.38	259.04	258.86	258.85	258.77	258.74	258.65	
22	258.55	258.98	259.02	259.16	259.53	259.30	259.04	258.86	258.85	258.77	258.74	258.65	
23	258.66	258.93	258.98	259.11	259.32	259.27	259.01	258.86	258.85	258.77	258.74	258.65	
24	258.66	258.91	259.06	259.08	259.93	259.29	258.97	258.86	258.84	258.77	258.74	258.65	
25	258.66	258.86	259.23	259.08	259.52	259.35	258.96	258.86	258.84	258.77	258.74	258.65	
26	258.66	258.86	259.09	259.11	260.93	259.37	258.96	258.86	258.84	258.77	258.74	258.65	
27	258.68	258.84	259.17	259.16	260.68	259.21	258.95	258.86	258.84	258.77	258.74	258.65	
28	258.67	259.22	259.11	259.16	259.33	259.21	258.95	258.86	258.84	258.77	258.74	258.65	
29	258.67	259.15	259.14	259.21	259.46	259.11	258.94	258.85	258.84	258.77		258.65	
30	258.67	258.96	259.46	259.19	259.41	259.06	258.94	258.85	258.84	258.77		258.65	
31		258.95		259.39	259.68		258.94		258.84	258.77		258.65	
Mean	258.67	258.90	259.14	259.27	259.73	259.55	259.06	258.88	258.86	258.78	258.75	258.69	
Max	259.26	259.22	259.74	260.60	260.93	261.20	259.40	258.94	258.93	258.84	258.77	258.74	261.20
Min	258.55	258.66	258.86	258.94	259.10	259.06	258.94	258.85	258.84	258.77	258.74	258.65	258.55

Annual Max Momentary Gage Height 261.86 M (MSL), at 6.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 258.36 M (MSL), River Bed 258.53 M (MSL)
Left Bank Elevation 272.00 M (MSL)
Right Bank Elevation 226.85 M (MSL), Drainage Area 562 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.40	0.27	2.32	91.50	48.00	97.55	11.40	4.92	2.54	1.88	0.79	0.58	
2	19.40	0.21	6.21	26.60	53.00	50.50	11.40	4.92	4.06	1.88	0.79	0.51	
3	5.78	0.18	3.63	23.40	35.10	32.85	11.40	3.63	4.49	1.88	0.79	0.51	
4	0.00	0.18	25.80	19.40	29.70	27.45	22.10	3.63	2.54	0.93	0.79	0.51	
5	0.44	0.18	47.00	14.90	29.70	25.40	13.35	3.63	3.63	0.93	0.72	0.51	
6	0.12	0.18	28.80	12.05	29.70	22.10	11.40	3.63	2.54	0.93	0.72	0.51	
7	0.12	7.50	19.40	11.40	27.45	27.45	11.40	3.20	2.54	0.93	0.72	0.51	
8	0.00	0.44	14.00	17.60	65.50	31.50	10.75	2.76	2.32	0.93	0.72	0.44	
9	0.00	8.15	10.75	28.80	88.20	32.85	10.10	2.76	2.32	0.93	0.72	0.44	
10	0.00	8.15	23.80	26.60	66.00	36.45	8.15	2.54	2.32	0.86	0.72	0.44	
11	0.00	5.78	29.25	34.20	94.80	49.00	5.78	2.54	2.32	0.86	0.72	0.44	
12	0.00	5.78	19.40	28.35	29.70	31.50	5.78	2.54	2.32	0.86	0.72	0.44	
13	0.00	5.35	13.35	16.70	27.45	37.80	6.64	2.54	2.32	0.86	0.72	0.44	
14	0.12	5.35	11.40	17.60	17.60	28.35	14.90	2.54	2.10	0.86	0.72	0.44	
15	0.24	4.49	14.90	19.40	14.00	36.45	29.70	2.54	2.10	0.86	0.72	0.37	
16	0.15	2.10	19.40	43.65	58.00	63.00	25.40	2.54	2.10	0.86	0.65	0.18	
17	0.15	1.66	25.00	4.92	79.40	72.00	21.20	2.54	2.10	0.86	0.65	0.18	
18	0.24	3.63	14.90	8.15	48.50	126.00	31.50	2.54	2.10	0.79	0.58	0.18	
19	0.00	7.50	10.75	41.40	44.10	58.00	14.90	2.32	2.10	0.79	0.58	0.15	
20	0.00	10.75	8.15	43.20	38.70	36.90	11.40	2.32	2.10	0.79	0.58	0.15	
21	0.00	11.40	6.64	34.20	43.65	30.60	10.10	2.32	2.10	0.79	0.58	0.15	
22	0.00	6.64	8.80	19.40	37.35	27.00	10.10	2.32	2.10	0.79	0.58	0.15	
23	0.18	4.49	6.64	14.90	27.90	25.80	8.15	2.32	2.10	0.79	0.58	0.15	
24	0.18	3.63	11.40	12.70	56.50	26.60	6.21	2.32	1.88	0.79	0.58	0.15	
25	0.18	2.32	24.20	12.70	36.90	29.25	5.78	2.32	1.88	0.79	0.58	0.15	
26	0.18	2.32	13.35	14.90	109.80	30.15	5.78	2.32	1.88	0.79	0.58	0.15	
27	0.24	1.88	20.30	19.40	95.90	23.40	5.35	2.32	1.88	0.79	0.58	0.15	
28	0.21	23.80	14.90	19.40	28.35	23.40	5.35	2.32	1.88	0.79	0.58	0.15	
29	0.21	18.50	17.60	23.40	34.20	14.90	4.92	2.10	1.88	0.79		0.15	
30	0.21	5.78	34.20	22.10	31.95	11.40	4.92	2.10	1.88	0.79		0.15	
31		5.35		31.05	44.10		4.92		1.88	0.79		0.15	
Total	53.75	163.94	506.24	753.97	1471.20	1165.60	360.23	83.34	72.30	29.16	18.76	9.58	4688.07 CMSDAY
Mean	1.79	5.29	16.87	24.32	47.46	38.85	11.62	2.78	2.33	0.94	0.67	0.31	12.84 CMS
Max	25.40	23.80	47.00	91.50	109.80	126.00	31.50	4.92	4.49	1.88	0.79	0.58	126.00 CMS
Min	0.00	0.18	2.32	4.92	14.00	11.40	4.92	2.10	1.88	0.79	0.58	0.15	0.00 CMS
Runoff	4.644	14.164	43.739	65.143	127.112	100.708	31.124	7.201	6.247	2.519	1.621	0.828	405.049 MCM

Momentary Peak 165.60 CMS, at 261.86 M (MSL), at 6.00 Hours, on Sep 18, 1994

Runoff Yield 22.85 Liters/Second/Square KM, Momentary Peak Yield 294.66 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

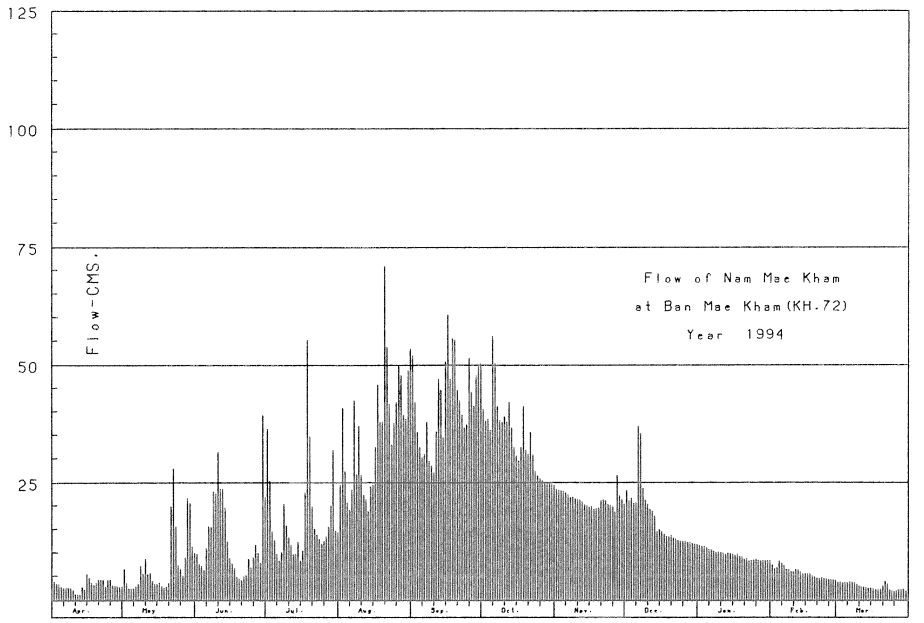
Nam Mae Kham at Ban Mae Kham, Chiang Rai (Kh.72)

Location	Lat. 20-13-03 N., Long. 99-51-38 E., on right bank at the bridge of Mae Chan - Mae Sai Highway, Tambon Mae Kham, 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.-H.D.
Location	On right bank about 20 meters from the top staff gage.
Elevation	+6.245 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	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 47 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.24	1.48	1.68	2.75	2.34	3.19	2.89	2.31	2.30	1.94	1.73	1.51	
2	1.20	1.21	1.55	2.38	2.90	2.93	2.81	2.30	2.21	1.93	1.68	1.51	
3	1.18	1.09	1.52	1.93	2.45	2.73	2.82	2.30	2.23	1.93	1.70	1.50	
4	1.13	1.07	1.46	1.84	2.19	2.62	2.74	2.29	2.19	1.92	1.77	1.50	
5	1.10	1.09	1.75	1.68	2.13	2.55	3.30	2.28	2.19	1.90	1.75	1.50	
6	1.10	1.13	1.98	1.60	2.30	2.57	3.15	2.26	2.77	1.90	1.72	1.51	
7	1.10	1.20	1.97	1.70	2.94	2.80	2.91	2.24	2.72	1.88	1.68	1.51	
8	1.09	1.52	2.29	2.18	2.43	2.52	2.81	2.24	2.32	1.87	1.67	1.50	
9	1.04	1.41	2.27	1.99	2.77	2.49	2.80	2.23	2.22	1.87	1.65	1.48	
10	0.90	1.62	2.59	1.87	2.42	2.44	2.84	2.22	2.18	1.87	1.65	1.45	
11	0.90	1.39	2.31	1.79	2.26	2.73	2.80	2.22	2.14	1.86	1.67	1.44	
12	0.90	1.42	2.31	1.68	2.22	3.06	2.93	2.20	2.12	1.85	1.67	1.44	
13	1.12	1.27	2.15	1.68	2.12	3.00	2.76	2.18	2.08	1.86	1.64	1.43	
14	1.04	1.19	1.83	1.82	2.33	2.69	2.62	2.17	2.06	1.86	1.62	1.42	
15	1.40	1.19	1.63	1.60	2.34	3.16	2.56	2.16	2.08	1.85	1.62	1.42	
16	1.33	1.22	1.56	1.72	2.62	3.42	2.52	2.16	2.06	1.84	1.62	1.41	
17	1.22	1.14	1.49	2.28	3.03	3.06	2.62	2.14	2.04	1.85	1.62	1.40	
18	1.17	1.10	1.35	3.28	2.80	3.29	2.91	2.14	2.02	1.83	1.59	1.40	
19	1.22	1.13	1.31	2.70	2.80	3.28	2.60	2.15	2.02	1.82	1.58	1.40	
20	1.30	1.21	1.28	2.16	3.66	3.00	2.57	2.21	2.03	1.80	1.56	1.45	
21	1.28	2.16	1.35	1.96	3.24	2.94	2.73	2.22	2.01	1.80	1.56	1.52	
22	1.29	2.47	1.38	1.90	2.92	2.85	2.57	2.21	2.00	1.78	1.57	1.49	
23	1.13	1.98	1.62	1.85	2.64	2.76	2.45	2.18	1.99	1.78	1.56	1.39	
24	1.28	1.53	1.50	1.80	2.79	2.78	2.42	2.17	1.98	1.79	1.55	1.38	
25	1.29	1.47	1.64	1.83	2.93	3.18	2.40	2.16	1.98	1.80	1.55	1.37	
26	1.16	1.37	1.79	1.88	3.14	2.99	2.38	2.11	1.98	1.78	1.54	1.38	
27	1.14	1.64	1.69	1.98	3.08	2.91	2.36	2.42	1.97	1.78	1.54	1.40	
28	1.14	2.23	1.57	2.17	2.85	3.08	2.36	2.25	1.97	1.78	1.53	1.40	
29	1.11	2.19	2.85	2.60	2.82	3.14	2.36	2.22	1.96	1.78		1.41	
30	1.13	1.77	2.24	1.94	3.11	3.15	2.35	2.18	1.95	1.78		1.37	
31		1.69		1.92	3.23		2.34		1.95	1.78		1.35	
Mean	1.15	1.47	1.80	2.01	2.70	2.91	2.67	2.22	2.12	1.84	1.63	1.44	
Max	1.40	2.47	2.85	3.28	3.66	3.42	3.30	2.42	2.77	1.94	1.77	1.52	3.66
Min	0.90	1.07	1.28	1.60	2.12	2.44	2.34	2.11	1.95	1.78	1.53	1.35	0.90

Annual Max Momentary Gage Height 3.98 M (A.D), at 17.00 Hours, on Aug 20, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.68 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.96	6.72	9.86	36.50	24.50	52.02	40.70	23.75	23.50	11.78	7.64	4.00	
2	3.60	3.69	7.75	25.50	41.00	42.14	38.30	23.50	21.25	11.56	6.76	4.00	
3	3.42	2.63	7.30	14.66	27.50	35.90	38.60	23.50	21.75	11.56	7.10	3.85	
4	2.97	2.49	6.44	12.80	20.75	32.60	36.20	23.25	20.75	11.34	8.36	3.85	
5	2.70	2.63	11.10	9.86	19.25	30.50	56.20	23.00	20.75	10.90	8.00	3.85	
6	2.70	2.97	15.76	8.50	23.50	31.10	50.50	22.50	37.10	10.90	7.46	4.00	
7	2.70	3.60	15.54	10.20	42.52	38.00	41.38	22.00	35.60	10.50	6.76	4.00	
8	2.63	7.30	23.25	20.50	26.90	29.60	38.30	22.00	24.00	10.30	6.59	3.85	
9	2.28	5.74	22.75	15.98	37.10	28.70	38.00	21.75	21.50	10.30	6.25	3.56	
10	1.30	8.84	31.70	13.40	26.60	27.20	39.20	21.50	20.50	10.30	6.25	3.13	
11	1.30	5.49	23.75	11.82	22.50	35.90	38.00	21.50	19.50	10.10	6.59	2.98	
12	1.30	5.88	23.75	9.86	21.50	47.08	42.14	21.00	19.00	9.90	6.59	2.98	
13	2.88	4.23	19.75	9.86	19.00	44.80	36.80	20.50	18.04	10.10	6.08	2.83	
14	2.28	3.51	12.60	12.40	24.25	34.70	32.60	20.25	14.66	10.10	5.74	2.69	
15	5.60	3.51	9.01	8.50	24.50	50.88	30.80	20.00	15.18	9.90	5.74	2.69	
16	4.83	3.78	7.90	10.56	32.60	60.84	29.60	20.00	14.66	9.70	5.74	2.54	
17	3.78	3.06	6.86	23.00	45.94	47.08	32.60	19.50	14.14	9.90	5.74	2.40	
18	3.33	2.70	5.05	55.44	38.00	55.82	41.38	19.50	13.62	9.50	5.25	2.40	
19	3.78	2.97	4.61	35.00	38.00	55.44	32.00	19.75	13.62	9.30	5.09	2.40	
20	4.50	3.69	4.32	20.00	71.08	44.80	31.10	21.25	13.88	8.90	4.78	3.13	
21	4.32	20.00	5.05	15.32	53.92	42.52	35.90	21.50	13.36	8.90	4.78	4.16	
22	4.41	28.10	5.38	14.00	41.76	39.50	31.10	21.25	13.10	8.54	4.94	3.71	
23	2.97	15.76	8.84	13.00	33.20	36.80	27.50	20.50	12.88	8.54	4.78	2.28	
24	4.32	7.45	7.00	12.00	37.70	37.40	26.60	20.25	12.66	8.72	4.62	2.15	
25	4.41	6.58	9.18	12.60	42.14	51.64	26.00	20.00	12.66	8.90	4.62	2.03	
26	3.24	5.27	11.82	13.60	50.12	44.42	25.50	18.75	12.66	8.54	4.47	2.15	
27	3.06	9.18	10.03	15.76	47.84	41.38	25.00	26.60	12.44	8.54	4.47	2.40	
28	3.06	21.75	8.05	20.25	39.50	47.84	25.00	22.25	12.44	8.54	4.31	2.40	
29	2.79	20.75	39.50	32.00	38.60	50.12	25.00	21.50	12.22	8.54		2.54	
30	2.97	11.46	22.00	14.88	48.98	50.50	24.75	20.50	12.00	8.54		2.03	
31		10.03		14.44	53.54		24.50		12.00	8.54		1.78	
Total	97.39	241.76	395.90	542.19	1114.29	1267.22	1061.25	643.10	541.42	301.68	165.50	92.76	6464.46 CMSDAY
Mean	3.25	7.80	13.20	17.49	35.94	42.24	34.23	21.44	17.47	9.73	5.91	2.99	17.71 CMS
Max	5.60	28.10	39.50	55.44	71.08	60.84	56.20	26.60	37.10	11.78	8.36	4.16	71.08 CMS
Min	1.30	2.49	4.32	8.50	19.00	27.20	24.50	18.75	12.00	8.54	4.31	1.78	1.30 CMS
Runoff	8.414	20.888	34.206	46.845	96.275	109.488	91.692	55.564	46.779	26.065	14.299	8.014	558.529 MCM

Momentary Peak 85.02 CMS, at 3.98 M (A.D), at 17.00 Hours, on Aug 20, 1994
Runoff Yield 27.50 Liters/Second/Square KM, Momentary Peak Yield 132.02 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

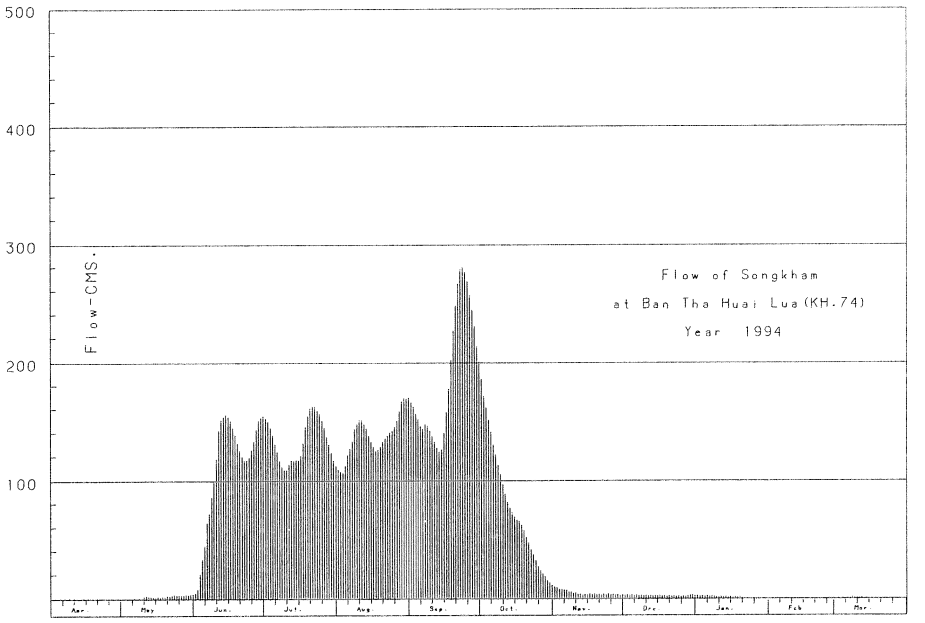
Songkram River at Ban Tha Huai Lua, Sakon Nakhon (Kh.74)

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, 09.0o, 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	Overbank flow starts at elevation + 5.46 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 100 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.90	1.90	2.15	8.52	7.58	8.72	8.96	2.33	2.05	2.02	1.90	1.89	
2	1.90	1.90	2.24	8.47	7.52	8.66	8.80	2.29	2.05	2.02	1.90	1.90	
3	1.90	1.90	2.66	8.39	7.51	8.58	8.65	2.26	2.05	2.01	1.90	1.91	
4	1.90	1.90	3.40	8.27	7.68	8.50	8.50	2.24	2.05	2.01	1.90	1.91	
5	1.90	1.90	4.03	8.13	7.92	8.41	8.32	2.24	2.04	2.01	1.90	1.90	
6	1.90	1.90	4.97	7.97	8.03	8.36	8.12	2.22	2.04	2.01	1.90	1.90	
7	1.90	1.90	6.03	7.80	8.18	8.44	7.92	2.18	2.04	2.01	1.90	1.91	
8	1.91	1.91	6.78	7.64	8.36	8.41	7.70	2.16	2.03	2.00	1.90	1.95	
9	1.91	1.93	7.28	7.58	8.44	8.34	7.46	2.14	2.03	1.97	1.90	1.94	
10	1.90	1.97	7.83	7.56	8.49	8.25	7.19	2.13	2.03	1.97	1.89	1.94	
11	1.90	2.04	8.35	7.71	8.49	8.16	6.87	2.10	2.03	1.97	1.89	1.93	
12	1.90	2.00	8.49	7.79	8.44	8.06	6.60	2.08	2.02	1.97	1.89	1.92	
13	1.90	1.96	8.54	7.80	8.37	7.97	6.35	2.07	2.02	1.96	1.89	1.92	
14	1.90	1.96	8.56	7.80	8.27	8.03	6.09	2.07	2.02	1.96	1.89	1.92	
15	1.90	1.96	8.54	7.81	8.17	8.31	5.79	2.08	2.02	1.95	1.89	1.92	
16	1.90	1.96	8.48	7.89	8.07	8.60	5.44	2.10	2.02	1.95	1.89	1.92	
17	1.90	1.97	8.39	8.15	8.00	8.86	5.13	2.09	2.02	1.95	1.89	1.91	
18	1.90	1.97	8.27	8.39	8.01	9.12	4.88	2.09	2.01	1.96	1.88	1.89	
19	1.90	1.98	8.15	8.55	8.08	9.32	4.65	2.08	2.01	1.96	1.88	1.88	
20	1.91	2.01	8.00	8.64	8.16	9.45	4.40	2.07	2.01	1.95	1.88	1.88	
21	1.90	2.03	7.89	8.67	8.22	9.56	4.14	2.07	2.01	1.94	1.88	1.88	
22	1.90	2.05	7.81	8.66	8.27	9.62	3.87	2.08	2.00	1.92	1.88	1.88	
23	1.90	2.06	7.80	8.62	8.31	9.63	3.63	2.08	2.00	1.90	1.88	1.87	
24	1.90	2.06	7.87	8.57	8.34	9.61	3.38	2.09	2.00	1.90	1.88	1.87	
25	1.90	2.05	8.01	8.49	8.39	9.57	3.07	2.08	2.00	1.90	1.87	1.88	
26	1.90	2.04	8.17	8.38	8.49	9.50	2.83	2.07	2.00	1.90	1.88	1.88	
27	1.90	2.05	8.36	8.25	8.61	9.43	2.68	2.07	2.00	1.90	1.88	1.89	
28	1.91	2.07	8.48	8.11	8.72	9.34	2.55	2.06	2.02	1.89	1.88	1.89	
29	1.91	2.07	8.53	7.97	8.77	9.22	2.48	2.05	2.06	1.89		1.89	
30	1.91	2.07	8.54	7.79	8.75	9.10	2.42	2.05	2.05	1.89		1.88	
31		2.09		7.68	8.77		2.36		2.04	1.89		1.88	
Mean	1.90	1.99	7.09	8.13	8.24	8.84	5.52	2.12	2.02	1.95	1.89	1.90	
Max	1.91	2.09	8.56	8.67	8.77	9.63	8.96	2.33	2.06	2.02	1.90	1.95	9.63
Min	1.90	1.90	2.15	7.56	7.51	7.97	2.36	2.05	2.00	1.89	1.87	1.87	1.87

Annual Max Momentary Gage Height 9.64 M (A.D), at 18.00 Hours, on Sep 22, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.28 M (A.D)
Left Bank Elevation 5.35 M (A.D)
Right Bank Elevation 5.45 M (A.D), Drainage Area 2145 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	1.00	5.75	153.80	109.96	167.40	186.60	10.90	3.50	2.90	1.00	0.90	
2	1.00	1.00	8.20	150.70	108.04	163.20	173.00	9.70	3.50	2.90	1.00	1.00	
3	1.00	1.00	21.72	145.93	107.72	157.70	162.50	8.80	3.50	2.70	1.00	1.15	
4	1.00	1.00	33.70	139.15	113.48	152.50	152.50	8.20	3.50	2.70	1.00	1.15	
5	1.00	1.00	45.60	131.94	122.72	147.10	141.94	8.20	3.30	2.70	1.00	1.00	
6	1.00	1.00	65.34	124.77	127.35	144.22	131.46	7.60	3.30	2.70	1.00	1.00	
7	1.00	1.00	72.62	117.80	134.34	148.90	122.72	6.50	3.30	2.70	1.00	1.15	
8	1.15	1.15	86.92	112.04	144.22	147.10	114.20	6.00	3.10	2.50	1.00	1.75	
9	1.15	1.45	100.44	109.96	148.90	143.08	106.12	5.50	3.10	2.05	1.00	1.60	
10	1.00	2.05	119.03	109.32	151.90	138.05	97.92	5.25	3.10	2.05	0.90	1.60	
11	1.00	3.30	143.65	114.56	151.90	133.38	89.22	4.50	3.10	2.05	0.90	1.45	
12	1.00	2.50	151.90	117.44	148.90	128.70	82.60	4.10	2.90	2.05	0.90	1.30	
13	1.00	1.90	155.10	117.80	144.79	124.77	77.70	3.90	2.90	1.90	0.90	1.30	
14	1.00	1.90	156.40	117.80	139.15	127.35	73.46	3.90	2.90	1.90	0.90	1.30	
15	1.00	1.90	155.10	118.21	133.86	141.37	69.92	4.10	2.90	1.75	0.90	1.30	
16	1.00	1.90	151.30	121.49	129.15	159.00	67.50	4.50	2.90	1.75	0.90	1.30	
17	1.00	2.05	145.93	132.90	126.00	178.10	66.29	4.30	2.90	1.75	0.90	1.15	
18	1.00	2.05	139.15	145.93	126.45	203.20	63.36	4.30	2.70	1.90	0.80	0.90	
19	1.00	2.20	132.90	155.75	129.60	228.00	58.30	4.10	2.70	1.90	0.80	0.80	
20	1.15	2.70	126.00	161.80	133.38	248.50	53.00	3.90	2.70	1.75	0.80	0.80	
21	1.00	3.10	121.49	163.90	136.40	267.80	47.80	3.90	2.70	1.60	0.80	0.80	
22	1.00	3.50	118.21	163.20	139.15	279.20	42.40	4.10	2.50	1.30	0.80	0.80	
23	1.00	3.70	117.80	160.40	141.37	281.30	37.84	4.10	2.50	1.00	0.80	0.70	
24	1.00	3.70	120.67	157.05	143.08	277.10	33.36	4.30	2.50	1.00	0.80	0.70	
25	1.00	3.50	126.45	151.90	145.93	269.60	28.12	4.10	2.50	1.00	0.70	0.80	
26	1.00	3.30	133.86	145.36	151.90	257.00	24.28	3.90	2.50	1.00	0.80	0.80	
27	1.00	3.50	144.22	138.05	159.70	245.10	21.96	3.90	2.50	1.00	0.80	0.90	
28	1.15	3.90	151.30	130.98	167.40	231.00	19.00	3.70	2.90	0.90	0.80	0.90	
29	1.15	3.90	154.45	124.77	170.90	214.60	16.20	3.50	3.70	0.90		0.90	
30	1.15	3.90	155.10	117.44	169.50	201.00	13.80	3.50	3.50	0.90		0.80	
31		4.30		113.48	170.90		11.80		3.30	0.90		0.80	
Total	30.90	74.35	3360.30	4165.62	4328.04	5705.32	2386.87	157.25	92.90	56.10	24.90	32.80	20415.35 CMSDAY
Mean	1.03	2.40	112.01	134.37	139.61	190.18	77.00	5.24	3.00	1.81	0.89	1.06	55.93 CMS
Max	1.15	4.30	156.40	163.90	170.90	281.30	186.60	10.90	3.70	2.90	1.00	1.75	281.30 CMS
Min	1.00	1.00	5.75	109.32	107.72	124.77	11.80	3.50	2.50	0.90	0.70	0.70	0.70 CMS
Runoff	2.670	6.424	290.330	359.910	373.943	492.940	206.226	13.586	8.027	4.847	2.151	2.834	1763.887 MCM

Momentary Peak 283.40 CMS, at 9.64 M (A.D), at 18.00 Hours, on Sep 22, 1994

Runoff Yield 26.08 Liters/Second/Square KM, Momentary Peak Yield 132.12 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

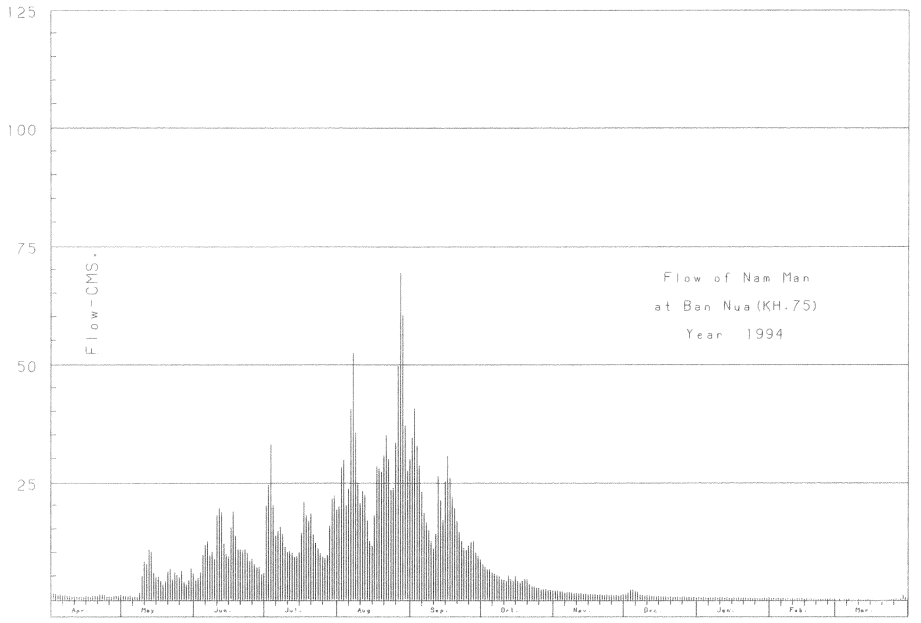
Nam Man at Ban Nua, Loei (Kh.75)

Location	Lat. 17-16-38 N., Long. 101-09-04 E., on left bank at the bridge of Nam Man, Tambon Dan Sai, Amphoe Dan Sai, Loei.
Drainage Area	385 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	+10.029 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1994 to date.
Rated by Float	-
Rated by Current Meter	1994 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 102 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.64	2.47	3.26	5.12	5.09	6.00	3.78	2.77	2.59	2.33	2.26	2.16	
2	2.59	2.42	3.31	5.48	5.72	6.23	3.68	2.76	2.66	2.33	2.24	2.16	
3	2.53	2.43	3.51	5.95	5.79	5.94	3.62	2.75	2.84	2.33	2.26	2.15	
4	2.54	2.45	4.03	5.11	5.13	5.73	3.61	2.72	2.81	2.32	2.24	2.15	
5	2.52	2.40	4.29	4.48	5.42	5.37	3.54	2.68	2.76	2.32	2.23	2.15	
6	2.48	2.36	4.35	4.57	6.23	4.97	3.47	2.67	2.70	2.32	2.23	2.15	
7	2.45	2.37	4.01	4.67	6.59	4.75	3.44	2.71	2.56	2.31	2.21	2.15	
8	2.44	2.68	4.10	4.51	6.05	4.60	3.37	2.66	2.51	2.31	2.21	2.15	
9	2.43	3.42	3.92	4.24	5.51	4.36	3.30	2.64	2.49	2.31	2.21	2.15	
10	2.41	3.84	4.92	4.11	5.15	4.20	3.25	2.64	2.49	2.30	2.21	2.15	
11	2.41	3.80	5.07	4.11	5.38	4.51	3.23	2.63	2.49	2.30	2.20	2.14	
12	2.39	4.17	4.97	4.07	5.30	5.60	3.43	2.62	2.47	2.29	2.20	2.14	
13	2.39	4.10	4.32	3.98	4.81	5.21	3.28	2.61	2.44	2.29	2.23	2.13	
14	2.40	3.52	4.04	3.99	4.36	4.80	3.25	2.59	2.43	2.28	2.22	2.13	
15	2.45	3.34	3.97	4.10	4.27	5.53	3.40	2.59	2.43	2.28	2.22	2.14	
16	2.40	3.37	4.66	4.53	4.90	5.84	3.22	2.58	2.43	2.28	2.20	2.13	
17	2.39	3.24	4.98	5.19	5.73	5.59	3.18	2.57	2.42	2.28	2.20	2.11	
18	2.45	3.06	4.47	4.90	5.70	5.26	3.23	2.56	2.42	2.28	2.19	2.11	
19	2.49	3.22	4.18	4.80	5.67	5.07	3.31	2.55	2.40	2.27	2.19	2.12	
20	2.47	3.54	4.16	4.94	5.84	4.79	3.28	2.54	2.40	2.27	2.18	2.15	
21	2.55	3.64	4.13	4.51	6.03	4.55	3.09	2.54	2.39	2.26	2.18	2.15	
22	2.56	3.27	4.19	4.32	5.80	4.37	3.03	2.53	2.38	2.26	2.18	2.13	
23	2.50	3.54	4.09	4.21	5.40	4.20	2.98	2.52	2.38	2.25	2.17	2.14	
24	2.43	3.42	3.88	4.06	5.42	4.16	2.95	2.51	2.37	2.25	2.17	2.13	
25	2.40	3.36	3.91	3.99	5.96	4.25	2.91	2.51	2.37	2.24	2.17	2.15	
26	2.37	3.56	3.76	3.93	6.51	4.33	2.85	2.50	2.37	2.24	2.16	2.19	
27	2.46	3.20	3.68	4.03	6.99	4.37	2.86	2.50	2.36	2.25	2.16	2.15	
28	2.48	3.07	3.68	4.68	6.78	4.09	2.84	2.49	2.36	2.26	2.18	2.16	
29	2.42	3.27	3.47	5.24	6.11	3.99	2.83	2.51	2.35	2.26		2.55	
30	2.51	3.66	3.50	5.29	5.68	3.90	2.79	2.56	2.34	2.26		2.30	
31		3.48		5.04	5.80		2.77		2.33	2.28		2.21	
Mean	2.47	3.22	4.09	4.59	5.65	4.89	3.22	2.60	2.48	2.28	2.20	2.16	
Max	2.64	4.17	5.07	5.95	6.99	6.23	3.78	2.77	2.84	2.33	2.26	2.55	6.99
Min	2.37	2.36	3.26	3.93	4.27	3.90	2.77	2.49	2.33	2.24	2.16	2.11	2.11

Annual Max Momentary Gage Height 7.07 M (A.D), at 18.00 Hours, on Aug 27, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 1.83 M (A.D)
Left Bank Elevation 9.82 M (A.D)
Right Bank Elevation 9.85 M (A.D), Drainage Area 385 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.56	1.01	4.36	20.24	19.90	34.50	7.76	2.08	1.37	0.66	0.52	0.32	
2	1.37	0.86	4.66	24.56	28.40	40.70	7.06	2.04	1.64	0.66	0.48	0.32	
3	1.19	0.89	5.87	33.25	29.80	33.00	6.64	2.00	2.36	0.66	0.52	0.30	
4	1.22	0.95	9.74	20.12	20.36	28.60	6.57	1.88	2.24	0.64	0.48	0.30	
5	1.16	0.80	11.91	13.80	23.84	23.24	6.08	1.72	2.04	0.64	0.46	0.30	
6	1.04	0.72	12.50	14.70	40.70	18.70	5.62	1.68	1.80	0.64	0.46	0.30	
7	0.95	0.74	9.58	15.70	52.65	16.50	5.44	1.84	1.28	0.62	0.42	0.30	
8	0.92	1.72	10.30	14.10	35.75	15.00	5.02	1.64	1.13	0.62	0.42	0.30	
9	0.89	5.32	8.86	11.46	24.95	12.60	4.60	1.56	1.07	0.62	0.42	0.30	
10	0.83	8.22	18.20	10.38	20.60	11.10	4.30	1.56	1.07	0.60	0.42	0.30	
11	0.83	7.90	19.70	10.38	23.36	14.10	4.18	1.52	1.07	0.60	0.40	0.28	
12	0.78	10.86	18.70	10.06	22.40	26.30	5.38	1.48	1.01	0.58	0.40	0.28	
13	0.78	10.30	12.20	9.34	17.10	21.32	4.48	1.44	0.92	0.58	0.46	0.26	
14	0.80	5.94	9.82	9.42	12.60	17.00	4.30	1.37	0.89	0.56	0.44	0.26	
15	0.95	4.84	9.26	10.30	11.73	25.25	5.20	1.37	0.89	0.56	0.44	0.28	
16	0.80	5.02	15.60	14.30	18.00	30.80	4.12	1.34	0.89	0.56	0.40	0.26	
17	0.78	4.24	18.80	21.08	28.60	26.15	3.90	1.31	0.86	0.56	0.40	0.22	
18	0.95	3.30	13.70	18.00	28.00	21.92	4.18	1.28	0.86	0.56	0.38	0.22	
19	1.07	4.12	10.94	17.00	27.49	19.70	4.66	1.25	0.80	0.54	0.38	0.24	
20	1.01	6.08	10.78	18.40	30.80	16.90	4.48	1.22	0.80	0.54	0.36	0.30	
21	1.25	6.78	10.54	14.10	35.25	14.50	3.45	1.22	0.78	0.52	0.36	0.30	
22	1.28	4.42	11.02	12.20	30.00	12.70	3.15	1.19	0.76	0.52	0.36	0.26	
23	1.10	6.08	10.22	11.19	23.60	11.10	2.92	1.16	0.76	0.50	0.34	0.28	
24	0.89	5.32	8.54	9.98	23.84	10.78	2.80	1.13	0.74	0.50	0.34	0.26	
25	0.80	4.96	8.78	9.42	33.50	11.55	2.64	1.13	0.74	0.48	0.34	0.30	
26	0.74	6.22	7.62	8.94	49.85	12.30	2.40	1.10	0.74	0.48	0.32	0.38	
27	0.98	4.00	7.06	9.74	69.55	12.70	2.44	1.10	0.72	0.50	0.32	0.30	
28	1.04	3.35	7.06	15.80	60.36	10.22	2.36	1.07	0.72	0.52	0.36	0.32	
29	0.86	4.42	5.62	21.68	37.28	9.42	2.32	1.13	0.70	0.52		1.25	
30	1.13	6.92	5.80	22.28	27.66	8.70	2.16	1.28	0.68	0.52		0.60	
31		5.68		19.40	30.00		2.08		0.66	0.56		0.42	
Total	29.95	141.98	317.74	471.32	937.92	567.35	132.69	43.09	32.99	17.62	11.40	10.31	2714.36 CMSDAY
Mean	1.00	4.58	10.59	15.20	30.26	18.91	4.28	1.44	1.06	0.57	0.41	0.33	7.44 CMS
Max	1.56	10.86	19.70	33.25	69.55	40.70	7.76	2.08	2.36	0.66	0.52	1.25	69.55 CMS
Min	0.74	0.72	4.36	8.94	11.73	8.70	2.08	1.07	0.66	0.48	0.32	0.22	0.22 CMS
Runoff	2.588	12.267	27.453	40.722	81.036	49.019	11.464	3.723	2.850	1.522	0.985	0.891	234.521 MCM

Momentary Peak 73.15 CMS, at 7.07 M (A.D), at 18.00 Hours, on Aug 27, 1994

Runoff Yield 19.32 Liters/Second/Square KM, Momentary Peak Yield 190.00 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

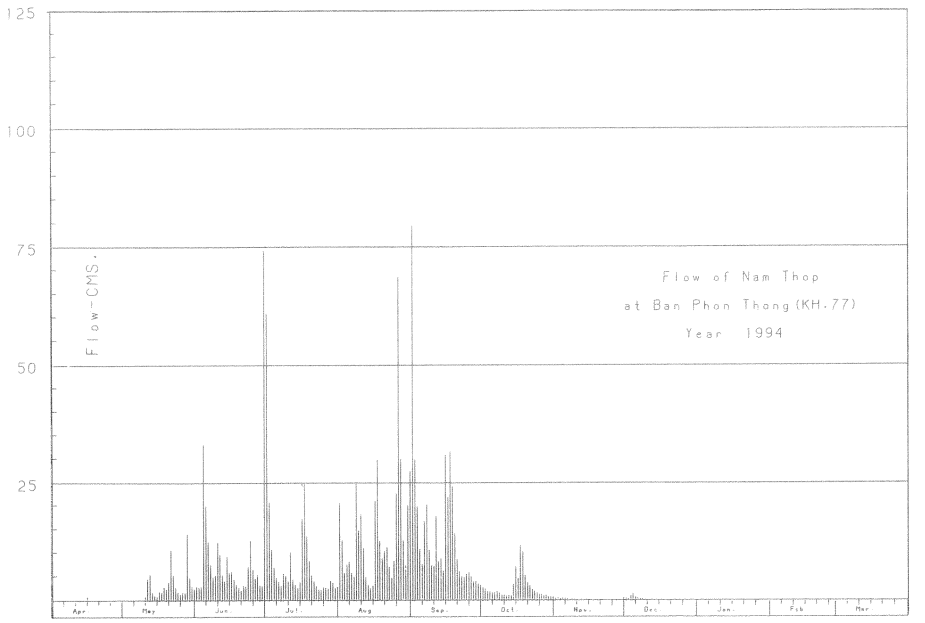
Nam Thop at Ban Phon Thong, Loei (Kh.77)

Location	Lat. 17°-15'-51" N., Long. 101°-39'-26" E., on left bank at Ban Phon Thong, Amphoe Wang Saphung, Loei.
Drainage Area	142 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+257.40 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near the measuring line.
Elevation	+265.00 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.83	257.78	258.24	260.22	259.22	260.56	258.24	257.91	257.91	257.78	257.76	257.73	
2	257.82	257.76	258.23	259.23	258.91	259.50	258.19	257.92	257.87	257.78	257.76	257.74	
3	257.80	257.76	258.24	258.81	258.50	259.19	258.14	257.90	258.02	257.78	257.75	257.83	
4	257.79	257.76	259.58	258.59	258.63	258.81	258.12	257.90	258.06	257.78	257.75	257.72	
5	257.77	257.76	259.20	258.42	258.66	258.63	258.11	257.90	257.96	257.78	257.75	257.71	
6	257.78	257.76	258.89	258.35	258.50	259.07	258.09	257.88	257.91	257.78	257.75	257.72	
7	257.77	257.75	258.63	258.28	258.45	259.21	258.14	257.87	257.89	257.77	257.74	257.72	
8	257.76	257.75	258.43	258.50	259.36	258.81	258.08	257.87	257.87	257.77	257.74	257.72	
9	257.76	257.78	258.47	258.45	258.99	258.61	258.04	257.86	257.86	257.76	257.74	257.72	
10	257.76	257.98	258.89	258.37	259.13	258.61	258.02	257.86	257.84	257.76	257.74	257.71	
11	257.76	258.40	258.75	258.78	258.83	259.11	258.01	257.86	257.84	257.76	257.75	257.71	
12	257.76	258.48	258.47	258.39	258.43	258.66	258.01	257.85	257.84	257.76	257.75	257.71	
13	257.76	258.11	258.36	258.29	258.30	258.71	258.01	257.85	257.83	257.76	257.74	257.71	
14	257.76	258.00	258.73	258.22	258.21	258.53	258.30	257.85	257.83	257.76	257.74	257.71	
15	257.98	257.95	258.50	258.35	258.28	259.52	258.60	257.85	257.83	257.76	257.74	257.71	
16	257.85	258.13	258.52	259.09	259.24	259.27	258.42	257.85	257.83	257.76	257.74	257.72	
17	257.81	258.09	258.40	259.36	259.50	259.54	258.85	257.84	257.82	257.76	257.73	257.71	
18	257.79	258.23	258.29	258.94	258.90	259.34	258.79	257.84	257.82	257.76	257.73	257.71	
19	257.78	258.20	258.22	258.68	258.71	258.97	258.46	257.84	257.82	257.76	257.73	257.71	
20	257.78	258.34	258.16	258.46	258.79	258.70	258.35	257.84	257.82	257.77	257.74	257.71	
21	257.77	258.81	258.28	258.37	258.84	258.53	258.27	257.83	257.82	257.76	257.72	257.73	
22	257.76	258.47	258.25	258.26	258.59	258.44	258.20	257.82	257.81	257.76	257.71	257.72	
23	257.76	258.24	258.59	258.19	258.43	258.44	258.14	257.81	257.81	257.76	257.71	257.72	
24	257.76	258.10	258.91	258.16	258.67	258.48	258.11	257.81	257.80	257.75	257.71	257.71	
25	257.76	258.06	258.56	258.24	259.30	258.52	258.06	257.80	257.81	257.77	257.72	257.72	
26	257.75	258.10	258.42	258.22	260.37	258.44	258.04	257.81	257.81	257.76	257.72	257.73	
27	257.74	258.10	258.47	258.21	259.50	258.36	258.01	257.81	257.80	257.76	257.72	257.74	
28	257.75	258.96	258.29	258.38	258.91	258.36	258.02	257.81	257.80	257.76	257.72	257.75	
29	257.76	258.43	258.26	258.33	258.62	258.32	257.97	257.83	257.79	257.77		257.75	
30	257.76	258.25	260.47	258.23	259.20	258.28	257.95	257.91	257.79	257.77		257.74	
31		258.18		258.24	259.43		257.94		257.79	257.76		257.74	
Mean	257.78	258.11	258.59	258.54	258.88	258.85	258.18	257.85	257.85	257.77	257.74	257.73	
Max	257.98	258.96	260.47	260.22	260.37	260.56	258.85	257.92	258.06	257.78	257.76	257.83	260.56
Min	257.74	257.75	258.16	258.16	258.21	258.28	257.94	257.80	257.79	257.75	257.71	257.71	257.71

Annual Max Momentary Gage Height 261.22 M (MSL), at 12.00 Hours, on Jun 30, 1994
Zero Gage at Bottom Elevation 257.40 M (MSL), River Bed 256.81 M (MSL)
Left Bank Elevation 266.00 M (MSL)
Right Bank Elevation 265.18 M (MSL), Drainage Area 142 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	0.08	2.86	61.00	20.64	79.60	2.86	0.55	0.55	0.08	0.06	0.03	
2	0.18	0.06	2.77	20.91	12.84	30.00	2.42	0.60	0.38	0.08	0.06	0.04	
3	0.10	0.06	2.86	10.80	5.80	19.84	2.02	0.50	1.14	0.08	0.05	0.22	
4	0.09	0.06	33.20	7.06	7.68	10.80	1.86	0.50	1.42	0.08	0.05	0.02	
5	0.07	0.06	20.10	4.76	8.16	7.68	1.78	0.50	0.80	0.08	0.05	0.01	
6	0.08	0.06	12.40	3.95	5.80	16.75	1.63	0.42	0.55	0.08	0.05	0.02	
7	0.07	0.05	7.68	3.22	5.15	20.37	2.02	0.38	0.46	0.07	0.04	0.02	
8	0.06	0.05	4.89	5.80	24.84	10.80	1.56	0.38	0.38	0.07	0.04	0.02	
9	0.06	0.08	5.41	5.15	14.76	7.36	1.28	0.34	0.34	0.06	0.04	0.02	
10	0.06	0.90	12.40	4.17	18.28	7.36	1.14	0.34	0.26	0.06	0.04	0.01	
11	0.06	4.50	9.70	10.24	11.20	17.76	1.07	0.34	0.26	0.06	0.05	0.01	
12	0.06	5.54	5.41	4.39	4.89	8.16	1.07	0.30	0.26	0.06	0.05	0.01	
13	0.06	1.78	4.06	3.31	3.40	8.98	1.07	0.30	0.22	0.06	0.04	0.01	
14	0.06	1.00	9.34	2.68	2.59	6.22	3.40	0.30	0.22	0.06	0.04	0.01	
15	0.90	0.75	5.80	3.95	3.22	30.80	7.20	0.30	0.22	0.06	0.04	0.01	
16	0.30	1.94	6.08	17.25	21.18	21.99	4.76	0.30	0.22	0.06	0.04	0.02	
17	0.14	1.63	4.50	24.84	30.00	31.60	11.60	0.26	0.18	0.06	0.03	0.01	
18	0.09	2.77	3.31	13.56	12.60	24.16	10.42	0.26	0.18	0.06	0.03	0.01	
19	0.08	2.50	2.68	8.48	8.98	14.28	5.28	0.26	0.18	0.06	0.03	0.01	
20	0.08	3.84	2.18	5.28	10.42	8.80	3.95	0.26	0.18	0.07	0.04	0.01	
21	0.07	10.80	3.22	4.17	11.40	6.22	3.13	0.22	0.18	0.06	0.02	0.03	
22	0.06	5.41	2.95	3.04	7.06	5.02	2.50	0.18	0.14	0.06	0.01	0.02	
23	0.06	2.86	7.06	2.42	4.89	5.02	2.02	0.14	0.14	0.06	0.01	0.02	
24	0.06	1.70	12.84	2.18	8.32	5.54	1.78	0.14	0.10	0.05	0.01	0.01	
25	0.06	1.42	6.64	2.86	22.80	6.08	1.42	0.10	0.14	0.07	0.02	0.02	
26	0.05	1.70	4.76	2.68	68.50	5.02	1.28	0.14	0.14	0.06	0.02	0.03	
27	0.04	1.70	5.41	2.59	30.00	4.06	1.07	0.14	0.10	0.06	0.02	0.04	
28	0.05	14.04	3.31	4.28	12.84	4.06	1.14	0.14	0.10	0.06	0.02	0.05	
29	0.06	4.89	3.04	3.73	7.52	3.62	0.85	0.22	0.09	0.07		0.05	
30	0.06	2.95	74.20	2.77	20.10	3.22	0.75	0.55	0.09	0.07		0.04	
31		2.34		2.86	27.34		0.70		0.09	0.06		0.04	
Total	3.39	77.52	281.06	254.38	453.20	431.17	85.03	9.36	9.71	2.03	1.00	0.87	1608.72 CMSDAY
Mean	0.11	2.50	9.37	8.21	14.62	14.37	2.74	0.31	0.31	0.07	0.04	0.03	4.41 CMS
Max	0.90	14.04	74.20	61.00	68.50	79.60	11.60	0.60	1.42	0.08	0.06	0.22	79.60 CMS
Min	0.04	0.05	2.18	2.18	2.59	3.22	0.70	0.10	0.09	0.05	0.01	0.01	0.01 CMS
Runoff	0.293	6.698	24.284	21.978	39.156	37.253	7.347	0.809	0.839	0.175	0.086	0.075	138.993 MCM

Momentary Peak 121.40 CMS, at 261.22 M (MSL), at 12.00 Hours, on Jun 30, 1994

Runoff Yield 31.04 Liters/Second/Square KM, Momentary Peak Yield 854.93 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

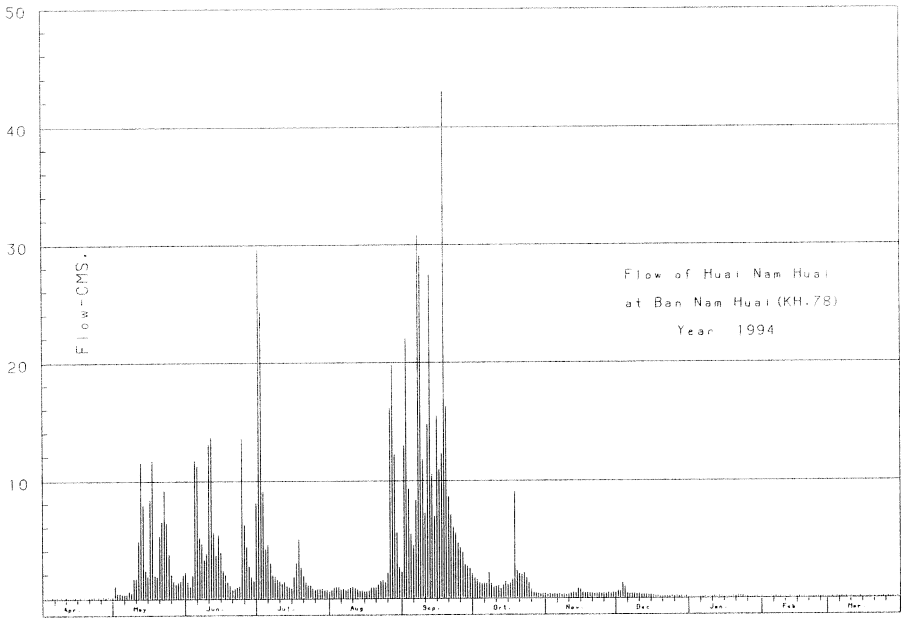
Huai Nam Huai at Ban Nam Huai, Loei (Kh.78)

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	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	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 20 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	247.05	247.34	247.40	250.08	247.26	248.70	247.46	247.15	247.24	247.04	247.05	247.05	
2	247.05	247.18	247.33	249.70	247.30	249.51	247.43	247.15	247.22	247.04	247.05	247.05	
3	247.05	247.18	247.50	248.31	247.32	248.33	247.38	247.15	247.38	247.05	247.05	247.05	
4	247.05	247.17	248.57	247.80	247.31	247.94	247.37	247.15	247.31	247.05	247.05	247.05	
5	247.05	247.17	248.53	247.84	247.27	247.83	247.38	247.15	247.18	247.05	247.05	247.05	
6	247.05	247.15	247.91	247.65	247.28	248.24	247.37	247.15	247.15	247.05	247.05	247.05	
7	247.05	247.24	247.85	247.50	247.26	250.17	247.53	247.14	247.17	247.05	247.05	247.05	
8	247.05	247.19	247.69	247.48	247.27	250.04	247.37	247.14	247.16	247.05	247.05	247.05	
9	247.05	247.46	247.75	247.44	247.31	248.58	247.32	247.14	247.15	247.06	247.05	247.05	
10	247.05	247.45	248.71	247.41	247.31	248.12	247.32	247.14	247.15	247.06	247.05	247.05	
11	247.05	247.88	248.77	247.38	247.29	248.88	247.33	247.18	247.14	247.07	247.05	247.05	
12	247.05	248.56	247.96	247.40	247.27	249.93	247.29	247.19	247.14	247.07	247.05	247.05	
13	247.05	248.20	247.73	247.34	247.24	248.45	247.35	247.19	247.13	247.08	247.05	247.05	
14	247.05	247.56	247.94	247.31	247.24	248.10	247.40	247.28	247.13	247.08	247.05	247.05	
15	247.05	247.48	247.77	247.30	247.23	248.95	247.36	247.27	247.12	247.04	247.05	247.05	
16	247.05	248.24	247.56	247.47	247.22	248.49	247.37	247.19	247.11	247.04	247.05	247.05	
17	247.05	248.57	247.50	247.65	247.25	248.63	247.44	247.19	247.10	247.04	247.05	247.05	
18	247.05	247.50	247.41	247.89	247.30	251.00	248.30	247.18	247.09	247.07	247.05	247.05	
19	247.05	247.47	247.34	247.59	247.31	249.02	247.55	247.18	247.09	247.07	247.05	247.05	
20	247.05	247.93	247.27	247.49	247.30	248.27	247.51	247.17	247.09	247.07	247.05	247.05	
21	247.06	248.05	247.29	247.40	247.35	248.11	247.50	247.17	247.08	247.11	247.05	247.05	
22	247.07	248.32	247.32	247.34	247.42	248.01	247.53	247.17	247.08	247.11	247.05	247.05	
23	247.07	248.04	247.33	247.35	247.42	247.95	247.46	247.17	247.08	247.10	247.05	247.05	
24	247.07	247.75	248.76	247.29	247.40	247.86	247.38	247.17	247.08	247.07	247.05	247.05	
25	247.07	247.51	248.03	247.26	247.53	247.81	247.26	247.17	247.08	247.05	247.05	247.05	
26	247.07	247.41	247.82	247.27	249.01	247.77	247.20	247.17	247.08	247.05	247.05	247.05	
27	247.07	247.37	247.61	247.28	249.33	247.63	247.19	247.18	247.08	247.05	247.05	247.05	
28	247.07	247.39	247.47	247.28	248.62	247.60	247.16	247.18	247.08	247.05	247.05	247.05	
29	247.07	247.41	247.42	247.26	247.96	247.58	247.16	247.18	247.08	247.05		247.05	
30	247.07	247.51	248.21	247.25	247.59	247.51	247.16	247.18	247.08	247.05		247.05	
31		247.53		247.22	247.54		247.16		247.04	247.05		247.05	
Mean	247.06	247.62	247.79	247.62	247.51	248.50	247.39	247.17	247.13	247.06	247.05	247.05	
Max	247.07	248.57	248.77	250.08	249.33	251.00	248.30	247.28	247.38	247.11	247.05	247.05	251.00
Min	247.05	247.15	247.27	247.22	247.22	247.51	247.16	247.14	247.04	247.04	247.05	247.05	247.04

Annual Max Momentary Gage Height 251.30 M (MSL), at 15.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 246.22 M (MSL), River Bed 246.88 M (MSL)
Left Bank Elevation 254.48 M (MSL)
Right Bank Elevation 254.25 M (MSL), Drainage Area 869 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	1.10	1.40	29.62	0.74	13.00	1.76	0.35	0.66	0.10	0.12	0.12	
2	0.12	0.44	1.05	24.40	0.90	22.02	1.58	0.35	0.58	0.10	0.12	0.12	
3	0.12	0.44	2.00	9.10	1.00	9.30	1.30	0.35	1.30	0.12	0.12	0.12	
4	0.12	0.41	11.70	4.20	0.95	5.46	1.25	0.35	0.95	0.12	0.12	0.12	
5	0.12	0.41	11.30	4.56	0.78	4.47	1.30	0.35	0.44	0.12	0.12	0.12	
6	0.12	0.35	5.19	3.05	0.82	8.40	1.25	0.35	0.35	0.12	0.12	0.12	
7	0.12	0.66	4.65	2.00	0.74	30.88	2.21	0.32	0.41	0.12	0.12	0.12	
8	0.12	0.47	3.33	1.88	0.78	29.06	1.25	0.32	0.38	0.12	0.12	0.12	
9	0.12	1.76	3.80	1.64	0.95	11.80	1.00	0.32	0.35	0.14	0.12	0.12	
10	0.12	1.70	13.10	1.46	0.95	7.20	1.00	0.32	0.35	0.14	0.12	0.12	
11	0.12	4.92	13.70	1.30	0.86	14.80	1.05	0.44	0.32	0.15	0.12	0.12	
12	0.12	11.60	5.64	1.40	0.78	27.52	0.86	0.47	0.32	0.15	0.12	0.12	
13	0.12	8.00	3.64	1.10	0.66	10.50	1.15	0.47	0.29	0.17	0.12	0.12	
14	0.12	3.42	5.46	0.95	0.66	7.00	1.40	0.82	0.29	0.17	0.12	0.12	
15	0.12	1.88	3.96	0.90	0.62	15.50	1.20	0.78	0.26	0.10	0.12	0.12	
16	0.12	8.40	2.42	1.82	0.58	10.90	1.25	0.47	0.23	0.10	0.12	0.12	
17	0.12	11.70	2.00	3.05	0.70	12.30	1.64	0.47	0.20	0.10	0.12	0.12	
18	0.12	2.00	1.46	5.01	0.90	43.00	9.00	0.44	0.18	0.15	0.12	0.12	
19	0.12	1.82	1.10	2.63	0.95	16.22	2.35	0.44	0.18	0.15	0.12	0.12	
20	0.12	5.37	0.78	1.94	0.90	8.70	2.07	0.41	0.18	0.15	0.12	0.12	
21	0.14	6.50	0.86	1.40	1.15	7.10	2.00	0.41	0.17	0.23	0.12	0.12	
22	0.15	9.20	1.00	1.10	1.52	6.10	2.21	0.41	0.17	0.23	0.12	0.12	
23	0.15	6.40	1.05	1.15	1.52	5.55	1.76	0.41	0.17	0.20	0.12	0.12	
24	0.15	3.80	13.60	0.86	1.40	4.74	1.30	0.41	0.17	0.15	0.12	0.12	
25	0.15	2.07	6.30	0.74	2.21	4.29	0.74	0.41	0.17	0.12	0.12	0.12	
26	0.15	1.46	4.38	0.78	16.11	3.96	0.50	0.41	0.17	0.12	0.12	0.12	
27	0.15	1.25	2.77	0.82	19.86	2.91	0.47	0.44	0.17	0.12	0.12	0.12	
28	0.15	1.35	1.82	0.82	12.20	2.70	0.38	0.44	0.17	0.12	0.12	0.12	
29	0.15	1.46	1.52	0.74	5.64	2.56	0.38	0.44	0.17	0.12		0.12	
30	0.15	2.07	8.10	0.70	2.63	2.07	0.38	0.44	0.17	0.12		0.12	
31		2.21		0.58	2.28		0.38		0.10	0.12		0.12	
Total	3.89	103.62	139.08	111.70	82.74	350.01	46.37	12.81	10.02	4.24	3.36	3.72	871.56 CMSDAY
Mean	0.13	3.34	4.64	3.60	2.67	11.67	1.50	0.43	0.32	0.14	0.12	0.12	2.39 CMS
Max	0.15	11.70	13.70	29.62	19.86	43.00	9.00	0.82	1.30	0.23	0.12	0.12	43.00 CMS
Min	0.12	0.35	0.78	0.58	0.58	2.07	0.38	0.32	0.10	0.10	0.12	0.12	0.10 CMS
Runoff	0.336	8.953	12.017	9.651	7.149	30.241	4.006	1.107	0.866	0.366	0.290	0.321	75.303 MCM

Momentary Peak 48.10 CMS, at 251.30 M (MSL), at 15.00 Hours, on Sep 18, 1994

Runoff Yield 2.75 Liters/Second/Square KM, Momentary Peak Yield 55.35 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

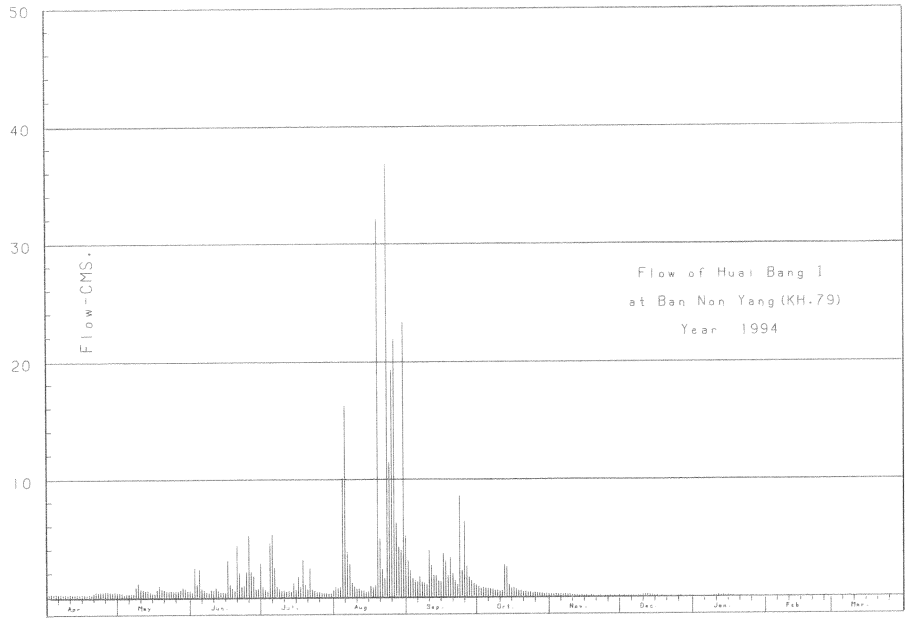
Huai Bang I at Ban Non Yang, Muk Dahan (Kh.79)

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	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+9.673 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.11 m.(A.D.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.31	0.36	0.35	0.50	0.50	0.89	0.50	0.29	0.22	0.19	0.19	0.18	
2	0.31	0.33	0.80	0.42	0.47	0.76	0.46	0.29	0.22	0.19	0.19	0.18	
3	0.31	0.30	0.55	0.39	0.49	0.65	0.48	0.29	0.22	0.19	0.19	0.18	
4	0.31	0.31	0.79	1.06	1.51	0.61	0.47	0.29	0.22	0.19	0.19	0.18	
5	0.31	0.31	0.46	1.14	1.84	0.59	0.45	0.29	0.22	0.19	0.19	0.18	
6	0.30	0.32	0.40	0.80	0.98	0.67	0.44	0.28	0.22	0.19	0.19	0.18	
7	0.30	0.32	0.37	0.51	0.85	0.58	0.42	0.28	0.22	0.19	0.19	0.18	
8	0.30	0.50	0.33	0.44	0.58	0.56	0.40	0.28	0.22	0.20	0.19	0.18	
9	0.30	0.56	0.43	0.40	0.50	0.54	0.39	0.27	0.22	0.23	0.19	0.18	
10	0.30	0.44	0.41	0.39	0.46	1.00	0.38	0.26	0.24	0.23	0.19	0.18	
11	0.30	0.43	0.49	0.38	0.45	0.83	0.38	0.25	0.28	0.23	0.19	0.18	
12	0.30	0.41	0.40	0.39	0.41	0.70	0.84	0.25	0.27	0.23	0.19	0.17	
13	0.29	0.40	0.36	0.38	0.39	0.69	0.81	0.24	0.26	0.23	0.19	0.17	
14	0.29	0.37	0.34	0.56	0.37	0.60	0.54	0.24	0.25	0.23	0.19	0.17	
15	0.29	0.32	0.35	0.43	0.37	0.58	0.45	0.24	0.23	0.22	0.19	0.17	
16	0.29	0.32	0.90	0.68	0.52	0.97	0.48	0.23	0.22	0.22	0.19	0.17	
17	0.29	0.43	0.55	0.49	0.48	0.89	0.43	0.23	0.22	0.21	0.19	0.17	
18	0.29	0.52	0.46	0.90	0.53	0.68	0.40	0.23	0.21	0.21	0.19	0.17	
19	0.29	0.45	0.41	0.54	2.47	0.92	0.39	0.23	0.21	0.21	0.18	0.17	
20	0.33	0.42	1.04	0.44	1.10	0.72	0.37	0.23	0.21	0.20	0.18	0.17	
21	0.36	0.40	0.73	0.79	0.78	0.60	0.36	0.23	0.21	0.20	0.18	0.17	
22	0.36	0.39	0.51	0.43	0.65	0.54	0.35	0.23	0.21	0.19	0.18	0.17	
23	0.36	0.39	0.52	0.39	2.61	1.40	0.35	0.23	0.21	0.19	0.18	0.18	
24	0.37	0.39	0.75	0.36	1.59	0.77	0.34	0.22	0.20	0.19	0.18	0.18	
25	0.37	0.38	1.13	0.35	1.97	1.24	0.34	0.22	0.20	0.19	0.18	0.18	
26	0.37	0.38	0.75	0.34	2.08	0.82	0.33	0.22	0.20	0.19	0.18	0.18	
27	0.37	0.43	0.69	0.33	1.23	0.67	0.33	0.22	0.20	0.19	0.18	0.18	
28	0.36	0.50	0.45	0.32	1.03	0.60	0.32	0.22	0.20	0.19	0.18	0.18	
29	0.36	0.45	0.45	0.32	1.00	0.56	0.31	0.22	0.20	0.19		0.18	
30	0.35	0.40	0.86	0.31	2.14	0.52	0.30	0.22	0.20	0.19		0.18	
31		0.39		0.42	1.12		0.30		0.20	0.19		0.18	
Mean	0.32	0.40	0.57	0.50	1.02	0.74	0.42	0.25	0.22	0.20	0.19	0.18	
Max	0.37	0.56	1.13	1.14	2.61	1.40	0.84	0.29	0.28	0.23	0.19	0.18	2.61
Min	0.29	0.30	0.33	0.31	0.37	0.52	0.30	0.22	0.20	0.19	0.18	0.17	0.17

Annual Max Momentary Gage Height 4.25 M (A.D), at 14.00 Hours, on Aug 19, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.09 M (A.D)
Left Bank Elevation 4.10 M (A.D)
Right Bank Elevation 4.15 M (A.D), Drainage Area 110 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.33	0.48	0.45	0.90	0.90	3.13	0.90	0.28	0.14	0.09	0.09	0.08	
2	0.33	0.39	2.50	0.66	0.81	2.26	0.78	0.28	0.14	0.09	0.09	0.08	
3	0.33	0.30	1.15	0.57	0.87	1.65	0.84	0.28	0.14	0.09	0.09	0.08	
4	0.33	0.33	2.44	4.60	10.16	1.45	0.81	0.28	0.14	0.09	0.09	0.08	
5	0.33	0.33	0.78	5.40	16.28	1.35	0.75	0.28	0.14	0.09	0.09	0.08	
6	0.30	0.36	0.60	2.50	3.84	1.75	0.72	0.26	0.14	0.09	0.09	0.08	
7	0.30	0.36	0.51	0.95	2.85	1.30	0.66	0.26	0.14	0.09	0.09	0.08	
8	0.30	0.90	0.39	0.72	1.30	1.20	0.60	0.26	0.14	0.10	0.09	0.08	
9	0.30	1.20	0.69	0.60	0.90	1.10	0.57	0.24	0.14	0.16	0.09	0.08	
10	0.30	0.72	0.63	0.57	0.78	4.00	0.54	0.22	0.18	0.16	0.09	0.08	
11	0.30	0.69	0.87	0.54	0.75	2.71	0.54	0.20	0.26	0.16	0.09	0.08	
12	0.30	0.63	0.60	0.57	0.63	1.90	2.78	0.20	0.24	0.16	0.09	0.07	
13	0.28	0.60	0.48	0.54	0.57	1.85	2.57	0.18	0.22	0.16	0.09	0.07	
14	0.28	0.51	0.42	1.20	0.51	1.40	1.10	0.18	0.20	0.16	0.09	0.07	
15	0.28	0.36	0.45	0.69	0.51	1.30	0.75	0.18	0.16	0.14	0.09	0.07	
16	0.28	0.36	3.20	1.80	1.00	3.76	0.84	0.16	0.14	0.14	0.09	0.07	
17	0.28	0.69	1.15	0.87	0.84	3.13	0.69	0.16	0.14	0.12	0.09	0.07	
18	0.28	1.00	0.78	3.20	1.05	1.80	0.60	0.16	0.12	0.12	0.09	0.07	
19	0.28	0.75	0.63	1.10	32.10	3.36	0.57	0.16	0.12	0.12	0.08	0.07	
20	0.39	0.66	4.40	0.72	5.00	2.02	0.51	0.16	0.12	0.10	0.08	0.07	
21	0.48	0.60	2.08	2.44	3.38	1.40	0.48	0.16	0.12	0.10	0.08	0.07	
22	0.48	0.57	0.95	0.69	1.65	1.10	0.45	0.16	0.12	0.09	0.08	0.07	
23	0.48	0.57	1.00	0.57	36.85	8.60	0.45	0.16	0.12	0.09	0.08	0.08	
24	0.51	0.57	2.20	0.48	11.44	2.32	0.42	0.14	0.10	0.09	0.08	0.08	
25	0.51	0.54	5.30	0.45	19.28	6.48	0.42	0.14	0.10	0.09	0.08	0.08	
26	0.51	0.54	2.20	0.42	21.92	2.64	0.39	0.14	0.10	0.09	0.08	0.08	
27	0.51	0.69	1.85	0.39	6.36	1.75	0.39	0.14	0.10	0.09	0.08	0.08	
28	0.48	0.90	0.75	0.36	4.30	1.40	0.36	0.14	0.10	0.09	0.08	0.08	
29	0.48	0.75	0.75	0.36	4.00	1.20	0.33	0.14	0.10	0.09		0.08	
30	0.45	0.60	2.92	0.33	23.36	1.00	0.30	0.14	0.10	0.09		0.08	
31		0.57		0.66	5.20		0.30		0.10	0.09		0.08	
Total	10.99	18.52	43.12	35.85	218.39	70.31	22.41	5.84	4.32	3.43	2.42	2.37	437.97 CMSDAY
Mean	0.37	0.60	1.44	1.16	7.04	2.34	0.72	0.19	0.14	0.11	0.09	0.08	1.20 CMS
Max	0.51	1.20	5.30	5.40	36.85	8.60	2.78	0.28	0.26	0.16	0.09	0.08	36.85 CMS
Min	0.28	0.30	0.39	0.33	0.51	1.00	0.30	0.14	0.10	0.09	0.08	0.07	0.07 CMS
Runoff	0.950	1.600	3.726	3.097	18.869	6.075	1.936	0.505	0.373	0.296	0.209	0.205	37.841 MCM

Momentary Peak 115.25 CMS, at 4.25 M (A.D), at 14.00 Hours, on Aug 19, 1994
Runoff Yield 10.91 Liters/Second/Square KM, Momentary Peak Yield 1047.73 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

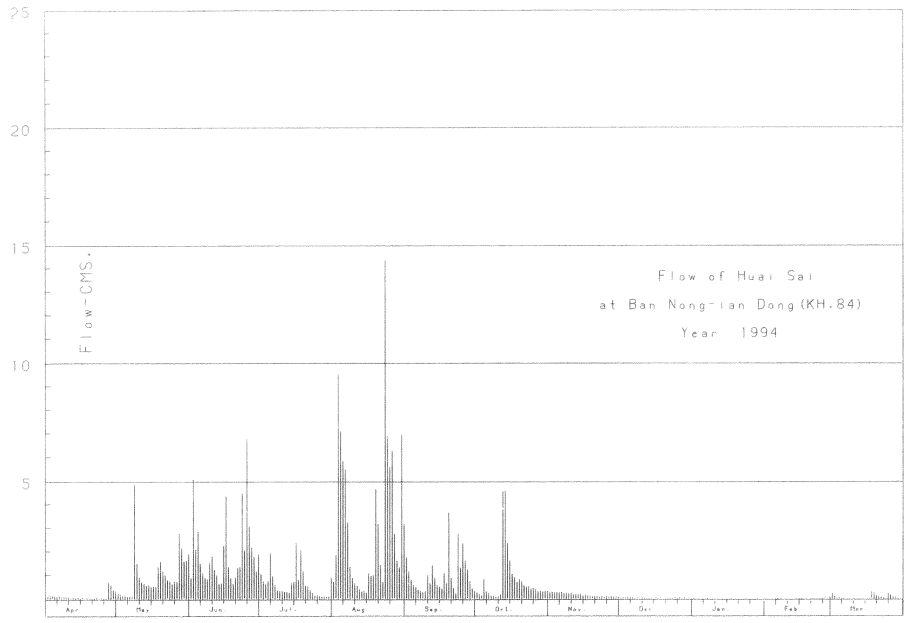
Huai Sai at Ban Nong-ian Dong, Muk Dahan (Kh.84)

Location	Lat. 16°-32'-15" N., Long. 104°-24'-20" E., on left bank at the bridge of Ban Huai Sai-Ban Nong-ian Dong Road, Amphoe Kham Cha-I, Muk Dahan.
Drainage Area	48 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Department.
Location	On left bank downstream side at the footpath of the bridge.
Elevation	+6.037 m.(A.D.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.06	1.08	1.18	1.20	1.16	1.28	1.09	1.09	1.03	1.01	1.01	1.08	
2	1.06	1.07	1.61	1.16	1.29	1.21	1.07	1.09	1.03	1.01	1.01	1.04	
3	1.06	1.06	1.31	1.15	1.97	1.17	1.06	1.09	1.03	1.01	1.01	1.03	
4	1.05	1.05	1.39	1.16	1.81	1.14	1.17	1.09	1.03	1.01	1.01	1.02	
5	1.05	1.05	1.25	1.30	1.69	1.13	1.10	1.09	1.03	1.01	1.01	1.01	
6	1.05	1.04	1.20	1.19	1.65	1.11	1.08	1.09	1.02	1.01	1.01	1.00	
7	1.04	1.04	1.18	1.14	1.43	1.10	1.06	1.08	1.02	1.01	1.01	1.00	
8	1.04	1.59	1.17	1.11	1.23	1.09	1.05	1.08	1.02	1.01	1.01	1.00	
9	1.04	1.25	1.25	1.10	1.18	1.10	1.04	1.08	1.02	1.00	1.01	1.00	
10	1.03	1.18	1.28	1.10	1.15	1.19	1.04	1.08	1.02	1.00	1.01	1.00	
11	1.03	1.16	1.22	1.10	1.14	1.15	1.07	1.07	1.02	1.00	1.01	1.00	
12	1.03	1.15	1.19	1.09	1.11	1.24	1.56	1.07	1.02	1.00	1.01	1.00	
13	1.03	1.14	1.15	1.09	1.10	1.18	1.56	1.07	1.02	1.00	1.01	1.00	
14	1.03	1.14	1.15	1.15	1.10	1.14	1.34	1.07	1.02	1.00	1.01	0.99	
15	1.02	1.13	1.33	1.16	1.09	1.13	1.26	1.06	1.02	1.00	1.01	0.99	
16	1.02	1.13	1.54	1.34	1.20	1.12	1.20	1.06	1.02	1.00	1.01	0.99	
17	1.02	1.13	1.23	1.17	1.19	1.20	1.18	1.06	1.02	1.00	1.01	0.98	
18	1.02	1.23	1.18	1.31	1.19	1.15	1.16	1.05	1.02	1.00	1.01	1.10	
19	1.02	1.26	1.15	1.21	1.57	1.47	1.17	1.05	1.02	1.00	1.01	1.08	
20	1.02	1.21	1.18	1.14	1.42	1.18	1.16	1.05	1.02	1.00	1.01	1.06	
21	1.02	1.19	1.23	1.13	1.24	1.12	1.14	1.05	1.02	1.00	1.01	1.05	
22	1.02	1.17	1.23	1.11	1.16	1.08	1.13	1.04	1.02	1.00	1.01	1.04	
23	1.02	1.16	1.55	1.08	2.18	1.38	1.13	1.04	1.02	1.00	1.01	1.02	
24	1.02	1.15	1.31	1.06	1.79	1.23	1.12	1.04	1.02	1.00	1.01	1.01	
25	1.02	1.16	1.78	1.06	1.66	1.34	1.12	1.04	1.02	1.00	1.01	1.08	
26	1.02	1.16	1.41	1.05	1.73	1.26	1.11	1.04	1.02	1.00	1.03	1.06	
27	1.16	1.38	1.32	1.05	1.38	1.22	1.10	1.04	1.02	1.00	1.01	1.04	
28	1.14	1.32	1.28	1.04	1.26	1.16	1.10	1.04	1.02	1.00	1.04	1.03	
29	1.11	1.26	1.21	1.04	1.23	1.12	1.10	1.04	1.02	1.00		1.02	
30	1.10	1.26	1.29	1.04	1.80	1.10	1.10	1.03	1.02	1.00		1.01	
31		1.29		1.18	1.42		1.10		1.02	1.00		1.00	
Mean	1.05	1.18	1.29	1.14	1.40	1.18	1.15	1.06	1.02	1.00	1.01	1.02	
Max	1.16	1.59	1.78	1.34	2.18	1.47	1.56	1.09	1.03	1.01	1.04	1.10	2.18
Min	1.02	1.04	1.15	1.04	1.09	1.08	1.04	1.03	1.02	1.00	1.01	0.98	0.98

Annual Max Momentary Gage Height 3.40 M (A.D), at 12.00 Hours, on Aug 23, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.29 M (A.D)
Left Bank Elevation 5.79 M (A.D)
Right Bank Elevation 5.76 M (A.D), Drainage Area 48 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.27	0.93	1.10	0.76	1.82	0.31	0.31	0.09	0.04	0.04	0.27	
2	0.18	0.22	5.10	0.76	1.91	1.19	0.22	0.31	0.09	0.04	0.04	0.12	
3	0.18	0.18	2.10	0.68	9.55	0.85	0.18	0.31	0.09	0.04	0.04	0.09	
4	0.14	0.14	2.90	0.76	7.15	0.61	0.85	0.31	0.09	0.04	0.04	0.07	
5	0.14	0.14	1.55	2.00	5.90	0.55	0.35	0.31	0.09	0.04	0.04	0.04	
6	0.14	0.12	1.10	1.02	5.50	0.42	0.27	0.31	0.07	0.04	0.04	0.02	
7	0.12	0.12	0.93	0.61	3.30	0.35	0.18	0.27	0.07	0.04	0.04	0.02	
8	0.12	4.90	0.85	0.42	1.37	0.31	0.14	0.27	0.07	0.04	0.04	0.02	
9	0.12	1.55	1.55	0.35	0.93	0.35	0.12	0.27	0.07	0.02	0.04	0.02	
10	0.09	0.93	1.82	0.35	0.68	1.02	0.12	0.27	0.07	0.02	0.04	0.02	
11	0.09	0.76	1.28	0.35	0.61	0.68	0.22	0.22	0.07	0.02	0.04	0.02	
12	0.09	0.68	1.02	0.31	0.42	1.46	4.60	0.22	0.07	0.02	0.04	0.02	
13	0.09	0.61	0.68	0.31	0.35	0.93	4.60	0.22	0.07	0.02	0.04	0.02	
14	0.09	0.61	0.68	0.68	0.35	0.61	2.40	0.22	0.07	0.02	0.04	0.02	
15	0.07	0.55	2.30	0.76	0.31	0.55	1.64	0.18	0.07	0.02	0.04	0.02	
16	0.07	0.55	4.40	2.40	1.10	0.48	1.10	0.18	0.07	0.02	0.04	0.02	
17	0.07	0.55	1.37	0.85	1.02	1.10	0.93	0.18	0.07	0.02	0.04	0.01	
18	0.07	1.37	0.93	2.10	1.02	0.68	0.76	0.14	0.07	0.02	0.04	0.35	
19	0.07	1.64	0.68	1.19	4.70	3.70	0.85	0.14	0.07	0.02	0.04	0.27	
20	0.07	1.19	0.93	0.61	3.20	0.93	0.76	0.14	0.07	0.02	0.04	0.18	
21	0.07	1.02	1.37	0.55	1.46	0.48	0.61	0.14	0.07	0.02	0.04	0.14	
22	0.07	0.85	1.37	0.42	0.76	0.27	0.55	0.12	0.07	0.02	0.04	0.12	
23	0.07	0.76	4.50	0.27	14.40	2.80	0.55	0.12	0.07	0.02	0.04	0.07	
24	0.07	0.68	2.10	0.18	6.90	1.37	0.48	0.12	0.07	0.02	0.04	0.04	
25	0.07	0.76	6.80	0.18	5.60	2.40	0.48	0.12	0.07	0.02	0.04	0.27	
26	0.07	0.76	3.10	0.14	6.30	1.64	0.42	0.12	0.07	0.02	0.09	0.18	
27	0.76	2.80	2.20	0.14	2.80	1.28	0.35	0.12	0.07	0.02	0.04	0.12	
28	0.61	2.20	1.82	0.12	1.64	0.76	0.35	0.12	0.07	0.02	0.12	0.09	
29	0.42	1.64	1.19	0.12	1.37	0.48	0.35	0.12	0.07	0.02		0.07	
30	0.35	1.64	1.91	0.12	7.00	0.35	0.35	0.09	0.07	0.02		0.04	
31		1.91		0.93	3.20		0.35		0.07	0.02		0.02	
Total	4.75	32.10	59.46	20.78	101.56	30.42	25.44	5.97	2.27	0.78	1.25	2.78	287.56 CMSDAY
Mean	0.16	1.04	1.98	0.67	3.28	1.01	0.82	0.20	0.07	0.03	0.04	0.09	0.79 CMS
Max	0.76	4.90	6.80	2.40	14.40	3.70	4.60	0.31	0.09	0.04	0.12	0.35	14.40 CMS
Min	0.07	0.12	0.68	0.12	0.31	0.27	0.12	0.09	0.07	0.02	0.04	0.01	0.01 CMS
Runoff	0.410	2.773	5.137	1.795	8.775	2.628	2.198	0.516	0.196	0.067	0.108	0.240	24.845 MCM

Momentary Peak 158.00 CMS, at 3.40 M (A.D), at 12.00 Hours, on Aug 23, 1994

Runoff Yield 16.41 Liters/Second/Square KM, Momentary Peak Yield 3291.67 Liters/Second/Square KM

WATER YEAR 1994

KHONG RIVER BASIN

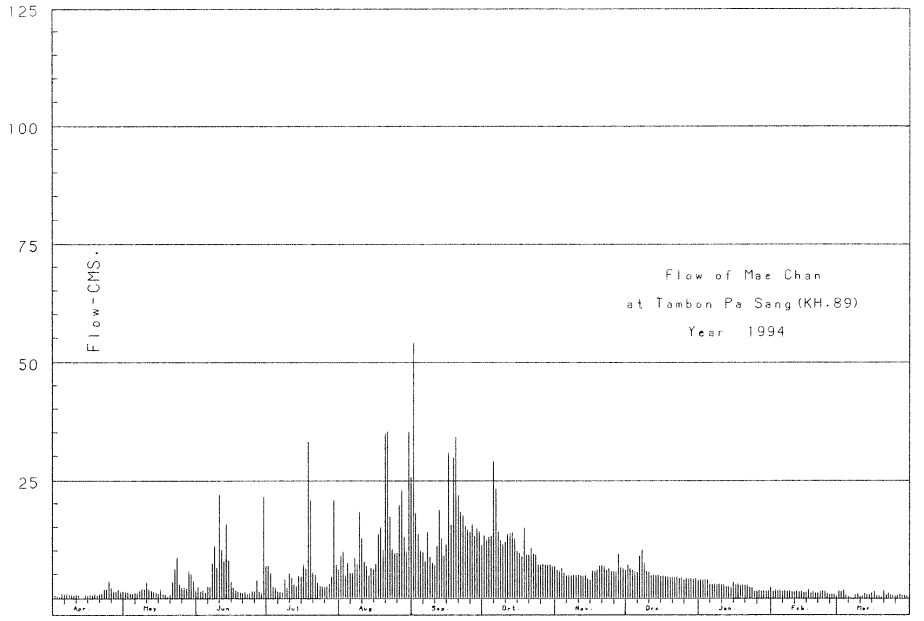
Nam Mae Chan at Ban Mae Khi, Chiang Rai (Kh.89)

Location	Lat. 20°-09'-20" N., Long. 90°-51'-44" E., on left bank at the bridge of Mae Chan - Mae Sai Highway, Tambon Pa Sang, 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The local weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 46 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.57	0.67	0.95	1.05	2.02	1.00	0.75	0.80	0.65	0.50	0.50	
2	0.40	0.54	0.59	0.88	1.08	1.33	0.97	0.74	0.76	0.65	0.51	0.48	
3	0.39	0.52	0.60	0.69	0.85	1.20	0.99	0.77	0.75	0.65	0.51	0.52	
4	0.50	0.50	0.54	0.66	0.98	1.09	1.00	0.72	0.73	0.65	0.51	0.41	
5	0.50	0.52	0.69	0.59	0.88	1.08	1.44	0.70	0.73	0.60	0.50	0.37	
6	0.49	0.53	0.67	0.54	0.87	1.00	1.30	0.70	0.86	0.60	0.50	0.37	
7	0.47	0.60	0.98	0.55	1.03	1.21	1.03	0.70	0.91	0.60	0.50	0.37	
8	0.47	0.62	1.12	0.81	0.97	1.04	0.97	0.70	0.81	0.60	0.50	0.41	
9	0.46	0.63	0.93	0.65	1.34	0.99	0.94	0.70	0.74	0.60	0.49	0.44	
10	0.46	0.76	1.44	0.87	1.17	0.96	0.96	0.70	0.73	0.60	0.49	0.39	
11	0.46	0.62	1.10	0.83	1.00	1.12	1.01	0.70	0.70	0.59	0.49	0.38	
12	0.35	0.60	1.00	0.72	0.95	1.35	1.02	0.69	0.70	0.57	0.49	0.45	
13	0.36	0.56	1.26	0.70	0.85	1.17	1.02	0.70	0.70	0.56	0.48	0.42	
14	0.46	0.54	1.01	0.84	0.93	1.05	0.98	0.66	0.70	0.56	0.47	0.43	
15	0.42	0.50	0.77	0.84	0.92	1.13	0.90	0.65	0.69	0.62	0.47	0.45	
16	0.46	0.62	0.66	0.97	0.97	1.63	0.88	0.74	0.69	0.60	0.52	0.50	
17	0.46	0.50	0.61	0.93	1.20	1.26	0.86	0.74	0.69	0.60	0.46	0.40	
18	0.49	0.46	0.56	1.68	1.24	1.61	1.06	0.75	0.68	0.59	0.48	0.39	
19	0.46	0.40	0.55	1.41	1.10	1.70	0.87	0.79	0.68	0.59	0.46	0.37	
20	0.50	0.46	0.52	0.88	1.71	1.26	0.87	0.79	0.68	0.59	0.45	0.50	
21	0.50	0.77	0.56	0.86	1.72	1.16	0.92	0.78	0.68	0.59	0.50	0.42	
22	0.63	0.92	0.50	0.75	1.31	1.14	0.88	0.75	0.68	0.56	0.50	0.45	
23	0.62	1.03	0.51	0.70	1.10	1.07	0.87	0.76	0.67	0.55	0.50	0.42	
24	0.78	0.73	0.59	0.69	1.07	1.04	0.80	0.74	0.67	0.50	0.45	0.40	
25	0.65	0.65	0.57	0.68	1.07	1.03	0.80	0.74	0.65	0.50	0.43	0.40	
26	0.57	0.65	0.80	0.69	1.38	1.08	0.80	0.73	0.66	0.50	0.43	0.40	
27	0.57	0.65	0.57	0.74	1.46	1.00	0.80	0.88	0.66	0.50	0.43	0.43	
28	0.62	0.90	0.52	0.83	1.18	1.05	0.79	0.77	0.66	0.50	0.39	0.40	
29	0.57	0.86	1.43	1.41	1.08	1.03	0.80	0.76	0.66	0.50		0.41	
30	0.57	0.78	0.95	0.97	1.72	0.94	0.78	0.75	0.66	0.50		0.38	
31		0.60		0.91	1.52		0.78		0.65	0.55		0.38	
Mean	0.50	0.63	0.78	0.85	1.15	1.19	0.94	0.73	0.71	0.57	0.48	0.42	
Max	0.78	1.03	1.44	1.68	1.72	2.02	1.44	0.88	0.91	0.65	0.52	0.52	2.02
Min	0.35	0.40	0.50	0.54	0.85	0.94	0.78	0.65	0.65	0.50	0.39	0.37	0.35

Annual Max Momentary Gage Height 2.20 M (A.D), at 18.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.05 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	1.49	2.40	6.90	9.20	54.30	13.40	6.15	7.30	4.05	1.70	1.70	
2	0.45	1.28	1.63	5.52	9.98	18.17	12.44	5.92	6.38	4.05	1.84	1.50	
3	0.40	1.14	1.70	2.60	4.95	13.83	13.08	6.61	6.15	4.05	1.84	1.98	
4	1.00	1.00	1.28	2.30	7.50	10.24	13.40	5.46	5.69	4.05	1.84	0.80	
5	1.00	1.14	2.60	1.63	5.52	9.98	29.10	5.00	5.69	3.10	1.70	0.49	
6	0.95	1.21	2.40	1.28	5.33	7.90	23.50	5.00	9.04	3.10	1.70	0.49	
7	0.84	1.70	7.50	1.35	8.68	14.17	14.30	5.00	10.52	3.10	1.70	0.49	
8	0.84	1.90	11.17	4.19	7.30	8.94	12.44	5.00	7.59	3.10	1.70	0.80	
9	0.78	2.00	6.50	2.20	18.50	7.70	11.48	5.00	5.92	3.10	1.60	1.10	
10	0.78	3.48	22.22	5.33	12.83	7.10	12.12	5.00	5.69	3.10	1.60	0.63	
11	0.78	1.90	10.50	4.57	7.90	11.17	13.70	5.00	5.00	2.96	1.60	0.56	
12	0.22	1.70	7.90	2.96	6.90	18.83	14.00	4.81	5.00	2.68	1.60	1.20	
13	0.27	1.42	15.83	2.70	4.95	12.83	14.00	5.00	5.00	2.54	1.50	0.90	
14	0.78	1.28	8.16	4.76	6.50	9.20	12.76	4.24	5.00	2.54	1.40	1.00	
15	0.56	1.00	3.61	4.76	6.30	11.50	10.20	4.05	4.81	3.48	1.40	1.20	
16	0.78	1.90	2.30	7.30	7.30	30.97	9.62	5.92	4.81	3.10	1.98	1.70	
17	0.78	1.00	1.80	6.50	13.83	15.83	9.04	5.92	4.81	3.10	1.30	0.70	
18	0.95	0.78	1.42	33.42	15.17	29.99	15.20	6.15	4.62	2.96	1.50	0.63	
19	0.78	0.45	1.35	20.93	10.50	34.40	9.33	7.07	4.62	2.96	1.30	0.49	
20	1.00	0.78	1.14	5.52	34.94	22:02	9.33	7.07	4.62	2.96	1.20	1.70	
21	1.00	3.61	1.42	5.14	35.48	18.44	10.84	6.84	4.62	2.96	1.70	0.90	
22	2.00	6.30	1.00	3.35	17.50	17.76	9.62	6.15	4.62	2.54	1.70	1.20	
23	1.90	8.68	1.07	2.70	10.50	15.50	9.33	6.38	4.43	2.40	1.70	0.90	
24	3.74	3.09	1.63	2.60	9.72	14.60	7.30	5.92	4.43	1.70	1.20	0.70	
25	2.20	2.20	1.49	2.50	9.72	14.30	7.30	5.92	4.05	1.70	1.00	0.70	
26	1.49	2.20	4.00	2.60	19.83	15.80	7.30	5.69	4.24	1.70	1.00	0.70	
27	1.49	2.20	1.49	3.22	23.08	13.40	7.30	9.62	4.24	1.70	1.00	1.00	
28	1.90	5.90	1.14	4.57	13.17	14.90	7.07	6.61	4.24	1.70	0.63	0.70	
29	1.49	5.14	21.79	20.93	9.98	14.30	7.30	6.38	4.24	1.70		0.80	
30	1.49	3.74	6.90	7.30	35.48	11.48	6.84	6.15	4.24	1.70		0.56	
31		1.70		6.10	25.74		6.84		4.05	2.40		0.56	
Total	33.36	73.31	155.34	187.73	414.28	499.55	359.48	175.03	165.66	86.28	41.93	28.78	2220.73 CMSDAY
Mean	1.11	2.36	5.18	6.06	13.36	16.65	11.60	5.83	5.34	2.78	1.50	0.93	6.08 CMS
Max	3.74	8.68	22.22	33.42	35.48	54.30	29.10	9.62	10.52	4.05	1.98	1.98	54.30 CMS
Min	0.22	0.45	1.00	1.28	4.95	7.10	6.84	4.05	4.05	1.70	0.63	0.49	0.22 CMS
Runoff	2.882	6.334	13.421	16.220	35.794	43.161	31.059	15.123	14.313	7.455	3.623	2.487	191.871 MCM

Momentary Peak 69.50 CMS, at 2.20 M (A.D), at 18.00 Hours, on Sep 18, 1994

Runoff Yield 23.86 Liters/Second/Square KM, Momentary Peak Yield 272.55 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

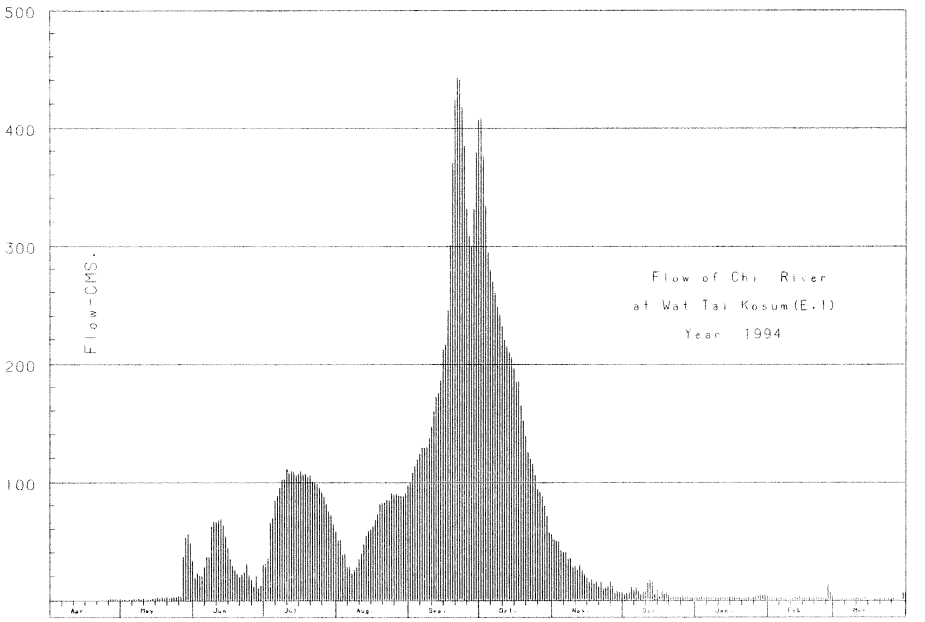
Chi River at Wat Tai Kosum, Maha Sarakham (E.1)

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 20 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.39	136.48	137.19	137.43	137.79	138.61	143.01	137.81	136.77	136.62	136.60	136.53	
2	136.38	136.45	137.27	137.53	137.79	138.75	142.61	137.78	136.78	136.62	136.59	136.54	
3	136.38	136.45	137.24	138.03	137.59	138.83	142.07	137.78	136.84	136.63	136.59	136.48	
4	136.37	136.45	137.21	138.11	137.59	138.94	141.54	137.64	136.99	136.62	136.59	136.50	
5	136.35	136.44	137.38	138.35	137.38	139.02	141.33	137.62	136.91	136.63	136.59	136.49	
6	136.35	136.49	137.55	138.43	137.38	139.09	141.20	137.63	136.97	136.62	136.58	136.53	
7	136.37	136.51	137.54	138.54	137.27	139.09	141.05	137.52	136.88	136.63	136.57	136.53	
8	136.38	136.52	137.99	138.64	137.32	139.11	140.89	137.52	136.73	136.63	136.56	136.52	
9	136.39	136.51	138.05	138.66	137.38	139.24	140.79	137.38	136.86	136.63	136.51	136.55	
10	136.40	136.51	138.04	138.79	137.50	139.39	140.66	137.39	136.87	136.61	136.52	136.62	
11	136.39	136.51	138.07	138.73	137.61	139.60	140.49	137.34	137.10	136.60	136.56	136.53	
12	136.39	136.51	138.10	138.78	137.73	139.78	140.40	137.40	137.14	136.62	136.62	136.52	
13	136.38	136.50	138.01	138.76	137.86	139.84	140.34	137.33	137.13	136.62	136.62	136.56	
14	136.38	136.50	137.84	138.72	137.92	139.99	140.27	137.25	136.76	136.62	136.63	136.57	
15	136.38	136.59	137.69	138.74	137.95	140.38	140.14	137.21	136.89	136.62	136.61	136.53	
16	136.38	136.60	137.52	138.76	137.98	140.42	139.97	137.09	136.67	136.64	136.58	136.46	
17	136.37	136.59	137.39	138.72	138.09	140.85	139.99	137.17	136.89	136.64	136.59	136.40	
18	136.37	136.62	137.33	138.72	138.15	141.61	139.68	137.06	136.76	136.62	136.60	136.44	
19	136.39	136.62	137.25	138.69	138.31	142.54	139.47	137.10	136.86	136.58	136.58	136.51	
20	136.39	136.63	137.22	138.70	138.31	143.19	139.27	137.01	136.71	136.58	136.56	136.54	
21	136.38	136.61	137.24	138.63	138.33	143.42	139.03	137.12	136.65	136.60	136.62	136.52	
22	136.36	136.63	137.29	138.60	138.37	143.41	138.95	136.94	136.63	136.60	136.61	136.53	
23	136.37	136.62	137.42	138.59	138.35	143.13	138.87	136.99	136.64	136.60	136.58	136.50	
24	136.45	136.65	137.23	138.53	138.46	142.71	138.72	137.00	136.64	136.60	136.58	136.50	
25	136.50	136.66	137.14	138.48	138.42	142.02	138.52	137.13	136.65	136.64	136.59	136.58	
26	136.49	136.65	137.02	138.40	138.44	141.72	138.47	137.00	136.65	136.66	137.04	136.53	
27	136.51	137.56	137.23	138.31	138.43	141.59	138.42	136.82	136.65	136.70	136.85	136.49	
28	136.49	137.83	136.95	138.19	138.41	142.03	138.27	136.86	136.63	136.72	136.71	136.46	
29	136.50	137.89	137.03	138.15	138.42	142.65	138.14	136.86	136.63	136.74		136.44	
30	136.51	137.76	137.43	138.01	138.45	142.99	137.89	136.81	136.62	136.71		136.83	
31		137.48		137.91	138.57		137.87		136.62	136.67		136.77	
Mean	136.40	136.74	137.46	138.44	137.99	140.80	139.95	137.25	136.79	136.63	136.62	136.53	
Max	136.51	137.89	138.10	138.79	138.57	143.42	143.01	137.81	137.14	136.74	137.04	136.83	143.42
Min	136.35	136.44	136.95	137.43	137.27	138.61	137.87	136.81	136.62	136.58	136.51	136.40	136.35

Annual Max Momentary Gage Height 143.50 M (MSL), at 6.00 Hours, on Sep 22, 1994
Zero Gage at Bottom Elevation 136.64 M (MSL), River Bed 136.31 M (MSL)
Left Bank Elevation 147.30 M (MSL)
Right Bank Elevation 149.20 M (MSL), Drainage Area 29788 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	1.30	19.60	31.50	51.40	100.60	408.82	52.60	5.90	2.90	2.50	1.80	
2	0.40	1.00	23.50	36.50	51.40	109.00	376.80	50.80	6.10	2.90	2.40	1.90	
3	0.40	1.00	22.00	65.80	39.50	113.80	335.25	50.80	7.50	3.10	2.40	1.30	
4	0.35	1.00	20.50	70.60	39.50	120.40	295.50	42.40	11.70	2.90	2.40	1.50	
5	0.25	0.90	29.00	85.00	29.00	125.20	280.10	41.20	9.30	3.10	2.40	1.40	
6	0.25	1.40	37.50	89.80	29.00	129.40	271.00	41.80	11.10	2.90	2.30	1.80	
7	0.35	1.60	37.00	96.40	23.50	129.40	260.50	36.00	8.50	3.10	2.20	1.80	
8	0.40	1.70	63.40	102.40	26.00	130.60	249.30	36.00	5.10	3.10	2.10	1.70	
9	0.45	1.60	67.00	103.60	29.00	138.40	242.30	29.00	8.00	3.10	1.60	2.00	
10	0.50	1.60	66.40	111.40	35.00	147.40	233.20	29.50	8.25	2.70	1.70	2.90	
11	0.45	1.60	68.20	107.80	40.60	161.00	221.30	27.00	16.00	2.50	2.10	1.80	
12	0.45	1.60	70.00	110.80	47.80	172.70	215.00	30.00	17.60	2.90	2.90	1.70	
13	0.40	1.50	64.60	109.60	55.60	176.60	210.80	26.50	17.20	2.90	2.90	2.10	
14	0.40	1.50	54.40	107.20	59.20	186.35	205.90	22.50	5.70	2.90	3.10	2.20	
15	0.40	2.40	45.40	108.40	61.00	213.60	196.80	20.50	8.75	2.90	2.70	1.80	
16	0.40	2.50	36.00	109.60	62.80	216.40	185.05	15.60	3.90	3.30	2.30	1.10	
17	0.35	2.40	29.50	107.20	69.40	246.50	186.35	18.80	8.75	3.30	2.40	0.50	
18	0.35	2.90	26.50	107.20	73.00	300.75	166.20	14.40	5.70	2.90	2.50	0.90	
19	0.45	2.90	22.50	105.40	82.60	371.20	152.55	16.00	8.00	2.30	2.30	1.60	
20	0.45	3.10	21.00	106.00	82.60	423.58	140.20	12.40	4.70	2.30	2.10	1.90	
21	0.40	2.70	22.00	101.80	83.80	442.44	125.80	16.80	3.50	2.50	2.90	1.70	
22	0.30	3.10	24.50	100.00	86.20	441.62	121.00	10.20	3.10	2.50	2.70	1.80	
23	0.35	2.90	31.00	99.40	85.00	418.66	116.20	11.70	3.30	2.50	2.30	1.50	
24	1.00	3.50	21.50	95.80	91.60	384.80	107.20	12.00	3.30	2.50	2.30	1.50	
25	1.50	3.70	17.60	92.80	89.20	331.50	95.20	17.20	3.50	3.30	2.40	2.30	
26	1.40	3.50	12.80	88.00	90.40	309.00	92.20	12.00	3.50	3.70	13.60	1.80	
27	1.60	38.00	21.50	82.60	89.80	299.25	89.20	7.00	3.50	4.50	7.75	1.40	
28	1.40	53.80	10.50	75.40	88.60	332.25	80.20	8.00	3.10	4.90	4.70	1.10	
29	1.50	57.40	13.20	73.00	89.20	380.00	72.40	8.00	3.10	5.30		0.90	
30	1.60	49.60	31.50	64.60	91.00	407.20	57.40	6.75	2.90	4.70		7.25	
31		34.00		58.60	98.20		56.20		2.90	3.90		5.90	
Total	18.95	287.70	1030.10	2804.20	1970.90	7459.60	5845.92	723.45	213.45	98.30	85.95	60.85	20599.37 CMSDAY
Mean	0.63	9.28	34.34	90.46	63.58	248.65	188.58	24.12	6.89	3.17	3.07	1.96	56.44 CMS
Max	1.60	57.40	70.00	111.40	98.20	442.44	408.82	52.60	17.60	5.30	13.60	7.25	442.44 CMS
Min	0.25	0.90	10.50	31.50	23.50	100.60	56.20	6.75	2.90	2.30	1.60	0.50	0.25 CMS
Runoff	1.637	24.857	89.001	242.283	170.286	644.509	505.088	62.506	18.442	8.493	7.426	5.257	1779.786 MCM

Momentary Peak 449.00 CMS, at 143.50 M (MSL), at 6.00 Hours, on Sep 22, 1994

Runoff Yield 1.89 Liters/Second/Square KM, Momentary Peak Yield 15.07 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

Chi River at Ban Non Puai, Chaiyaphum (E.5)

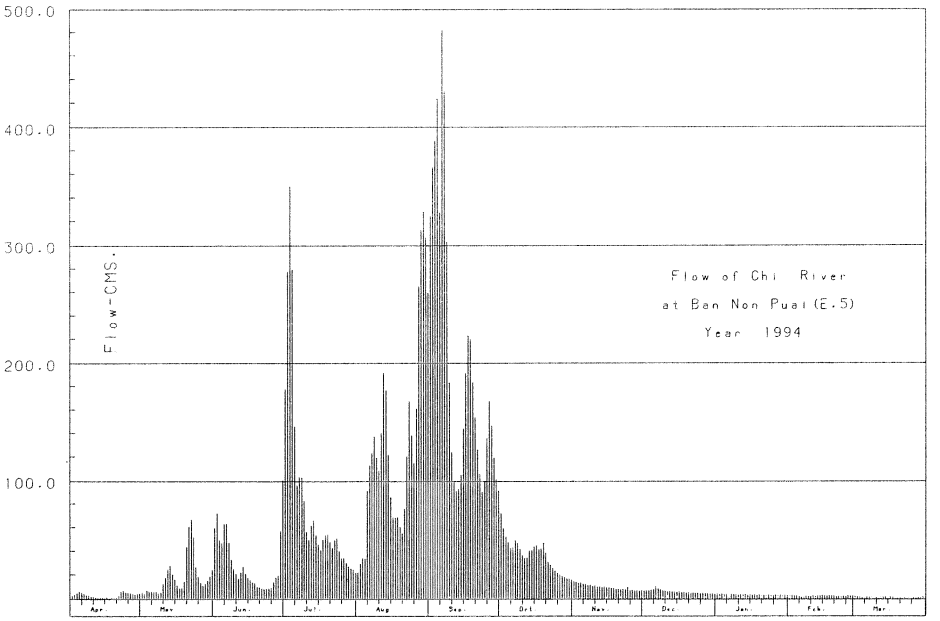
Location — Lat. 15-46-07 N., Long. 101-49-03 E., on left bank near Ban Non Puai about 30 meters downstream from Ban Tango, Amphoe Ban Khwao, Chaiyaphum.

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.15	190.26	191.00	193.50	190.58	196.02	191.10	190.47	190.31	190.22	190.17	190.15	
2	190.17	190.21	191.10	195.42	190.69	196.42	191.00	190.46	190.31	190.22	190.17	190.12	
3	190.24	190.32	190.91	196.29	190.74	196.59	190.94	190.45	190.32	190.22	190.16	190.11	
4	190.27	190.31	190.88	195.44	190.74	196.82	190.89	190.45	190.32	190.22	190.15	190.11	
5	190.26	190.29	191.03	192.81	191.27	196.06	190.84	190.44	190.34	190.21	190.14	190.11	
6	190.22	190.26	191.03	191.41	191.89	197.10	190.84	190.43	190.40	190.21	190.14	190.10	
7	190.18	190.28	190.89	191.59	192.18	196.85	190.91	190.42	190.36	190.21	190.13	190.10	
8	190.15	190.22	190.73	191.60	192.58	195.77	190.88	190.42	190.33	190.21	190.14	190.09	
9	190.12	190.26	190.62	191.16	192.08	193.64	190.83	190.41	190.32	190.20	190.14	190.09	
10	190.09	190.43	190.56	190.97	191.75	192.20	190.77	190.41	190.30	190.20	190.14	190.09	
11	190.07	190.52	190.51	190.91	192.67	191.51	190.74	190.40	190.30	190.20	190.15	190.09	
12	190.05	190.62	190.58	191.02	193.81	191.26	190.75	190.39	190.29	190.20	190.14	190.10	
13	190.04	190.66	190.65	191.05	193.49	191.31	190.81	190.39	190.29	190.20	190.15	190.10	
14	190.02	190.56	190.57	190.95	192.14	191.66	190.82	190.39	190.28	190.19	190.17	190.09	
15	190.04	190.49	190.52	190.87	191.18	192.76	190.85	190.38	190.28	190.20	190.16	190.09	
16	190.03	190.41	190.48	190.82	191.07	193.80	190.86	190.37	190.28	190.20	190.15	190.10	
17	190.01	190.36	190.46	190.91	191.07	194.50	190.83	190.37	190.27	190.19	190.15	190.10	
18	190.00	190.35	190.44	190.95	191.07	194.43	190.83	190.36	190.26	190.19	190.16	190.06	
19	190.02	190.47	190.39	190.95	191.01	193.65	190.89	190.35	190.26	190.19	190.17	190.06	
20	190.02	190.85	190.37	190.89	190.96	192.97	190.79	190.34	190.26	190.18	190.15	190.08	
21	190.15	191.01	190.35	190.84	191.12	192.28	190.71	190.34	190.25	190.18	190.13	190.07	
22	190.29	191.06	190.34	190.91	192.11	191.67	190.67	190.34	190.25	190.18	190.13	190.05	
23	190.30	190.93	190.34	190.92	193.27	191.23	190.64	190.34	190.25	190.19	190.13	190.04	
24	190.27	190.64	190.36	190.81	192.62	191.49	190.60	190.38	190.24	190.18	190.13	190.02	
25	190.24	190.53	190.36	190.74	191.93	192.55	190.58	190.32	190.24	190.18	190.14	190.02	
26	190.23	190.45	190.46	190.74	193.14	193.27	190.55	190.32	190.24	190.18	190.16	190.05	
27	190.22	190.41	190.52	190.70	195.23	192.82	190.54	190.31	190.24	190.18	190.16	190.05	
28	190.19	190.43	190.54	190.65	195.88	192.08	190.52	190.31	190.23	190.19	190.15	190.05	
29	190.22	190.48	190.98	190.63	196.07	191.54	190.51	190.31	190.23	190.18		190.07	
30	190.22	190.53	191.52	190.61	195.81	191.27	190.50	190.31	190.22	190.18		190.09	
31		190.61		190.58	195.13		190.49		190.22	190.17		190.09	
Mean	190.15	190.49	190.65	191.54	192.43	193.52	190.76	190.38	190.28	190.20	190.15	190.08	
Max	190.30	191.06	191.52	196.29	196.07	197.10	191.10	190.47	190.40	190.22	190.17	190.15	197.10
Min	190.00	190.21	190.34	190.58	190.58	191.23	190.49	190.31	190.22	190.17	190.13	190.02	190.00

Annual Max Momentary Gage Height 197.14 M (MSL), at 1.00 Hours, on Sep 6, 1994
Zero Gage at Bottom Elevation 186.07 M (MSL), River Bed 185.67 M (MSL)
Left Bank Elevation 197.16 M (MSL)
Right Bank Elevation 197.42 M (MSL), Drainage Area 4254 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.00	5.80	60.00	178.00	22.60	324.80	73.00	15.20	7.40	4.60	3.40	3.00	
2	3.40	4.30	73.00	278.40	30.30	366.60	60.00	14.60	7.40	4.60	3.40	2.40	
3	5.20	7.80	50.10	351.00	34.60	388.70	53.40	14.00	7.80	4.60	3.20	2.20	
4	6.10	7.40	47.20	279.80	34.60	424.80	48.10	14.00	7.80	4.60	3.00	2.20	
5	5.80	6.70	63.90	146.95	92.10	328.40	43.60	13.40	8.60	4.30	2.80	2.20	
6	4.60	5.80	63.90	96.85	113.65	483.00	43.60	12.80	11.00	4.30	2.80	2.00	
7	3.60	6.40	48.10	103.15	123.80	430.50	50.10	12.20	9.40	4.30	2.60	2.00	
8	3.00	4.60	33.70	103.50	137.80	303.60	47.20	12.20	8.20	4.30	2.80	1.90	
9	2.40	5.80	25.40	83.20	120.30	184.30	42.70	11.60	7.80	4.00	2.80	1.90	
10	1.90	12.80	21.20	56.70	108.75	124.50	37.30	11.60	7.00	4.00	2.80	1.90	
11	1.70	18.40	17.70	50.10	141.30	100.35	34.60	11.00	7.00	4.00	3.00	1.90	
12	1.50	25.40	22.60	62.60	191.95	91.80	35.50	10.60	6.70	4.00	2.80	2.00	
13	1.40	28.20	27.50	66.50	177.55	93.35	40.90	10.60	6.70	4.00	3.00	2.00	
14	1.20	21.20	21.90	54.50	122.40	105.60	41.80	10.60	6.40	3.80	3.40	1.90	
15	1.40	16.40	18.40	46.30	86.60	144.90	44.50	10.20	6.40	4.00	3.20	1.90	
16	1.30	11.60	15.80	41.80	69.10	191.50	45.40	9.80	6.40	4.00	3.00	2.00	
17	1.10	9.40	14.60	50.10	69.10	224.00	42.70	9.80	6.10	3.80	3.00	2.00	
18	1.00	9.00	13.40	54.50	69.10	220.50	42.70	9.40	5.80	3.80	3.20	1.60	
19	1.20	15.20	10.60	54.50	61.30	184.75	48.10	9.00	5.80	3.80	3.40	1.60	
20	1.20	44.50	9.80	48.10	55.60	154.15	39.10	8.60	5.80	3.60	3.00	1.80	
21	3.00	61.30	9.00	43.60	76.40	127.30	31.90	8.60	5.50	3.60	2.60	1.70	
22	6.70	67.80	8.60	50.10	121.35	105.95	28.90	8.60	5.50	3.60	2.60	1.50	
23	7.00	52.30	8.60	51.20	167.65	90.90	26.80	8.60	5.50	3.80	2.60	1.40	
24	6.10	26.80	9.40	40.90	139.30	99.65	24.00	10.20	5.20	3.60	2.60	1.20	
25	5.20	19.10	9.40	34.60	115.05	136.75	22.60	7.80	5.20	3.60	2.80	1.20	
26	4.90	14.00	14.60	34.60	161.80	167.65	20.50	7.80	5.20	3.60	3.20	1.50	
27	4.60	11.60	18.40	31.00	265.80	147.40	19.80	7.40	5.20	3.60	3.20	1.50	
28	3.80	12.80	19.80	27.50	312.80	120.30	18.40	7.40	4.90	3.80	3.00	1.50	
29	4.60	15.80	57.80	26.10	329.30	101.40	17.70	7.40	4.90	3.60		1.70	
30	4.60	19.10	100.70	24.70	306.85	92.10	17.00	7.40	4.60	3.60		1.90	
31		24.70		22.60	259.80		16.40		4.60	3.40		1.90	
Total	102.50	592.00	915.10	2593.45	4118.60	6059.50	1158.30	312.40	201.80	122.20	83.20	57.40	16316.45 CMSDAY
Mean	3.42	19.10	30.50	83.66	132.86	201.98	37.36	10.41	6.51	3.94	2.97	1.85	44.70 CMS
Max	7.00	67.80	100.70	351.00	329.30	483.00	73.00	15.20	11.00	4.60	3.40	3.00	483.00 CMS
Min	1.00	4.30	8.60	22.60	22.60	90.90	16.40	7.40	4.60	3.40	2.60	1.20	1.00 CMS
Runoff	8.856	51.149	79.065	224.074	355.847	523.541	100.077	26.991	17.436	10.558	7.188	4.959	1409.741 MCM

Momentary Peak 494.20 CMS, at 197.14 M (MSL), at 1.00 Hours, on Sep 6, 1994

Runoff Yield 10.51 Liters/Second/Square KM, Momentary Peak Yield 116.17 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

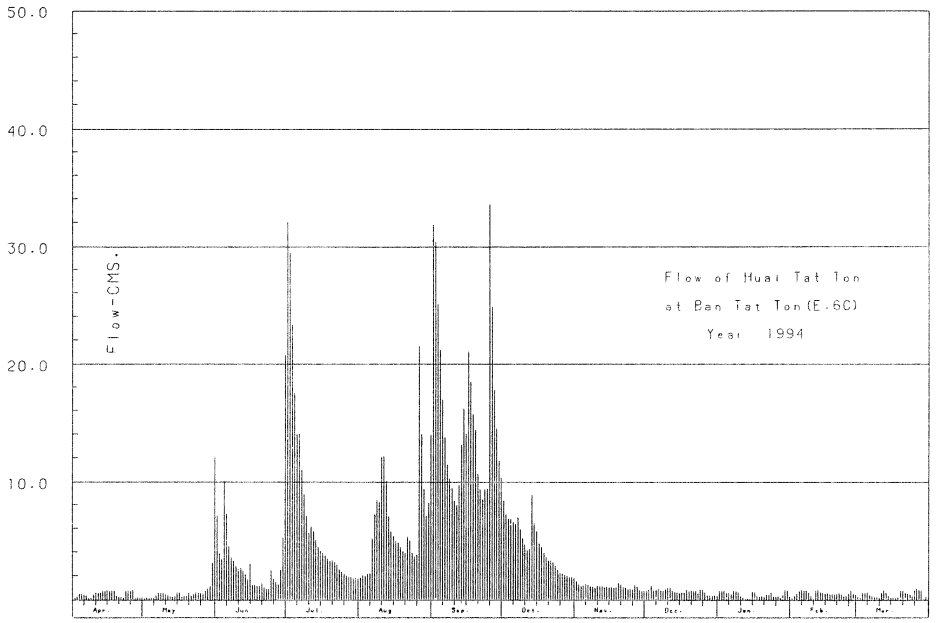
Huai Tat Ton at Ban Tat Ton, Chaiyaphum (E.6C).

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. Stage-discharge relation defined by 22 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.30	-0.30	1.15	3.97	0.21	3.95	1.34	0.14	-0.08	-0.10	-0.32	-0.28	
2	-0.27	-0.30	0.66	3.74	0.25	3.82	1.17	0.06	-0.08	-0.10	-0.24	-0.29	
3	-0.18	-0.30	0.56	3.11	0.25	3.30	1.12	0.04	0.04	-0.10	-0.19	-0.16	
4	-0.20	-0.30	1.58	2.46	0.28	2.87	1.11	0.04	-0.09	-0.15	-0.10	-0.15	
5	-0.21	-0.30	1.18	2.08	0.30	2.40	1.08	0.08	-0.07	-0.16	-0.08	-0.15	
6	-0.24	-0.23	0.76	2.08	0.87	2.05	1.05	0.05	-0.04	-0.18	-0.08	-0.22	
7	-0.30	-0.16	0.59	1.71	1.17	1.78	1.13	0.03	-0.08	-0.10	-0.09	-0.25	
8	-0.30	-0.14	0.52	1.41	1.34	1.60	0.99	0.01	-0.10	-0.10	-0.14	-0.27	
9	-0.20	-0.15	0.44	1.15	1.32	1.49	0.88	-0.01	-0.04	-0.14	-0.24	-0.28	
10	-0.16	-0.20	0.38	0.95	1.86	1.33	0.79	0.03	-0.01	-0.24	-0.29	-0.28	
11	-0.15	-0.22	0.41	1.02	1.87	1.28	0.71	0.03	0.00	-0.30	-0.08	-0.15	
12	-0.15	-0.26	0.35	0.97	1.58	1.52	0.72	0.02	-0.10	-0.32	-0.08	-0.09	
13	-0.10	-0.28	0.28	0.85	1.15	1.98	1.41	0.01	-0.12	-0.33	-0.13	-0.15	
14	-0.10	-0.25	0.17	0.75	0.96	2.32	1.06	0.01	-0.15	-0.32	-0.16	-0.25	
15	-0.10	-0.15	0.48	0.70	0.91	2.08	0.97	0.01	-0.15	-0.13	-0.17	-0.29	
16	-0.10	-0.15	0.06	0.66	0.84	2.86	0.81	0.00	-0.15	-0.13	-0.17	-0.30	
17	-0.10	-0.26	0.05	0.62	0.82	2.57	0.75	0.00	-0.14	-0.25	-0.19	-0.30	
18	-0.09	-0.26	0.04	0.56	0.75	2.27	0.67	0.00	-0.07	-0.26	-0.19	-0.29	
19	-0.24	-0.24	0.02	0.53	0.70	2.12	0.59	0.10	-0.10	-0.26	-0.19	-0.09	
20	-0.27	-0.16	0.09	0.53	0.66	1.66	0.54	0.06	-0.10	-0.26	-0.19	-0.09	
21	-0.29	-0.23	-0.01	0.51	0.90	1.47	0.53	0.01	-0.10	-0.22	-0.15	-0.15	
22	-0.29	-0.19	-0.03	0.46	0.85	1.35	0.51	-0.01	-0.11	-0.20	-0.20	-0.18	
23	-0.10	-0.15	-0.06	0.38	0.67	1.47	0.44	-0.04	-0.15	-0.15	-0.24	-0.20	
24	-0.10	-0.15	0.36	0.32	0.60	1.48	0.38	-0.04	-0.07	-0.25	-0.25	-0.21	
25	-0.09	-0.17	0.18	0.28	0.64	4.11	0.31	-0.05	-0.06	-0.25	-0.17	-0.08	
26	-0.08	-0.18	0.11	0.25	2.91	3.28	0.29	0.05	-0.15	-0.26	-0.10	-0.04	
27	-0.29	-0.09	0.07	0.23	2.08	2.50	0.27	0.02	-0.22	-0.30	-0.17	-0.07	
28	-0.29	-0.04	0.37	0.21	1.48	2.13	0.24	-0.08	-0.23	-0.21	-0.21	-0.10	
29	-0.29	0.03	0.89	0.19	1.15	1.82	0.22	-0.10	-0.23	-0.08		-0.26	
30	-0.30	0.50	2.82	0.19	1.31	1.61	0.21	-0.11	-0.23	-0.08		-0.27	
31		1.86		0.18	2.07		0.19		-0.23	-0.27		-0.28	
Mean	-0.20	-0.11	0.48	1.07	1.06	2.22	0.73	0.01	-0.11	-0.20	-0.17	-0.20	
Max	-0.08	1.86	2.82	3.97	2.91	4.11	1.41	0.14	0.04	-0.08	-0.08	-0.04	4.11
Min	-0.30	-0.30	-0.06	0.18	0.21	1.28	0.19	-0.11	-0.23	-0.33	-0.32	-0.30	-0.33

Annual Max Momentary Gage Height 4.17 M (A.D), at 6.00 Hours, on Sep 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.45 M (A.D)
Left Bank Elevation 7.66 M (A.D)
Right Bank Elevation 7.00 M (A.D), Drainage Area 300 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.20	7.15	32.07	1.94	31.85	8.48	1.66	0.86	0.80	0.16	0.26	
2	0.29	0.20	4.00	29.54	2.10	30.42	7.29	1.34	0.86	0.80	0.38	0.23	
3	0.56	0.20	3.50	23.39	2.10	25.10	6.94	1.26	1.26	0.80	0.53	0.62	
4	0.50	0.20	10.16	17.54	2.22	21.23	6.87	1.26	0.83	0.65	0.80	0.65	
5	0.47	0.20	7.36	14.12	2.30	17.00	6.66	1.42	0.89	0.62	0.86	0.65	
6	0.38	0.41	4.56	14.12	5.22	13.85	6.45	1.30	0.98	0.56	0.86	0.44	
7	0.20	0.62	3.65	11.07	7.29	11.56	7.01	1.22	0.86	0.80	0.83	0.35	
8	0.20	0.68	3.30	8.97	8.48	10.30	6.03	1.14	0.80	0.80	0.68	0.29	
9	0.50	0.65	2.90	7.15	8.34	9.53	5.28	1.07	0.98	0.68	0.38	0.26	
10	0.62	0.50	2.62	5.75	12.18	8.41	4.74	1.22	1.07	0.38	0.23	0.26	
11	0.65	0.44	2.75	6.24	12.26	8.06	4.26	1.22	1.10	0.20	0.86	0.65	
12	0.65	0.32	2.50	5.89	10.16	9.74	4.32	1.18	0.80	0.16	0.86	0.83	
13	0.80	0.26	2.22	5.10	7.15	13.22	8.97	1.14	0.74	0.14	0.71	0.65	
14	0.80	0.35	1.78	4.50	5.82	16.28	6.52	1.14	0.65	0.16	0.62	0.35	
15	0.80	0.65	3.10	4.20	5.47	14.12	5.89	1.14	0.65	0.71	0.59	0.23	
16	0.80	0.65	1.34	4.00	5.04	21.14	4.86	1.10	0.65	0.71	0.59	0.20	
17	0.80	0.32	1.30	3.80	4.92	18.53	4.50	1.10	0.68	0.35	0.53	0.20	
18	0.83	0.32	1.26	3.50	4.50	15.83	4.05	1.10	0.89	0.32	0.53	0.23	
19	0.38	0.38	1.18	3.35	4.20	14.48	3.65	1.50	0.80	0.32	0.53	0.83	
20	0.29	0.62	1.46	3.35	4.00	10.72	3.40	1.34	0.80	0.32	0.53	0.83	
21	0.23	0.41	1.07	3.25	5.40	9.39	3.35	1.14	0.80	0.44	0.65	0.65	
22	0.23	0.53	1.01	3.00	5.10	8.55	3.25	1.07	0.77	0.50	0.50	0.56	
23	0.80	0.65	0.92	2.62	4.05	9.39	2.90	0.98	0.65	0.65	0.38	0.50	
24	0.80	0.65	2.54	2.38	3.70	9.46	2.62	0.98	0.89	0.35	0.35	0.47	
25	0.83	0.59	1.82	2.22	3.90	33.61	2.34	0.95	0.92	0.35	0.59	0.86	
26	0.86	0.56	1.54	2.10	21.59	24.92	2.26	1.30	0.65	0.32	0.80	0.98	
27	0.23	0.83	1.38	2.02	14.12	17.90	2.18	1.18	0.44	0.20	0.59	0.89	
28	0.23	0.98	2.58	1.94	9.46	14.57	2.06	0.86	0.41	0.47	0.47	0.80	
29	0.23	1.22	5.34	1.86	7.15	11.86	1.98	0.80	0.41	0.86		0.32	
30	0.20	3.20	20.78	1.86	8.27	10.37	1.94	0.77	0.41	0.86		0.29	
31		12.18		1.82	14.03		1.86		0.41	0.29		0.26	
Total	15.36	29.97	107.07	232.72	212.46	471.39	142.91	34.88	23.91	15.57	16.39	15.59	1318.22 CMSDAY
Mean	0.51	0.97	3.57	7.51	6.85	15.71	4.61	1.16	0.77	0.50	0.59	0.50	3.61 CMS
Max	0.86	12.18	20.78	32.07	21.59	33.61	8.97	1.66	1.26	0.86	0.86	0.98	33.61 CMS
Min	0.20	0.20	0.92	1.82	1.94	8.06	1.86	0.77	0.41	0.14	0.16	0.20	0.14 CMS
Runoff	1.327	2.589	9.251	20.107	18.357	40.728	12.347	3.014	2.066	1.345	1.416	1.347	113.894 MCM

Momentary Peak 34.27 CMS, at 4.17 M (A.D), at 6.00 Hours, on Sep 25, 1994

Runoff Yield 12.04 Liters/Second/Square KM, Momentary Peak Yield 114.23 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

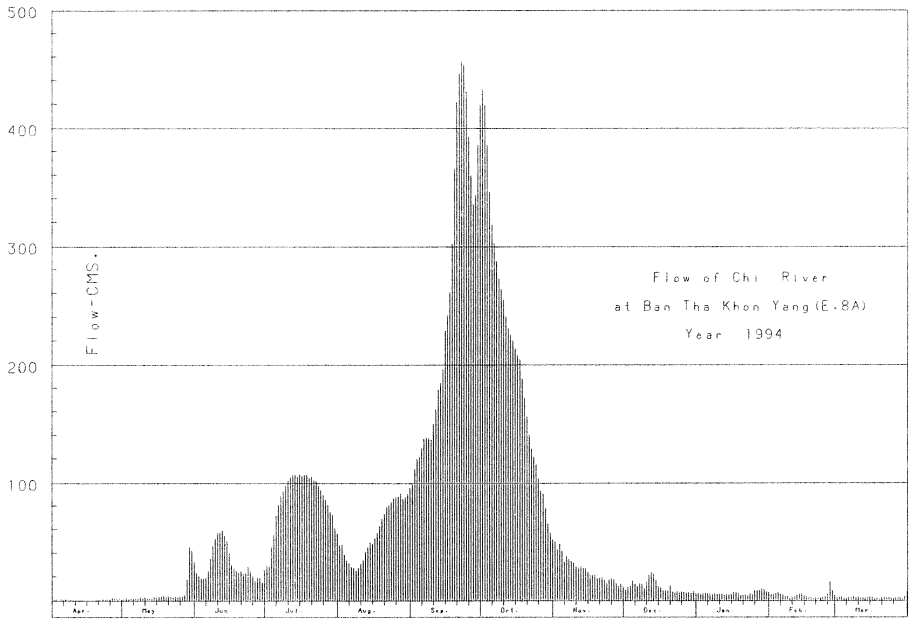
Chi River at Ban Din Dam, Maha Sarakham (E.8A)

Location	Lat. 16°13′51″ N., Long. 103°16′29″ E., on right bank at the bridge of Maha Sarakham-Kalasin Highway, Amphoe Muang, Maha Sarakham.
Drainage Area	30,764 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+133.21 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+144.420 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1955 to date.
Rating Operation	
Period of Rating	1955-1957, 1965-1976, 1982 to date.
Rated by Float	-
Rated by Current Meter	1955-1957, 1965-1976, 1982 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Nam Phong Dam above gage site. Stage-discharge relation defined by 20 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	133.64	133.69	134.35	134.47	134.78	135.70	140.60	134.83	134.01	133.89	133.87	133.74	
2	133.64	133.67	134.29	134.48	134.80	135.93	140.44	134.73	134.06	133.88	133.85	133.74	
3	133.64	133.66	134.26	134.75	134.66	136.07	140.01	134.81	134.11	133.88	133.92	133.74	
4	133.62	133.65	134.24	134.94	134.56	136.11	139.49	134.70	134.20	133.92	133.92	133.72	
5	133.61	133.64	134.28	135.18	134.53	136.25	139.12	134.55	134.15	133.91	133.89	133.71	
6	133.61	133.64	134.40	135.34	134.47	136.38	138.89	134.64	134.09	133.88	133.84	133.72	
7	133.59	133.69	134.59	135.50	134.44	136.40	138.68	134.58	134.16	133.87	133.81	133.75	
8	133.58	133.72	134.78	135.57	134.41	136.39	138.48	134.56	134.13	133.89	133.77	133.76	
9	133.56	133.71	134.87	135.68	134.44	136.38	138.34	134.52	134.04	133.89	133.71	133.74	
10	133.57	133.71	134.96	135.74	134.51	136.61	138.21	134.46	134.18	133.86	133.73	133.74	
11	133.57	133.71	134.97	135.79	134.58	136.81	138.02	134.46	134.31	133.86	133.78	133.73	
12	133.56	133.70	134.98	135.84	134.69	137.11	137.88	134.47	134.38	133.85	133.82	133.72	
13	133.55	133.69	134.93	135.83	134.76	137.19	137.79	134.45	134.33	133.84	133.89	133.71	
14	133.54	133.72	134.84	135.81	134.82	137.38	137.73	134.44	134.23	133.85	133.87	133.75	
15	133.53	133.73	134.68	135.85	134.81	137.85	137.62	134.38	134.08	133.89	133.83	133.75	
16	133.57	133.76	134.49	135.81	134.89	138.03	137.54	134.30	134.07	133.93	133.77	133.72	
17	133.57	133.78	134.45	135.84	134.95	138.31	137.50	134.32	133.99	133.94	133.74	133.68	
18	133.60	133.79	134.39	135.83	135.05	138.90	137.25	134.31	133.97	133.89	133.72	133.66	
19	133.61	133.78	134.37	135.79	135.13	139.74	136.99	134.27	133.99	133.84	133.71	133.68	
20	133.62	133.77	134.38	135.80	135.19	140.46	136.71	134.25	134.10	133.81	133.71	133.72	
21	133.62	133.77	134.33	135.76	135.32	140.77	136.44	134.27	133.96	133.82	133.71	133.74	
22	133.62	133.76	134.36	135.73	135.35	140.90	136.24	134.23	133.93	133.83	133.73	133.73	
23	133.61	133.76	134.47	135.67	135.39	140.86	136.10	134.16	133.94	133.87	133.73	133.72	
24	133.61	133.75	134.38	135.59	135.47	140.58	136.00	134.22	133.93	133.87	133.77	133.69	
25	133.63	133.75	134.31	135.52	135.47	140.11	135.77	134.24	133.94	133.97	133.86	133.70	
26	133.68	133.76	134.20	135.43	135.48	139.67	135.58	134.25	133.92	134.00	134.20	133.73	
27	133.70	133.83	134.28	135.35	135.55	139.35	135.54	134.16	133.93	134.00	134.00	133.75	
28	133.69	134.24	134.25	135.22	135.46	139.44	135.30	134.09	133.92	134.02	133.81	133.72	
29	133.70	134.77	134.18	135.19	135.47	140.02	135.07	134.15	133.92	134.02		133.71	
30	133.70	134.70	134.40	135.01	135.54	140.43	134.96	134.08	133.95	133.95		133.75	
31		134.56		134.94	135.63		134.86		133.91	133.92		133.97	
Mean	133.61	133.83	134.49	135.46	134.99	138.20	137.39	134.40	134.06	133.90	133.82	133.73	
Max	133.70	134.77	134.98	135.85	135.63	140.90	140.60	134.83	134.38	134.02	134.20	133.97	140.90
Min	133.53	133.64	134.18	134.47	134.41	135.70	134.86	134.08	133.91	133.81	133.71	133.66	133.53

Annual Max Momentary Gage Height 140.90 M (MSL), at 6.00 Hours, on Sep 22, 1994
Zero Gage at Bottom Elevation 133.21 M (MSL), River Bed 133.37 M (MSL)
Left Bank Elevation 143.14 M (MSL)
Right Bank Elevation 143.12 M (MSL), Drainage Area 30764 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.28	1.88	23.25	29.00	46.80	99.55	433.00	49.80	9.35	5.80	5.40	2.80	
2	1.28	1.64	20.55	29.50	48.00	112.31	420.20	43.80	11.10	5.60	5.00	2.80	
3	1.28	1.52	19.20	45.00	39.60	120.09	385.80	48.60	12.90	5.60	6.60	2.80	
4	1.04	1.40	18.30	56.60	33.80	122.30	346.75	42.00	16.50	6.60	6.60	2.40	
5	0.92	1.28	20.10	72.60	32.15	130.07	319.00	33.25	14.50	6.30	5.80	2.20	
6	0.92	1.28	25.50	81.00	29.00	137.29	302.30	38.40	12.15	5.60	4.80	2.40	
7	0.72	1.88	35.45	89.00	27.50	138.40	287.60	34.90	14.90	5.40	4.20	3.00	
8	0.64	2.40	46.80	92.50	26.00	137.84	273.60	33.80	13.70	5.80	3.40	3.20	
9	0.48	2.20	52.20	98.44	27.50	137.29	263.80	31.60	10.40	5.80	2.20	2.80	
10	0.56	2.20	57.90	101.77	31.05	150.09	254.70	28.50	15.70	5.20	2.60	2.80	
11	0.56	2.20	58.55	104.54	34.90	161.95	241.40	28.50	21.45	5.20	3.60	2.60	
12	0.48	2.00	59.20	107.32	41.40	179.74	231.60	29.00	24.60	5.00	4.40	2.40	
13	0.40	1.88	55.95	106.76	45.60	184.48	225.30	28.00	22.35	4.80	5.80	2.20	
14	0.32	2.40	50.40	105.65	49.20	196.60	221.10	27.50	17.85	5.00	5.40	3.00	
15	0.24	2.60	40.80	107.87	48.60	229.50	213.40	24.60	11.80	5.80	4.60	3.00	
16	0.56	3.20	30.00	105.65	53.40	242.10	207.80	21.00	11.45	6.90	3.40	2.40	
17	0.56	3.60	28.00	107.32	57.25	261.70	205.00	21.90	8.70	7.20	2.80	1.76	
18	0.80	3.80	25.05	106.76	63.75	303.00	188.04	21.45	8.10	5.80	2.40	1.52	
19	0.92	3.60	24.15	104.54	69.10	365.50	172.62	19.65	8.70	4.80	2.20	1.76	
20	1.04	3.40	24.60	105.10	73.30	421.80	156.02	18.75	12.50	4.20	2.20	2.40	
21	1.04	3.40	22.35	102.88	80.00	446.60	140.62	19.65	7.80	4.40	2.20	2.80	
22	1.04	3.20	23.70	101.21	81.50	457.00	129.52	17.85	6.90	4.60	2.60	2.60	
23	0.92	3.20	29.00	97.88	83.50	453.80	121.75	14.90	7.20	5.40	2.60	2.40	
24	0.92	3.00	24.60	93.50	87.50	431.40	116.20	17.40	6.90	5.40	3.40	1.88	
25	1.16	3.00	21.45	90.00	87.50	393.80	103.43	18.30	7.20	8.10	5.20	2.00	
26	1.76	3.20	16.50	85.50	88.00	360.25	93.00	18.75	6.60	9.00	16.50	2.60	
27	2.00	4.60	20.10	81.50	91.50	336.25	91.00	14.90	6.90	9.00	9.00	3.00	
28	1.88	18.30	18.75	75.00	87.00	343.00	79.00	12.15	6.60	9.70	4.20	2.40	
29	2.00	46.20	15.70	73.30	87.50	386.60	65.05	14.50	6.60	9.70		2.20	
30	2.00	42.00	25.50	61.15	91.00	419.40	57.90	11.80	7.50	7.50		3.00	
31		33.80		56.60	95.66		51.60		6.30	6.60		8.10	
Total	29.72	210.26	933.60	2675.44	1838.56	7859.70	6398.10	785.20	355.20	191.80	129.10	83.22	21489.90 CMSDAY
Mean	0.99	6.78	31.12	86.30	59.31	261.99	206.39	26.17	11.46	6.19	4.61	2.68	58.88 CMS
Max	2.00	46.20	59.20	107.87	95.66	457.00	433.00	49.80	24.60	9.70	16.50	8.10	457.00 CMS
Min	0.24	1.28	15.70	29.00	26.00	99.55	51.60	11.80	6.30	4.20	2.20	1.52	0.24 CMS
Runoff	2.568	18.166	80.663	231.158	158.852	679.078	552.796	67.841	30.689	16.572	11.154	7.190	1856.727 MCM

Momentary Peak 457.00 CMS, at 140.90 M (MSL), at 6.00 Hours, on Sep 22, 1994

Runoff Yield 1.91 Liters/Second/Square KM, Momentary Peak Yield 14.86 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

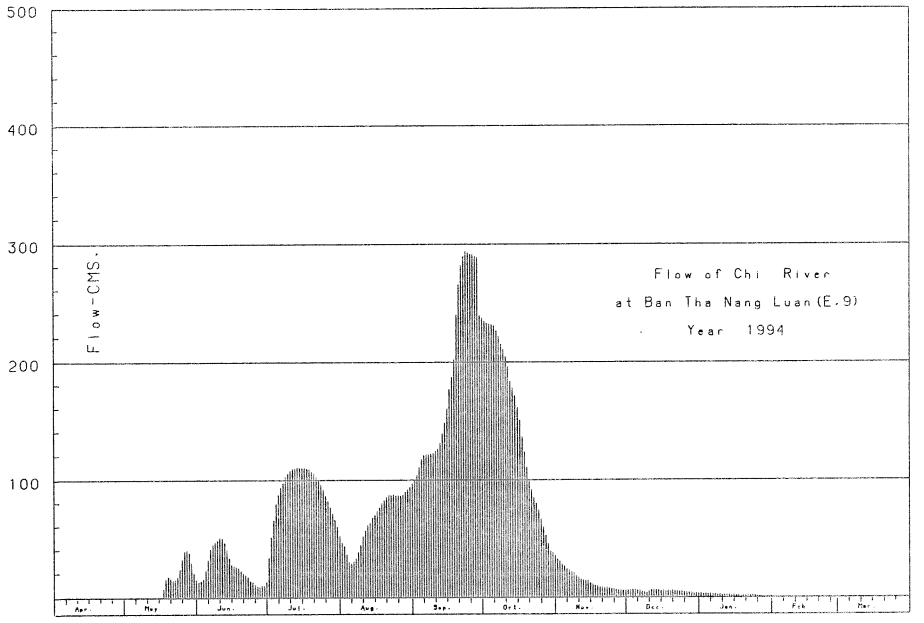
Chi River at Ban Chot, Khon Kaen (E.9)

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	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.05	151.92	153.60	154.89	155.60	158.01	161.30	154.85	153.05	152.77	152.26	152.06	
2	152.02	151.91	153.69	155.86	155.46	158.17	161.29	154.72	153.07	152.72	152.22	152.05	
3	151.97	151.91	153.79	156.55	155.05	158.44	161.28	154.60	153.11	152.71	152.19	152.04	
4	151.95	151.90	154.26	157.19	154.72	158.67	161.28	154.47	153.09	152.72	152.21	152.04	
5	151.93	151.91	154.81	157.49	154.62	158.80	161.27	154.36	153.05	152.71	152.24	152.04	
6	151.90	151.89	155.30	157.74	154.72	158.81	161.24	154.26	153.02	152.70	152.25	152.03	
7	151.89	151.90	155.53	157.92	154.87	158.82	161.20	154.17	152.97	152.68	152.25	152.02	
8	151.88	151.92	155.63	158.12	155.16	158.84	161.14	154.08	152.88	152.64	152.29	152.01	
9	151.86	151.93	155.71	158.24	155.51	158.87	161.09	153.94	152.87	152.62	152.28	152.02	
10	151.85	151.94	155.81	158.32	155.87	158.93	161.00	153.85	152.99	152.58	152.28	152.01	
11	151.84	151.96	155.80	158.38	156.14	159.00	160.87	153.78	153.11	152.57	152.28	151.99	
12	151.83	151.95	155.62	158.41	156.34	159.14	160.66	153.73	153.08	152.56	152.27	151.98	
13	151.81	151.94	155.27	158.43	156.47	159.35	160.54	153.72	153.07	152.55	152.27	151.97	
14	151.84	152.03	154.90	158.43	156.64	159.57	160.41	153.70	153.04	152.53	152.26	151.97	
15	151.89	151.96	154.57	158.42	156.76	159.82	160.15	153.55	153.01	152.53	152.27	151.98	
16	151.94	151.97	154.47	158.41	156.90	160.08	159.82	153.47	153.03	152.51	152.28	151.97	
17	151.98	153.18	154.45	158.40	157.05	160.22	159.33	153.41	153.02	152.50	152.26	151.96	
18	152.07	153.76	154.38	158.36	157.19	160.41	158.91	153.38	153.01	152.49	152.22	151.96	
19	152.11	153.90	154.23	158.30	157.31	160.82	158.44	153.31	152.99	152.51	152.21	151.96	
20	152.09	153.79	154.06	158.23	157.41	161.10	158.00	153.28	153.02	152.52	152.17	151.95	
21	152.05	153.75	153.98	158.12	157.48	161.26	157.68	153.27	153.00	152.53	152.15	151.95	
22	152.03	153.75	153.90	158.00	157.48	161.34	157.40	153.27	152.97	152.54	152.14	151.94	
23	152.02	153.87	153.68	157.85	157.50	161.38	157.20	153.23	152.96	152.53	152.13	151.93	
24	152.01	154.32	153.59	157.68	157.48	161.37	156.97	153.18	152.95	152.52	152.11	151.93	
25	151.98	154.81	153.46	157.46	157.46	161.36	156.62	153.16	152.93	152.49	152.10	151.92	
26	151.96	155.19	153.38	157.27	157.45	161.35	156.26	153.11	152.86	152.45	152.08	151.91	
27	151.95	155.28	153.32	157.07	157.50	161.34	155.93	153.08	152.84	152.43	152.08	151.90	
28	151.94	155.15	153.40	156.81	157.61	161.33	155.56	153.05	152.81	152.39	152.07	151.89	
29	151.93	154.64	153.40	156.58	157.68	161.32	155.23	153.04	152.80	152.36		151.89	
30	151.93	154.08	153.61	156.27	157.77	161.31	155.11	153.03	152.79	152.33		151.89	
31		153.73		155.90	157.89		155.01		152.78	152.30		151.89	
Mean	151.95	153.04	154.39	157.58	156.55	159.97	158.97	153.67	152.97	152.55	152.21	151.97	
Max	152.11	155.28	155.81	158.43	157.89	161.38	161.30	154.85	153.11	152.77	152.29	152.06	161.38
Min	151.81	151.89	153.32	154.89	154.62	158.01	155.01	153.03	152.78	152.30	152.07	151.89	151.81

Annual Max Momentary Gage Height 161.39 M (MSL), at 12.00 Hours, on Sep 23, 1994
Zero Gage at Bottom Elevation 151.11 M (MSL), River Bed 150.34 M (MSL)
Left Bank Elevation 161.50 M (MSL)
Right Bank Elevation 161.82 M (MSL), Drainage Area 11020 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.3	0.1	13.4	34.0	47.0	100.3	235.0	33.3	6.5	3.9	1.0	0.3	
2	0.2	0.1	14.7	52.2	44.3	104.4	233.7	31.0	6.7	3.5	0.9	0.3	
3	0.2	0.1	16.3	66.1	36.9	111.4	232.4	29.0	7.1	3.5	0.8	0.3	
4	0.2	0.1	23.7	80.6	31.0	117.8	232.4	26.9	6.9	3.5	0.8	0.3	
5	0.1	0.1	32.6	87.8	29.3	121.4	231.1	25.2	6.5	3.5	1.0	0.3	
6	0.1	0.1	41.4	93.8	31.0	121.7	227.2	23.7	6.2	3.4	1.0	0.3	
7	0.1	0.1	45.6	98.1	33.7	122.0	222.0	22.4	5.7	3.3	1.0	0.2	
8	0.1	0.1	47.6	103.1	38.9	122.5	216.0	21.1	4.8	3.0	1.2	0.2	
9	0.1	0.1	49.2	106.2	45.2	123.4	211.3	18.9	4.7	2.9	1.1	0.2	
10	0.1	0.1	51.2	108.3	52.4	125.0	205.3	17.4	5.9	2.7	1.1	0.2	
11	0.1	0.2	51.0	109.9	57.8	127.0	196.5	16.2	7.1	2.6	1.1	0.2	
12	0.1	0.2	47.4	110.7	61.8	131.6	184.4	15.3	6.8	2.6	1.1	0.2	
13	0.1	0.1	40.9	111.2	64.4	140.0	178.1	15.1	6.7	2.5	1.1	0.2	
14	0.1	0.3	34.2	111.2	68.1	148.8	172.4	14.8	6.4	2.4	1.0	0.2	
15	0.1	0.2	28.5	110.9	70.7	161.2	162.2	12.7	6.1	2.4	1.1	0.2	
16	0.1	0.2	26.9	110.7	73.8	177.6	151.6	11.6	6.3	2.3	1.1	0.2	
17	0.2	7.9	26.5	110.4	77.2	187.6	136.9	10.7	6.2	2.2	1.0	0.2	
18	0.3	15.8	25.5	109.4	80.6	202.9	124.5	10.3	6.1	2.1	0.9	0.2	
19	0.4	18.2	23.2	107.8	83.4	239.8	111.4	9.4	5.9	2.3	0.8	0.2	
20	0.4	16.3	20.8	106.0	85.8	266.0	100.0	9.1	6.2	2.3	0.7	0.2	
21	0.3	15.7	19.6	103.1	87.5	282.0	92.3	8.9	6.0	2.4	0.6	0.2	
22	0.3	15.7	18.2	100.0	87.5	290.0	85.6	8.9	5.7	2.4	0.6	0.1	
23	0.2	17.7	14.5	96.4	88.0	294.0	80.8	8.5	5.6	2.4	0.5	0.1	
24	0.2	24.6	13.3	92.3	87.5	293.0	75.3	7.9	5.5	2.3	0.4	0.1	
25	0.2	32.6	11.4	87.0	87.0	292.0	67.6	7.7	5.3	2.1	0.4	0.1	
26	0.2	39.4	10.3	82.5	86.8	291.0	60.2	7.1	4.6	1.9	0.4	0.1	
27	0.2	41.0	9.6	77.7	88.0	290.0	53.6	6.8	4.5	1.8	0.4	0.1	
28	0.1	38.7	10.6	71.8	90.6	289.0	46.2	6.5	4.2	1.6	0.3	0.1	
29	0.1	29.7	10.6	66.8	92.3	240.2	40.1	6.4	4.1	1.4		0.1	
30	0.1	21.1	13.5	60.4	94.5	276.8	38.0	6.3	4.0	1.3		0.1	
31		15.3		53.0	97.4		36.2		4.0	1.2		0.1	
Total	5.3	351.9	792.2	2819.4	2100.4	5790.4	4440.3	449.1	178.3	77.7	23.4	5.8	17034.2 CMSDAY
Mean	0.2	11.4	26.4	90.9	67.8	193.0	143.2	15.0	5.8	2.5	0.8	0.2	46.7 CMS
Max	0.4	41.0	51.2	111.2	97.4	294.0	235.0	33.3	7.1	3.9	1.2	0.3	294.0 CMS
Min	0.1	0.1	9.6	34.0	29.3	100.3	36.2	6.3	4.0	1.2	0.3	0.1	0.1 CMS
Runoff	0.46	30.40	68.45	243.60	181.47	500.29	383.64	38.80	15.41	6.71	2.02	0.50	1471.76 MCM

Momentary Peak 295.00 CMS, at 161.39 M (MSL), at 12.00 Hours, on Sep 23, 1994

Runoff Yield 4.23 Liters/Second/Square KM, Momentary Peak Yield 26.77 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

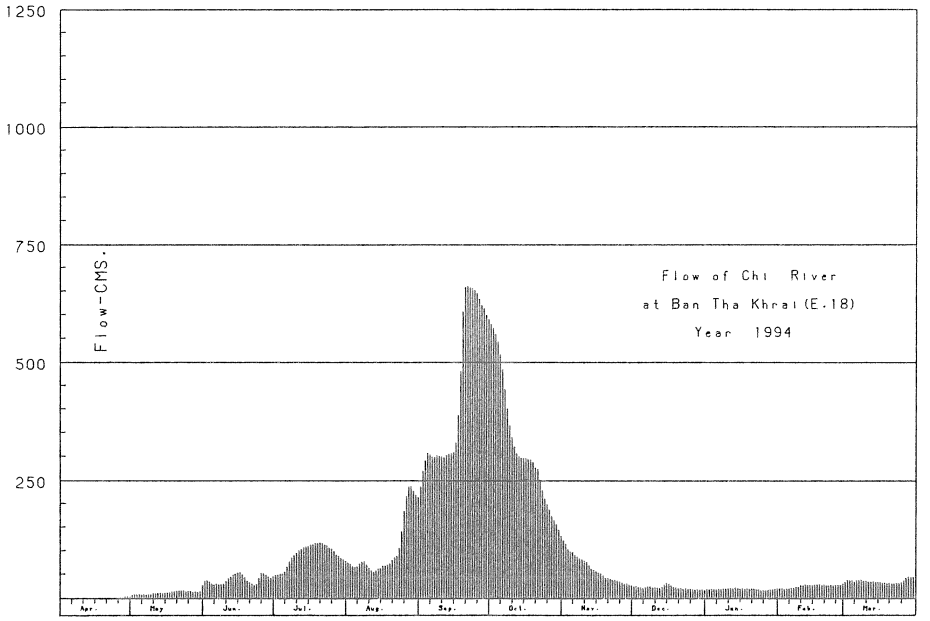
Chi River at Ban Tha Khrai, Roi Et (E.18)

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	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Lam Nam Yang about 25 kilometers downstream. Stage-discharge relation defined by 112 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.78	122.50	123.43	123.70	124.18	126.27	130.26	124.91	123.16	122.94	123.04	123.40	
2	122.74	122.51	123.47	123.69	124.13	126.61	130.19	124.79	123.16	122.97	123.02	123.47	
3	122.72	122.52	123.39	123.75	124.05	126.83	130.09	124.64	123.12	122.99	122.99	123.48	
4	122.68	122.52	123.31	123.74	124.01	126.98	129.95	124.56	123.09	123.00	123.00	123.45	
5	122.65	122.52	123.28	123.84	124.06	126.96	129.72	124.54	123.05	122.99	123.04	123.42	
6	122.63	122.51	123.29	124.03	124.14	126.90	129.42	124.45	123.11	122.99	123.07	123.46	
7	122.62	122.51	123.28	124.22	124.22	126.90	129.05	124.38	123.16	123.00	123.10	123.49	
8	122.60	122.53	123.27	124.35	124.22	126.93	128.63	124.34	123.13	123.01	123.13	123.49	
9	122.58	122.57	123.30	124.45	124.12	126.93	128.25	124.28	123.10	123.03	123.16	123.46	
10	122.56	122.63	123.43	124.51	123.98	126.90	127.94	124.24	123.10	123.02	123.21	123.44	
11	122.55	122.65	123.54	124.59	123.87	126.90	127.68	124.20	123.07	123.04	123.23	123.43	
12	122.57	122.65	123.62	124.64	123.84	126.93	127.47	124.07	123.06	123.05	123.24	123.42	
13	122.56	122.65	123.69	124.68	123.89	126.97	127.36	123.95	123.11	123.07	123.24	123.41	
14	122.55	122.64	123.76	124.71	123.95	126.97	127.32	123.89	123.26	123.08	123.22	123.40	
15	122.55	122.66	123.81	124.74	124.00	127.01	127.30	123.84	123.33	123.03	123.23	123.38	
16	122.57	122.68	123.80	124.76	124.06	127.19	127.29	123.78	123.28	123.02	123.24	123.37	
17	122.56	122.73	123.72	124.79	124.08	127.73	127.27	123.75	123.21	123.01	123.27	123.36	
18	122.56	122.78	123.58	124.81	124.10	128.51	127.25	123.65	123.13	123.01	123.27	123.35	
19	122.55	122.79	123.46	124.83	124.16	129.47	127.17	123.58	123.08	123.02	123.26	123.34	
20	122.60	122.84	123.37	124.83	124.26	130.02	126.93	123.56	123.06	123.01	123.24	123.34	
21	122.62	122.87	123.29	124.81	124.36	130.24	126.64	123.53	123.03	123.00	123.23	123.33	
22	122.64	122.90	123.26	124.78	124.44	130.31	126.42	123.49	123.00	122.97	123.22	123.33	
23	122.62	122.87	123.27	124.74	124.68	130.36	126.19	123.47	123.03	122.93	123.23	123.33	
24	122.59	122.83	123.58	124.69	125.15	130.41	126.01	123.46	123.01	122.90	123.22	123.35	
25	122.58	122.82	123.77	124.64	125.70	130.48	125.87	123.40	122.98	122.89	123.22	123.37	
26	122.56	122.79	123.76	124.57	126.06	130.53	125.74	123.34	122.96	122.89	123.23	123.46	
27	122.54	122.77	123.71	124.48	126.28	130.53	125.56	123.30	122.95	122.91	123.26	123.58	
28	122.54	122.76	123.62	124.41	126.28	130.50	125.44	123.30	122.95	122.94	123.29	123.62	
29	122.51	122.77	123.57	124.36	126.19	130.41	125.35	123.26	122.94	122.97		123.62	
30	122.50	122.78	123.63	124.28	126.09	130.33	125.19	123.19	122.93	122.99		123.59	
31		123.22		124.23	126.04		125.03		122.92	123.01		123.59	
Mean	122.60	122.70	123.51	124.44	124.60	128.33	127.42	123.90	123.08	122.99	123.18	123.44	
Max	122.78	123.22	123.81	124.83	126.28	130.53	130.26	124.91	123.33	123.08	123.29	123.62	130.53
Min	122.50	122.50	123.26	123.69	123.84	126.27	125.03	123.19	122.92	122.89	122.99	123.33	122.50

Annual Max Momentary Gage Height 130.16 M (MSL), at 1.00 Hours, on Sep 21, 1994
Zero Gage at Bottom Elevation 122.24 M (MSL), River Bed 119.99 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	8.0	36.5	50.0	75.8	237.0	581.8	123.7	25.4	18.5	21.2	35.0	
2	0.0	8.2	38.5	49.5	72.8	271.0	572.8	115.3	25.4	19.3	20.6	38.5	
3	0.0	8.4	34.6	52.5	68.0	293.0	560.8	104.8	23.8	19.7	19.7	39.0	
4	0.0	8.4	31.4	52.0	65.6	308.0	544.0	99.2	22.7	20.0	20.0	37.5	
5	0.0	8.4	30.2	57.0	68.6	306.0	517.2	97.8	21.5	19.7	21.2	36.0	
6	0.0	8.2	30.6	66.8	73.4	300.0	484.2	92.0	23.4	19.7	22.1	38.0	
7	0.0	8.2	30.2	78.2	78.2	300.0	443.5	87.8	25.4	20.0	23.0	39.5	
8	0.0	8.6	29.8	86.0	78.2	303.0	401.7	85.4	24.2	20.3	24.2	39.5	
9	0.0	9.4	31.0	92.0	72.2	303.0	367.5	81.8	23.0	20.9	25.4	38.0	
10	0.0	10.7	36.5	95.7	64.0	300.0	341.2	79.4	23.0	20.6	27.4	37.0	
11	0.0	11.3	42.0	101.3	58.5	300.0	322.6	77.0	22.1	21.2	28.2	36.5	
12	0.0	11.3	46.0	104.8	57.0	303.0	307.9	69.2	21.8	21.5	28.6	36.0	
13	0.0	11.3	49.5	107.6	59.5	307.0	300.6	62.5	23.4	22.1	28.6	35.5	
14	0.0	11.0	53.0	109.7	62.5	307.0	298.2	59.5	29.4	22.4	27.8	35.0	
15	0.0	11.5	55.5	111.8	65.0	311.0	297.0	57.0	32.2	20.9	28.2	34.2	
16	0.0	12.0	55.0	113.2	68.6	329.9	296.4	54.0	30.2	20.6	28.6	33.8	
17	0.0	13.3	51.0	115.3	69.8	389.3	295.2	52.5	27.4	20.3	29.8	33.4	
18	0.0	14.5	44.0	116.7	71.0	481.3	294.0	47.5	24.2	20.3	29.8	33.0	
19	0.0	14.8	38.0	118.1	74.6	608.8	289.2	44.0	22.4	20.6	29.4	32.6	
20	0.0	16.0	33.8	118.1	80.6	660.4	276.5	43.0	21.8	20.3	28.6	32.6	
21	0.0	16.8	30.6	116.7	86.6	661.2	274.0	41.5	20.9	20.0	28.2	32.2	
22	0.0	17.5	29.4	114.6	91.4	659.6	252.0	39.5	20.0	19.3	27.8	32.2	
23	0.0	16.8	29.8	111.8	107.6	657.6	229.0	38.5	20.9	18.3	28.2	32.2	
24	0.0	15.8	44.0	108.3	142.0	654.8	211.0	38.0	20.3	17.5	27.8	33.0	
25	1.0	15.5	53.5	104.8	186.0	646.4	199.6	35.0	19.5	17.2	27.8	33.8	
26	2.0	14.8	53.0	99.9	216.0	634.4	189.2	32.6	19.0	17.2	28.2	38.0	
27	3.0	14.2	50.5	93.8	238.0	622.4	174.8	31.0	18.7	17.8	29.4	44.0	
28	4.0	14.0	46.0	89.6	238.0	614.0	165.2	31.0	18.7	18.5	30.6	46.0	
29	5.0	14.2	43.5	86.6	229.0	601.4	158.0	29.4	18.5	19.3		46.0	
30	6.0	14.5	46.5	81.8	219.0	590.9	145.2	26.6	18.3	19.7		44.5	
31		27.8		78.8	214.0		132.4		18.0	20.3		44.5	
Total	21.0	395.4	1223.9	2883.0	3351.5	13261.4	9922.7	1876.5	705.5	614.0	740.4	1147.0	36142.3 CMSDAY
Mean	0.7	12.8	40.8	93.0	108.1	442.0	320.1	62.5	22.8	19.8	26.4	37.0	99.0 CMS
Max	6.0	27.8	55.5	118.1	238.0	661.2	581.8	123.7	32.2	22.4	30.6	46.0	661.2 CMS
Min	0.0	8.0	29.4	49.5	57.0	237.0	132.4	26.6	18.0	17.2	19.7	32.2	0.0 CMS
Runoff	1.81	34.16	105.74	249.09	289.57	1145.79	857.32	162.13	60.96	53.05	63.97	99.10	3122.69 MCM

Momentary Peak 662.80 CMS, at 130.16 M (MSL), at 1.00 Hours, on Sep 21, 1994

Runoff Yield 2.38 Liters/Second/Square KM, Momentary Peak Yield 15.93 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

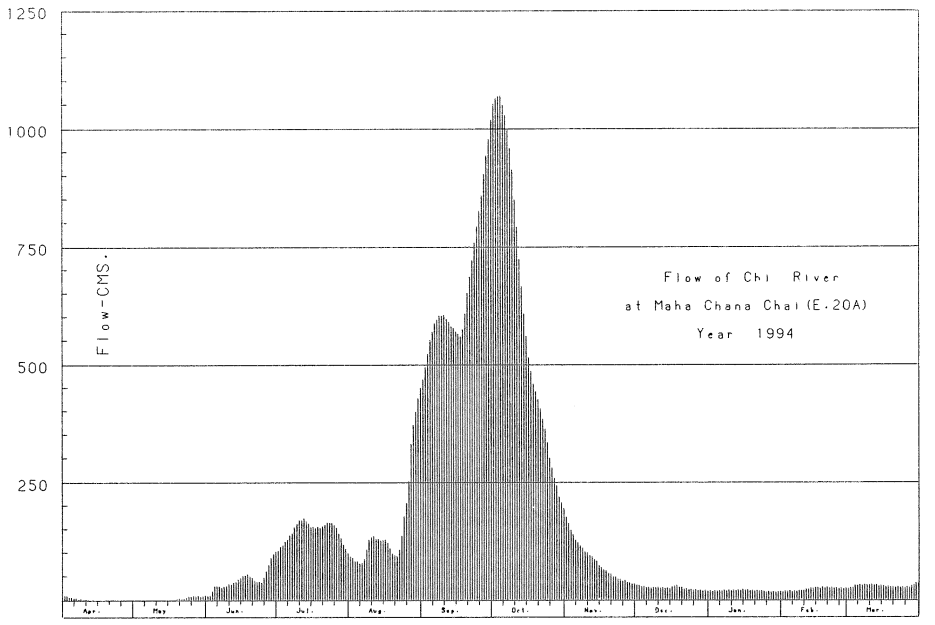
Chi River at Maha Chana Chai, Yasothon (E.20A)

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	Overbank flow starts at elevatton +119.01 m.(M.S.L.) and is included.
General Description	Records fair. Flow effected by structure such as road, bridge and draining pipe. Stage-discharge relation defined by 116 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.25	113.92	114.24	115.81	115.67	118.87	121.82	116.57	114.81	114.49	114.46	114.63	
2	114.21	113.92	114.24	115.88	115.61	119.03	121.84	116.42	114.77	114.49	114.48	114.65	
3	114.17	113.89	114.51	115.94	115.54	119.23	121.85	116.29	114.74	114.49	114.50	114.70	
4	114.14	113.88	114.72	116.00	115.52	119.40	121.85	116.18	114.72	114.50	114.50	114.76	
5	114.12	113.88	114.75	116.07	115.48	119.52	121.82	116.07	114.70	114.51	114.48	114.78	
6	114.09	113.88	114.71	116.15	115.47	119.62	121.78	115.99	114.68	114.52	114.48	114.79	
7	114.06	113.93	114.68	116.22	115.60	119.68	121.72	115.93	114.66	114.52	114.49	114.79	
8	114.05	113.92	114.70	116.33	115.84	119.72	121.64	115.86	114.66	114.51	114.50	114.79	
9	114.02	113.92	114.75	116.42	116.05	119.73	121.54	115.79	114.69	114.52	114.53	114.80	
10	114.01	113.92	114.81	116.48	116.13	119.73	121.39	115.75	114.68	114.53	114.55	114.81	
11	113.99	113.92	114.84	116.50	116.14	119.69	121.22	115.70	114.67	114.53	114.57	114.80	
12	113.97	113.94	114.88	116.52	116.09	119.64	121.00	115.65	114.66	114.53	114.60	114.79	
13	113.95	113.95	114.95	116.48	116.07	119.59	120.75	115.60	114.65	114.54	114.63	114.78	
14	113.95	113.96	114.99	116.41	116.05	119.56	120.41	115.53	114.63	114.55	114.65	114.76	
15	113.94	113.98	115.06	116.35	116.06	119.52	120.04	115.44	114.64	114.56	114.66	114.75	
16	113.93	114.01	115.10	116.34	116.05	119.48	119.69	115.36	114.70	114.56	114.66	114.74	
17	113.93	114.01	115.13	116.33	116.00	119.46	119.41	115.31	114.76	114.54	114.65	114.73	
18	113.93	114.04	115.14	116.34	115.85	119.54	119.17	115.26	114.76	114.53	114.68	114.72	
19	113.92	114.06	115.10	116.33	115.74	119.76	118.99	115.21	114.71	114.52	114.68	114.71	
20	113.96	114.08	115.04	116.35	115.68	120.01	118.84	115.16	114.67	114.51	114.68	114.68	
21	113.95	114.09	114.98	116.40	115.65	120.22	118.63	115.10	114.62	114.51	114.67	114.69	
22	113.96	114.10	114.93	116.43	115.83	120.43	118.41	115.07	114.60	114.51	114.66	114.69	
23	113.94	114.14	114.91	116.44	116.16	120.64	118.16	115.03	114.58	114.50	114.65	114.68	
24	113.94	114.18	114.90	116.42	116.56	120.85	117.90	115.00	114.56	114.49	114.64	114.68	
25	113.93	114.22	115.04	116.39	116.82	121.03	117.65	114.97	114.56	114.46	114.64	114.68	
26	113.92	114.23	115.24	116.32	117.25	121.19	117.47	114.96	114.55	114.45	114.64	114.68	
27	113.95	114.23	115.44	116.21	117.87	121.40	117.31	114.92	114.54	114.45	114.63	114.69	
28	113.95	114.21	115.61	116.08	118.17	121.55	117.16	114.87	114.52	114.43	114.63	114.73	
29	113.95	114.21	115.73	115.95	118.39	121.67	116.96	114.85	114.51	114.43		114.82	
30	113.93	114.19	115.77	115.83	118.58	121.76	116.83	114.83	114.50	114.44		114.86	
31		114.25		115.73	118.74		116.72		114.50	114.45		114.87	
Mean	114.00	114.03	114.96	116.24	116.34	120.05	119.68	115.49	114.65	114.50	114.59	114.74	
Max	114.25	114.25	115.77	116.52	118.74	121.76	121.85	116.57	114.81	114.56	114.68	114.87	121.85
Min	113.92	113.88	114.24	115.73	115.47	118.87	116.72	114.83	114.50	114.43	114.46	114.63	113.88

Annual Max Momentary Gage Height 121.86 M (MSL), at 18.00 Hours, on Oct 3, 1994
Zero Gage at Bottom Elevation 112.00 M (MSL), River Bed 112.30 M (MSL)
Left Bank Elevation 119.00 M (MSL)
Right Bank Elevation 120.50 M (MSL), Drainage Area 47818 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.0	0.4	10.6	106.9	94.6	470.5	1052.0	179.0	34.5	20.6	19.4	26.2	
2	9.4	0.4	10.6	113.2	89.8	494.5	1064.0	164.0	32.5	20.6	20.2	27.0	
3	7.8	0.0	21.4	118.6	84.2	524.8	1070.0	151.0	31.0	20.6	21.0	29.0	
4	6.6	0.0	30.0	124.0	82.6	552.0	1070.0	140.2	30.0	21.0	21.0	32.0	
5	5.8	0.0	31.5	130.3	79.4	571.2	1052.0	130.3	29.0	21.4	20.2	33.0	
6	4.7	0.0	29.5	137.5	78.6	587.2	1030.0	123.1	28.2	21.8	20.2	33.5	
7	3.8	0.6	28.2	144.0	89.0	596.8	1000.0	117.7	27.4	21.8	20.6	33.5	
8	3.5	0.4	29.0	155.0	109.6	603.2	960.0	111.4	27.4	21.4	21.0	33.5	
9	2.6	0.4	31.5	164.0	128.5	604.8	913.0	105.1	28.6	21.8	22.2	34.0	
10	2.3	0.4	34.5	170.0	135.7	604.8	851.5	101.5	28.2	22.2	23.0	34.5	
11	1.8	0.4	36.0	172.0	136.6	598.4	792.0	97.0	27.8	22.2	23.8	34.0	
12	1.4	0.8	38.0	174.0	132.1	590.4	725.0	93.0	27.4	22.2	25.0	33.5	
13	1.0	1.0	42.0	170.0	130.3	582.4	666.0	89.0	27.0	22.6	26.2	33.0	
14	1.0	1.2	44.4	163.0	128.5	577.6	609.6	83.4	26.2	23.0	27.0	32.0	
15	0.8	1.6	49.2	157.0	129.4	571.2	560.2	76.2	26.6	23.4	27.4	31.5	
16	0.6	2.3	52.0	156.0	128.5	564.8	516.9	70.2	29.0	23.4	27.4	31.0	
17	0.6	2.3	54.1	155.0	124.0	561.6	486.1	66.7	32.0	22.6	27.0	30.5	
18	0.6	3.2	54.8	156.0	110.5	574.4	461.0	63.2	32.0	22.2	28.2	30.0	
19	0.4	3.8	52.0	155.0	100.6	609.6	443.0	59.7	29.5	21.8	28.2	29.5	
20	1.2	4.4	47.8	157.0	95.4	651.7	428.0	56.2	27.8	21.4	28.2	28.2	
21	1.0	4.7	43.8	162.0	93.0	687.4	407.0	52.0	25.8	21.4	27.8	28.6	
22	1.2	5.0	40.8	165.0	108.7	723.1	386.9	49.9	25.0	21.4	27.4	28.6	
23	0.8	6.6	39.6	166.0	138.4	758.8	364.4	47.1	24.2	21.0	27.0	28.2	
24	0.8	8.2	39.0	164.0	178.0	794.5	337.0	45.0	23.4	20.6	26.6	28.2	
25	0.6	9.8	47.8	161.0	206.2	826.0	304.5	43.2	23.4	19.4	26.6	28.2	
26	0.4	10.2	61.8	154.0	254.0	858.0	281.1	42.6	23.0	19.0	26.6	28.2	
27	1.0	10.2	76.2	143.0	333.1	905.0	261.2	40.2	22.6	19.0	26.2	28.6	
28	1.0	9.4	89.8	131.2	372.1	942.5	243.6	37.5	21.8	18.2	26.2	30.5	
29	1.0	9.4	99.7	119.5	401.6	979.5	221.6	36.5	21.4	18.2		35.0	
30	0.6	8.6	103.3	108.7	428.2	1020.0	207.3	35.5	21.0	18.6		37.0	
31		11.0		99.7	451.0		195.2		21.0	19.0		37.5	
Total	75.3	116.7	1368.9	4552.6	5152.2	19986.7	18960.1	2507.4	834.7	653.8	691.6	968.0	55868.0 CMSDAY
Mean	2.5	3.8	45.6	146.9	166.2	666.2	611.6	83.6	26.9	21.1	24.7	31.2	153.1 CMS
Max	11.0	11.0	103.3	174.0	451.0	1020.0	1070.0	179.0	34.5	23.4	28.2	37.5	1070.0 CMS
Min	0.4	0.0	10.6	99.7	78.6	470.5	195.2	35.5	21.0	18.2	19.4	26.2	0.0 CMS
Runoff	6.51	10.08	118.27	393.34	445.15	1726.85	1638.15	216.64	72.12	56.49	59.75	83.64	4827.00 MCM

Momentary Peak 1076.00 CMS, at 121.86 M (MSL), at 18.00 Hours, on Oct 3, 1994
Runoff Yield 3.20 Liters/Second/Square KM, Momentary Peak Yield 22.50 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

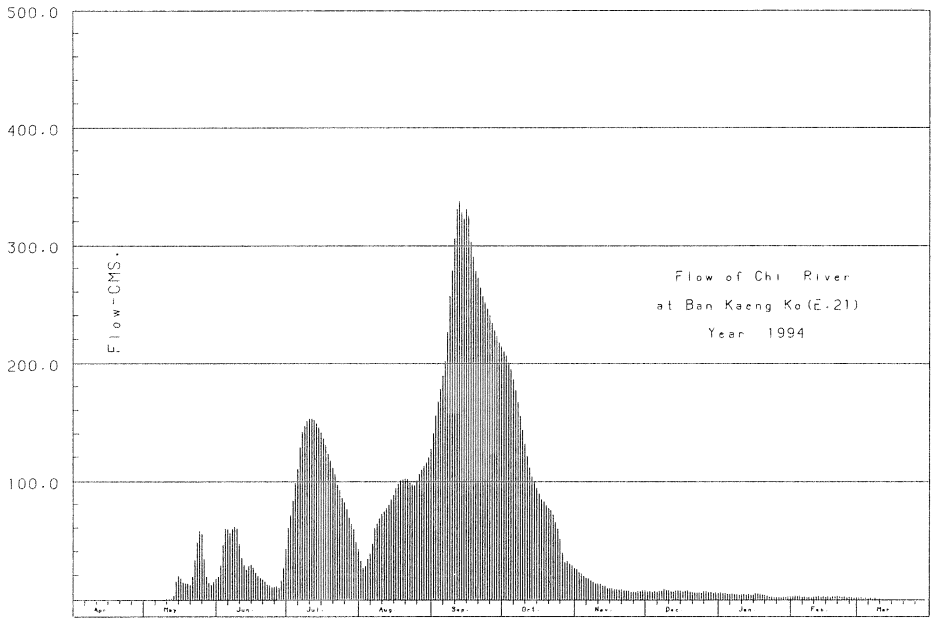
Chi River at Ban Kaeng Ko, Chaiyaphum (E.21)

Location	Lat. 15°-45'-07" N., Long. 102°-15'-24" E., on left bank about 75 meters upstream from the bridge on highway, Amphoe Muang, Chaiyaphum.
Drainage Area	8,912 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Infront of the automatic gage building.
Elevation	+9.433 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1955-1957, 1967 to date.
Rating Operation	
Period of Rating	1968-1971, 1973-1974, 1982 to date.
Rated by Float	-
Rated by Current Meter	1968-1971, 1973-1974, 1982 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.93	1.00	2.03	2.71	2.27	5.55	7.12	2.14	1.70	1.64	1.44	1.31	
2	0.93	1.00	2.20	3.16	2.16	5.94	7.05	2.10	1.69	1.63	1.47	1.29	
3	0.93	1.00	2.46	3.71	2.20	6.24	6.95	2.07	1.68	1.62	1.47	1.25	
4	0.93	1.00	2.61	4.24	2.29	6.48	6.83	2.04	1.69	1.61	1.46	1.22	
5	0.93	0.98	2.60	4.66	2.36	6.73	6.67	2.01	1.69	1.61	1.40	1.22	
6	0.93	0.98	2.56	5.21	2.47	6.97	6.47	1.99	1.70	1.60	1.37	1.23	
7	0.93	0.99	2.64	5.57	2.65	7.37	6.22	1.96	1.72	1.59	1.35	1.24	
8	0.93	1.06	2.73	5.72	2.86	7.75	5.94	1.92	1.77	1.57	1.34	1.24	
9	0.92	1.09	2.66	5.82	3.05	7.94	5.62	1.90	1.75	1.55	1.33	1.21	
10	0.92	1.15	2.46	5.87	3.21	8.11	5.29	1.89	1.72	1.55	1.36	1.19	
11	0.92	1.19	2.31	5.88	3.33	8.21	5.00	1.88	1.71	1.57	1.42	1.17	
12	0.91	1.23	2.21	5.85	3.43	8.23	4.70	1.85	1.69	1.57	1.42	1.14	
13	0.91	1.47	2.14	5.78	3.57	8.20	4.44	1.84	1.71	1.56	1.40	1.12	
14	0.92	1.94	2.19	5.68	3.73	8.18	4.27	1.80	1.73	1.56	1.40	1.09	
15	0.95	2.04	2.22	5.57	3.90	8.21	4.10	1.79	1.71	1.58	1.40	1.05	
16	0.96	1.99	2.17	5.43	4.10	8.19	3.94	1.78	1.70	1.61	1.40	1.02	
17	0.96	1.91	2.10	5.26	4.24	8.10	3.74	1.76	1.72	1.62	1.37	0.99	
18	0.95	1.90	2.04	5.05	4.33	8.02	3.69	1.75	1.72	1.59	1.41	0.96	
19	0.95	1.89	2.01	4.87	4.37	7.94	3.54	1.76	1.70	1.58	1.43	0.94	
20	0.94	1.89	1.97	4.69	4.38	7.89	3.46	1.75	1.67	1.52	1.44	0.93	
21	0.95	2.03	1.93	4.50	4.36	7.82	3.36	1.73	1.65	1.47	1.43	0.91	
22	0.96	2.28	1.88	4.21	4.27	7.75	3.20	1.73	1.65	1.42	1.40	0.88	
23	0.98	2.48	1.85	4.03	4.20	7.69	2.90	1.71	1.65	1.38	1.36	0.86	
24	0.97	2.58	1.82	3.80	4.19	7.64	2.64	1.68	1.65	1.34	1.34	0.87	
25	0.97	2.56	1.82	3.64	4.33	7.57	2.51	1.68	1.70	1.34	1.33	0.87	
26	0.98	2.29	1.83	3.42	4.53	7.49	2.36	1.68	1.70	1.34	1.31	0.89	
27	0.99	2.03	1.81	3.10	4.64	7.40	2.25	1.69	1.67	1.34	1.31	0.91	
28	0.99	1.90	1.96	2.82	4.73	7.32	2.26	1.71	1.66	1.36	1.31	0.92	
29	0.99	1.87	2.17	2.62	4.83	7.24	2.23	1.72	1.64	1.36		0.93	
30	1.00	1.92	2.41	2.48	4.96	7.18	2.20	1.72	1.64	1.38		0.94	
31		1.98		2.41	5.16		2.17		1.64	1.40		0.94	
Mean	0.95	1.67	2.19	4.44	3.71	7.51	4.29	1.83	1.69	1.51	1.39	1.06	
Max	1.00	2.58	2.73	5.88	5.16	8.23	7.12	2.14	1.77	1.64	1.47	1.31	8.23
Min	0.91	0.98	1.81	2.41	2.16	5.55	2.17	1.68	1.64	1.34	1.31	0.86	0.86

Annual Max Momentary Gage Height 8.24 M (A.D), at 9.00 Hours, on Sep 12, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.32 M (A.D)
Left Bank Elevation 10.38 M (A.D)
Right Bank Elevation 9.91 M (A.D), Drainage Area 8912 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	19.70	61.33	33.11	141.25	210.60	25.40	7.20	5.88	3.00	1.88	
2	0.00	0.00	28.70	71.53	26.50	155.96	206.70	23.20	6.98	5.66	3.30	1.73	
3	0.00	0.00	47.10	84.26	28.70	167.90	201.30	21.70	6.76	5.44	3.30	1.45	
4	0.00	0.00	60.11	98.72	34.37	178.18	195.10	20.20	6.98	5.22	3.20	1.24	
5	0.00	0.00	60.00	111.12	39.20	190.10	187.13	18.70	6.98	5.22	2.60	1.24	
6	0.00	0.00	56.20	129.35	47.95	202.38	177.72	17.78	7.20	5.00	2.36	1.31	
7	0.00	0.00	60.44	141.95	60.55	226.42	167.10	16.52	7.76	4.86	2.20	1.38	
8	0.00	0.30	61.78	147.38	64.73	257.50	155.96	14.84	9.16	4.58	2.12	1.38	
9	0.00	0.45	60.66	151.28	69.03	278.90	143.72	14.00	8.60	4.30	2.04	1.17	
10	0.00	0.80	47.10	153.23	72.66	305.95	132.15	13.60	7.76	4.30	2.28	1.04	
11	0.00	1.04	35.70	153.62	75.36	331.20	122.00	13.20	7.48	4.58	2.80	0.92	
12	0.00	1.31	29.33	152.45	77.56	337.60	112.40	12.00	6.98	4.58	2.80	0.74	
13	0.00	3.30	25.40	149.72	80.78	328.00	104.32	11.60	7.48	4.44	2.60	0.62	
14	0.00	15.68	28.15	145.88	84.78	323.10	99.56	10.00	8.04	4.44	2.60	0.45	
15	0.00	20.20	29.96	141.95	89.20	331.20	94.80	9.72	7.48	4.72	2.60	0.25	
16	0.00	17.78	27.05	137.05	94.80	325.55	90.32	9.44	7.20	5.22	2.60	0.10	
17	0.00	14.42	23.20	131.10	98.72	303.50	85.04	8.88	7.76	5.44	2.36	0.00	
18	0.00	14.00	20.20	123.75	101.24	290.30	83.75	8.60	7.76	4.86	2.70	0.00	
19	0.00	13.60	18.70	117.84	102.36	278.90	80.06	8.88	7.20	4.72	2.90	0.00	
20	0.00	13.60	16.94	112.08	102.64	272.40	78.22	8.60	6.54	3.88	3.00	0.00	
21	0.00	19.70	15.26	106.00	102.08	264.70	76.02	8.04	6.10	3.30	2.90	0.00	
22	0.00	33.74	13.20	97.88	99.56	257.50	72.43	8.04	6.10	2.80	2.60	0.00	
23	0.00	48.80	12.00	92.84	97.60	251.55	65.63	7.48	6.10	2.44	2.28	0.00	
24	0.00	58.10	10.80	86.60	97.32	246.80	60.44	6.76	6.10	2.12	2.12	0.00	
25	0.00	56.20	10.80	82.50	101.24	240.60	51.45	6.76	7.20	2.12	2.04	0.00	
26	0.00	34.37	11.20	77.34	106.96	234.34	39.20	6.76	7.20	2.12	1.88	0.00	
27	0.00	19.70	10.40	70.17	110.48	228.40	31.85	6.98	6.54	2.12	1.88	0.00	
28	0.00	14.00	16.52	63.82	113.36	223.12	32.48	7.48	6.32	2.28	1.88	0.00	
29	0.00	12.80	27.05	60.22	116.56	217.96	30.59	7.76	5.88	2.28		0.00	
30	0.00	14.84	42.85	48.80	120.72	214.20	28.70	7.76	5.88	2.44		0.00	
31		17.36		42.85	127.60		27.05		5.88	2.60		0.00	
Total	0.00	446.09	926.50	3344.61	2577.72	7605.46	3243.79	360.68	218.60	123.96	70.94	16.90	18935.25 CMSDAY
Mean	0.00	14.39	30.88	107.89	83.15	253.52	104.64	12.02	7.05	4.00	2.53	0.55	51.88 CMS
Max	0.00	58.10	61.78	153.62	127.60	337.60	210.60	25.40	9.16	5.88	3.30	1.88	337.60 CMS
Min	0.00	0.00	10.40	42.85	26.50	141.25	27.05	6.76	5.88	2.12	1.88	0.00	0.00 CMS
Runoff	0.000	38.542	80.050	288.974	222.715	657.112	280.263	31.163	18.887	10.710	6.129	1.460	1636.006 MCM

Momentary Peak 340.80 CMS, at 8.24 M (A.D), at 9.00 Hours, on Sep 12, 1994

Runoff Yield 5.82 Liters/Second/Square KM, Momentary Peak Yield 38.24 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

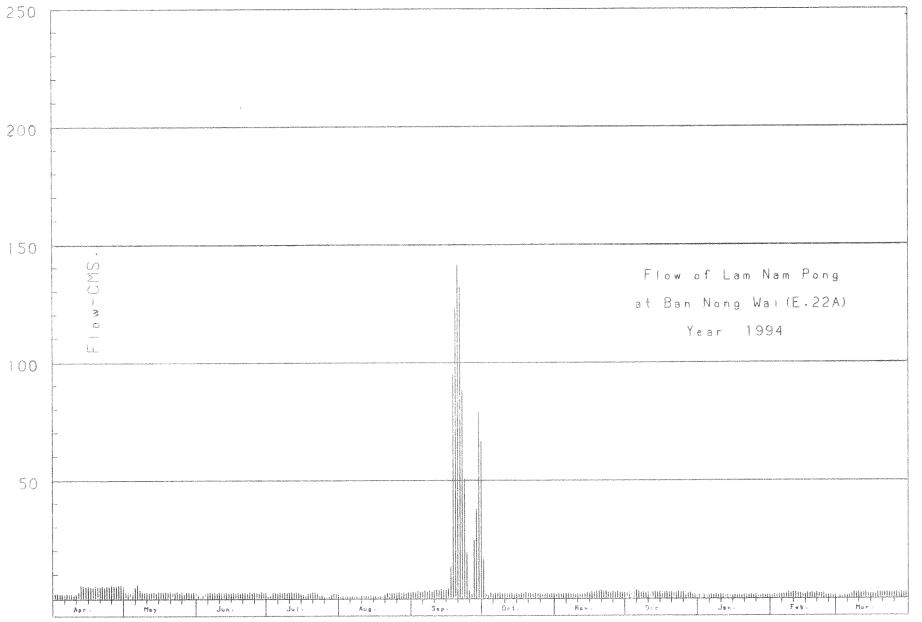
Lam Nam Phong at Ban Hin Kong Noi, Khon Kaen (E.22A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Ubonrat Dam and Nong Wai weir above gage site. Stage-discharge relation defined by 9 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.38	153.41	153.40	153.27	153.29	153.41	153.81	153.36	153.40	153.34	153.33	153.29	
2	153.37	153.41	153.40	153.32	153.29	153.41	153.37	153.36	153.41	153.34	153.35	153.29	
3	153.37	153.41	153.40	153.39	153.29	153.42	153.31	153.37	153.41	153.34	153.36	153.29	
4	153.36	153.41	153.40	153.40	153.29	153.42	153.40	153.36	153.45	153.34	153.36	153.30	
5	153.36	153.49	153.40	153.40	153.29	153.42	153.38	153.38	153.44	153.34	153.36	153.32	
6	153.37	153.52	153.40	153.40	153.29	153.43	153.38	153.37	153.42	153.34	153.35	153.32	
7	153.37	153.45	153.40	153.40	153.29	153.42	153.39	153.36	153.40	153.34	153.38	153.37	
8	153.36	153.41	153.40	153.40	153.29	153.42	153.39	153.36	153.40	153.34	153.40	153.40	
9	153.35	153.41	153.40	153.40	153.30	153.42	153.37	153.36	153.40	153.34	153.40	153.40	
10	153.35	153.40	153.40	153.40	153.31	153.43	153.37	153.36	153.40	153.34	153.40	153.40	
11	153.42	153.40	153.40	153.40	153.31	153.44	153.38	153.36	153.41	153.34	153.40	153.40	
12	153.52	153.41	153.40	153.40	153.31	153.45	153.38	153.36	153.41	153.34	153.40	153.40	
13	153.50	153.41	153.40	153.40	153.31	153.45	153.38	153.38	153.41	153.33	153.38	153.40	
14	153.50	153.40	153.40	153.40	153.31	153.45	153.36	153.40	153.41	153.33	153.37	153.37	
15	153.50	153.41	153.40	153.37	153.31	153.45	153.37	153.40	153.41	153.33	153.36	153.36	
16	153.49	153.41	153.40	153.33	153.30	153.46	153.36	153.41	153.41	153.33	153.38	153.36	
17	153.49	153.41	153.39	153.33	153.30	153.74	153.38	153.41	153.41	153.33	153.39	153.36	
18	153.50	153.41	153.39	153.37	153.30	155.93	153.39	153.42	153.41	153.33	153.39	153.39	
19	153.50	153.41	153.39	153.40	153.30	156.56	153.40	153.43	153.41	153.33	153.39	153.41	
20	153.50	153.41	153.39	153.40	153.34	156.93	153.40	153.43	153.40	153.33	153.39	153.40	
21	153.50	153.41	153.39	153.41	153.40	156.75	153.37	153.43	153.41	153.34	153.39	153.40	
22	153.49	153.41	153.39	153.37	153.39	155.78	153.37	153.43	153.41	153.34	153.39	153.41	
23	153.50	153.41	153.40	153.32	153.39	154.80	153.38	153.40	153.41	153.34	153.38	153.40	
24	153.50	153.40	153.40	153.32	153.39	153.87	153.37	153.40	153.41	153.34	153.34	153.40	
25	153.51	153.41	153.40	153.31	153.39	153.43	153.37	153.41	153.41	153.34	153.32	153.40	
26	153.50	153.41	153.40	153.30	153.40	153.36	153.37	153.41	153.40	153.33	153.32	153.40	
27	153.51	153.41	153.40	153.30	153.40	153.98	153.37	153.41	153.39	153.33	153.32	153.40	
28	153.52	153.40	153.41	153.35	153.40	154.41	153.36	153.41	153.39	153.33	153.32	153.40	
29	153.52	153.40	153.40	153.37	153.40	155.56	153.36	153.40	153.36	153.33		153.40	
30	153.50	153.40	153.40	153.37	153.40	155.24	153.36	153.40	153.34	153.33		153.40	
31		153.40		153.34	153.41		153.36		153.34	153.33		153.40	
Mean	153.45	153.41	153.40	153.37	153.34	154.17	153.39	153.39	153.40	153.34	153.37	153.38	
Max	153.52	153.52	153.41	153.41	153.41	156.93	153.81	153.43	153.45	153.34	153.40	153.41	156.93
Min	153.35	153.40	153.39	153.27	153.29	153.36	153.31	153.36	153.34	153.33	153.32	153.29	153.27

Annual Max Momentary Gage Height 157.00 M (MSL), at 18.00 Hours, on Sep 20, 1994
Zero Gage at Bottom Elevation 150.92 M (MSL), River Bed 150.83 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.28	2.87	2.60	0.79	0.93	2.87	16.66	1.96	2.60	1.64	1.48	0.93	
2	2.12	2.87	2.60	1.32	0.93	2.87	2.12	1.96	2.87	1.64	1.80	0.93	
3	2.12	2.87	2.60	2.44	0.93	3.14	1.16	2.12	2.87	1.64	1.96	0.93	
4	1.96	2.87	2.60	2.60	0.93	3.14	2.60	1.96	3.95	1.64	1.96	1.00	
5	1.96	5.03	2.60	2.60	0.93	3.14	2.28	2.28	3.68	1.64	1.96	1.32	
6	2.12	5.94	2.60	2.60	0.93	3.41	2.28	2.12	3.14	1.64	1.80	1.32	
7	2.12	3.95	2.60	2.60	0.93	3.14	2.44	1.96	2.60	1.64	2.28	2.12	
8	1.96	2.87	2.60	2.60	0.93	3.14	2.44	1.96	2.60	1.64	2.60	2.60	
9	1.80	2.87	2.60	2.60	1.00	3.14	2.12	1.96	2.60	1.64	2.60	2.60	
10	1.80	2.60	2.60	2.60	1.16	3.41	2.12	1.96	2.60	1.64	2.60	2.60	
11	3.14	2.60	2.60	2.60	1.16	3.68	2.28	1.96	2.87	1.64	2.60	2.60	
12	5.94	2.87	2.60	2.60	1.16	3.95	2.28	1.96	2.87	1.64	2.60	2.60	
13	5.30	2.87	2.60	2.60	1.16	3.95	2.28	2.28	2.87	1.48	2.28	2.60	
14	5.30	2.60	2.60	2.60	1.16	3.95	1.96	2.60	2.87	1.48	2.12	2.12	
15	5.30	2.87	2.60	2.12	1.16	3.95	2.12	2.60	2.87	1.48	1.96	1.96	
16	5.03	2.87	2.60	1.48	1.00	4.22	1.96	2.87	2.87	1.48	2.28	1.96	
17	5.03	2.87	2.44	1.48	1.00	13.80	2.28	2.87	2.87	1.48	2.44	1.96	
18	5.30	2.87	2.44	2.12	1.00	94.85	2.44	3.14	2.87	1.48	2.44	2.44	
19	5.30	2.87	2.44	2.60	1.00	123.20	2.60	3.41	2.87	1.48	2.44	2.87	
20	5.30	2.87	2.44	2.60	1.64	141.50	2.60	3.41	2.60	1.48	2.44	2.60	
21	5.30	2.87	2.44	2.87	2.60	132.50	2.12	3.41	2.87	1.64	2.44	2.60	
22	5.03	2.87	2.44	2.12	2.44	88.20	2.12	3.41	2.87	1.64	2.44	2.87	
23	5.30	2.87	2.60	1.32	2.44	51.00	2.28	2.60	2.87	1.64	2.28	2.60	
24	5.30	2.60	2.60	1.32	2.44	19.42	2.12	2.60	2.87	1.64	1.64	2.60	
25	5.62	2.87	2.60	1.16	2.44	3.41	2.12	2.87	2.87	1.64	1.32	2.60	
26	5.30	2.87	2.60	1.00	2.60	1.96	2.12	2.87	2.60	1.48	1.32	2.60	
27	5.62	2.87	2.60	1.00	2.60	24.96	2.12	2.87	2.44	1.48	1.32	2.60	
28	5.94	2.60	2.87	1.80	2.60	37.74	1.96	2.87	2.44	1.48	1.32	2.60	
29	5.94	2.60	2.60	2.12	2.60	79.40	1.96	2.60	1.96	1.48		2.60	
30	5.30	2.60	2.60	2.12	2.60	66.60	1.96	2.60	1.64	1.48		2.60	
31		2.60		1.64	2.87		1.96		1.64	1.48		2.60	
Total	125.83	93.12	77.31	64.02	49.27	933.64	81.86	76.04	85.01	48.60	58.72	68.93	1762.35 CMSDAY
Mean	4.19	3.00	2.58	2.07	1.59	31.12	2.64	2.53	2.74	1.57	2.10	2.22	4.83 CMS
Max	5.94	5.94	2.87	2.87	2.87	141.50	16.66	3.41	3.95	1.64	2.60	2.87	141.50 CMS
Min	1.80	2.60	2.44	0.79	0.93	1.96	1.16	1.96	1.64	1.48	1.32	0.93	0.79 CMS
Runoff	10.872	8.046	6.680	5.531	4.257	80.666	7.073	6.570	7.345	4.199	5.073	5.956	152.267 MCM

Momentary Peak 145.00 CMS, at 157.00 M (MSL), at 18.00 Hours, on Sep 20, 1994

Runoff Yield 0.37 Liters/Second/Square KM, Momentary Peak Yield 11.00 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

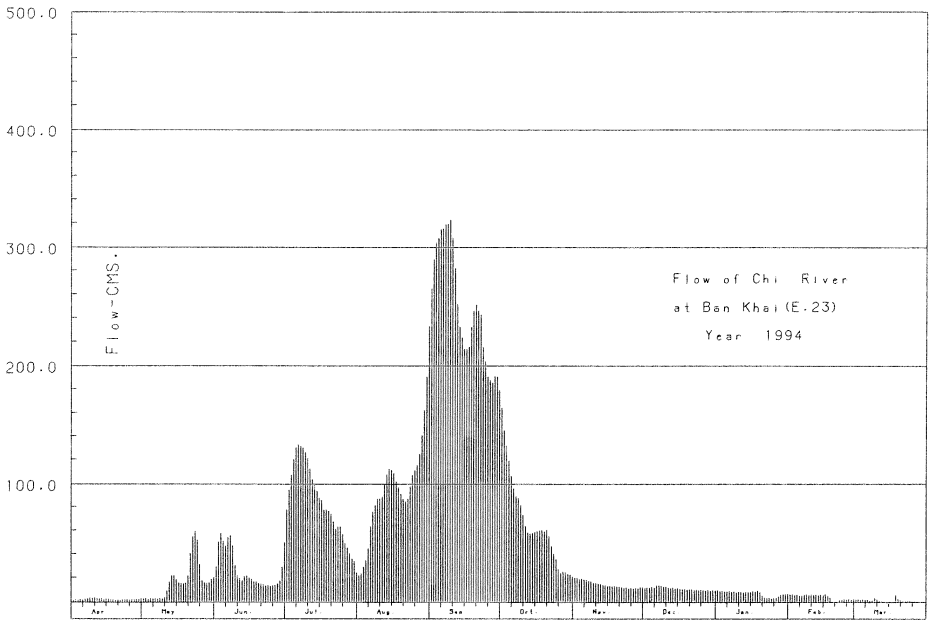
Chi River at Ban Khai, Chaiyaphum (E.23)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +182.13 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.03	177.14	178.11	180.42	177.92	182.40	181.92	177.86	177.58	177.49	177.33	177.08	
2	177.05	177.13	179.27	180.95	177.96	182.47	181.77	177.85	177.58	177.47	177.32	177.07	
3	177.07	177.11	179.70	181.23	178.11	182.51	181.63	177.83	177.59	177.46	177.31	177.07	
4	177.08	177.13	179.30	181.47	178.41	182.52	181.45	177.83	177.60	177.45	177.30	177.07	
5	177.06	177.13	179.09	181.62	178.96	182.54	181.22	177.82	177.60	177.45	177.28	177.06	
6	177.10	177.13	179.48	181.64	179.96	182.54	180.97	177.80	177.65	177.45	177.25	177.02	
7	177.14	177.13	179.59	181.63	180.37	182.55	180.81	177.78	177.66	177.45	177.32	177.00	
8	177.16	177.13	179.08	181.61	180.56	182.55	180.74	177.76	177.63	177.43	177.32	176.99	
9	177.17	177.14	178.18	181.56	180.73	182.56	180.56	177.73	177.63	177.42	177.31	177.18	
10	177.17	177.17	177.91	181.48	180.73	182.52	180.27	177.71	177.61	177.42	177.31	177.07	
11	177.16	177.49	177.84	181.33	180.79	182.45	179.97	177.71	177.60	177.41	177.31	176.99	
12	177.14	177.76	177.80	181.16	181.06	182.35	179.72	177.68	177.58	177.41	177.30	176.96	
13	177.12	177.92	177.89	181.04	181.25	182.28	179.65	177.67	177.58	177.41	177.29	176.91	
14	177.09	177.91	177.91	180.93	181.33	182.24	179.70	177.65	177.57	177.43	177.30	176.81	
15	177.11	177.81	177.87	180.76	181.32	182.20	179.72	177.64	177.56	177.44	177.31	176.85	
16	177.10	177.74	177.82	180.69	181.26	182.20	179.76	177.63	177.55	177.45	177.32	176.83	
17	177.08	177.70	177.77	180.43	181.12	182.21	179.82	177.63	177.55	177.46	177.28	176.93	
18	177.05	177.71	177.75	180.42	180.99	182.28	179.81	177.63	177.53	177.47	177.17	177.30	
19	177.05	177.72	177.72	180.40	180.86	182.33	179.78	177.63	177.53	177.43	176.93	177.11	
20	177.03	177.90	177.69	180.30	180.72	182.35	179.83	177.61	177.52	177.26	176.87	177.02	
21	177.04	178.74	177.67	180.10	180.65	182.33	179.52	177.61	177.52	177.17	177.00	176.99	
22	177.04	179.53	177.65	179.87	180.74	182.32	179.08	177.59	177.51	177.17	177.05	176.98	
23	177.07	179.81	177.65	179.94	181.02	182.21	178.71	177.59	177.51	177.16	177.07	176.99	
24	177.07	179.35	177.64	179.96	181.23	182.15	178.46	177.57	177.51	177.15	177.08	176.95	
25	177.07	178.19	177.64	179.64	181.32	182.09	178.05	177.57	177.50	177.15	177.09	176.93	
26	177.07	177.80	177.65	179.21	181.38	182.07	177.98	177.57	177.49	177.18	177.08	176.91	
27	177.07	177.74	177.71	179.01	181.54	182.06	178.01	177.57	177.49	177.25	177.08	176.91	
28	177.07	177.71	177.79	178.72	181.73	182.09	177.99	177.58	177.49	177.30	177.08	176.90	
29	177.12	177.74	178.09	178.49	181.91	182.09	177.96	177.59	177.49	177.34		176.86	
30	177.13	177.82	179.26	178.34	182.09	182.02	177.93	177.59	177.49	177.33		176.86	
31		177.86		177.98	182.28		177.88		177.49	177.33		176.84	
Mean	177.09	177.78	178.22	180.40	180.65	182.32	179.70	177.68	177.55	177.36	177.20	176.98	
Max	177.17	179.81	179.70	181.64	182.28	182.56	181.92	177.86	177.66	177.49	177.33	177.30	182.56
Min	177.03	177.11	177.64	177.98	177.92	182.02	177.88	177.57	177.49	177.15	176.87	176.81	176.81

Annual Max Momentary Gage Height 182.56 M (MSL), at 24.00 Hours, on Sep 9, 1994
Zero Gage at Bottom Elevation 174.00 M (MSL), River Bed 174.74 M (MSL)
Left Bank Elevation 182.12 M (MSL)
Right Bank Elevation 182.13 M (MSL), Drainage Area 6835 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.70	3.04	30.18	78.20	22.70	266.00	164.00	20.60	12.00	9.80	6.60	2.20	
2	1.90	2.88	51.06	95.45	24.10	289.80	145.85	20.25	12.00	9.40	6.40	2.10	
3	2.10	2.56	58.80	107.64	30.18	304.00	132.55	19.55	12.25	9.20	6.20	2.10	
4	2.20	2.88	51.60	121.20	35.58	308.00	120.00	19.55	12.50	9.00	6.00	2.10	
5	2.00	2.88	47.82	131.70	45.48	316.00	107.16	19.20	12.50	9.00	5.60	2.00	
6	2.40	2.88	54.84	133.40	64.40	316.00	96.27	18.50	14.00	9.00	5.00	1.60	
7	3.04	2.88	56.82	132.55	76.70	320.00	90.34	17.90	14.30	9.00	6.40	1.40	
8	3.36	2.88	47.64	130.85	82.40	320.00	87.96	17.30	13.40	8.60	6.40	1.31	
9	3.52	3.04	31.44	127.20	87.62	324.00	82.40	16.40	13.40	8.40	6.20	3.68	
10	3.52	3.52	22.35	121.80	87.62	308.00	73.70	15.80	12.80	8.40	6.20	2.10	
11	3.36	9.80	19.90	112.80	89.66	283.00	64.70	15.80	12.50	8.20	6.20	1.31	
12	3.04	17.30	18.50	104.36	99.96	252.00	59.16	14.90	12.00	8.20	6.00	1.04	
13	2.72	22.70	21.65	99.14	108.60	233.20	57.90	14.60	12.00	8.20	5.80	0.59	
14	2.30	22.35	22.35	94.63	112.80	223.60	58.80	14.00	11.75	8.60	6.00	0.05	
15	2.56	18.85	20.95	88.64	112.20	214.00	59.16	13.70	11.50	8.80	6.20	0.25	
16	2.40	16.70	19.20	86.30	109.08	214.00	59.88	13.40	11.25	9.00	6.40	0.15	
17	2.20	15.50	17.60	78.50	102.52	216.40	61.00	13.40	11.25	9.20	5.60	0.77	
18	1.90	15.80	17.00	78.20	97.09	233.20	60.80	13.40	10.75	9.40	3.52	6.00	
19	1.90	16.10	16.10	77.60	92.04	246.40	60.24	13.40	10.75	8.60	0.77	2.56	
20	1.70	22.00	15.20	74.60	87.28	252.00	61.20	12.80	10.50	5.20	0.35	1.60	
21	1.80	41.52	14.60	68.60	85.10	246.40	55.56	12.80	10.50	3.52	1.40	1.31	
22	1.80	55.74	14.00	62.00	87.96	243.60	47.64	12.25	10.25	3.52	1.90	1.22	
23	2.10	60.80	14.00	63.80	98.32	216.40	40.98	12.25	10.25	3.36	2.10	1.31	
24	2.10	52.50	13.70	64.40	107.64	203.50	36.48	11.75	10.25	3.20	2.20	0.95	
25	2.10	31.62	13.70	57.72	112.20	191.30	27.75	11.75	10.00	3.20	2.30	0.77	
26	2.10	18.50	14.00	49.98	115.80	187.90	24.80	11.75	9.80	3.68	2.20	0.59	
27	2.10	16.70	15.80	46.38	125.80	186.20	25.95	11.75	9.80	5.00	2.20	0.59	
28	2.10	15.80	18.20	41.16	141.65	191.30	25.15	12.00	9.80	6.00	2.20	0.50	
29	2.72	16.70	29.55	37.02	162.50	191.30	24.10	12.25	9.80	6.80		0.30	
30	2.88	19.20	50.88	34.32	191.30	179.40	23.05	12.25	9.80	6.60		0.30	
31		20.60		24.80	233.20		21.30		9.80	6.60		0.20	
Total	71.62	556.22	839.43	2624.94	3029.48	7476.90	2055.83	445.25	353.45	224.68	124.34	42.95	17845.09 CMSDAY
Mean	2.39	17.94	27.98	84.68	97.73	249.23	66.32	14.84	11.40	7.25	4.44	1.39	48.89 CMS
Max	3.52	60.80	58.80	133.40	233.20	324.00	164.00	20.60	14.30	9.80	6.60	6.00	324.00 CMS
Min	1.70	2.56	13.70	24.80	22.70	179.40	21.30	11.75	9.80	3.20	0.35	0.05	0.05 CMS
Runoff	6.188	48.057	72.527	226.795	261.747	646.004	177.624	38.470	30.538	19.412	10.743	3.711	1541.816 MCM

Momentary Peak 324.00 CMS, at 182.56 M (MSL), at 24.00 Hours, on Sep 9, 1994

Runoff Yield 7.15 Liters/Second/Square KM, Momentary Peak Yield 47.40 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

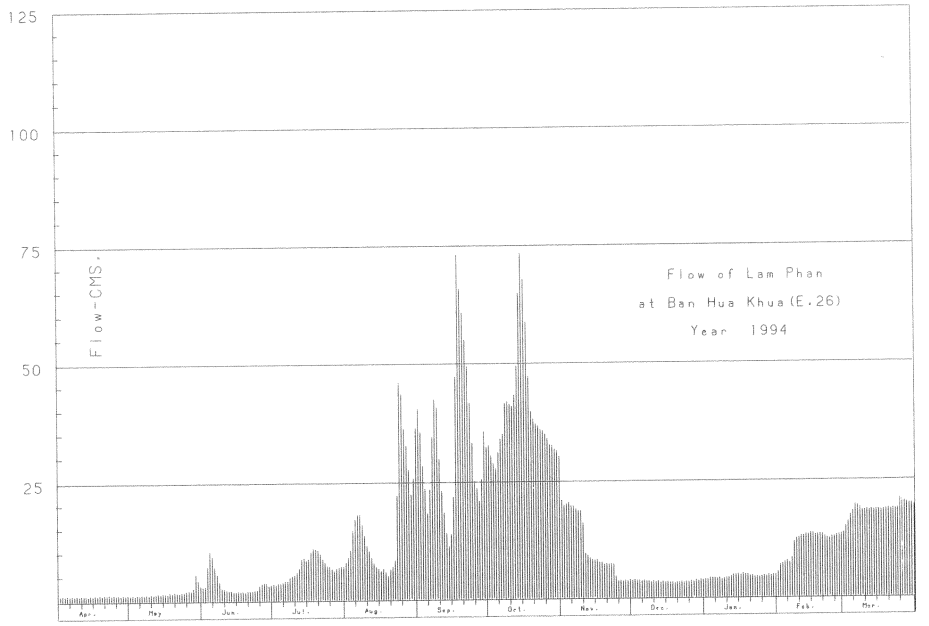
Lam Phan at Ban Hua Khua, Kalasin (E.26)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Lam Pao Dam on Dec.31,94-Mar.31,95. Stage-discharge relation defined by 15 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.36	134.37	134.53	134.57	134.88	136.32	136.06	135.58	134.60	134.60	134.71	135.22	
2	134.36	134.37	134.55	134.57	134.94	136.15	135.98	135.52	134.60	134.61	134.80	135.28	
3	134.36	134.37	134.83	134.58	135.05	135.90	135.92	135.54	134.60	134.62	134.83	135.34	
4	134.36	134.37	135.03	134.59	135.26	135.70	135.87	135.55	134.59	134.63	134.84	135.40	
5	134.36	134.37	134.97	134.60	135.39	135.45	136.01	135.52	134.59	134.62	134.86	135.45	
6	134.36	134.37	134.81	134.61	135.44	135.70	136.10	135.51	134.59	134.62	134.84	135.51	
7	134.36	134.37	134.72	134.62	135.43	136.12	136.14	135.49	134.59	134.62	134.91	135.51	
8	134.36	134.37	134.60	134.66	135.33	136.38	136.35	135.48	134.58	134.61	135.12	135.48	
9	134.36	134.38	134.52	134.69	135.21	136.33	136.37	135.48	134.58	134.61	135.16	135.46	
10	134.36	134.39	134.50	134.69	135.11	135.95	136.35	135.33	134.58	134.63	135.17	135.46	
11	134.35	134.40	134.49	134.73	135.03	135.68	136.33	134.99	134.58	134.64	135.18	135.46	
12	134.35	134.41	134.48	134.80	134.95	135.45	136.41	134.95	134.58	134.65	135.19	135.46	
13	134.35	134.41	134.47	134.92	134.86	135.24	136.62	134.92	134.57	134.66	135.20	135.46	
14	134.36	134.41	134.46	134.95	134.82	135.10	137.08	134.89	134.57	134.67	135.20	135.46	
15	134.36	134.41	134.46	134.91	134.78	135.22	137.32	134.89	134.57	134.67	135.21	135.46	
16	134.37	134.41	134.46	134.92	134.76	135.62	137.17	134.89	134.57	134.67	135.21	135.46	
17	134.37	134.41	134.46	135.03	134.78	136.54	136.91	134.86	134.57	134.68	135.20	135.46	
18	134.37	134.43	134.45	135.07	134.73	137.32	136.54	134.85	134.56	134.68	135.20	135.46	
19	134.38	134.43	134.45	135.07	134.69	137.11	136.30	134.83	134.56	134.67	135.21	135.47	
20	134.38	134.44	134.46	135.04	134.78	136.97	136.24	134.83	134.56	134.66	135.20	135.47	
21	134.39	134.44	134.46	134.99	134.81	136.80	136.21	134.83	134.57	134.65	135.18	135.47	
22	134.39	134.43	134.47	134.93	134.91	136.62	136.19	134.83	134.57	134.64	135.16	135.47	
23	134.38	134.43	134.47	134.87	135.63	136.36	136.17	134.83	134.57	134.64	135.16	135.47	
24	134.38	134.45	134.50	134.83	136.50	136.07	136.16	134.65	134.57	134.64	135.17	135.47	
25	134.38	134.46	134.55	134.81	136.42	135.77	136.14	134.59	134.58	134.65	135.18	135.58	
26	134.37	134.47	134.59	134.79	136.18	135.71	136.10	134.59	134.58	134.65	135.19	135.56	
27	134.37	134.48	134.60	134.76	136.06	135.57	136.06	134.59	134.58	134.65	135.20	135.55	
28	134.37	134.51	134.58	134.78	135.86	135.78	136.05	134.59	134.59	134.66	135.20	135.53	
29	134.37	134.72	134.56	134.81	135.65	136.16	136.03	134.59	134.59	134.66		135.53	
30	134.37	134.62	134.56	134.81	135.79	136.04	136.01	134.60	134.60	134.66		135.52	
31		134.56		134.81	136.18		135.97		134.60	134.66		135.51	
Mean	134.37	134.43	134.57	134.80	135.30	136.04	136.30	135.02	134.58	134.64	135.10	135.46	
Max	134.39	134.72	135.03	135.07	136.50	137.32	137.32	135.58	134.60	134.68	135.21	135.58	137.32
Min	134.35	134.37	134.45	134.57	134.69	135.10	135.87	134.59	134.56	134.60	134.71	135.22	134.35

Annual Max Momentary Gage Height 137.33 M (MSL), at 6.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 134.63 M (MSL), River Bed 133.47 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	1.35	2.95	3.55	8.20	40.60	32.80	21.10	4.00	4.00	5.65	13.90	
2	1.30	1.35	3.25	3.55	9.10	35.50	30.50	19.90	4.00	4.15	7.00	15.10	
3	1.30	1.35	7.45	3.70	10.75	28.50	29.00	20.30	4.00	4.30	7.45	16.30	
4	1.30	1.35	10.45	3.85	14.70	23.50	27.75	20.50	3.85	4.45	7.60	17.50	
5	1.30	1.35	9.55	4.00	17.30	18.50	31.30	19.90	3.85	4.30	7.90	18.50	
6	1.30	1.35	7.15	4.15	18.30	23.50	34.00	19.70	3.85	4.30	7.60	19.70	
7	1.30	1.35	5.80	4.30	18.10	34.60	35.20	19.30	3.85	4.30	8.65	19.70	
8	1.30	1.35	4.00	4.90	16.10	42.40	41.50	19.10	3.70	4.15	11.90	19.10	
9	1.30	1.40	2.80	5.35	13.70	40.90	42.10	19.10	3.70	4.15	12.70	18.70	
10	1.30	1.45	2.50	5.35	11.70	29.75	41.50	16.10	3.70	4.45	12.90	18.70	
11	1.25	1.50	2.40	5.95	10.45	23.10	40.90	9.85	3.70	4.60	13.10	18.70	
12	1.25	1.60	2.30	7.00	9.25	18.50	43.30	9.25	3.70	4.75	13.30	18.70	
13	1.25	1.60	2.20	8.80	7.90	14.30	49.60	8.80	3.55	4.90	13.50	18.70	
14	1.30	1.60	2.10	9.25	7.30	11.50	64.80	8.35	3.55	5.05	13.50	18.70	
15	1.30	1.60	2.10	8.65	6.70	13.90	73.20	8.35	3.55	5.05	13.70	18.70	
16	1.35	1.60	2.10	8.80	6.40	21.90	67.95	8.35	3.55	5.05	13.70	18.70	
17	1.35	1.60	2.10	10.45	6.70	47.20	58.85	7.90	3.55	5.20	13.50	18.70	
18	1.35	1.80	2.00	11.05	5.95	73.20	47.20	7.75	3.40	5.20	13.50	18.70	
19	1.40	1.80	2.00	11.05	5.35	65.85	40.00	7.45	3.40	5.05	13.70	18.90	
20	1.40	1.90	2.10	10.60	6.70	60.95	38.20	7.45	3.40	4.90	13.50	18.90	
21	1.45	1.90	2.10	9.85	7.15	55.00	37.30	7.45	3.55	4.75	13.10	18.90	
22	1.45	1.80	2.20	8.95	8.65	49.60	36.70	7.45	3.55	4.60	12.70	18.90	
23	1.40	1.80	2.20	8.05	22.10	41.80	36.10	7.45	3.55	4.60	12.70	18.90	
24	1.40	2.00	2.50	7.45	46.00	33.10	35.80	4.75	3.55	4.60	12.90	18.90	
25	1.40	2.10	3.25	7.15	43.60	25.25	35.20	3.85	3.70	4.75	13.10	21.10	
26	1.35	2.20	3.85	6.85	36.40	23.75	34.00	3.85	3.70	4.75	13.30	20.70	
27	1.35	2.30	4.00	6.40	32.80	20.90	32.80	3.85	3.70	4.75	13.50	20.50	
28	1.35	2.65	3.70	6.70	27.50	25.50	32.50	3.85	3.85	4.90	13.50	20.10	
29	1.35	5.80	3.40	7.15	22.50	35.80	31.90	3.85	3.85	4.90		20.10	
30	1.35	4.30	3.40	7.15	25.75	32.20	31.30	4.00	4.00	4.90		19.90	
31		3.40		7.15	36.40		30.25		4.00	4.90		19.70	
Total	40.05	60.50	107.90	217.15	519.50	1011.05	1243.50	328.85	114.85	144.70	329.15	582.30	4699.50 CMSDAY
Mean	1.33	1.95	3.60	7.00	16.76	33.70	40.11	10.96	3.70	4.67	11.76	18.78	12.88 CMS
Max	1.45	5.80	10.45	11.05	46.00	73.20	73.20	21.10	4.00	5.20	13.70	21.10	73.20 CMS
Min	1.25	1.35	2.00	3.55	5.35	11.50	27.75	3.85	3.40	4.00	5.65	13.90	1.25 CMS
Runoff	3.460	5.227	9.323	18.762	44.885	87.355	107.438	28.413	9.923	12.502	28.439	50.311	406.037 MCM

Momentary Peak 73.55 CMS, at 137.33 M (MSL), at 6.00 Hours, on Sep 18, 1994

Runoff Yield 1.96 Liters/Second/Square KM, Momentary Peak Yield 11.20 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

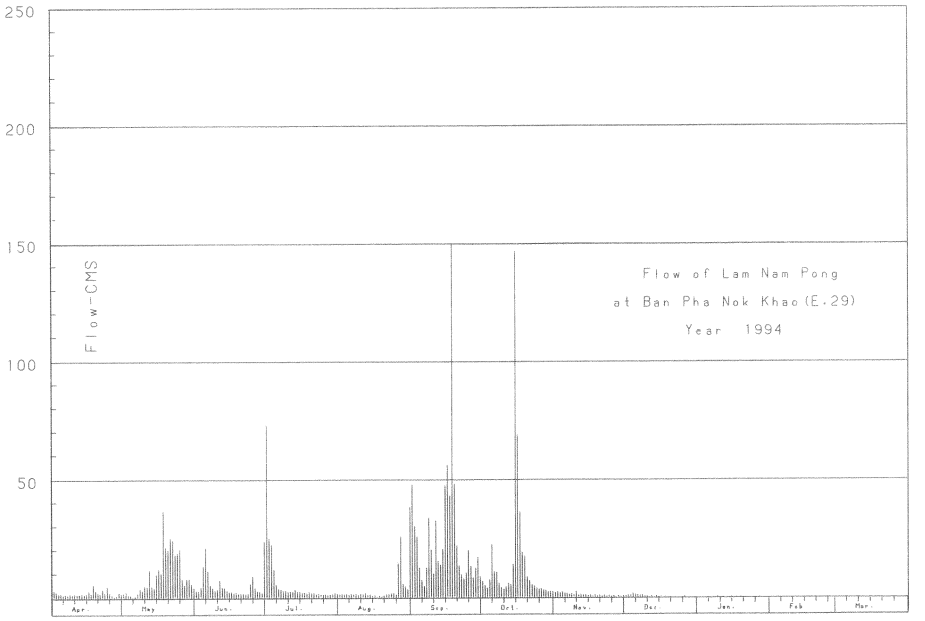
Lam Nam Phong at Ban Pha Nok Khao, Loei (E.29)

Location	Lat. 16°-50'-45" N., Long. 101°-56'-54" E., on right bank in the vicinity of the forestry office about 400 meters from the bridge on highway, Ban Pha Nok Khao, Amphoe Phu Kradung, Loei.
Drainage Area	945 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+225.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Infront of the automatic gage building.
Elevation	+236.945 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1956-1958, 1967 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 107 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	226.30	226.12	226.27	230.82	226.07	229.72	226.67	226.18	225.95	225.82	225.73	225.69	
2	226.17	226.17	226.22	228.25	226.04	228.66	226.50	226.17	225.95	225.82	225.73	225.69	
3	226.10	226.01	226.45	228.07	226.06	228.31	226.41	226.16	225.99	225.82	225.73	225.69	
4	226.06	225.95	227.24	227.13	226.06	227.21	226.77	226.16	226.07	225.82	225.73	225.69	
5	226.03	225.85	227.96	226.54	226.03	226.72	228.06	226.15	226.04	225.81	225.73	225.69	
6	226.03	225.82	227.04	226.39	226.04	226.51	227.00	226.08	225.97	225.81	225.73	225.68	
7	226.01	226.11	226.55	226.32	226.07	227.17	227.02	226.06	225.96	225.81	225.73	225.68	
8	226.05	226.37	226.38	226.28	226.04	228.87	226.60	226.04	225.94	225.80	225.72	225.68	
9	226.03	226.24	226.28	226.24	226.02	227.89	226.44	226.03	225.92	225.79	225.71	225.68	
10	226.04	226.46	226.30	226.22	226.05	226.97	226.37	226.20	225.92	225.79	225.71	225.68	
11	226.06	226.48	226.71	226.20	226.09	228.81	226.44	226.01	225.91	225.78	225.71	225.68	
12	226.07	227.10	226.45	226.23	226.11	227.46	226.62	226.00	225.89	225.78	225.71	225.72	
13	226.06	226.45	226.39	226.31	226.04	227.33	226.55	226.00	225.89	225.78	225.71	225.72	
14	226.06	226.42	226.29	226.24	226.02	227.88	227.31	225.98	225.89	225.78	225.71	225.70	
15	226.06	226.92	226.22	226.19	225.96	229.70	233.10	225.96	225.89	225.78	225.71	225.70	
16	226.22	227.11	226.18	226.16	225.96	230.15	230.64	225.95	225.88	225.77	225.71	225.68	
17	226.08	226.98	226.15	226.15	225.92	229.48	229.04	225.94	225.87	225.77	225.71	225.68	
18	226.58	229.04	226.13	226.13	225.92	233.19	227.77	225.95	225.85	225.77	225.70	225.66	
19	226.30	227.99	226.11	226.18	225.92	229.76	227.66	225.93	225.85	225.77	225.70	225.66	
20	226.15	227.86	226.08	226.15	225.93	228.03	226.87	225.93	225.84	225.76	225.70	225.66	
21	226.05	228.26	226.08	226.12	226.06	227.26	226.70	225.94	225.84	225.75	225.70	225.66	
22	226.34	228.22	226.08	226.08	226.02	226.92	226.57	225.94	225.84	225.75	225.70	225.66	
23	226.11	227.72	226.07	226.05	226.13	226.80	226.47	225.93	225.84	225.75	225.70	225.66	
24	226.48	227.74	226.61	226.04	226.10	226.99	226.42	225.92	225.82	225.74	225.70	225.66	
25	226.12	227.92	226.86	226.04	226.08	227.94	226.37	225.92	225.82	225.74	225.69	225.66	
26	225.95	226.78	226.39	226.01	227.41	227.23	226.34	225.90	225.82	225.74	225.69	225.66	
27	225.90	226.56	226.26	226.01	228.31	226.83	226.31	225.90	225.82	225.74	225.69	225.66	
28	225.91	226.75	226.19	226.02	226.60	227.19	226.25	225.90	225.82	225.73	225.69	225.66	
29	226.19	226.81	226.15	226.10	226.45	227.59	226.22	225.90	225.82	225.73		225.66	
30	226.04	226.56	228.18	226.11	226.35	226.85	226.20	225.90	225.82	225.73		225.74	
31		226.39		226.08	229.17		226.18		225.82	225.73		225.73	
Mean	226.12	226.88	226.48	226.48	226.29	228.05	227.09	226.00	225.89	225.77	225.71	225.68	
Max	226.58	229.04	228.18	230.82	229.17	233.19	233.10	226.20	226.07	225.82	225.73	225.74	233.19
Min	225.90	225.82	226.07	226.01	225.92	226.51	226.18	225.90	225.82	225.73	225.69	225.66	225.66

Annual Max Momentary Gage Height 233.95 M (MSL), at 18.00 Hours, on Oct 15, 1994
Zero Gage at Bottom Elevation 225.00 M (MSL), River Bed 225.59 M (MSL)
Left Bank Elevation 236.75 M (MSL)
Right Bank Elevation 238.10 M (MSL), Drainage Area 945 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.50	2.14	3.26	73.50	1.82	47.96	6.97	2.56	1.10	0.56	0.29	0.18	
2	2.49	2.49	2.86	25.15	1.64	30.80	5.20	2.49	1.10	0.56	0.29	0.18	
3	2.00	1.46	4.75	22.84	1.76	25.93	4.39	2.42	1.34	0.56	0.29	0.18	
4	1.76	1.10	13.40	12.30	1.76	13.10	8.07	2.42	1.82	0.56	0.29	0.18	
5	1.58	0.65	21.52	5.60	1.58	7.52	22.72	2.35	1.64	0.53	0.29	0.18	
6	1.58	0.56	11.40	4.22	1.64	5.30	11.00	1.88	1.22	0.53	0.29	0.16	
7	1.46	2.07	5.70	3.66	1.82	12.70	11.20	1.76	1.16	0.53	0.29	0.16	
8	1.70	4.06	4.14	3.34	1.64	33.95	6.20	1.64	1.04	0.50	0.26	0.16	
9	1.58	3.02	3.34	3.02	1.52	20.68	4.66	1.58	0.92	0.47	0.23	0.16	
10	1.64	4.84	3.50	2.86	1.70	10.58	4.06	2.70	0.92	0.47	0.23	0.16	
11	1.76	5.02	7.41	2.70	1.94	33.05	4.66	1.46	0.86	0.44	0.23	0.16	
12	1.82	12.00	4.75	2.94	2.07	15.60	6.42	1.40	0.77	0.44	0.23	0.26	
13	1.76	4.75	4.22	3.58	1.64	14.30	5.70	1.40	0.77	0.44	0.23	0.26	
14	1.76	4.48	3.42	3.02	1.52	20.56	14.10	1.28	0.77	0.44	0.23	0.20	
15	1.76	9.88	2.86	2.63	1.16	47.60	147.00	1.16	0.77	0.44	0.23	0.20	
16	2.86	12.10	2.56	2.42	1.16	56.75	69.00	1.10	0.74	0.41	0.23	0.16	
17	1.88	10.72	2.35	2.35	0.92	43.68	36.64	1.04	0.71	0.41	0.23	0.16	
18	6.00	36.64	2.21	2.21	0.92	150.60	19.24	1.10	0.65	0.41	0.20	0.12	
19	3.50	21.88	2.07	2.56	0.92	48.68	17.92	0.98	0.65	0.41	0.20	0.12	
20	2.35	20.32	1.88	2.35	0.98	22.36	9.24	0.98	0.62	0.38	0.20	0.12	
21	1.70	25.28	1.88	2.14	1.76	13.60	7.30	1.04	0.62	0.35	0.20	0.12	
22	3.82	24.76	1.88	1.88	1.52	9.88	5.90	1.04	0.62	0.35	0.20	0.12	
23	2.07	18.64	1.82	1.70	2.21	8.40	4.93	0.98	0.62	0.35	0.20	0.12	
24	5.02	18.88	6.31	1.64	2.00	10.86	4.48	0.92	0.56	0.32	0.20	0.12	
25	2.14	21.04	9.12	1.64	1.88	21.28	4.06	0.92	0.56	0.32	0.18	0.12	
26	1.10	8.18	4.22	1.46	15.10	13.30	3.82	0.80	0.56	0.32	0.18	0.12	
27	0.80	5.80	3.18	1.46	25.93	8.76	3.58	0.80	0.56	0.32	0.18	0.12	
28	0.86	7.85	2.63	1.52	6.20	12.90	3.10	0.80	0.56	0.29	0.18	0.12	
29	2.63	8.52	2.35	2.00	4.75	17.08	2.86	0.80	0.56	0.29		0.12	
30	1.64	5.80	24.24	2.07	3.90	9.00	2.70	0.80	0.56	0.29		0.32	
31		4.22		1.88	38.72		2.56		0.56	0.29		0.29	
Total	66.52	309.15	165.23	202.64	134.08	786.76	459.68	42.60	25.91	12.98	6.48	5.15	2217.18 CMSDAY
Mean	2.22	9.97	5.51	6.54	4.33	26.23	14.83	1.42	0.84	0.42	0.23	0.17	6.07 CMS
Max	6.00	36.64	24.24	73.50	38.72	150.60	147.00	2.70	1.82	0.56	0.29	0.32	150.60 CMS
Min	0.80	0.56	1.82	1.46	0.92	5.30	2.56	0.80	0.56	0.29	0.18	0.12	0.12 CMS
Runoff	5.747	26.711	14.276	17.508	11.585	67.976	39.716	3.681	2.239	1.121	0.560	0.445	191.564 MCM

Momentary Peak 181.75 CMS, at 233.95 M (MSL), at 18.00 Hours, on Oct 15, 1994

Runoff Yield 6.43 Liters/Second/Square KM, Momentary Peak Yield 192.33 Liters/Second/Square KM

WATER YEAR 1994

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 — Stable.

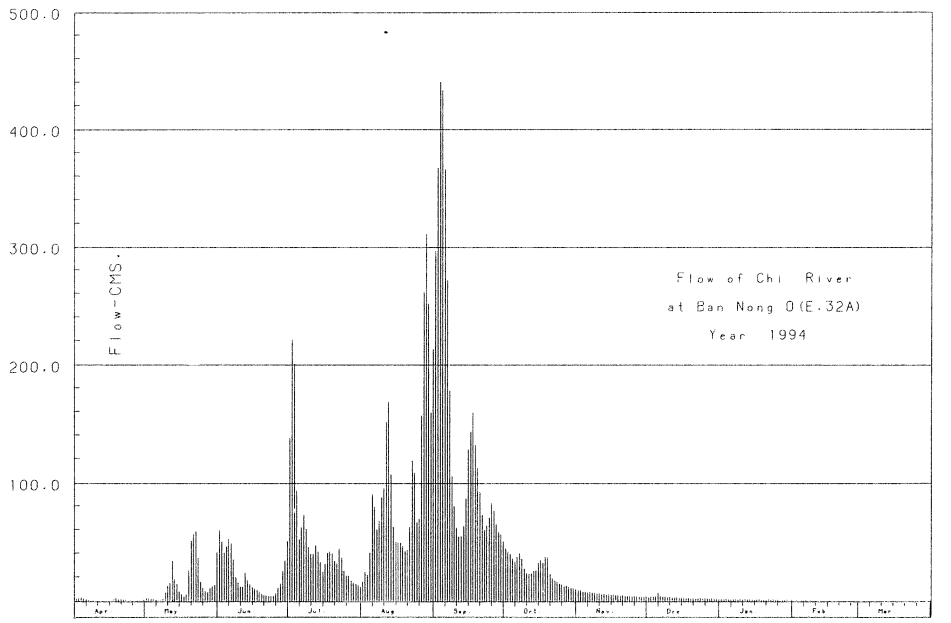
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 63 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	198.75	198.79	201.84	204.63	199.64	208.04	200.94	199.28	198.88	198.69	198.62	198.53	
2	198.75	198.74	201.30	206.70	200.00	208.95	200.70	199.26	198.92	198.69	198.61	198.53	
3	198.86	198.75	200.65	206.27	199.91	209.69	200.52	199.22	198.93	198.69	198.59	198.53	
4	198.76	198.69	201.05	203.14	200.66	209.62	200.37	199.20	198.93	198.69	198.58	198.53	
5	198.67	198.60	201.45	201.45	203.04	208.94	200.29	199.18	199.17	198.69	198.58	198.52	
6	198.61	198.56	201.21	201.94	202.66	207.67	200.41	199.17	198.95	198.68	198.58	198.51	
7	198.59	198.64	200.34	202.40	201.87	205.70	200.59	199.16	198.91	198.67	198.58	198.51	
8	198.57	198.68	199.83	201.90	202.18	203.56	200.36	199.14	198.88	198.66	198.58	198.51	
9	198.55	199.16	199.58	200.99	202.94	202.68	200.10	199.12	198.87	198.66	198.57	198.51	
10	198.54	199.44	199.43	200.51	203.20	201.93	199.94	199.11	198.85	198.65	198.57	198.51	
11	198.54	199.59	199.40	200.51	205.03	201.54	199.92	199.09	198.84	198.66	198.57	198.51	
12	198.54	200.31	199.98	201.12	205.45	201.57	199.96	199.08	198.84	198.66	198.57	198.51	
13	198.54	199.73	199.68	200.76	203.60	202.00	200.04	199.07	198.82	198.66	198.57	198.51	
14	198.54	199.55	199.54	200.27	201.98	202.91	200.03	199.06	198.81	198.66	198.57	198.50	
15	198.54	199.22	199.39	200.01	201.31	204.29	200.27	199.05	198.79	198.66	198.56	198.49	
16	198.57	199.05	199.33	200.22	201.24	204.81	200.33	199.04	198.79	198.66	198.56	198.48	
17	198.76	198.94	199.29	200.64	201.28	205.22	200.26	199.03	198.78	198.65	198.56	198.46	
18	198.77	199.05	199.19	200.71	201.05	204.43	200.42	199.01	198.77	198.63	198.56	198.47	
19	198.70	200.03	199.08	200.59	200.77	203.76	200.41	199.00	198.76	198.63	198.55	198.47	
20	198.66	201.37	199.01	200.32	200.84	203.10	199.94	198.98	198.76	198.63	198.55	198.47	
21	198.65	201.64	198.97	200.23	201.95	202.39	199.77	198.97	198.76	198.64	198.54	198.48	
22	198.62	201.78	198.96	200.91	203.99	201.83	199.69	198.96	198.76	198.64	198.55	198.48	
23	198.60	200.38	198.94	200.41	203.64	202.01	199.61	198.95	198.75	198.64	198.55	198.48	
24	198.59	199.63	198.96	200.02	202.13	202.29	199.56	198.94	198.75	198.64	198.54	198.48	
25	198.57	199.36	199.11	199.89	202.25	202.77	199.50	198.93	198.74	198.63	198.54	198.48	
26	198.56	199.20	199.36	199.87	205.16	202.53	199.46	198.92	198.73	198.62	198.54	198.48	
27	198.56	199.18	199.57	199.69	207.50	202.05	199.48	198.91	198.73	198.62	198.54	198.49	
28	198.56	199.38	200.03	199.57	208.25	201.76	199.40	198.89	198.72	198.62	198.53	198.51	
29	198.59	199.43	200.32	199.55	207.30	201.63	199.38	198.89	198.71	198.62		198.51	
30	198.75	199.50	201.35	199.48	205.24	201.32	199.34	198.89	198.71	198.62		198.50	
31		200.63		199.43	206.53		199.31		198.70	198.62		198.50	
Mean	198.63	199.52	199.87	201.10	202.99	204.03	200.01	199.05	198.82	198.65	198.56	198.50	
Max	198.86	201.78	201.84	206.70	208.25	209.69	200.94	199.28	199.17	198.69	198.62	198.53	209.69
Min	198.54	198.56	198.94	199.43	199.64	201.32	199.31	198.89	198.70	198.62	198.53	198.46	198.46

Annual Max Momentary Gage Height 209.80 M (MSL), at 23.00 Hours, on Sep 3, 1994
Zero Gage at Bottom Elevation 198.00 M (MSL), River Bed 174.74 M (MSL)
Left Bank Elevation 182.12 M (MSL)
Right Bank Elevation 182.13 M (MSL), Drainage Area 2905 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	2.90	60.80	138.90	16.80	296.80	45.10	9.64	3.80	1.90	1.20	0.30	
2	2.50	2.40	50.50	222.00	25.00	367.50	42.00	9.28	4.20	1.90	1.10	0.30	
3	3.60	2.50	41.50	201.80	22.75	440.90	40.20	8.56	4.30	1.90	0.90	0.30	
4	2.60	1.90	46.75	94.20	41.60	433.20	36.10	8.20	4.30	1.90	0.80	0.30	
5	1.70	1.00	53.00	53.00	91.20	366.60	33.70	7.86	7.69	1.90	0.80	0.20	
6	1.10	0.60	49.15	62.80	80.50	272.20	37.30	7 69	4.50	1.80	0.80	0.10	
7	0.90	1.40	35.20	74.00	61.40	179.00	40.90	7.52	4.10	1.70	0.80	0.10	
8	0.70	1.80	20.75	62.00	68.50	106.80	35.80	7.18	3.80	1.60	0.80	0.10	
9	0.50	7.52	15.60	45.85	88.20	81.00	28.00	6.84	3.70	1.60	0.70	0.10	
10	0.40	12.80	12.60	40.10	96.00	62.60	23.50	6.67	3.50	1.50	0.70	0.10	
11	0.40	15.80	12.00	40.10	152.20	54.80	23.00	6.35	3.40	1.60	0.70	0.10	
12	0.40	34.30	24.50	47.80	169.00	55.40	24.00	6.20	3.40	1.60	0.70	0.10	
13	0.40	18.60	17.60	42.60	108.00	64.00	26.20	6.05	3.20	1.60	0.70	0.10	
14	0.40	15.00	14.80	33.10	63.60	87.30	25.90	5.90	3.10	1.60	0.70	0.00	
15	0.40	8.56	11.80	25.30	50.65	128.70	33.10	5.75	2.90	1.60	0.60	0.00	
16	0.70	5.75	10.60	31.60	49.60	144.35	34.90	5.60	2.90	1.60	0.60	0.00	
17	2.60	4.40	9.82	41.40	50.20	159.80	32.80	5.45	2.80	1.50	0.60	0.00	
18	2.70	5.75	8.03	42.10	46.75	132.90	37.60	5.15	2.70	1.30	0.60	0.00	
19	2.00	25.90	6.20	40.90	42.70	112.80	37.30	5.00	2.60	1.30	0.50	0.00	
20	1.60	51.55	5.15	34.60	43.60	93.00	23.50	4.80	2.60	1.30	0.50	0.00	
21	1.50	56.80	4.70	31.90	63.00	73.75	19.40	4.70	2.60	1.40	0.40	0.00	
22	1.20	59.60	4.60	44.65	119.70	60.60	17.80	4.60	2.60	1.40	0.50	0.00	
23	1.00	36.40	4.40	37.30	109.20	64.25	16.20	4.50	2.50	1.40	0.50	0.00	
24	0.90	16.60	4.60	25.60	67.25	71.25	15.20	4.40	2.50	1.40	0.40	0.00	
25	0.70	11.20	6.67	22.25	70.25	83.25	14.00	4.30	2.40	1.30	0.40	0.00	
26	0.60	8.20	11.20	21.75	157.40	77.25	13.20	4.20	2.30	1.20	0.40	0.00	
27	0.60	7.86	15.40	17.80	262.00	65.25	13.60	4.10	2.30	1.20	0.40	0.00	
28	0.60	11.60	25.90	15.40	311.50	59.20	12.00	3.90	2.20	1.20	0.30	0.10	
29	0.90	12.60	34.60	15.00	252.00	56.60	11.60	3.90	2.10	1.20		0.10	
30	2.50	14.00	51.25	13.60	160.60	50.80	10.80	3.90	2.10	1.20		0.00	
31		41.30		12.60	213.50		10.20		2.00	1.20		0.00	
Total	38.60	496.59	669.67	1632.00	3154.65	4301.85	814.90	178.19	99.09	46.80	18.10	2.40	11452.84 CMSDAY
Mean	1.29	16.02	22.32	52.65	101.76	143.40	26.29	5.94	3.20	1.51	0.65	0.08	31.38 CMS
Max	3.60	59.60	60.80	222.00	311.50	440.90	45.10	9.64	7.69	1.90	1.20	0.30	440.90 CMS
Min	0.40	0.60	4.40	12.60	16.80	50.80	10.20	3.90	2.00	1.20	0.30	0.00	0.00 CMS
Runoff	3.335	42.905	57.859	141.005	272.562	371.680	70.407	15.396	8.561	4.044	1.564	0.207	989.526 MCM

Momentary Peak 453.00 CMS, at 209.80 M (MSL), at 23.00 Hours, on Sep 3, 1994

Runoff Yield 10.80 Liters/Second/Square KM, Momentary Peak Yield 155.94 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

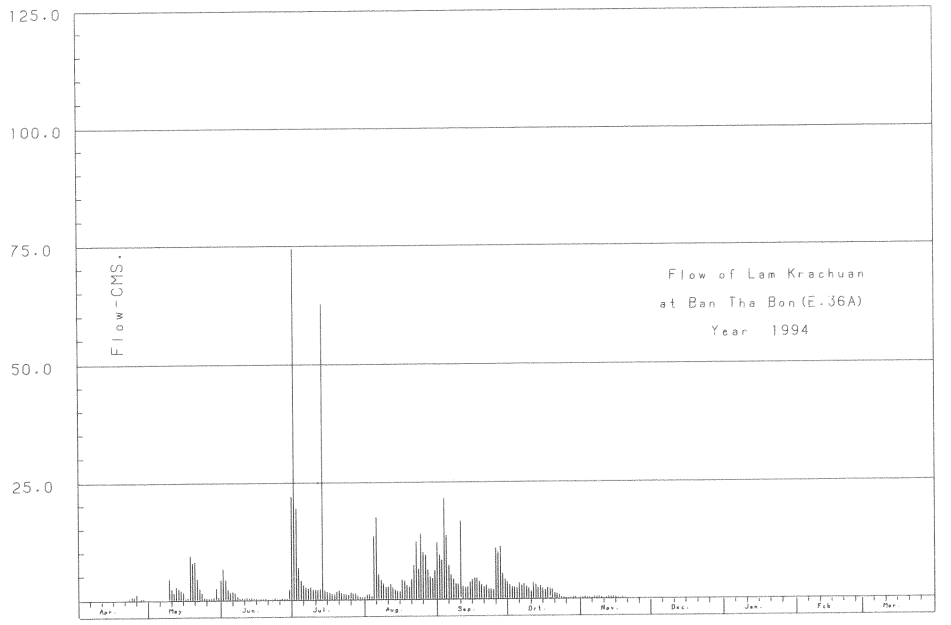
Lam Krachuan at Ban Tha Bon, Chaiyaphum (E.36A)

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 fair. Stage-discharge relation defined by 47 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	213.10	213.14	214.07	217.04	213.49	214.29	213.73	213.34	213.15	213.04	212.86	212.64	
2	213.19	213.11	213.88	214.86	213.49	214.21	213.69	213.35	213.14	213.04	212.85	212.64	
3	213.17	213.08	213.64	214.09	213.45	214.96	213.66	213.35	213.18	213.03	212.85	212.64	
4	213.15	213.07	213.54	213.85	214.55	214.56	213.65	213.33	213.15	213.02	212.84	212.64	
5	213.09	213.06	213.60	213.75	214.76	214.13	213.77	213.31	213.13	212.99	212.83	212.64	
6	213.08	213.05	213.53	213.68	213.97	213.95	213.72	213.31	213.11	212.99	212.81	212.64	
7	213.06	213.06	213.45	213.66	213.86	213.87	213.75	213.31	213.10	212.98	212.81	212.62	
8	213.06	213.19	213.39	213.68	213.77	213.77	213.70	213.30	213.10	212.97	212.80	212.59	
9	213.05	213.89	213.34	213.63	213.70	213.76	213.63	213.29	213.10	212.97	212.80	212.57	
10	213.04	213.65	213.33	213.63	213.69	214.72	213.56	213.29	213.10	212.95	212.81	212.54	
11	213.02	213.53	213.30	213.60	213.77	213.70	213.78	213.28	213.10	212.95	212.78	212.53	
12	213.01	213.70	213.30	213.64	213.67	213.67	213.74	213.30	213.09	212.94	212.77	212.53	
13	212.99	213.66	213.29	216.62	213.61	213.68	213.65	213.31	213.09	212.94	212.76	212.53	
14	212.98	213.59	213.28	213.59	213.57	213.81	213.71	213.31	213.09	212.94	212.75	212.53	
15	212.98	213.56	213.26	213.56	213.57	213.85	213.62	213.30	213.09	212.93	212.74	212.53	
16	212.97	213.38	213.24	213.54	213.85	213.89	213.59	213.30	213.08	212.93	212.73	212.53	
17	212.96	213.32	213.24	213.51	213.84	213.88	213.64	213.28	213.10	212.92	212.72	212.53	
18	212.95	214.29	213.26	213.50	213.73	213.82	213.63	213.27	213.10	212.91	212.70	212.53	
19	212.95	214.17	213.23	213.56	213.70	213.73	213.59	213.25	213.10	212.91	212.68	212.53	
20	212.95	214.19	213.24	213.60	213.86	213.69	213.52	213.21	213.09	212.92	212.66	212.53	
21	213.07	213.90	213.20	213.53	214.12	213.72	213.49	213.19	213.09	212.92	212.65	212.53	
22	213.41	213.66	213.24	213.51	214.47	213.62	213.47	213.17	213.09	212.92	212.64	212.53	
23	213.45	213.53	213.27	213.49	214.07	213.61	213.34	213.16	213.07	212.95	212.64	212.53	
24	213.43	213.43	213.23	213.49	214.59	213.60	213.27	213.15	213.08	212.94	212.64	212.53	
25	213.51	213.40	213.21	213.55	214.32	214.38	213.25	213.13	213.07	212.93	212.64	212.53	
26	213.30	213.38	213.24	213.51	214.29	214.32	213.24	213.12	213.07	212.91	212.64	212.53	
27	213.37	213.32	213.28	213.53	214.05	214.40	213.23	213.12	213.06	212.90	212.64	212.53	
28	213.27	213.42	213.40	213.46	213.91	213.97	213.30	213.12	213.05	212.90	212.64	212.53	
29	213.20	213.67	213.63	213.43	213.89	213.86	213.39	213.17	213.05	212.89		212.53	
30	213.18	213.43	214.98	213.42	214.03	213.79	213.33	213.16	213.05	212.89		212.53	
31		213.86		213.43	214.45		213.34		213.04	212.87		212.53	
Mean	213.13	213.51	213.44	213.84	213.94	213.97	213.55	213.25	213.09	212.94	212.74	212.56	
Max	213.51	214.29	214.98	217.04	214.76	214.96	213.78	213.35	213.18	213.04	212.86	212.64	217.04
Min	212.95	213.05	213.20	213.42	213.45	213.60	213.23	213.12	213.04	212.87	212.64	212.53	212.53

Annual Max Momentary Gage Height 217.41 M (MSL), at 16.00 Hours, on Jul 1, 1994
Zero Gage at Bottom Elevation 211.25 M (MSL), River Bed 212.72 M (MSL)
Left Bank Elevation 220.97 M (MSL)
Right Bank Elevation 219.76 M (MSL), Drainage Area 290 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.14	6.64	74.52	1.17	9.56	3.07	0.46	0.15	0.04	0.00	0.00	
2	0.19	0.11	4.50	19.70	1.17	8.44	2.73	0.45	0.14	0.04	0.00	0.00	
3	0.17	0.08	2.38	6.88	0.83	21.70	2.52	0.45	0.18	0.03	0.00	0.00	
4	0.15	0.07	1.59	4.20	13.53	13.66	2.45	0.47	0.15	0.02	0.00	0.00	
5	0.09	0.06	2.10	3.25	17.70	7.39	3.43	0.49	0.13	0.00	0.00	0.00	
6	0.08	0.05	1.50	2.66	5.47	5.25	2.98	0.49	0.11	0.00	0.00	0.00	
7	0.06	0.06	0.83	2.52	4.30	4.40	3.25	0.49	0.10	0.00	0.00	0.00	
8	0.06	0.19	0.41	2.66	3.43	3.43	2.80	0.50	0.10	0.00	0.00	0.00	
9	0.05	4.60	0.46	2.31	2.80	3.34	2.31	0.47	0.10	0.00	0.00	0.00	
10	0.04	2.45	0.47	2.31	2.73	16.90	1.76	0.47	0.10	0.00	0.00	0.00	
11	0.02	1.50	0.50	2.10	3.43	2.80	3.52	0.44	0.10	0.00	0.00	0.00	
12	0.01	2.80	0.50	2.38	2.59	2.59	3.16	0.50	0.09	0.00	0.00	0.00	
13	0.00	2.52	0.47	62.84	2.17	2.66	2.45	0.49	0.09	0.00	0.00	0.00	
14	0.00	2.01	0.44	2.01	1.85	3.80	2.89	0.49	0.09	0.00	0.00	0.00	
15	0.00	1.76	0.38	1.76	1.85	4.20	2.24	0.50	0.09	0.00	0.00	0.00	
16	0.00	0.42	0.32	1.59	4.20	4.60	2.01	0.50	0.08	0.00	0.00	0.00	
17	0.00	0.48	0.32	1.33	4.10	4.50	2.38	0.44	0.10	0.00	0.00	0.00	
18	0.00	9.56	0.38	1.25	3.07	3.90	2.31	0.41	0.10	0.00	0.00	0.00	
19	0.00	7.91	0.29	1.76	2.80	3.07	2.01	0.35	0.10	0.00	0.00	0.00	
20	0.00	8.17	0.32	2.10	4.30	2.73	1.42	0.23	0.09	0.00	0.00	0.00	
21	0.07	4.70	0.20	1.50	7.26	2.98	1.17	0.19	0.09	0.00	0.00	0.00	
22	0.49	2.52	0.32	1.33	12.42	2.24	1.00	0.17	0.09	0.00	0.00	0.00	
23	0.83	1.50	0.41	1.17	6.64	2.17	0.46	0.16	0.07	0.00	0.00	0.00	
24	0.65	0.65	0.29	1.17	14.03	2.10	0.41	0.15	0.08	0.00	0.00	0.00	
25	1.33	0.40	0.23	1.67	10.02	10.98	0.35	0.13	0.07	0.00	0.00	0.00	
26	0.50	0.42	0.32	1.33	9.56	10.02	0.32	0.12	0.07	0.00	0.00	0.00	
27	0.43	0.48	0.44	1.50	6.40	11.30	0.29	0.12	0.06	0.00	0.00	0.00	
28	0.41	0.57	0.40	0.91	4.81	5.47	0.50	0.12	0.05	0.00	0.00	0.00	
29	0.20	2.59	2.31	0.65	4.60	4.30	0.41	0.17	0.05	0.00		0.00	
30	0.18	0.65	22.10	0.57	6.16	3.61	0.47	0.16	0.05	0.00		0.00	
31		4.30		0.65	12.10		0.46		0.04	0.00		0.00	
Total	6.11	63.72	51.82	212.58	177.49	184.09	57.53	10.58	2.91	0.13	0.00	0.00	766.96 CMSDAY
Mean	0.20	2.06	1.73	6.86	5.73	6.14	1.86	0.35	0.09	0.00	0.00	0.00	2.10 CMS
Max	1.33	9.56	22.10	74.52	17.70	21.70	3.52	0.50	0.18	0.04	0.00	0.00	74.52 CMS
Min	0.00	0.05	0.20	0.57	0.83	2.10	0.29	0.12	0.04	0.00	0.00	0.00	0.00 CMS
Runoff	0.528	5.505	4.477	18.367	15.335	15.905	4.971	0.914	0.251	0.011	0.000	0.000	66.265 MCM

Momentary Peak 84.88 CMS, at 217.41 M (MSL), at 16.00 Hours, on Jul 1, 1994

Runoff Yield 7.25 Liters/Second/Square KM, Momentary Peak Yield 292.69 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

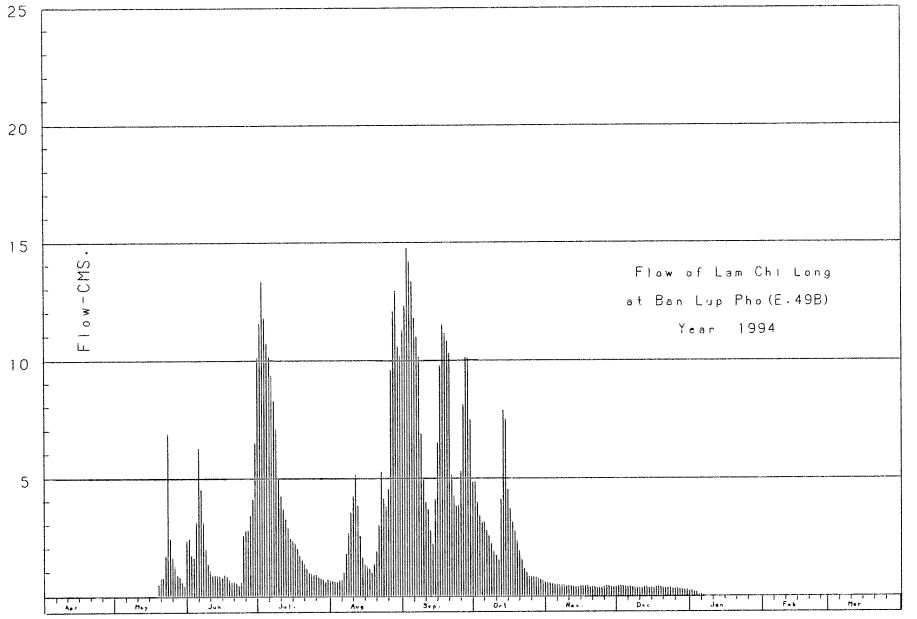
Lam Chi Long at Ban Lup Pho, Chaiyaphum (E.49B)

Location	Lat. 15-47-28 N., Long. 101-52-20 E., on right bank at the bridge on road, Ban Lup Pho, Tambon Talat Raeng, Amphoe Ban Khwao, Chaiyaphum.
Drainage Area	331 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+196.18 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank upstream side at the abutment of the bridge.
Elevation	+200.251 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	196.86	196.86	197.35	198.10	197.13	198.20	197.53	197.11	197.08	197.03	196.76	196.76	
2	196.86	196.86	197.28	198.33	197.12	198.48	197.47	197.11	197.08	197.02	196.76	196.76	
3	196.86	196.86	197.27	198.13	197.12	198.42	197.43	197.10	197.08	197.01	196.76	196.76	
4	196.86	196.86	197.41	197.96	197.13	198.33	197.41	197.10	197.07	197.00	196.76	196.76	
5	196.86	196.86	197.62	197.84	197.14	198.13	197.41	197.10	197.07	196.99	196.76	196.76	
6	196.86	196.86	197.51	197.77	197.20	198.01	197.38	197.09	197.07	196.98	196.76	196.76	
7	196.86	196.86	197.41	197.72	197.29	197.83	197.36	197.09	197.07	196.96	196.76	196.76	
8	196.86	196.86	197.31	197.66	197.37	197.65	197.33	197.09	197.06	196.94	196.76	196.76	
9	196.86	196.86	197.24	197.54	197.44	197.54	197.30	197.08	197.06	196.93	196.76	196.76	
10	196.86	196.86	197.21	197.49	197.49	197.47	197.28	197.08	197.06	196.90	196.76	196.76	
11	196.86	196.86	197.18	197.45	197.55	197.45	197.26	197.08	197.06	196.88	196.76	196.76	
12	196.86	196.86	197.18	197.42	197.46	197.38	197.48	197.07	197.07	196.87	196.76	196.76	
13	196.86	196.86	197.18	197.39	197.36	197.33	197.70	197.07	197.07	196.86	196.76	196.76	
14	196.86	196.86	197.17	197.35	197.27	197.48	197.68	197.07	197.06	196.85	196.76	196.76	
15	196.86	196.86	197.16	197.34	197.24	197.63	197.51	197.08	197.06	196.84	196.76	196.76	
16	196.86	196.86	197.18	197.33	197.23	197.79	197.45	197.08	197.06	196.83	196.76	196.76	
17	196.86	196.86	197.17	197.31	197.22	198.09	197.41	197.08	197.07	196.82	196.76	196.76	
18	196.86	196.86	197.14	197.28	197.20	198.03	197.38	197.08	197.07	196.81	196.76	196.76	
19	196.86	197.10	197.12	197.26	197.24	197.98	197.34	197.07	197.07	196.80	196.76	196.76	
20	196.86	197.15	197.12	197.24	197.30	197.87	197.30	197.07	197.06	196.79	196.76	196.76	
21	196.86	197.16	197.11	197.22	197.40	197.55	197.26	197.07	197.06	196.78	196.76	196.76	
22	196.86	197.28	197.09	197.20	197.56	197.49	197.22	197.06	197.06	196.77	196.76	196.76	
23	196.86	197.65	197.12	197.19	197.48	197.46	197.20	197.06	197.06	196.76	196.76	196.76	
24	196.86	197.35	197.36	197.18	197.46	197.46	197.17	197.06	197.05	196.76	196.76	196.76	
25	196.86	197.27	197.38	197.18	197.51	197.56	197.16	197.07	197.05	196.76	196.76	196.76	
26	196.86	197.23	197.38	197.16	197.78	197.71	197.16	197.08	197.05	196.76	196.76	196.76	
27	196.86	197.18	197.43	197.15	198.17	197.83	197.16	197.08	197.05	196.76	196.76	196.76	
28	196.86	197.16	197.48	197.14	198.28	197.82	197.15	197.07	197.04	196.76	196.76	196.76	
29	196.86	197.12	197.63	197.12	197.93	197.68	197.14	197.07	197.04	196.76		196.76	
30	196.86	197.08	197.83	197.14	197.84	197.53	197.13	197.07	197.04	196.76		196.76	
31		197.34		197.13	198.05		197.12		197.03	196.76		196.76	
Mean	196.86	197.02	197.30	197.44	197.45	197.77	197.33	197.08	197.06	196.85	196.76	196.76	
Max	196.86	197.65	197.83	198.33	198.28	198.48	197.70	197.11	197.08	197.03	196.76	196.76	198.48
Min	196.86	196.86	197.09	197.12	197.12	197.33	197.12	197.06	197.03	196.76	196.76	196.76	196.76

Annual Max Momentary Gage Height 198.48 M (MSL), at 6.00 Hours, on Sep 2, 1994
Zero Gage at Bottom Elevation 196.18 M (MSL), River Bed 196.69 M (MSL)
Left Bank Elevation 199.21 M (MSL)
Right Bank Elevation 199.29 M (MSL), Drainage Area 331 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.45	11.60	0.65	12.30	4.85	0.55	0.42	0.22	0.00	0.00	
2	0.00	0.00	1.72	13.37	0.60	14.80	3.98	0.55	0.42	0.18	0.00	0.00	
3	0.00	0.00	1.63	11.81	0.60	14.20	3.42	0.50	0.42	0.14	0.00	0.00	
4	0.00	0.00	3.14	10.75	0.65	13.37	3.14	0.50	0.38	0.10	0.00	0.00	
5	0.00	0.00	6.30	10.18	0.70	11.81	3.14	0.50	0.38	0.08	0.00	0.00	
6	0.00	0.00	4.55	9.37	1.00	11.01	2.78	0.46	0.38	0.06	0.00	0.00	
7	0.00	0.00	3.14	8.32	1.81	10.14	2.56	0.46	0.38	0.02	0.00	0.00	
8	0.00	0.00	2.01	7.10	2.67	6.90	2.23	0.46	0.34	0.00	0.00	0.00	
9	0.00	0.00	1.36	5.00	3.56	5.00	1.90	0.42	0.34	0.00	0.00	0.00	
10	0.00	0.00	1.09	4.26	4.26	3.98	1.72	0.42	0.34	0.00	0.00	0.00	
11	0.00	0.00	0.90	3.70	5.15	3.70	1.54	0.42	0.34	0.00	0.00	0.00	
12	0.00	0.00	0.90	3.28	3.84	2.78	4.12	0.38	0.38	0.00	0.00	0.00	
13	0.00	0.00	0.90	2.89	2.56	2.23	7.90	0.38	0.38	0.00	0.00	0.00	
14	0.00	0.00	0.85	2.45	1.63	4.12	7.50	0.38	0.34	0.00	0.00	0.00	
15	0.00	0.00	0.80	2.34	1.36	6.50	4.55	0.42	0.34	0.00	0.00	0.00	
16	0.00	0.00	0.90	2.23	1.27	9.79	3.70	0.42	0.34	0.00	0.00	0.00	
17	0.00	0.00	0.85	2.01	1.18	11.53	3.14	0.42	0.38	0.00	0.00	0.00	
18	0.00	0.00	0.70	1.72	1.00	11.14	2.78	0.42	0.38	0.00	0.00	0.00	
19	0.00	0.50	0.60	1.54	1.36	10.85	2.34	0.38	0.38	0.00	0.00	0.00	
20	0.00	0.75	0.60	1.36	1.90	10.31	1.90	0.38	0.34	0.00	0.00	0.00	
21	0.00	0.80	0.55	1.18	3.00	5.15	1.54	0.38	0.34	0.00	0.00	0.00	
22	0.00	1.72	0.46	1.00	5.30	4.26	1.18	0.34	0.34	0.00	0.00	0.00	
23	0.00	6.90	0.60	0.95	4.12	3.84	1.00	0.34	0.34	0.00	0.00	0.00	
24	0.00	2.45	2.56	0.90	3.84	3.84	0.85	0.34	0.30	0.00	0.00	0.00	
25	0.00	1.63	2.78	0.90	4.55	5.30	0.80	0.38	0.30	0.00	0.00	0.00	
26	0.00	1.27	2.78	0.80	9.58	8.11	0.80	0.42	0.30	0.00	0.00	0.00	
27	0.00	0.90	3.42	0.75	12.09	10.14	0.80	0.42	0.30	0.00	0.00	0.00	
28	0.00	0.80	4.12	0.70	12.94	10.09	0.75	0.38	0.26	0.00	0.00	0.00	
29	0.00	0.60	6.50	0.60	10.60	7.50	0.70	0.38	0.26	0.00		0.00	
30	0.00	0.42	10.14	0.70	10.18	4.85	0.65	0.38	0.26	0.00		0.00	
31		2.34		0.65	11.28		0.60		0.22	0.00		0.00	
Total	0.00	21.08	69.30	124.41	125.23	239.54	78.86	12.58	10.62	0.80	0.00	0.00	682.42 CMSDAY
Mean	0.00	0.68	2.31	4.01	4.04	7.98	2.54	0.42	0.34	0.03	0.00	0.00	1.87 CMS
Max	0.00	6.90	10.14	13.37	12.94	14.80	7.90	0.55	0.42	0.22	0.00	0.00	14.80 CMS
Min	0.00	0.00	0.46	0.60	0.60	2.23	0.60	0.34	0.22	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	1.821	5.988	10.749	10.820	20.696	6.814	1.087	0.918	0.069	0.000	0.000	58.961 MCM

Momentary Peak 14.80 CMS, at 198.48 M (MSL), at 6.00 Hours, on Sep 2, 1994

Runoff Yield 5.65 Liters/Second/Square KM, Momentary Peak Yield 44.71 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

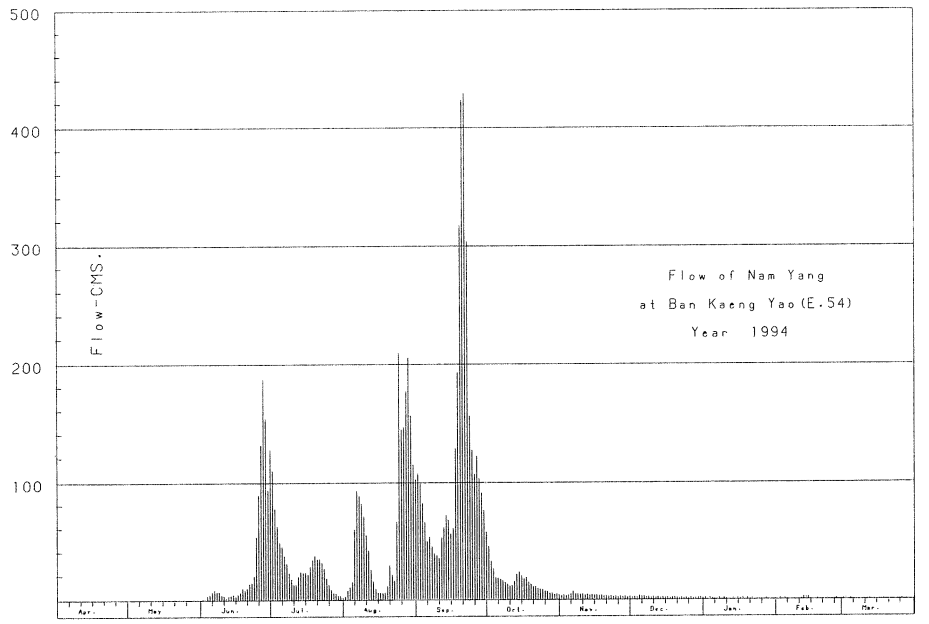
Nam Yang at Ban Kaeng Yao, Kalasin (E.54)

Location	Lat. 16°-26'-29" N., Long. 104°-02'-07" E., on left bank at Ban Kaeng Yao about 2 kilometers downstream from proposed of USBR Damsite, Amphoe Kuchinarai, Kalasin.
Drainage Area	1,511 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at abutment of the bridge.
Elevation	+11.648 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1969 - 1977, 1983 to date.
Rated by Float	-
Rated by Current Meter	1969 - 1977, 1983 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by the local weir downstream in drought period. Stage-discharge relation defined by 91 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.54	0.50	0.70	4.10	1.04	4.05	2.55	1.16	1.01	0.90	0.89	0.89	
2	0.53	0.45	0.73	3.42	1.43	3.90	2.23	1.15	0.99	0.86	0.87	0.86	
3	0.51	0.41	1.07	3.03	1.53	3.52	2.04	1.14	1.02	0.88	0.83	0.84	
4	0.50	0.41	1.23	2.67	1.73	3.11	1.84	1.13	1.10	0.87	0.85	0.80	
5	0.50	0.40	1.36	2.55	2.96	2.70	1.81	1.28	1.07	0.86	0.80	0.80	
6	0.48	0.39	1.41	2.35	3.74	2.79	1.80	1.36	1.05	0.86	0.80	0.79	
7	0.46	0.40	1.37	2.16	3.66	2.57	1.74	1.27	1.01	0.87	0.80	0.76	
8	0.46	0.41	1.33	1.96	3.50	2.38	1.71	1.21	1.00	0.86	0.79	0.74	
9	0.46	0.41	1.20	1.78	3.26	2.36	1.63	1.25	0.99	0.86	0.78	0.74	
10	0.42	0.42	1.08	1.65	2.85	2.28	1.59	1.22	0.98	0.85	0.78	0.75	
11	0.41	0.42	0.97	1.62	2.46	2.79	1.58	1.20	0.97	0.86	0.86	0.75	
12	0.40	0.40	1.05	1.87	2.03	3.00	1.74	1.20	0.97	0.84	0.98	0.73	
13	0.40	0.40	1.17	1.96	1.72	3.28	1.90	1.19	0.96	0.82	0.99	0.74	
14	0.41	0.40	1.19	1.96	1.50	3.16	1.98	1.17	0.95	0.85	0.96	0.74	
15	0.40	0.40	1.10	1.95	1.33	2.88	1.87	1.19	0.93	0.85	0.83	0.74	
16	0.40	0.42	1.19	1.92	1.29	2.98	1.81	1.15	0.93	0.87	0.81	0.74	
17	0.40	0.62	1.34	2.09	1.31	4.48	1.83	1.14	0.93	0.91	0.80	0.74	
18	0.54	0.59	1.48	2.26	1.30	5.58	1.72	1.12	0.92	0.90	0.79	0.74	
19	0.40	0.63	1.43	2.33	1.59	7.20	1.63	1.11	0.94	0.87	0.79	0.73	
20	0.40	0.71	1.48	2.28	2.12	8.36	1.57	1.10	0.95	0.86	0.78	0.71	
21	0.40	0.78	1.64	2.27	1.91	8.43	1.55	1.09	0.93	0.84	0.78	0.70	
22	0.40	0.74	1.70	2.20	1.74	7.05	1.51	1.08	0.90	0.84	0.78	0.70	
23	0.40	0.66	1.88	2.05	3.12	4.98	1.45	1.06	0.90	0.82	0.79	0.70	
24	0.40	0.61	2.81	1.83	5.83	4.44	1.47	1.05	0.87	0.80	0.78	0.70	
25	0.40	0.59	3.66	1.64	4.78	4.05	1.41	1.04	0.87	0.80	0.78	0.71	
26	0.56	0.54	4.53	1.44	4.80	4.34	1.35	1.03	0.90	0.80	0.77	0.71	
27	0.54	0.54	5.49	1.32	5.33	3.96	1.30	1.03	0.89	0.80	0.79	0.71	
28	0.48	0.57	4.93	1.26	5.76	3.71	1.28	1.03	0.85	0.80	0.80	0.73	
29	0.47	0.60	3.77	1.16	4.97	3.36	1.24	1.02	0.94	0.80		0.75	
30	0.45	0.74	4.47	1.11	4.21	2.92	1.23	1.01	0.92	0.80		0.76	
31		0.65		0.91	3.96		1.17		0.90	0.90		0.76	
Mean	0.45	0.52	1.96	2.04	2.86	4.02	1.66	1.14	0.95	0.85	0.82	0.75	
Max	0.56	0.78	5.49	4.10	5.83	8.43	2.55	1.36	1.10	0.91	0.99	0.89	8.43
Min	0.40	0.39	0.70	0.91	1.04	2.28	1.17	1.01	0.85	0.80	0.77	0.70	0.39

Annual Max Momentary Gage Height 8.64 M (A.D), at 24.00 Hours, on Sep 20, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.21 M (A.D)
Left Bank Elevation 8.37 M (A.D)
Right Bank Elevation 8.22 M (A.D), Drainage Area 1511 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.20	0.80	110.00	2.90	107.50	45.25	4.10	2.60	1.80	1.74	1.74	
2	0.29	0.15	0.92	78.40	8.60	100.00	33.48	4.00	2.43	1.56	1.62	1.56	
3	0.23	0.11	3.20	62.70	10.75	82.90	26.40	3.90	2.70	1.68	1.38	1.44	
4	0.20	0.11	4.95	49.45	15.90	65.90	19.40	3.80	3.50	1.62	1.50	1.20	
5	0.20	0.10	7.20	45.25	59.90	50.50	18.35	5.70	3.20	1.56	1.20	1.20	
6	0.18	0.09	8.20	38.08	92.80	53.65	18.00	7.20	3.00	1.56	1.20	1.16	
7	0.16	0.10	7.40	30.80	89.20	45.95	16.20	5.55	2.60	1.62	1.20	1.04	
8	0.16	0.11	6.60	23.60	82.00	39.23	15.30	4.65	2.50	1.56	1.16	0.96	
9	0.16	0.11	4.50	17.40	71.90	38.47	13.25	5.25	2.43	1.56	1.12	0.96	
10	0.12	0.12	3.30	13.75	55.75	35.40	12.25	4.80	2.36	1.50	1.12	1.00	
11	0.11	0.12	2.29	13.00	42.10	53.65	12.00	4.50	2.29	1.56	1.56	1.00	
12	0.10	0.10	3.00	20.45	26.05	61.50	16.20	4.50	2.29	1.44	2.36	0.92	
13	0.10	0.10	4.20	23.60	15.60	72.70	21.50	4.40	2.22	1.32	2.43	0.96	
14	0.11	0.10	4.40	23.60	10.00	67.90	24.30	4.20	2.15	1.50	2.22	0.96	
15	0.10	0.10	3.50	23.25	6.60	56.80	20.45	4.40	2.01	1.50	1.38	0.96	
16	0.10	0.12	4.40	22.20	5.85	60.70	18.35	4.00	2.01	1.62	1.26	0.96	
17	0.10	0.56	6.80	28.15	6.20	129.00	19.05	3.90	2.01	1.87	1.20	0.96	
18	0.32	0.47	9.60	34.63	6.00	193.70	15.60	3.70	1.94	1.80	1.16	0.96	
19	0.10	0.59	8.60	37.32	12.25	317.00	13.25	3.60	2.08	1.62	1.16	0.92	
20	0.10	0.84	9.60	35.40	29.27	423.20	11.75	3.50	2.15	1.56	1.12	0.84	
21	0.10	1.12	13.50	35.02	21.85	429.85	11.25	3.40	2.01	1.44	1.12	0.80	
22	0.10	0.96	15.00	32.33	16.20	304.25	10.25	3.30	1.80	1.44	1.12	0.80	
23	0.10	0.68	20.80	26.75	66.30	156.80	9.00	3.10	1.80	1.32	1.16	0.80	
24	0.10	0.53	54.35	19.05	210.10	127.00	9.40	3.00	1.62	1.20	1.12	0.80	
25	0.10	0.47	89.20	13.50	145.40	107.50	8.20	2.90	1.62	1.20	1.12	0.84	
26	0.38	0.32	131.65	8.80	146.50	122.00	7.00	2.80	1.80	1.20	1.08	0.84	
27	0.32	0.32	187.85	6.40	177.80	103.00	6.00	2.80	1.74	1.20	1.16	0.84	
28	0.18	0.41	153.80	5.40	205.40	91.45	5.70	2.80	1.50	1.20	1.20	0.92	
29	0.17	0.50	94.15	4.10	156.20	75.90	5.10	2.70	2.08	1.20		1.00	
30	0.15	0.96	128.50	3.60	115.50	58.30	4.95	2.60	1.94	1.20		1.04	
31		0.65		1.87	103.00		4.20		1.80	1.80		1.04	
Total	4.96	11.22	992.26	887.85	2013.87	3631.70	471.38	119.05	68.18	46.21	38.17	31.42	8316.27 CMSDAY
Mean	0.17	0.36	33.08	28.64	64.96	121.06	15.21	3.97	2.20	1.49	1.36	1.01	22.78 CMS
Max	0.38	1.12	187.85	110.00	210.10	429.85	45.25	7.20	3.50	1.87	2.43	1.74	429.85 CMS
Min	0.10	0.09	0.80	1.87	2.90	35.40	4.20	2.60	1.50	1.20	1.08	0.80	0.09 CMS
Runoff	0.429	0.969	85.731	76.710	173.998	313.779	40.727	10.286	5.891	3.993	3.298	2.715	718.526 MCM

Momentary Peak 449.80 CMS, at 8.64 M (A.D), at 24.00 Hours, on Sep 20, 1994
Runoff Yield 15.08 Liters/Second/Square KM, Momentary Peak Yield 297.68 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

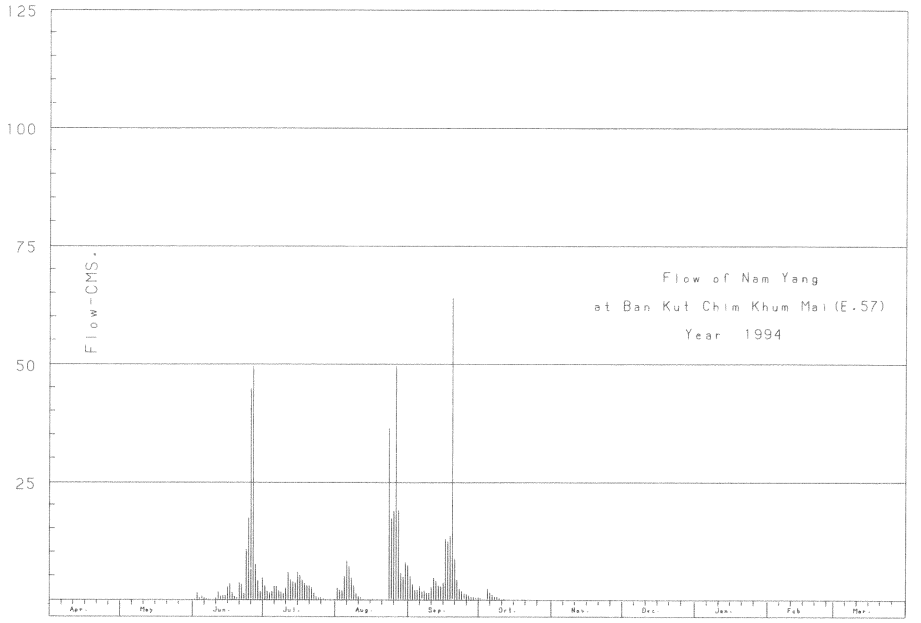
Nam Yang at Ban Kut Chim Khum Mai, Kalasin (E.57)

Location	Lat. 16°-41'-05" N., Long. 104°-05'-10" E., on right bank at the bridge on highway Ban Kut Chim Khum Mai, Amphoe Khao Wong, Kalasin.
Drainage Area	98 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+7.757 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1969-1971, 1983 to date.
Rating Operation	
Period of Rating	1969-1970, 1984 to date.
Rated by Float	-
Rated by Current Meter	1969-1970, 1984 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.08	-0.08	0.05	0.35	0.33	0.47	0.11	-0.03	-0.08	-0.08	-0.08	-0.08	
2	-0.08	-0.08	0.26	0.28	0.29	0.37	0.10	-0.03	-0.08	-0.08	-0.08	-0.08	
3	-0.08	-0.08	0.12	0.24	0.29	0.30	0.09	-0.03	-0.08	-0.08	-0.08	-0.08	
4	-0.08	-0.08	0.19	0.28	0.46	0.29	0.32	-0.03	-0.08	-0.08	-0.08	-0.08	
5	-0.08	-0.08	0.13	0.35	0.62	0.35	0.26	-0.04	-0.08	-0.08	-0.08	-0.08	
6	-0.08	-0.08	0.06	0.34	0.56	0.27	0.21	-0.04	-0.08	-0.08	-0.08	-0.08	
7	-0.08	-0.07	0.05	0.29	0.45	0.28	0.17	-0.04	-0.08	-0.08	-0.08	-0.08	
8	-0.08	-0.07	0.06	0.25	0.35	0.25	0.15	-0.04	-0.08	-0.08	-0.08	-0.08	
9	-0.08	-0.07	0.09	0.24	0.24	0.24	0.11	-0.04	-0.08	-0.08	-0.08	-0.08	
10	-0.08	-0.07	0.11	0.32	0.16	0.33	0.09	-0.04	-0.08	-0.08	-0.08	-0.08	
11	-0.08	-0.07	0.27	0.50	0.15	0.45	0.08	-0.05	-0.08	-0.08	-0.08	-0.08	
12	-0.08	-0.07	0.17	0.43	0.13	0.41	0.09	-0.05	-0.08	-0.08	-0.08	-0.08	
13	-0.08	-0.07	0.20	0.40	0.09	0.36	0.08	-0.05	-0.08	-0.08	-0.08	-0.08	
14	-0.08	-0.07	0.19	0.40	0.06	0.34	0.07	-0.05	-0.08	-0.08	-0.08	-0.08	
15	-0.08	-0.07	0.34	0.51	0.06	0.40	0.07	-0.05	-0.08	-0.08	-0.08	-0.08	
16	-0.08	-0.07	0.37	0.47	0.06	0.79	0.06	-0.05	-0.08	-0.08	-0.08	-0.08	
17	-0.08	-0.07	0.26	0.43	0.06	0.77	0.06	-0.05	-0.08	-0.08	-0.08	-0.08	
18	-0.08	-0.07	0.16	0.38	0.05	0.82	0.05	-0.06	-0.08	-0.08	-0.08	-0.08	
19	-0.08	-0.07	0.14	0.36	0.05	2.02	0.05	-0.06	-0.08	-0.08	-0.08	-0.08	
20	-0.08	-0.06	0.40	0.35	0.08	0.64	0.04	-0.06	-0.08	-0.08	-0.08	-0.08	
21	-0.08	-0.06	0.37	0.33	0.06	0.42	0.03	-0.06	-0.08	-0.08	-0.08	-0.08	
22	-0.08	-0.06	0.24	0.25	0.06	0.32	0.02	-0.06	-0.08	-0.08	-0.08	-0.08	
23	-0.08	-0.06	0.71	0.15	1.44	0.27	0.01	-0.06	-0.08	-0.08	-0.08	-0.08	
24	-0.08	-0.06	0.94	0.14	0.94	0.24	-0.01	-0.06	-0.08	-0.08	-0.08	-0.08	
25	-0.08	-0.06	1.64	0.13	0.98	0.23	-0.02	-0.06	-0.08	-0.08	-0.08	-0.08	
26	-0.08	-0.05	1.73	0.12	1.73	0.19	-0.03	-0.06	-0.08	-0.08	-0.08	-0.08	
27	-0.08	-0.05	0.59	0.10	0.99	0.17	-0.03	-0.06	-0.08	-0.08	-0.08	-0.08	
28	-0.08	-0.05	0.42	0.08	0.50	0.15	-0.03	-0.06	-0.08	-0.08	-0.08	-0.08	
29	-0.08	-0.05	0.28	0.06	0.45	0.14	-0.03	-0.06	-0.08	-0.08		-0.08	
30	-0.08	-0.05	0.44	0.05	0.60	0.13	-0.03	-0.06	-0.08	-0.08		-0.08	
31		-0.05		0.04	0.57		-0.03		-0.08	-0.08		-0.08	
Mean	-0.08	-0.07	0.37	0.28	0.41	0.41	0.07	-0.05	-0.08	-0.08	-0.08	-0.08	
Max	-0.08	-0.05	1.73	0.51	1.73	2.02	0.32	-0.03	-0.08	-0.08	-0.08	-0.08	2.02
Min	-0.08	-0.08	0.05	0.04	0.05	0.13	-0.03	-0.06	-0.08	-0.08	-0.08	-0.08	-0.08

Annual Max Momentary Gage Height 3.45 M (A.D), at 3.00 Hours, on Sep 19, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.33 M (A.D)
Left Bank Elevation 6.85 M (A.D)
Right Bank Elevation 6.60 M (A.D), Drainage Area 98 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.15	3.00	2.68	5.20	0.37	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	1.72	1.96	2.08	3.32	0.30	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.44	1.48	2.08	2.20	0.27	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.93	1.96	5.00	2.08	2.52	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.51	3.00	8.40	3.00	1.72	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.18	2.84	7.06	1.84	1.12	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.15	2.08	4.80	1.96	0.79	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.18	1.60	3.00	1.60	0.65	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.27	1.48	1.48	1.48	0.37	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.37	2.52	0.72	2.68	0.27	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	1.84	5.80	0.65	4.80	0.24	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.79	4.40	0.51	4.00	0.27	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	1.00	3.80	0.27	3.16	0.24	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.93	3.80	0.18	2.84	0.21	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	2.84	6.01	0.18	3.80	0.21	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	3.32	5.20	0.18	12.92	0.18	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	1.72	4.40	0.18	12.36	0.18	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.72	3.48	0.15	13.78	0.15	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.58	3.16	0.15	64.20	0.15	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	3.80	3.00	0.24	8.90	0.12	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	3.32	2.68	0.18	4.20	0.09	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	1.48	1.60	0.18	2.52	0.06	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	10.68	0.65	36.60	1.84	0.03	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	17.46	0.58	17.46	1.48	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	45.00	0.51	18.82	1.36	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	49.50	0.44	49.50	0.93	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	7.69	0.30	19.16	0.79	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	4.20	0.24	5.80	0.65	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	1.96	0.18	4.80	0.58	0.00	0.00	0.00	0.00		0.00	
30	0.00	0.00	4.60	0.15	7.90	0.51	0.00	0.00	0.00	0.00		0.00	
31		0.00		0.12	7.27		0.00		0.00	0.00		0.00	
Total	0.00	0.00	168.33	72.42	207.66	170.98	10.51	0.00	0.00	0.00	0.00	0.00	629.90 CMSDAY
Mean	0.00	0.00	5.61	2.34	6.70	5.70	0.34	0.00	0.00	0.00	0.00	0.00	1.73 CMS
Max	0.00	0.00	49.50	6.01	49.50	64.20	2.52	0.00	0.00	0.00	0.00	0.00	64.20 CMS
Min	0.00	0.00	0.15	0.12	0.15	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	14.544	6.257	17.942	14.773	0.908	0.000	0.000	0.000	0.000	0.000	54.423 MCM

Momentary Peak 160.00 CMS, at 3.45 M (A.D), at 3.00 Hours, on Sep 19, 1994

Runoff Yield 17.61 Liters/Second/Square KM, Momentary Peak Yield 1632.65 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

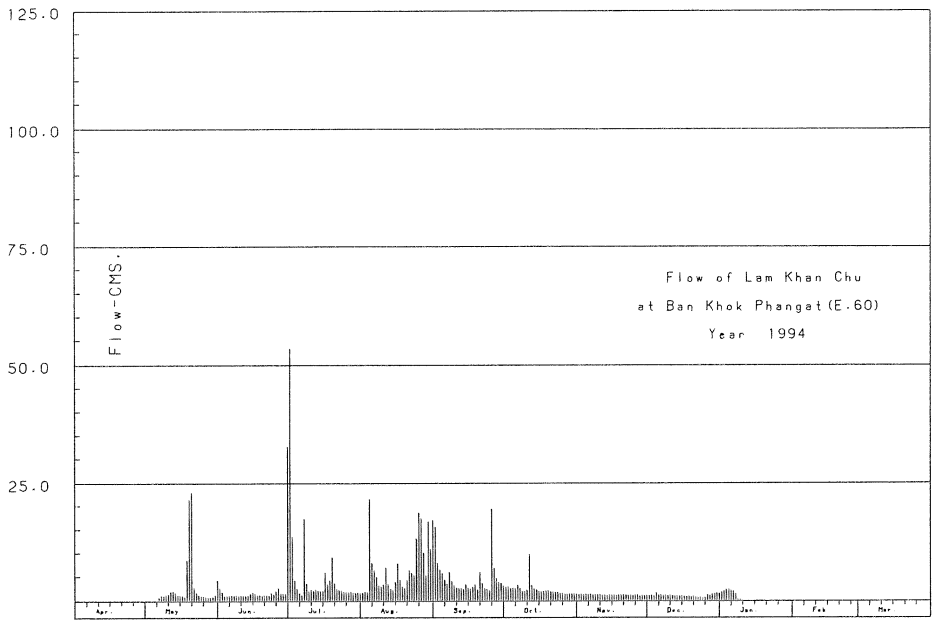
Lam Khan Chu at Ban Khok Phangat, Chaiyaphum (E.60)

Location	Lat. 15-29-14 N., Long. 101-33-32 E., on left bank about 500 meters from Ban Khok Phangat, Amphoe Bamnet Narong, Chaiyaphum.
Drainage Area	205 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	About 8 meters from the top staff gage.
Elevation	+7.326 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1977 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the weir about 1,800 meters downstream from the gage site. Stage-discharge relation defined by 24 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	2.40	3.10	5.58	2.98	4.11	3.13	2.93	2.88	2.74	2.19	1.85	
2	1.00	2.43	3.00	3.98	3.00	3.58	3.13	2.93	2.88	2.72	2.18	1.85	
3	1.00	2.42	2.86	3.28	3.00	3.47	3.10	2.93	2.87	2.71	2.17	1.85	
4	1.00	2.43	2.88	3.08	4.41	3.40	3.10	2.93	2.96	2.70	2.15	1.85	
5	1.00	2.55	2.89	2.97	3.59	3.29	3.10	2.93	2.91	2.69	2.13	1.85	
6	1.00	2.82	2.88	2.89	3.45	3.19	3.18	2.92	2.90	2.68	2.11	1.85	
7	1.00	2.87	2.89	4.20	3.34	3.43	3.09	2.91	2.89	2.66	2.07	1.85	
8	1.00	2.88	2.89	3.21	3.16	3.26	3.02	2.91	2.89	2.61	2.03	1.85	
9	1.00	2.90	2.88	3.01	3.14	3.16	3.01	2.92	2.89	2.61	1.97	1.85	
10	1.00	2.92	2.88	3.05	3.18	3.12	3.05	2.91	2.89	2.58	1.90	1.85	
11	1.00	3.01	2.87	3.03	3.50	3.10	3.73	2.90	2.89	2.55	1.86	1.85	
12	1.00	3.02	2.88	3.06	3.19	3.10	3.17	2.90	2.87	2.55	1.85	1.85	
13	1.00	2.96	2.88	3.03	3.09	3.08	3.08	2.90	2.86	2.55	1.85	1.85	
14	1.00	2.91	2.95	3.01	3.04	3.19	3.07	2.91	2.87	2.54	1.85	1.85	
15	1.00	2.88	2.99	3.03	3.24	3.11	3.01	2.91	2.87	2.53	1.85	1.85	
16	1.00	2.87	2.94	3.41	3.58	3.08	3.01	2.90	2.86	2.52	1.85	1.85	
17	1.00	2.84	2.91	3.19	3.28	3.13	3.01	2.90	2.85	2.51	1.85	1.85	
18	1.00	3.64	2.89	3.27	3.14	3.18	3.03	2.90	2.85	2.48	1.85	1.85	
19	1.00	4.41	2.89	3.69	3.09	3.07	3.03	2.91	2.84	2.47	1.85	1.85	
20	1.00	4.48	2.89	3.21	3.28	3.42	3.01	2.91	2.84	2.40	1.85	1.85	
21	1.00	3.11	2.89	3.07	3.45	3.21	3.00	2.91	2.83	2.28	1.85	1.85	
22	1.00	2.98	2.89	3.05	3.41	3.10	2.99	2.90	2.81	2.24	1.85	1.85	
23	1.00	2.89	2.96	3.03	3.36	3.07	2.98	2.90	2.81	2.23	1.85	1.85	
24	1.00	2.87	2.93	3.00	3.96	3.04	2.96	2.90	2.80	2.23	1.85	1.85	
25	1.00	2.84	3.01	2.98	4.27	4.31	2.95	2.90	2.80	2.23	1.85	1.85	
26	1.00	2.83	3.10	2.99	4.20	3.50	2.94	2.90	2.77	2.24	1.85	1.85	
27	1.00	2.82	2.96	3.01	3.76	3.31	2.93	2.87	2.77	2.23	1.85	1.85	
28	1.00	2.81	2.94	2.97	3.36	3.23	2.93	2.88	2.76	2.22	1.85	1.85	
29	1.00	2.84	2.95	2.97	4.17	3.22	2.94	2.88	2.75	2.21		1.85	
30	1.00	2.89	4.88	2.97	3.81	3.15	2.94	2.88	2.75	2.20		1.85	
31		3.28		2.96	4.18		2.93		2.75	2.20		1.85	
Mean	1.00	2.96	2.99	3.23	3.47	3.29	3.05	2.91	2.84	2.46	1.94	1.85	
Max	1.00	4.48	4.88	5.58	4.41	4.31	3.73	2.93	2.96	2.74	2.19	1.85	5.58
Min	1.00	2.40	2.86	2.89	2.98	3.04	2.93	2.87	2.75	2.20	1.85	1.85	1.00

Annual Max Momentary Gage Height 6.35 M (A.D), at 6.00 Hours, on Jul 1, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.53 M (A.D)
Left Bank Elevation 7.64 M (A.D)
Right Bank Elevation 7.28 M (A.D), Drainage Area 205 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.65	53.64	1.76	15.79	2.94	1.41	1.09	1.76	0.00	0.00	
2	0.00	0.00	1.90	13.58	1.90	7.96	2.94	1.41	1.09	2.13	0.00	0.00	
3	0.00	0.00	0.98	4.40	1.90	6.64	2.65	1.41	1.03	2.32	0.00	0.00	
4	0.00	0.00	1.09	2.50	21.60	5.80	2.65	1.41	1.62	2.50	0.00	0.00	
5	0.00	0.00	1.15	1.69	8.08	4.50	2.65	1.41	1.27	2.25	0.00	0.00	
6	0.00	0.76	1.09	1.15	6.40	3.51	3.41	1.34	1.20	2.00	0.00	0.00	
7	0.00	1.03	1.15	17.50	5.08	6.16	2.58	1.27	1.15	1.50	0.00	0.00	
8	0.00	1.09	1.15	3.70	3.22	4.20	2.05	1.27	1.15	0.25	0.00	0.00	
9	0.00	1.20	1.09	1.98	3.03	3.22	1.98	1.34	1.15	0.25	0.00	0.00	
10	0.00	1.34	1.09	2.28	3.41	2.84	2.28	1.27	1.15	0.00	0.00	0.00	
11	0.00	1.98	1.03	2.13	7.00	2.65	9.82	1.20	1.15	0.00	0.00	0.00	
12	0.00	2.05	1.09	2.35	3.51	2.65	3.32	1.20	1.03	0.00	0.00	0.00	
13	0.00	1.62	1.09	2.13	2.58	2.50	2.50	1.20	0.98	0.00	0.00	0.00	
14	0.00	1.27	1.55	1.98	2.20	3.51	2.43	1.27	1.03	0.00	0.00	0.00	
15	0.00	1.09	1.83	2.13	4.00	2.75	1.98	1.27	1.03	0.00	0.00	0.00	
16	0.00	1.03	1.48	5.92	7.96	2.50	1.98	1.20	0.98	0.00	0.00	0.00	
17	0.00	0.87	1.27	3.51	4.40	2.94	1.98	1.20	0.92	0.00	0.00	0.00	
18	0.00	8.68	1.15	4.30	3.03	3.41	2.13	1.20	0.92	0.00	0.00	0.00	
19	0.00	21.60	1.15	9.28	2.58	2.43	2.13	1.27	0.87	0.00	0.00	0.00	
20	0.00	23.00	1.15	3.70	4.40	6.04	1.98	1.27	0.87	0.00	0.00	0.00	
21	0.00	2.75	1.15	2.43	6.40	3.70	1.90	1.27	0.81	0.00	0.00	0.00	
22	0.00	1.76	1.15	2.28	5.92	2.65	1.83	1.20	0.70	0.00	0.00	0.00	
23	0.00	1.15	1.62	2.13	5.32	2.43	1.76	1.20	0.70	0.00	0.00	0.00	
24	0.00	1.03	1.41	1.90	13.26	2.20	1.62	1.20	0.65	0.00	0.00	0.00	
25	0.00	0.87	1.98	1.76	18.83	19.60	1.55	1.20	0.65	0.00	0.00	0.00	
26	0.00	0.81	2.65	1.83	17.50	7.00	1.48	1.20	1.21	0.00	0.00	0.00	
27	0.00	0.76	1.62	1.98	10.24	4.72	1.41	1.03	1.21	0.00	0.00	0.00	
28	0.00	0.70	1.48	1.69	5.32	3.90	1.41	1.09	1.39	0.00	0.00	0.00	
29	0.00	0.87	1.55	1.69	16.93	3.80	1.48	1.09	1.58	0.00		0.00	
30	0.00	1.15	32.66	1.69	10.95	3.13	1.48	1.09	1.58	0.00		0.00	
31		4.40		1.62	17.12		1.41		1.58	0.00		0.00	
Total	0.00	84.86	73.40	160.85	225.83	145.13	73.71	37.39	33.74	14.96	0.00	0.00	849.87 CMSDAY
Mean	0.00	2.74	2.45	5.19	7.28	4.84	2.38	1.25	1.09	0.48	0.00	0.00	2.33 CMS
Max	0.00	23.00	32.66	53.64	21.60	19.60	9.82	1.41	1.62	2.50	0.00	0.00	53.64 CMS
Min	0.00	0.00	0.98	1.15	1.76	2.20	1.41	1.03	0.65	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	7.332	6.342	13.897	19.512	12.539	6.369	3.230	2.915	1.293	0.000	0.000	73.429 MCM

Momentary Peak 80.00 CMS, at 6.35 M (A.D), at 6.00 Hours, on Jul 1, 1994

Runoff Yield 11.36 Liters/Second/Square KM, Momentary Peak Yield 390.24 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

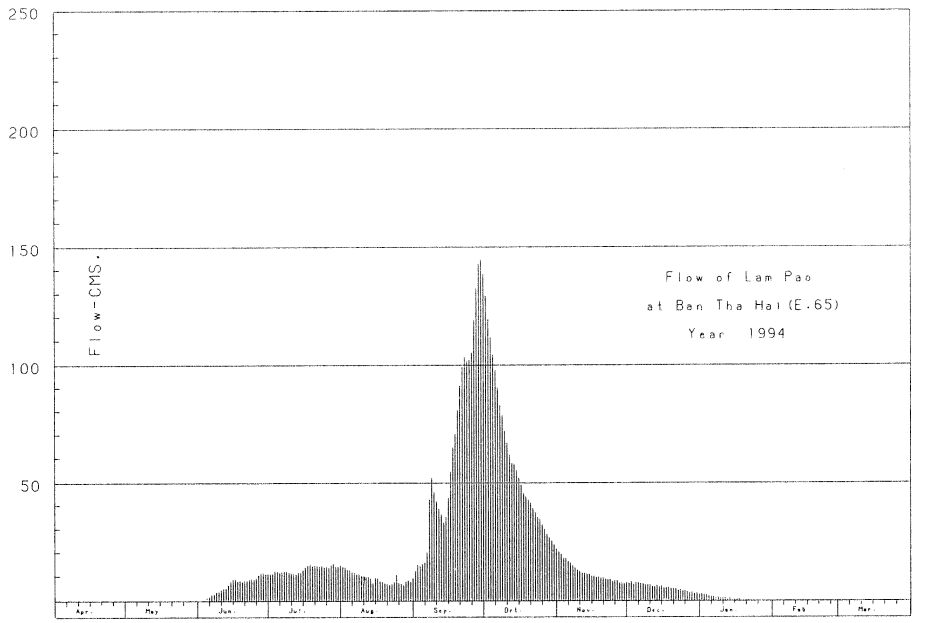
Lam Pao at Ban Tha Hai, Udon Thani (E.65)

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	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+10.695 m.(A.D.)
Gage Reading Frequency	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 22 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.42	1.20	1.43	3.33	3.50	3.41	6.31	4.53	4.18	3.92	3.34	2.72	
2	1.38	1.20	1.58	3.35	3.47	3.52	6.18	4.50	4.19	3.91	3.31	2.69	
3	1.39	1.19	1.78	3.39	3.44	3.51	6.07	4.47	4.16	3.88	3.28	2.66	
4	1.34	1.18	2.15	3.40	3.41	3.53	5.96	4.46	4.18	3.86	3.28	2.64	
5	1.31	1.16	2.35	3.38	3.39	3.57	5.87	4.44	4.19	3.85	3.25	2.59	
6	1.27	1.15	2.46	3.37	3.36	3.71	5.75	4.42	4.16	3.79	3.23	2.58	
7	1.24	1.15	2.58	3.40	3.34	4.40	5.64	4.40	4.17	3.76	3.20	2.54	
8	1.21	1.15	2.69	3.39	3.33	4.63	5.57	4.37	4.14	3.74	3.18	2.51	
9	1.19	1.15	2.79	3.38	3.31	4.47	5.47	4.36	4.15	3.73	3.15	2.50	
10	1.22	1.15	2.84	3.35	3.29	4.37	5.38	4.34	4.14	3.71	3.13	2.47	
11	1.24	1.16	2.88	3.33	3.28	4.28	5.30	4.33	4.13	3.70	3.11	2.44	
12	1.25	1.15	2.93	3.34	3.27	4.22	5.24	4.32	4.12	3.68	3.09	2.42	
13	1.26	1.15	3.04	3.36	3.25	4.12	5.23	4.32	4.13	3.67	3.07	2.39	
14	1.25	1.16	3.18	3.38	3.11	4.18	5.19	4.31	4.12	3.65	3.05	2.37	
15	1.27	1.17	3.23	3.43	3.27	4.42	5.13	4.30	4.12	3.64	3.03	2.33	
16	1.27	1.16	3.22	3.47	3.24	4.69	5.08	4.29	4.10	3.64	3.01	2.30	
17	1.26	1.16	3.19	3.52	3.19	4.95	5.02	4.28	4.10	3.62	2.99	2.26	
18	1.26	1.16	3.18	3.53	3.15	5.08	4.99	4.27	4.09	3.60	2.96	2.27	
19	1.27	1.22	3.18	3.51	3.13	5.31	4.97	4.27	4.08	3.58	2.94	2.22	
20	1.28	1.24	3.19	3.51	3.08	5.52	4.94	4.26	4.06	3.57	2.91	2.16	
21	1.30	1.26	3.18	3.50	3.07	5.69	4.90	4.25	4.05	3.55	2.89	2.14	
22	1.30	1.28	3.23	3.50	3.12	5.77	4.87	4.24	4.03	3.54	2.87	2.12	
23	1.29	1.28	3.22	3.50	3.15	5.73	4.83	4.23	4.03	3.52	2.86	2.10	
24	1.29	1.30	3.23	3.49	3.33	5.74	4.81	4.21	4.01	3.51	2.84	2.08	
25	1.27	1.28	3.24	3.48	3.12	5.81	4.76	4.21	4.00	3.49	2.80	2.08	
26	1.23	1.32	3.32	3.48	3.09	6.08	4.73	4.21	3.98	3.46	2.78	2.06	
27	1.21	1.34	3.36	3.53	3.07	6.34	4.69	4.19	3.96	3.45	2.74	2.05	
28	1.20	1.35	3.35	3.54	3.18	6.52	4.65	4.17	3.96	3.44	2.73	2.04	
29	1.19	1.37	3.34	3.50	3.19	6.56	4.63	4.17	3.94	3.41		2.03	
30	1.18	1.38	3.33	3.49	3.17	6.44	4.59	4.18	3.93	3.40		2.02	
31		1.38		3.51	3.24		4.55		3.92	3.39		2.01	
Mean	1.27	1.22	2.89	3.44	3.24	4.89	5.20	4.31	4.08	3.63	3.04	2.32	
Max	1.42	1.38	3.36	3.54	3.50	6.56	6.31	4.53	4.19	3.92	3.34	2.72	6.56
Min	1.18	1.15	1.43	3.33	3.07	3.41	4.55	4.17	3.92	3.39	2.73	2.01	1.15

Annual Max Momentary Gage Height 6.57 M (A.D), at 21.00 Hours, on Sep 28, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.67 M (A.D)
Left Bank Elevation 6.85 M (A.D)
Right Bank Elevation 6.69 M (A.D), Drainage Area 1949 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.10	0.33	11.10	14.50	12.70	129.25	20.85	7.50	2.80	0.00	0.00	
2	0.28	0.10	0.48	11.50	13.90	15.00	119.60	19.50	7.75	2.65	0.00	0.00	
3	0.29	0.09	0.68	12.30	13.30	14.75	111.90	18.15	7.00	2.30	0.00	0.00	
4	0.24	0.08	1.38	12.50	12.70	15.25	104.20	17.70	7.50	2.10	0.00	0.00	
5	0.21	0.06	1.87	12.10	12.30	16.25	98.05	16.80	7.75	2.00	0.00	0.00	
6	0.17	0.05	2.30	11.90	11.70	20.30	90.25	15.90	7.00	1.45	0.00	0.00	
7	0.14	0.05	2.90	12.50	11.30	43.00	83.10	15.00	7.25	1.30	0.00	0.00	
8	0.11	0.05	3.45	12.30	11.10	52.20	78.55	13.65	6.50	1.20	0.00	0.00	
9	0.09	0.05	3.95	12.10	10.70	45.80	72.20	13.20	6.75	1.15	0.00	0.00	
10	0.12	0.05	4.40	11.50	10.30	41.95	66.80	12.30	6.50	1.05	0.00	0.00	
11	0.14	0.06	4.80	11.10	10.10	38.80	62.00	11.85	6.25	1.00	0.00	0.00	
12	0.15	0.05	5.30	11.30	9.90	36.70	58.40	11.40	6.00	0.90	0.00	0.00	
13	0.16	0.05	6.40	11.70	9.50	33.20	57.80	11.40	6.25	0.85	0.00	0.00	
14	0.15	0.06	8.20	12.10	7.15	35.30	55.40	10.95	6.00	0.75	0.00	0.00	
15	0.17	0.07	9.10	13.10	9.90	43.80	51.80	10.50	6.00	0.70	0.00	0.00	
16	0.17	0.06	8.90	13.90	9.30	54.60	48.90	10.25	5.50	0.70	0.00	0.00	
17	0.16	0.06	8.35	15.00	8.35	65.00	45.60	10.00	5.50	0.60	0.00	0.00	
18	0.16	0.06	8.20	15.25	7.75	70.60	43.95	9.75	5.35	0.50	0.00	0.00	
19	0.17	0.12	8.20	14.75	7.45	80.95	42.85	9.75	5.20	0.40	0.00	0.00	
20	0.18	0.14	8.35	14.75	6.80	91.00	41.20	9.50	4.90	0.35	0.00	0.00	
21	0.20	0.16	8.20	14.50	6.70	99.50	39.00	9.25	4.75	0.25	0.00	0.00	
22	0.20	0.18	9.10	14.50	7.30	103.50	37.50	9.00	4.45	0.20	0.00	0.00	
23	0.19	0.18	8.90	14.50	7.75	101.50	35.50	8.75	4.45	0.10	0.00	0.00	
24	0.19	0.20	9.10	14.30	11.10	102.00	34.50	8.25	4.15	0.05	0.00	0.00	
25	0.17	0.18	9.30	14.10	7.30	105.50	32.00	8.25	4.00	0.00	0.00	0.00	
26	0.13	0.22	10.90	14.10	6.90	119.00	30.50	8.25	3.70	0.00	0.00	0.00	
27	0.11	0.24	11.70	15.25	6.70	132.70	28.50	7.75	3.40	0.00	0.00	0.00	
28	0.10	0.25	11.50	15.50	8.20	142.60	26.50	7.25	3.40	0.00	0.00	0.00	
29	0.09	0.27	11.30	14.50	8.35	144.80	25.50	7.25	3.10	0.00		0.00	
30	0.08	0.28	11.10	14.30	8.05	138.20	23.55	7.50	2.95	0.00		0.00	
31		0.28		14.75	9.30		21.75		2.80	0.00		0.00	
Total	5.04	3.85	198.64	413.05	295.65	2016.45	1796.60	349.90	169.60	25.35	0.00	0.00	5274.13 CMSDAY
Mean	0.17	0.12	6.62	13.32	9.54	67.21	57.95	11.66	5.47	0.82	0.00	0.00	14.45 CMS
Max	0.32	0.28	11.70	15.50	14.50	144.80	129.25	20.85	7.75	2.80	0.00	0.00	144.80 CMS
Min	0.08	0.05	0.33	11.10	6.70	12.70	21.75	7.25	2.80	0.00	0.00	0.00	0.00 CMS
Runoff	0.435	0.333	17.162	35.688	25.544	174.221	155.226	30.231	14.653	2.190	0.000	0.000	455.685 MCM

Momentary Peak 145.35 CMS, at 6.57 M (A.D), at 21.00 Hours, on Sep 28, 1994

Runoff Yield 7.41 Liters/Second/Square KM, Momentary Peak Yield 74.58 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

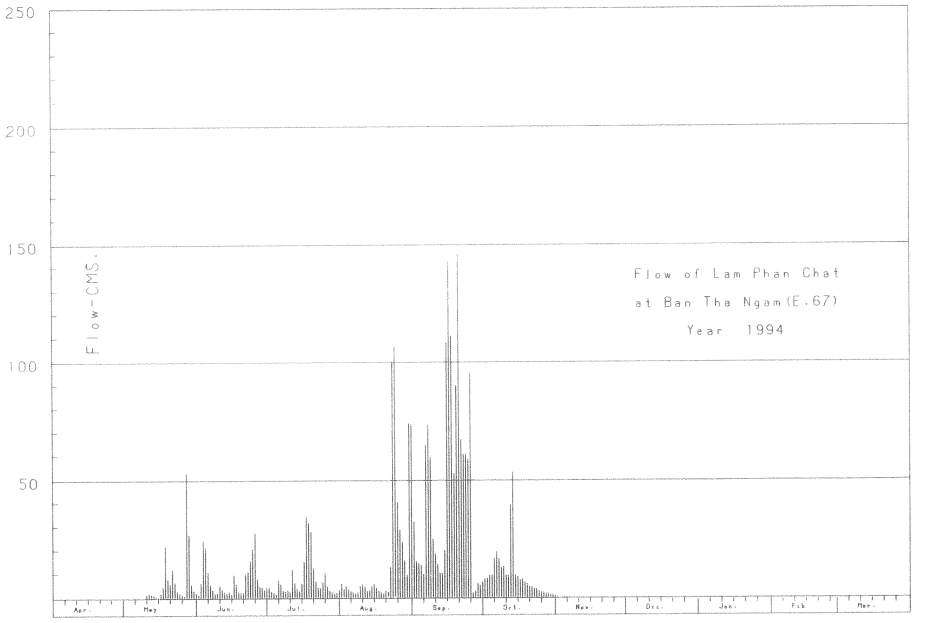
Lam Phan Chat at Ban Tha Ngam, Kalasin (E.67)

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	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+13.649 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	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 80 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.89	0.97	1.18	1.45	1.58	2.59	3.96	3.70	3.47	3.16	2.60	1.99	
2	0.88	0.99	1.57	1.36	1.43	2.02	3.97	3.67	3.46	3.14	2.58	1.96	
3	0.87	0.92	2.34	1.27	1.50	1.98	3.99	3.66	3.45	3.13	2.56	1.94	
4	0.87	0.88	2.23	1.22	1.42	1.97	4.00	3.64	3.44	3.12	2.53	1.90	
5	0.86	0.85	1.84	1.66	1.35	1.79	4.02	3.63	3.44	3.09	2.50	1.87	
6	0.86	0.84	1.55	1.54	1.29	3.48	4.03	3.61	3.43	3.07	2.49	1.85	
7	0.85	0.83	1.37	1.37	1.24	3.69	4.02	3.60	3.43	3.06	2.47	1.82	
8	0.84	0.83	1.25	1.32	1.27	3.34	4.01	3.59	3.43	3.04	2.45	1.79	
9	0.84	0.84	1.23	1.38	1.51	2.35	4.01	3.58	3.42	3.02	2.43	1.77	
10	0.83	1.16	1.51	1.30	1.54	2.14	4.00	3.57	3.42	3.01	2.42	1.74	
11	0.83	1.26	1.41	1.87	1.50	1.97	3.99	3.56	3.41	2.99	2.41	1.70	
12	0.83	1.19	1.31	1.60	1.34	1.82	4.09	3.56	3.40	2.97	2.39	1.68	
13	0.83	1.11	1.27	1.41	1.38	1.80	4.12	3.56	3.39	2.95	2.37	1.65	
14	0.82	1.03	1.32	1.36	1.49	2.20	4.00	3.55	3.38	2.94	2.34	1.62	
15	0.82	1.03	1.21	1.57	1.56	4.51	3.98	3.54	3.38	2.92	2.32	1.59	
16	0.82	1.22	1.78	2.02	1.44	5.21	3.96	3.54	3.37	2.90	2.30	1.55	
17	0.81	1.46	1.55	2.65	1.36	4.57	3.96	3.53	3.36	2.88	2.27	1.52	
18	0.81	2.26	1.33	2.57	1.29	3.17	3.94	3.52	3.35	2.86	2.25	1.48	
19	0.81	1.69	1.26	2.47	1.26	4.10	3.92	3.52	3.35	2.85	2.22	1.44	
20	0.85	1.55	1.30	1.90	1.34	5.28	3.90	3.51	3.33	2.83	2.20	1.42	
21	0.83	1.88	1.79	1.64	1.33	3.54	3.89	3.51	3.32	2.82	2.17	1.39	
22	0.82	1.61	1.84	1.47	1.93	3.38	3.87	3.50	3.30	2.81	2.14	1.39	
23	0.82	1.35	2.04	1.43	4.33	3.38	3.85	3.49	3.29	2.80	2.12	1.36	
24	0.81	1.22	2.21	1.62	4.48	3.32	3.83	3.49	3.28	2.79	2.10	1.33	
25	0.86	1.15	2.45	1.81	2.83	4.22	3.81	3.49	3.27	2.76	2.08	1.29	
26	0.86	1.11	1.69	1.49	2.48	3.77	3.79	3.48	3.26	2.74	2.05	1.25	
27	0.87	3.19	1.51	1.37	2.32	3.82	3.78	3.48	3.25	2.73	2.02	1.23	
28	0.85	2.41	1.46	1.30	2.03	3.93	3.76	3.47	3.23	2.71	2.00	1.20	
29	0.84	1.55	1.39	1.27	1.78	3.91	3.74	3.47	3.21	2.68		1.17	
30	0.81	1.35	1.44	1.24	3.70	3.94	3.73	3.47	3.20	2.65		1.14	
31		1.25		1.36	3.69		3.72		3.18	2.62		1.13	
Mean	0.84	1.32	1.59	1.59	1.90	3.24	3.92	3.55	3.35	2.90	2.31	1.55	
Max	0.89	3.19	2.45	2.65	4.48	5.28	4.12	3.70	3.47	3.16	2.60	1.99	5.28
Min	0.81	0.83	1.18	1.22	1.24	1.79	3.72	3.47	3.18	2.62	2.00	1.13	0.81

Annual Max Momentary Gage Height 5.94 M (A.D), at 10.00 Hours, on Sep 20, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.75 M (A.D)
Left Bank Elevation 13.65 M (A.D)
Right Bank Elevation 13.64 M (A.D), Drainage Area 420 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.45	1.74	4.45	6.46	32.65	8.00	1.00	0.00	0.00	0.00	0.00	
2	0.08	0.55	6.29	3.28	4.19	15.54	8.50	0.82	0.00	0.00	0.00	0.00	
3	0.07	0.20	24.70	2.32	5.10	14.54	9.50	0.76	0.00	0.00	0.00	0.00	
4	0.07	0.08	21.40	2.02	4.06	14.31	10.00	0.64	0.00	0.00	0.00	0.00	
5	0.06	0.05	11.38	7.82	3.15	10.30	16.60	0.58	0.00	0.00	0.00	0.00	
6	0.06	0.04	5.95	5.78	2.44	65.20	19.90	0.46	0.00	0.00	0.00	0.00	
7	0.05	0.03	3.41	3.41	2.14	73.60	16.60	0.40	0.00	0.00	0.00	0.00	
8	0.04	0.03	2.20	2.76	2.32	59.60	13.30	0.36	0.00	0.00	0.00	0.00	
9	0.04	0.04	2.08	3.54	5.27	25.00	13.30	0.32	0.00	0.00	0.00	0.00	
10	0.03	1.58	5.27	2.50	5.78	18.82	10.00	0.28	0.00	0.00	0.00	0.00	
11	0.03	2.26	3.93	12.04	5.10	14.31	9.50	0.24	0.00	0.00	0.00	0.00	
12	0.03	1.82	2.63	6.80	3.02	10.94	39.70	0.24	0.00	0.00	0.00	0.00	
13	0.03	1.18	2.32	3.93	3.54	10.50	53.30	0.24	0.00	0.00	0.00	0.00	
14	0.02	0.75	2.76	3.28	4.97	20.50	10.00	0.20	0.00	0.00	0.00	0.00	
15	0.02	0.75	1.96	6.29	6.12	108.45	9.00	0.16	0.00	0.00	0.00	0.00	
16	0.02	2.02	10.10	15.54	4.32	142.72	8.00	0.16	0.00	0.00	0.00	0.00	
17	0.01	4.58	5.95	34.75	3.28	111.15	8.00	0.12	0.00	0.00	0.00	0.00	
18	0.01	22.30	2.89	31.95	2.44	52.95	7.00	0.08	0.00	0.00	0.00	0.00	
19	0.01	8.33	2.26	28.60	2.26	90.00	6.00	0.08	0.00	0.00	0.00	0.00	
20	0.05	5.95	2.50	12.70	3.02	146.36	5.00	0.04	0.00	0.00	0.00	0.00	
21	0.03	12.26	10.30	7.48	2.89	67.60	4.75	0.04	0.00	0.00	0.00	0.00	
22	0.02	6.97	11.38	4.71	13.39	61.20	4.25	0.00	0.00	0.00	0.00	0.00	
23	0.02	3.15	16.08	4.19	100.35	61.20	3.75	0.00	0.00	0.00	0.00	0.00	
24	0.01	2.02	20.80	7.14	107.10	58.80	3.25	0.00	0.00	0.00	0.00	0.00	
25	0.06	1.50	28.00	10.72	41.05	95.40	2.75	0.00	0.00	0.00	0.00	0.00	
26	0.06	1.18	8.33	4.97	28.90	2.05	2.35	0.00	0.00	0.00	0.00	0.00	
27	0.07	53.65	5.27	3.41	24.10	3.00	2.20	0.00	0.00	0.00	0.00	0.00	
28	0.05	26.80	4.58	2.50	15.81	6.50	1.90	0.00	0.00	0.00	0.00	0.00	
29	0.04	5.95	3.67	2.32	10.10	5.50	1.60	0.00	0.00	0.00		0.00	
30	0.01	3.15	4.32	2.14	74.00	7.00	1.45	0.00	0.00	0.00		0.00	
31		2.20		3.28	73.60		1.30		0.00	0.00		0.00	
Total	1.19	171.82	234.45	246.62	570.27	1405.69	310.75	7.22	0.00	0.00	0.00	0.00	2948.01 CMSDAY
Mean	0.04	5.54	7.82	7.96	18.40	46.86	10.02	0.24	0.00	0.00	0.00	0.00	8.08 CMS
Max	0.09	53.65	28.00	34.75	107.10	146.36	53.30	1.00	0.00	0.00	0.00	0.00	146.36 CMS
Min	0.01	0.03	1.74	2.02	2.14	2.05	1.30	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.103	14.845	20.256	21.308	49.271	121.452	26.849	0.624	0.000	0.000	0.000	0.000	254.708 MCM

Momentary Peak 181.70 CMS, at 5.94 M (A.D), at 10.00 Hours, on Sep 20, 1994

Runoff Yield 19.23 Liters/Second/Square KM, Momentary Peak Yield 432.62 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

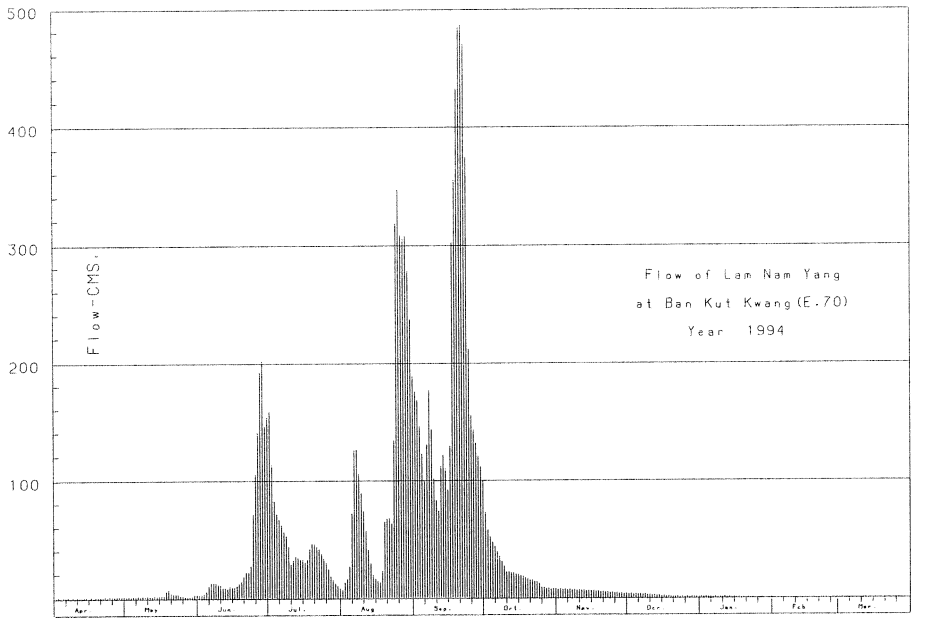
Lam Nam Yang at Ban Kut Kwang, Roi Et (E.70)

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	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+11.914 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 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 21 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	0.25	0.34	3.91	0.60	4.16	2.39	0.62	0.41	0.24	0.16	0.14	
2	0.21	0.25	0.37	3.15	0.86	4.06	2.10	0.62	0.41	0.24	0.16	0.20	
3	0.21	0.25	0.41	2.59	0.96	3.69	1.94	0.61	0.40	0.24	0.16	0.18	
4	0.21	0.26	0.54	2.36	1.32	3.30	1.84	0.61	0.40	0.24	0.16	0.18	
5	0.21	0.26	0.74	2.28	2.38	2.93	1.74	0.60	0.40	0.24	0.16	0.18	
6	0.21	0.26	0.82	2.18	3.35	3.44	1.64	0.60	0.39	0.23	0.15	0.17	
7	0.21	0.26	0.85	2.06	3.37	4.17	1.53	0.59	0.39	0.23	0.15	0.17	
8	0.21	0.26	0.82	1.96	3.02	3.65	1.43	0.59	0.39	0.23	0.15	0.17	
9	0.21	0.26	0.79	1.75	2.73	2.95	1.32	0.58	0.36	0.23	0.15	0.16	
10	0.21	0.27	0.75	1.37	2.41	2.59	1.18	0.58	0.35	0.23	0.15	0.16	
11	0.22	0.27	0.68	1.44	2.07	2.42	1.16	0.57	0.34	0.23	0.14	0.15	
12	0.22	0.27	0.66	1.54	1.68	3.13	1.15	0.56	0.33	0.23	0.14	0.15	
13	0.22	0.28	0.65	1.49	1.39	3.29	1.13	0.56	0.32	0.22	0.13	0.15	
14	0.22	0.28	0.71	1.47	1.08	3.09	1.11	0.55	0.31	0.22	0.13	0.15	
15	0.22	0.28	0.69	1.46	0.98	2.78	1.09	0.55	0.30	0.22	0.12	0.14	
16	0.22	0.28	0.67	1.40	0.89	3.41	1.07	0.55	0.29	0.22	0.12	0.14	
17	0.22	0.29	0.75	1.47	0.87	5.81	1.04	0.54	0.28	0.21	0.11	0.14	
18	0.22	0.54	0.81	1.68	1.19	6.44	1.02	0.53	0.27	0.21	0.11	0.14	
19	0.22	0.58	0.89	1.81	2.24	7.30	0.97	0.52	0.26	0.21	0.10	0.14	
20	0.22	0.44	1.02	1.79	2.28	7.84	0.94	0.51	0.25	0.20	0.10	0.14	
21	0.23	0.41	1.15	1.74	2.29	7.87	0.92	0.50	0.25	0.20	0.10	0.13	
22	0.23	0.41	1.16	1.69	2.21	7.69	0.90	0.49	0.24	0.20	0.10	0.13	
23	0.23	0.38	1.33	1.59	3.50	6.67	0.87	0.48	0.24	0.19	0.10	0.13	
24	0.23	0.32	2.36	1.48	6.01	4.68	0.84	0.47	0.24	0.19	0.10	0.13	
25	0.24	0.27	3.02	1.39	6.35	3.85	0.70	0.46	0.24	0.19	0.10	0.13	
26	0.24	0.24	3.60	1.26	5.89	3.64	0.67	0.45	0.24	0.18	0.10	0.13	
27	0.24	0.23	4.40	1.05	5.84	3.46	0.65	0.44	0.24	0.18	0.10	0.12	
28	0.24	0.22	4.53	0.93	5.88	3.27	0.64	0.43	0.24	0.18	0.14	0.12	
29	0.24	0.25	3.70	0.83	5.51	3.13	0.63	0.42	0.24	0.17		0.12	
30	0.24	0.35	3.82	0.73	5.00	2.91	0.62	0.41	0.24	0.17		0.12	
31		0.39		0.64	4.34		0.62		0.24	0.17		0.12	
Mean	0.22	0.31	1.43	1.69	2.85	4.25	1.16	0.53	0.31	0.21	0.13	0.15	
Max	0.24	0.58	4.53	3.91	6.35	7.87	2.39	0.62	0.41	0.24	0.16	0.20	7.87
Min	0.21	0.22	0.34	0.64	0.60	2.42	0.62	0.41	0.24	0.17	0.10	0.12	0.10

Annual Max Momentary Gage Height 7.88 M (A.D), at 13.00 Hours, on Sep 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.19 M (A.D)
Left Bank Elevation 8.29 M (A.D)
Right Bank Elevation 6.01 M (A.D), Drainage Area 3168 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.43	1.95	3.20	159.60	7.90	176.20	73.50	8.34	4.28	1.82	1.02	0.88	
2	1.43	1.95	3.65	114.00	14.16	169.20	59.00	8.34	4.28	1.82	1.02	1.30	
3	1.43	1.95	4.28	83.50	16.88	146.40	52.60	8.12	4.10	1.82	1.02	1.16	
4	1.43	2.08	6.70	72.00	27.80	123.00	48.60	8.12	4.10	1.82	1.02	1.16	
5	1.43	2.08	11.10	68.00	73.00	100.80	44.60	7.90	4.10	1.82	1.02	1.16	
6	1.43	2.08	13.12	63.00	126.00	131.40	40.60	7.90	3.95	1.69	0.95	1.09	
7	1.43	2.08	13.90	57.40	127.20	176.90	36.20	7.70	3.95	1.69	0.95	1.09	
8	1.43	2.08	13.12	53.40	106.20	144.00	32.20	7.70	3.95	1.69	0.95	1.09	
9	1.43	2.08	12.35	45.00	90.50	102.00	27.80	7.50	3.50	1.69	0.95	1.02	
10	1.43	2.21	11.35	29.80	74.50	83.50	23.40	7.50	3.35	1.69	0.95	1.02	
11	1.56	2.21	9.66	32.60	57.80	75.00	22.80	7.30	3.20	1.69	0.88	0.95	
12	1.56	2.21	9.22	36.60	42.20	112.80	22.50	7.10	3.05	1.69	0.88	0.95	
13	1.56	2.34	9.00	34.60	30.60	122.40	21.90	7.10	2.90	1.56	0.81	0.95	
14	1.56	2.34	10.35	33.80	20.40	110.40	21.30	6.90	2.75	1.56	0.81	0.95	
15	1.56	2.34	9.88	33.40	17.44	93.00	20.70	6.90	2.60	1.56	0.74	0.88	
16	1.56	2.34	9.44	31.00	14.94	129.60	20.10	6.90	2.47	1.56	0.74	0.88	
17	1.56	2.47	11.35	33.80	14.42	302.80	19.20	6.70	2.34	1.43	0.67	0.88	
18	1.56	6.70	12.86	42.20	23.70	355.40	18.60	6.50	2.21	1.43	0.67	0.88	
19	1.56	7.50	14.94	47.40	66.00	433.00	17.16	6.30	2.08	1.43	0.60	0.88	
20	1.56	4.82	18.60	46.60	68.00	484.30	16.32	6.10	1.95	1.30	0.60	0.88	
21	1.69	4.28	22.50	44.60	68.50	487.15	15.76	5.90	1.95	1.30	0.60	0.81	
22	1.69	4.28	22.80	42.60	64.50	470.05	15.20	5.72	1.82	1.30	0.60	0.81	
23	1.69	3.80	28.20	38.60	135.00	375.30	14.42	5.54	1.82	1.23	0.60	0.81	
24	1.69	2.90	72.00	34.20	318.85	212.60	13.64	5.36	1.82	1.23	0.60	0.81	
25	1.82	2.21	106.20	30.60	347.75	156.00	10.10	5.18	1.82	1.23	0.60	0.81	
26	1.82	1.82	141.00	25.80	309.20	143.40	9.44	5.00	1.82	1.16	0.60	0.81	
27	1.82	1.69	193.00	19.50	305.20	132.60	9.00	4.82	1.82	1.16	0.60	0.74	
28	1.82	1.56	202.10	16.04	308.40	121.20	8.78	4.64	1.82	1.16	0.88	0.74	
29	1.82	1.95	147.00	13.38	278.80	112.80	8.56	4.46	1.82	1.09		0.74	
30	1.82	3.35	154.20	10.85	238.00	99.60	8.34	4.28	1.82	1.09		0.74	
31		3.95		8.78	188.80		8.34		1.82	1.09		0.74	
Total	47.58	87.60	1297.07	1402.65	3582.64	5882.80	760.66	197.82	85.26	45.80	22.33	28.61	13440.82 CMSDAY
Mean	1.59	2.83	43.24	45.25	115.57	196.09	24.54	6.59	2.75	1.48	0.80	0.92	36.82 CMS
Max	1.82	7.50	202.10	159.60	347.75	487.15	73.50	8.34	4.28	1.82	1.02	1.30	487.15 CMS
Min	1.43	1.56	3.20	8.78	7.90	75.00	8.34	4.28	1.82	1.09	0.60	0.74	0.60 CMS
Runoff	4.111	7.569	112.067	121.189	309.540	508.274	65.721	17.092	7.366	3.957	1.929	2.472	1161.287 MCM

Momentary Peak 488.10 CMS, at 7.88 M (A.D), at 13.00 Hours, on Sep 21, 1994

Runoff Yield 11.62 Liters/Second/Square KM, Momentary Peak Yield 154.07 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

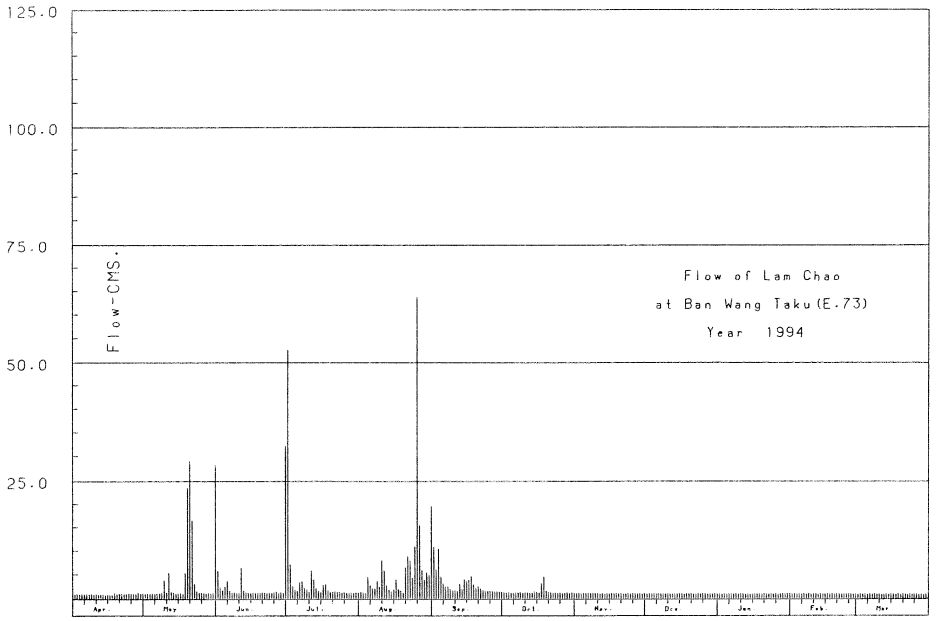
Lam Chao at Ban Wang Taku, Chaiyaphum (E.73)

Location	Lat. 15-57-02 N., Long. 101-26-46 E., on left bank at Ban Wang Taku, Tambon Ban Chiang, King Amphoe Phak Di Chumphon, Chaiyaphum.
Drainage Area	267 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank 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	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the weir downstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.36	2.37	3.15	5.93	2.51	3.78	2.47	2.43	2.39	2.38	2.38	2.36	
2	2.36	2.37	2.63	3.35	2.45	3.17	2.47	2.43	2.39	2.37	2.38	2.36	
3	2.37	2.37	2.56	2.68	2.43	3.75	2.46	2.42	2.39	2.37	2.37	2.36	
4	2.36	2.39	2.65	2.56	2.95	2.97	2.46	2.42	2.39	2.37	2.37	2.36	
5	2.35	2.39	2.84	2.54	2.71	2.76	2.46	2.42	2.39	2.37	2.37	2.36	
6	2.34	2.37	2.53	2.78	2.60	2.65	2.46	2.42	2.39	2.37	2.37	2.36	
7	2.35	2.41	2.47	2.83	2.61	2.67	2.48	2.42	2.38	2.37	2.37	2.36	
8	2.34	2.41	2.45	2.62	2.83	2.59	2.46	2.41	2.38	2.37	2.37	2.36	
9	2.33	2.86	2.43	2.58	2.64	2.55	2.46	2.41	2.38	2.37	2.37	2.36	
10	2.33	2.47	2.42	2.50	3.45	2.54	2.45	2.40	2.38	2.37	2.37	2.35	
11	2.33	3.07	3.23	3.15	3.15	2.53	2.45	2.40	2.38	2.37	2.37	2.35	
12	2.33	2.51	2.55	2.89	2.70	2.75	2.45	2.40	2.38	2.37	2.37	2.35	
13	2.33	2.44	2.47	2.62	2.57	2.59	2.45	2.40	2.38	2.37	2.37	2.35	
14	2.28	2.40	2.44	2.53	2.51	2.87	2.51	2.40	2.38	2.37	2.37	2.35	
15	2.28	2.39	2.44	2.51	2.58	2.83	2.48	2.40	2.38	2.37	2.37	2.35	
16	2.28	2.39	2.44	2.71	2.87	2.85	2.46	2.40	2.38	2.37	2.37	2.35	
17	2.28	2.39	2.43	2.74	2.59	2.98	2.75	2.40	2.38	2.37	2.37	2.35	
18	2.42	3.07	2.43	2.54	2.54	2.72	2.97	2.40	2.38	2.37	2.37	2.35	
19	2.37	4.69	2.43	2.50	2.46	2.62	2.54	2.40	2.38	2.37	2.37	2.35	
20	2.36	5.01	2.43	2.50	3.24	2.66	2.48	2.40	2.38	2.37	2.37	2.35	
21	2.36	4.23	2.43	2.52	3.56	2.60	2.45	2.39	2.38	2.37	2.37	2.35	
22	2.36	2.75	2.43	2.51	3.46	2.56	2.45	2.39	2.38	2.37	2.37	2.35	
23	2.35	2.52	2.43	2.50	2.93	2.51	2.44	2.39	2.38	2.37	2.37	2.35	
24	2.42	2.45	2.44	2.47	3.80	2.53	2.43	2.39	2.38	2.37	2.37	2.35	
25	2.36	2.42	2.46	2.46	6.23	2.53	2.43	2.39	2.38	2.38	2.36	2.34	
26	2.36	2.41	2.51	2.45	4.15	2.53	2.43	2.39	2.38	2.38	2.36	2.34	
27	2.36	2.41	2.45	2.45	3.16	2.52	2.43	2.39	2.38	2.38	2.36	2.33	
28	2.44	2.40	2.44	2.44	2.85	2.51	2.43	2.39	2.38	2.38	2.36	2.33	
29	2.39	2.40	2.45	2.44	3.08	2.52	2.43	2.39	2.38	2.38		2.33	
30	2.37	2.40	5.17	2.43	3.01	2.49	2.43	2.39	2.38	2.38		2.33	
31		4.97		2.43	4.45		2.43		2.38	2.38		2.34	
Mean	2.35	2.78	2.62	2.71	3.07	2.74	2.48	2.40	2.38	2.37	2.37	2.35	
Max	2.44	5.01	5.17	5.93	6.23	3.78	2.97	2.43	2.39	2.38	2.38	2.36	6.23
Min	2.28	2.37	2.42	2.43	2.43	2.49	2.43	2.39	2.38	2.37	2.36	2.33	2.28

Annual Max Momentary Gage Height 7.30 M (A.D), at 6.00 Hours, on Jul 1, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.72 M (A.D)
Left Bank Elevation 7.60 M (A.D)
Right Bank Elevation 7.39 M (A.D), Drainage Area 267 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.08	1.11	6.05	52.82	1.57	11.02	1.41	1.29	1.17	1.14	1.14	1.08	
2	1.08	1.11	2.41	7.45	1.35	6.19	1.41	1.29	1.17	1.11	1.14	1.08	
3	1.11	1.11	1.92	2.76	1.29	10.75	1.38	1.26	1.17	1.11	1.11	1.08	
4	1.08	1.17	2.55	1.92	4.65	4.79	1.38	1.26	1.17	1.11	1.11	1.08	
5	1.05	1.17	3.88	1.78	2.97	3.32	1.38	1.26	1.17	1.11	1.11	1.08	
6	1.02	1.11	1.71	3.46	2.20	2.55	1.38	1.26	1.17	1.11	1.11	1.08	
7	1.05	1.23	1.41	3.81	2.27	2.69	1.44	1.26	1.14	1.11	1.11	1.08	
8	1.02	1.23	1.35	2.34	3.81	2.13	1.38	1.23	1.14	1.11	1.11	1.08	
9	0.99	4.02	1.29	2.06	2.48	1.85	1.38	1.23	1.14	1.11	1.11	1.08	
10	0.99	1.41	1.26	1.50	8.15	1.78	1.35	1.20	1.14	1.11	1.11	1.05	
11	0.99	5.49	6.61	6.05	6.05	1.71	1.35	1.20	1.14	1.11	1.11	1.05	
12	0.99	1.57	1.85	4.23	2.90	3.25	1.35	1.20	1.14	1.11	1.11	1.05	
13	0.99	1.32	1.41	2.34	1.99	2.13	1.35	1.20	1.14	1.11	1.11	1.05	
14	0.84	1.20	1.32	1.71	1.57	4.09	1.57	1.20	1.14	1.11	1.11	1.05	
15	0.84	1.17	1.32	1.57	2.06	3.81	1.44	1.20	1.14	1.11	1.11	1.05	
16	0.84	1.17	1.32	2.97	4.09	3.95	1.38	1.20	1.14	1.11	1.11	1.05	
17	0.84	1.17	1.29	3.18	2.13	4.86	3.25	1.20	1.14	1.11	1.11	1.05	
18	1.26	5.49	1.29	1.78	1.78	3.04	4.79	1.20	1.14	1.11	1.11	1.05	
19	1.11	23.63	1.29	1.50	1.38	2.34	1.78	1.20	1.14	1.11	1.11	1.05	
20	1.08	29.20	1.29	1.50	6.68	2.62	1.44	1.20	1.14	1.11	1.11	1.05	
21	1.08	16.79	1.29	1.64	9.04	2.20	1.35	1.17	1.14	1.11	1.11	1.05	
22	1.08	3.25	1.29	1.57	8.22	1.92	1.35	1.17	1.14	1.11	1.11	1.05	
23	1.05	1.64	1.29	1.50	4.51	1.57	1.32	1.17	1.14	1.11	1.11	1.05	
24	1.26	1.35	1.32	1.41	11.20	1.71	1.29	1.17	1.14	1.11	1.11	1.05	
25	1.08	1.26	1.38	1.38	63.94	1.71	1.29	1.17	1.14	1.14	1.08	1.02	
26	1.08	1.23	1.57	1.35	15.75	1.71	1.29	1.17	1.14	1.14	1.08	1.02	
27	1.08	1.23	1.35	1.35	6.12	1.64	1.29	1.17	1.14	1.14	1.08	0.99	
28	1.32	1.20	1.32	1.32	3.95	1.57	1.29	1.17	1.14	1.14	1.08	0.99	
29	1.17	1.20	1.35	1.32	5.56	1.64	1.29	1.17	1.14	1.14		0.99	
30	1.11	1.20	32.54	1.29	5.07	1.47	1.29	1.17	1.14	1.14		0.99	
31		28.46		1.29	19.70		1.29		1.14	1.14		1.02	
Total	31.56	144.89	87.52	122.15	214.43	96.01	47.93	36.24	35.52	34.65	31.02	32.49	914.41 CMSDAY
Mean	1.05	4.67	2.92	3.94	6.92	3.20	1.55	1.21	1.15	1.12	1.11	1.05	2.51 CMS
Max	1.32	29.20	32.54	52.82	63.94	11.02	4.79	1.29	1.17	1.14	1.14	1.08	63.94 CMS
Min	0.84	1.11	1.26	1.29	1.29	1.47	1.29	1.17	1.14	1.11	1.08	0.99	0.84 CMS
Runoff	2.727	12.518	7.562	10.554	18.527	8.295	4.141	3.131	3.069	2.994	2.680	2.807	79.005 MCM

Momentary Peak 119.20 CMS, at 7.30 M (A.D), at 6.00 Hours, on Jul 1, 1994

Runoff Yield 9.38 Liters/Second/Square KM, Momentary Peak Yield 446.44 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

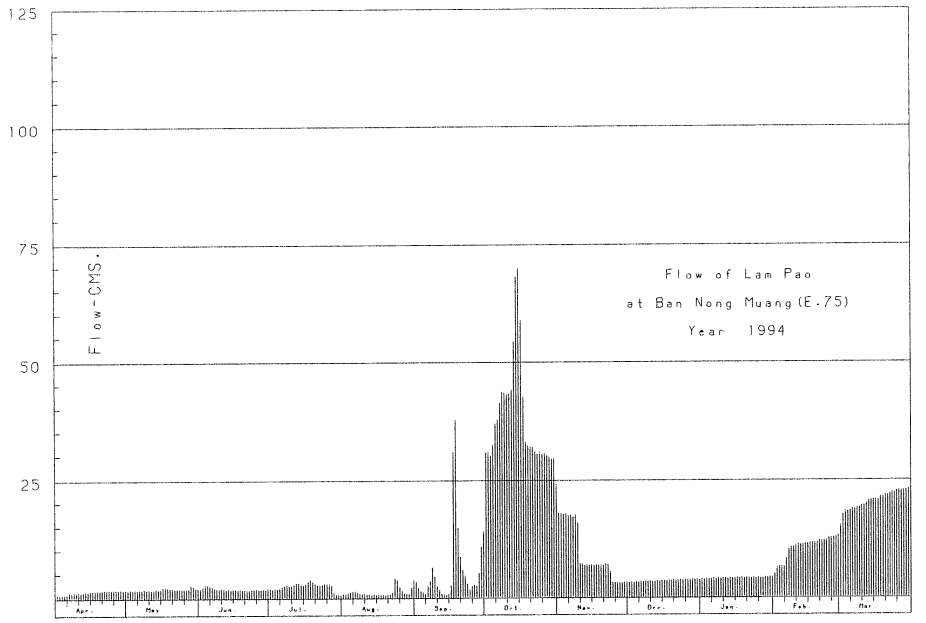
Lam Pao at Ban Nong Muang, Kalasin (E.75)

Location	Lat. 16°-34'-36" N., Long. 103°-26'-32" E., on left bank about 3 kilometers downstream from Lam Pao Damsite, Tambon Lam Pao, Amphoe Muang, Kalasin.
Drainage Area	6,054 sq.km.
Type of Gage	Water-stage recorder.
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	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	No overbank flow.
General Description	Records fair. Flow regulated by Lam Pao Dam. Stage-discharge relation defined by 102 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	138.97	139.13	139.17	139.17	138.99	139.36	140.03	139.63	138.97	139.10	139.27	139.96	
2	138.96	139.14	139.23	139.17	139.01	139.19	140.03	139.62	138.97	139.11	139.38	140.09	
3	138.96	139.14	139.30	139.18	139.03	139.11	140.01	139.62	138.97	139.11	139.41	140.12	
4	138.96	139.14	139.30	139.18	139.07	139.06	140.07	139.62	138.98	139.11	139.41	140.12	
5	139.00	139.14	139.26	139.19	139.09	139.00	140.19	139.61	138.99	139.11	139.41	140.13	
6	139.05	139.14	139.22	139.22	139.10	139.26	140.21	139.61	138.99	139.12	139.53	140.14	
7	139.05	139.14	139.19	139.27	139.06	139.36	140.30	139.60	139.00	139.12	139.67	140.14	
8	139.06	139.15	139.18	139.27	139.00	139.61	140.35	139.61	139.00	139.13	139.69	140.15	
9	139.07	139.14	139.17	139.26	139.03	139.46	140.35	139.55	139.01	139.13	139.70	140.16	
10	139.07	139.14	139.17	139.25	139.00	139.25	140.34	139.19	139.01	139.14	139.71	140.17	
11	139.07	139.14	139.17	139.29	138.99	139.13	140.34	139.18	139.02	139.14	139.73	140.18	
12	139.08	139.14	139.16	139.34	138.96	139.01	140.36	139.17	139.02	139.14	139.73	140.20	
13	139.08	139.15	139.16	139.33	138.96	138.96	140.59	139.17	139.02	139.14	139.73	140.22	
14	139.10	139.15	139.16	139.29	138.95	138.93	140.86	139.17	139.03	139.15	139.74	140.23	
15	139.10	139.16	139.16	139.29	138.95	139.00	140.89	139.17	139.03	139.15	139.74	140.23	
16	139.10	139.20	139.15	139.31	138.95	139.28	140.68	139.17	139.04	139.15	139.74	140.23	
17	139.11	139.22	139.15	139.37	138.95	140.03	140.33	139.17	139.04	139.16	139.75	140.23	
18	139.12	139.19	139.15	139.40	138.95	140.21	140.09	139.17	139.04	139.16	139.75	140.26	
19	139.13	139.19	139.15	139.36	138.95	139.88	140.07	139.17	139.05	139.15	139.76	140.26	
20	139.14	139.18	139.14	139.31	138.95	139.71	140.06	139.17	139.06	139.15	139.77	140.27	
21	139.13	139.17	139.13	139.27	138.96	139.58	140.06	139.18	139.06	139.15	139.77	140.27	
22	139.13	139.17	139.13	139.28	139.06	139.48	140.03	139.18	139.06	139.15	139.78	140.29	
23	139.14	139.16	139.13	139.30	139.43	139.32	140.02	139.09	139.07	139.15	139.78	140.30	
24	139.14	139.16	139.16	139.32	139.39	139.14	140.03	138.96	139.07	139.15	139.81	140.30	
25	139.14	139.16	139.16	139.32	139.24	139.26	140.02	138.95	139.07	139.16	139.81	140.32	
26	139.14	139.15	139.16	139.31	139.10	139.27	140.02	138.95	139.08	139.16	139.82	140.32	
27	139.14	139.18	139.15	139.28	139.02	139.26	140.01	138.95	139.08	139.16	139.83	140.32	
28	139.14	139.28	139.15	139.04	138.97	139.53	140.00	138.95	139.08	139.17	139.84	140.32	
29	139.14	139.23	139.15	138.97	139.00	139.78	139.99	138.96	139.09	139.17		140.33	
30	139.13	139.19	139.17	138.94	139.22	139.86	139.99	138.96	139.09	139.17		140.33	
31		139.17		138.96	139.39		139.83		139.09	139.17		140.33	
Mean	139.08	139.17	139.17	139.24	139.06	139.38	140.20	139.25	139.03	139.14	139.68	140.22	
Max	139.14	139.28	139.30	139.40	139.43	140.21	140.89	139.63	139.09	139.17	139.84	140.33	140.89
Min	138.96	139.13	139.13	138.94	138.95	138.93	139.83	138.95	138.97	139.10	139.27	139.96	138.93

Annual Max Momentary Gage Height 140.89 M (MSL), at 12.00 Hours, on Oct 14, 1994
Zero Gage at Bottom Elevation 138.02 M (MSL), River Bed 137.62 M (MSL)
Left Bank Elevation 149.45 M (MSL)
Right Bank Elevation 148.20 M (MSL), Drainage Area 6054 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.91	1.81	2.09	2.09	0.97	3.60	31.05	18.24	3.35	4.00	5.20	15.44	
2	0.88	1.88	2.51	2.09	1.06	2.23	31.05	17.96	3.35	4.05	6.38	17.82	
3	0.88	1.88	3.00	2.16	1.18	1.67	30.35	17.96	3.35	4.05	6.73	18.44	
4	0.88	1.88	3.00	2.16	1.42	1.36	32.45	17.96	3.40	4.05	6.73	18.44	
5	1.00	1.88	2.72	2.23	1.54	1.00	37.10	17.68	3.45	4.05	6.73	18.66	
6	1.30	1.88	2.44	2.44	1.60	2.72	37.90	17.68	3.45	4.10	8.32	18.88	
7	1.30	1.88	2.23	2.79	1.36	3.60	41.50	17.40	3.50	4.10	10.42	18.88	
8	1.36	1.95	2.16	2.79	1.00	6.70	43.75	17.68	3.50	4.15	10.74	19.10	
9	1.42	1.88	2.09	2.72	1.18	4.60	43.75	16.05	3.55	4.15	10.90	19.32	
10	1.42	1.88	2.09	2.65	1.00	2.65	43.30	7.41	3.55	4.20	11.07	19.54	
11	1.42	1.88	2.09	2.93	0.97	1.81	43.30	7.22	3.60	4.20	11.41	19.76	
12	1.48	1.88	2.02	3.40	0.88	1.06	44.20	7.03	3.60	4.20	11.41	20.20	
13	1.48	1.95	2.02	3.30	0.88	0.88	54.55	7.03	3.60	4.20	11.41	20.64	
14	1.60	1.95	2.02	2.93	0.85	0.79	68.30	7.03	3.65	4.25	11.58	20.86	
15	1.60	2.02	2.02	2.93	0.85	1.00	69.95	7.03	3.65	4.25	11.58	20.86	
16	1.60	2.30	1.95	3.10	0.85	2.86	59.00	7.03	3.70	4.25	11.58	20.86	
17	1.67	2.44	1.95	3.70	0.85	31.05	42.85	7.03	3.70	4.30	11.75	20.86	
18	1.74	2.23	1.95	4.00	0.85	37.90	33.15	7.03	3.70	4.30	11.75	21.52	
19	1.81	2.23	1.95	3.60	0.85	15.10	32.45	7.03	3.75	4.25	11.92	21.52	
20	1.88	2.16	1.88	3.10	0.85	8.80	32.10	7.03	3.80	4.25	12.09	21.74	
21	1.81	2.09	1.81	2.79	0.88	6.20	32.10	7.22	3.80	4.25	12.09	21.74	
22	1.81	2.09	1.81	2.86	1.36	4.80	31.05	7.22	3.80	4.25	12.26	22.18	
23	1.88	2.02	1.81	3.00	4.30	3.20	30.70	5.53	3.85	4.25	12.26	22.40	
24	1.88	2.02	2.02	3.20	3.90	1.88	31.05	3.40	3.85	4.25	12.77	22.40	
25	1.88	2.02	2.02	3.20	2.58	2.72	30.70	3.25	3.85	4.30	12.77	22.84	
26	1.88	1.95	2.02	3.10	1.60	2.79	30.70	3.25	3.90	4.30	12.94	22.84	
27	1.88	2.16	1.95	2.86	1.12	2.72	30.35	3.25	3.90	4.30	13.11	22.84	
28	1.88	2.86	1.95	1.24	0.91	5.45	30.00	3.25	3.90	4.35	13.28	22.84	
29	1.88	2.51	1.95	0.91	1.00	10.90	29.65	3.30	3.95	4.35		23.06	
30	1.81	2.23	2.09	0.82	2.44	14.20	29.65	3.30	3.95	4.35		23.06	
31		2.09		0.88	3.90		24.19		3.95	4.35		23.06	
Total	46.22	63.88	63.61	81.97	44.98	186.24	1182.19	279.48	113.90	130.65	301.18	642.60	3136.90 CMSDAY
Mean	1.54	2.06	2.12	2.64	1.45	6.21	38.14	9.32	3.67	4.21	10.76	20.73	8.59 CMS
Max	1.88	2.86	3.00	4.00	4.30	37.90	69.95	18.24	3.95	4.35	13.28	23.06	69.95 CMS
Min	0.88	1.81	1.81	0.82	0.85	0.79	24.19	3.25	3.35	4.00	5.20	15.44	0.79 CMS
Runoff	3.993	5.519	5.496	7.082	3.886	16.091	102.141	24.147	9.841	11.288	26.022	55.521	271.028 MCM

Momentary Peak 69.95 CMS, at 140.89 M (MSL), at 12.00 Hours, on Oct 14, 1994

Runoff Yield 1.42 Liters/Second/Square KM, Momentary Peak Yield 11.55 Liters/Second/Square KM

WATER YEAR 1994

CHI RIVER BASIN

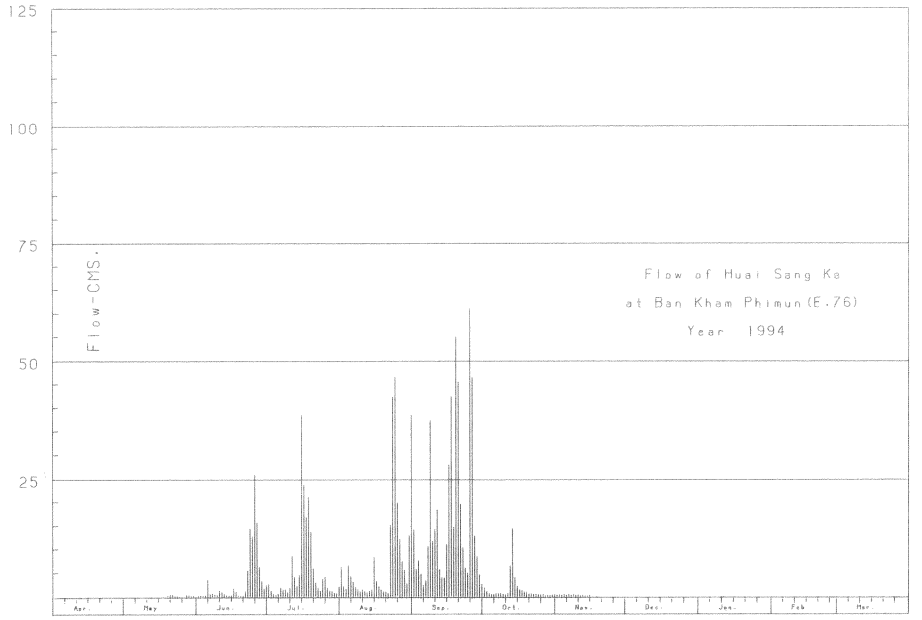
Huai Sang Ka at Ban Kham Phimun, Kalasin (E.76)

Location	Lat. 16°-55'-16" N., Long. 103°-35'-30" E., on left bank at the bridge on road near Ban Kham Phimun, Tambon Thung Khlong, Amphoe Kham Muang, Kalasin.
Drainage Area	163 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+8.404 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.92 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 86 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.15	0.65	1.12	1.92	0.54	0.25	0.07	0.04	0.01	0.00	
2	0.00	0.00	0.22	0.44	0.59	1.08	0.42	0.25	0.07	0.04	0.01	0.00	
3	0.00	0.00	0.18	0.28	0.51	1.29	0.31	0.25	0.06	0.04	0.01	0.00	
4	0.00	0.00	0.22	0.24	1.17	0.96	0.28	0.25	0.06	0.03	0.01	0.00	
5	0.00	0.00	0.80	0.30	0.89	0.62	0.28	0.25	0.05	0.02	0.01	0.00	
6	0.00	0.00	0.29	0.55	0.73	0.78	0.30	0.26	0.04	0.02	0.01	0.00	
7	0.00	0.00	0.30	0.46	0.58	1.59	0.32	0.25	0.08	0.03	0.00	0.00	
8	0.00	0.00	0.26	0.49	0.47	2.98	0.31	0.25	0.06	0.03	0.00	0.00	
9	0.00	0.00	0.21	0.35	0.41	1.70	0.29	0.24	0.06	0.05	0.00	0.00	
10	0.00	0.00	0.42	0.54	0.46	1.92	0.27	0.23	0.05	0.16	0.00	0.00	
11	0.00	0.00	0.39	1.40	0.42	2.27	0.31	0.21	0.05	0.12	0.00	0.00	
12	0.00	0.00	0.27	0.86	0.34	1.08	1.16	0.22	0.06	0.08	0.00	0.00	
13	0.00	0.00	0.22	0.61	0.44	0.84	1.94	0.20	0.05	0.05	0.00	0.00	
14	0.00	0.00	0.18	0.91	0.46	0.85	0.86	0.20	0.05	0.04	0.00	0.00	
15	0.00	0.00	0.24	3.04	1.35	1.64	0.60	0.24	0.04	0.03	0.00	0.00	
16	0.00	0.00	0.51	2.67	0.76	2.78	0.49	0.14	0.04	0.02	0.00	0.00	
17	0.00	0.11	0.41	2.14	0.60	3.85	0.43	0.13	0.05	0.02	0.00	0.00	
18	0.00	0.22	0.22	2.48	0.46	1.96	0.40	0.14	0.04	0.02	0.00	0.00	
19	0.00	0.20	0.18	1.86	0.40	4.67	0.37	0.13	0.03	0.03	0.00	0.00	
20	0.00	0.24	0.22	1.10	0.38	4.13	0.32	0.14	0.03	0.03	0.00	0.00	
21	0.00	0.26	0.41	0.72	0.34	2.37	0.30	0.11	0.04	0.02	0.00	0.00	
22	0.00	0.19	1.03	0.53	2.00	1.56	0.30	0.09	0.05	0.01	0.00	0.00	
23	0.00	0.18	1.94	0.44	3.83	1.12	0.28	0.07	0.04	0.06	0.00	0.00	
24	0.00	0.12	1.78	0.81	4.20	0.97	0.28	0.07	0.03	0.04	0.00	0.00	
25	0.00	0.09	2.74	0.89	2.39	4.95	0.27	0.07	0.00	0.03	0.00	0.00	
26	0.00	0.08	2.04	0.53	1.73	4.19	0.26	0.06	0.02	0.03	0.00	0.00	
27	0.00	0.24	1.14	0.45	1.27	1.80	0.22	0.05	0.00	0.02	0.00	0.00	
28	0.00	0.21	0.76	0.39	1.05	1.37	0.22	0.05	0.06	0.01	0.00	0.00	
29	0.00	0.20	0.52	0.35	0.69	0.94	0.22	0.06	0.04	0.01		0.00	
30	0.00	0.16	0.62	0.29	1.80	0.65	0.23	0.07	0.03	0.01		0.00	
31		0.12		0.59	3.03		0.25		0.03	0.01		0.00	
Mean	0.00	0.08	0.63	0.88	1.12	1.96	0.42	0.16	0.04	0.04	0.00	0.00	
Max	0.00	0.26	2.74	3.04	4.20	4.95	1.94	0.26	0.08	0.16	0.01	0.00	4.95
Min	0.00	0.00	0.15	0.24	0.34	0.62	0.22	0.05	0.00	0.01	0.00	0.00	0.00

Annual Max Momentary Gage Height 6.84 M (A.D), at 23.00 Hours, on Sep 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.00 M (A.D)
Left Bank Elevation 5.22 M (A.D)
Right Bank Elevation 4.91 M (A.D), Drainage Area 163 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.35	2.85	6.48	14.54	2.14	0.70	0.14	0.08	0.02	0.00	
2	0.00	0.00	0.58	1.60	2.44	6.14	1.50	0.70	0.14	0.08	0.02	0.00	
3	0.00	0.00	0.44	0.82	1.96	8.01	0.95	0.70	0.12	0.08	0.02	0.00	
4	0.00	0.00	0.58	0.66	6.93	5.18	0.82	0.70	0.12	0.06	0.02	0.00	
5	0.00	0.00	3.90	0.90	4.62	2.64	0.82	0.70	0.10	0.04	0.02	0.00	
6	0.00	0.00	0.86	2.20	3.41	3.76	0.90	0.74	0.08	0.04	0.02	0.00	
7	0.00	0.00	0.90	1.70	2.38	10.90	1.00	0.70	0.16	0.06	0.00	0.00	
8	0.00	0.00	0.74	1.85	1.75	37.55	0.95	0.70	0.12	0.06	0.00	0.00	
9	0.00	0.00	0.54	1.15	1.45	12.10	0.86	0.66	0.12	0.10	0.00	0.00	
10	0.00	0.00	1.50	2.14	1.70	14.54	0.78	0.62	0.10	0.38	0.00	0.00	
11	0.00	0.00	1.35	9.00	1.50	18.74	0.95	0.54	0.10	0.26	0.00	0.00	
12	0.00	0.00	0.78	4.38	1.10	6.14	6.84	0.58	0.12	0.16	0.00	0.00	
13	0.00	0.00	0.58	2.57	1.60	4.22	14.78	0.50	0.10	0.10	0.00	0.00	
14	0.00	0.00	0.44	4.78	1.70	4.30	4.38	0.50	0.10	0.08	0.00	0.00	
15	0.00	0.00	0.66	38.70	8.55	11.44	2.50	0.66	0.08	0.06	0.00	0.00	
16	0.00	0.00	1.96	23.91	3.62	28.09	1.85	0.32	0.08	0.04	0.00	0.00	
17	0.00	0.23	1.45	17.18	2.50	42.75	1.55	0.29	0.10	0.04	0.00	0.00	
18	0.00	0.58	0.58	21.44	1.70	15.02	1.40	0.32	0.08	0.04	0.00	0.00	
19	0.00	0.50	0.44	13.86	1.40	55.40	1.25	0.29	0.06	0.06	0.00	0.00	
20	0.00	0.66	0.58	6.30	1.30	45.71	1.00	0.32	0.06	0.06	0.00	0.00	
21	0.00	0.74	1.45	3.34	1.10	20.01	0.90	0.23	0.08	0.04	0.00	0.00	
22	0.00	0.47	5.74	2.08	15.50	10.60	0.90	0.18	0.10	0.02	0.00	0.00	
23	0.00	0.44	14.78	1.60	42.65	6.48	0.82	0.14	0.08	0.12	0.00	0.00	
24	0.00	0.26	12.98	3.98	46.90	5.26	0.82	0.14	0.06	0.08	0.00	0.00	
25	0.00	0.18	26.19	4.62	20.27	61.25	0.78	0.14	0.00	0.06	0.00	0.00	
26	0.00	0.16	15.98	2.08	12.43	46.73	0.74	0.12	0.04	0.06	0.00	0.00	
27	0.00	0.66	6.66	1.65	7.83	13.20	0.58	0.10	0.00	0.04	0.00	0.00	
28	0.00	0.54	3.62	1.35	5.90	8.73	0.58	0.10	0.12	0.02	0.00	0.00	
29	0.00	0.50	2.02	1.15	3.13	5.02	0.58	0.12	0.08	0.02		0.00	
30	0.00	0.38	2.64	0.86	13.20	2.85	0.62	0.14	0.06	0.02		0.00	
31		0.26		2.44	38.65		0.70		0.06	0.02		0.00	
Total	0.00	6.56	111.27	183.14	265.65	527.30	55.24	12.65	2.76	2.38	0.12	0.00	1167.07 CMSDAY
Mean	0.00	0.21	3.71	5.91	8.57	17.58	1.78	0.42	0.09	0.08	0.00	0.00	3.20 CMS
Max	0.00	0.74	26.19	38.70	46.90	61.25	14.78	0.74	0.16	0.38	0.02	0.00	61.25 CMS
Min	0.00	0.00	0.35	0.66	1.10	2.64	0.58	0.10	0.00	0.02	0.00	0.00	0.00 CMS
Runoff	0.000	0.567	9.614	15.823	22.952	45.559	4.773	1.093	0.238	0.206	0.010	0.000	100.835 MCM

Momentary Peak 378.60 CMS, at 6.84 M (A.D), at 23.00 Hours, on Sep 25, 1994

Runoff Yield 19.62 Liters/Second/Square KM, Momentary Peak Yield 2322.70 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

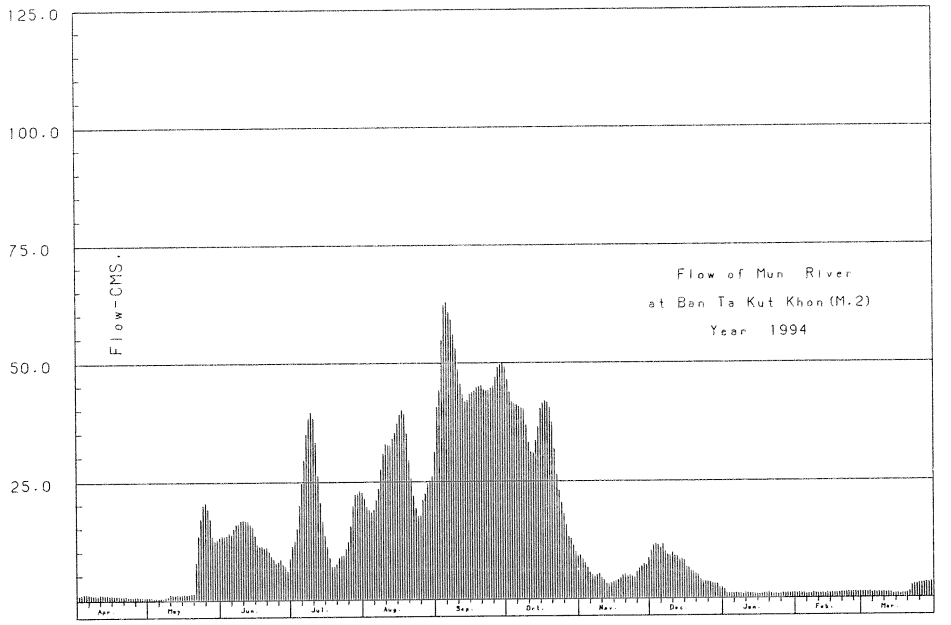
Mun River at Ban Ta Kut Khon, Nakhon Ratchasima (M.2)

Location	Lat. 15-00-03 N., Long. 105-15-57 E., on right bank at about 100 meters west of Ban Tha Chang School, and about 30 meters south of pumping railway station, Amphoe Chakkarat, Nakhon Ratchasima.
Drainage Area	4,800 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+157.85 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+165.802 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1950 to date.
Rating Operation	
Period of Rating	1960, 1969-1971, 1982 to date.
Rated by Float	-
Rated by Current Meter	1960, 1969-1971, 1982 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.52	159.35	160.78	160.63	161.18	162.11	162.80	160.49	160.56	159.73	159.49	159.58	
2	159.53	159.32	160.77	160.72	161.09	162.55	162.51	160.43	160.63	159.49	159.50	159.58	
3	159.62	159.31	160.78	160.86	161.06	163.32	162.27	160.36	160.66	159.49	159.49	159.57	
4	159.60	159.30	160.81	161.11	161.03	163.65	162.20	160.28	160.64	159.49	159.47	159.56	
5	159.59	159.30	160.80	161.34	161.06	163.68	162.18	160.19	160.61	159.49	159.45	159.55	
6	159.57	159.30	160.86	161.56	161.16	163.59	162.12	160.13	160.66	159.51	159.44	159.54	
7	159.54	159.31	160.91	161.80	161.28	163.52	162.09	160.10	160.54	159.50	159.48	159.54	
8	159.50	159.37	160.91	161.94	161.47	163.37	162.03	160.13	160.50	159.48	159.52	159.53	
9	159.51	159.44	160.95	161.99	161.62	163.23	161.88	160.16	160.48	159.48	159.51	159.53	
10	159.57	159.58	160.95	161.94	161.71	162.97	161.72	160.07	160.53	159.52	159.48	159.53	
11	159.56	159.55	160.95	161.72	161.70	162.71	161.63	160.01	160.48	159.49	159.47	159.53	
12	159.54	159.53	160.94	161.41	161.69	162.45	161.62	159.93	160.48	159.49	159.47	159.53	
13	159.52	159.57	160.91	161.14	161.76	162.27	161.74	159.90	160.41	159.48	159.48	159.50	
14	159.50	159.55	160.88	160.94	161.81	162.31	161.86	159.94	160.43	159.48	159.49	159.45	
15	159.49	159.55	160.78	160.78	161.89	162.48	162.06	159.97	160.40	159.44	159.50	159.42	
16	159.47	159.56	160.67	160.63	161.97	162.51	162.22	159.99	160.28	159.40	159.50	159.42	
17	159.47	159.58	160.64	160.47	162.01	162.56	162.30	160.02	160.27	159.48	159.50	159.43	
18	159.47	159.57	160.64	160.31	161.97	162.62	162.24	160.05	160.21	159.49	159.51	159.45	
19	159.46	159.63	160.62	160.32	161.81	162.66	162.10	160.12	160.19	159.51	159.53	159.46	
20	159.45	159.61	160.62	160.36	161.56	162.67	161.90	160.14	160.15	159.52	159.53	159.48	
21	159.44	160.39	160.56	160.46	161.38	162.58	161.66	160.10	160.12	159.48	159.55	159.59	
22	159.41	160.78	160.50	160.50	161.21	162.56	161.42	160.13	160.02	159.45	159.58	159.84	
23	159.40	160.97	160.44	160.50	161.08	162.55	161.25	160.09	159.96	159.45	159.58	159.87	
24	159.39	161.11	160.38	160.61	160.99	162.61	161.13	160.08	159.97	159.44	159.58	159.89	
25	159.39	161.14	160.40	160.70	161.00	162.66	161.01	160.19	159.96	159.45	159.58	159.90	
26	159.39	161.07	160.44	160.89	161.16	162.83	160.89	160.25	159.95	159.50	159.58	159.91	
27	159.38	160.97	160.36	161.10	161.23	163.01	160.76	160.30	159.92	159.49	159.58	159.92	
28	159.38	160.77	160.32	161.22	161.33	163.04	160.73	160.35	159.90	159.49	159.58	159.92	
29	159.36	160.72	160.24	161.23	161.36	163.07	160.64	160.32	159.91	159.51		159.93	
30	159.36	160.73	160.45	161.25	161.40	163.01	160.54	160.44	159.79	159.51		159.94	
31		160.76		161.24	161.63		160.48		159.79	159.49		159.93	
Mean	159.48	159.96	160.68	161.02	161.44	162.84	161.68	160.16	160.27	159.49	159.52	159.64	
Max	159.62	161.14	160.95	161.99	162.01	163.68	162.80	160.49	160.66	159.73	159.58	159.94	163.68
Min	159.36	159.30	160.24	160.31	160.99	162.11	160.48	159.90	159.79	159.40	159.44	159.42	159.30

Annual Max Momentary Gage Height 163.71 M (MSL), at 16.00 Hours, on Sep 5, 1994
Zero Gage at Bottom Elevation 157.85 M (MSL), River Bed 158.75 M (MSL)
Left Bank Elevation 168.47 M (MSL)
Right Bank Elevation 168.77 M (MSL), Drainage Area 4800 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.1	0.6	13.6	11.2	21.4	40.7	46.5	9.2	10.1	1.9	1.0	1.2	
2	1.1	0.5	13.4	12.5	19.6	44.2	43.8	8.4	11.2	1.0	1.0	1.2	
3	1.4	0.4	13.6	15.0	19.0	54.9	41.8	7.5	11.6	1.0	1.0	1.2	
4	1.3	0.4	14.1	20.0	18.4	62.2	41.3	6.6	11.3	1.0	0.9	1.2	
5	1.3	0.4	13.9	24.7	19.0	62.9	41.2	5.6	10.8	1.0	0.8	1.1	
6	1.2	0.4	15.0	29.5	21.0	60.8	40.7	5.0	11.6	1.0	0.8	1.1	
7	1.1	0.4	16.0	35.0	23.5	59.2	40.5	4.7	9.9	1.0	0.9	1.1	
8	1.0	0.6	16.0	38.4	27.5	56.0	40.2	5.0	9.3	0.9	1.1	1.1	
9	1.0	0.8	16.8	39.7	30.9	53.1	36.9	5.3	9.0	0.9	1.0	1.1	
10	1.2	1.2	16.8	38.4	32.9	48.6	33.2	4.4	9.7	1.1	0.9	1.1	
11	1.2	1.1	16.8	33.2	32.7	45.6	31.1	3.9	9.0	1.0	0.9	1.1	
12	1.1	1.1	16.6	26.2	32.5	43.3	30.9	3.2	9.0	1.0	0.9	1.1	
13	1.1	1.2	16.0	20.6	34.1	41.8	33.6	3.0	8.1	0.9	0.9	1.0	
14	1.0	1.1	15.4	16.6	35.2	42.1	36.4	3.3	8.4	0.9	1.0	0.8	
15	1.0	1.1	13.6	13.6	37.2	43.5	40.4	3.6	8.0	0.8	1.0	0.8	
16	0.9	1.2	11.7	11.2	39.2	43.8	41.4	3.7	6.6	0.7	1.0	0.8	
17	0.9	1.2	11.3	8.9	40.1	44.2	42.0	4.0	6.5	0.9	1.0	0.8	
18	0.9	1.2	11.3	6.9	39.2	44.8	41.6	4.3	5.8	1.0	1.0	0.8	
19	0.9	1.4	11.0	7.0	35.2	45.1	40.6	4.9	5.6	1.0	1.1	0.9	
20	0.8	1.3	11.0	7.5	29.5	45.2	37.4	5.1	5.2	1.1	1.1	0.9	
21	0.8	7.9	10.1	8.8	25.6	44.4	31.8	4.7	4.9	0.9	1.1	1.3	
22	0.7	13.6	9.3	9.3	22.0	44.2	26.4	5.0	4.0	0.8	1.2	2.6	
23	0.7	17.2	8.5	9.3	19.4	44.2	22.9	4.6	3.5	0.8	1.2	2.8	
24	0.7	20.0	7.8	10.8	17.6	44.7	20.4	4.5	3.6	0.8	1.2	2.9	
25	0.7	20.6	8.0	12.2	17.8	45.1	18.0	5.6	3.5	0.8	1.2	3.0	
26	0.7	19.2	8.5	15.6	21.0	46.9	15.6	6.3	3.4	1.0	1.2	3.1	
27	0.6	17.2	7.5	19.8	22.4	49.1	13.2	6.8	3.2	1.0	1.2	3.2	
28	0.6	13.4	7.0	22.2	24.5	49.6	12.7	7.4	3.0	1.0	1.2	3.2	
29	0.6	12.5	6.1	22.4	25.2	50.1	11.3	7.0	3.1	1.0		3.2	
30	0.6	12.7	8.7	22.9	26.0	49.1	9.9	8.5	2.2	1.0		3.3	
31		13.2		22.6	31.1		9.0		2.2	1.0		3.2	
Total	28.2	185.1	365.4	592.0	840.7	1449.4	972.7	161.1	213.3	30.2	28.8	52.2	4919.1 CMSDAY
Mean	0.9	6.0	12.2	19.1	27.1	48.3	31.4	5.4	6.9	1.0	1.0	1.7	13.5 CMS
Max	1.4	20.6	16.8	39.7	40.1	62.9	46.5	9.2	11.6	1.9	1.2	3.3	62.9 CMS
Min	0.6	0.4	6.1	6.9	17.6	40.7	9.0	3.0	2.2	0.7	0.8	0.8	0.4 CMS
Runoff	2.44	15.99	31.57	51.15	72.64	125.23	84.04	13.92	18.43	2.61	2.49	4.51	425.01 MCM

Momentary Peak 63.66 CMS, at 163.71 M (MSL), at 16.00 Hours, on Sep 5, 1994

Runoff Yield 2.81 Liters/Second/Square KM, Momentary Peak Yield 13.26 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

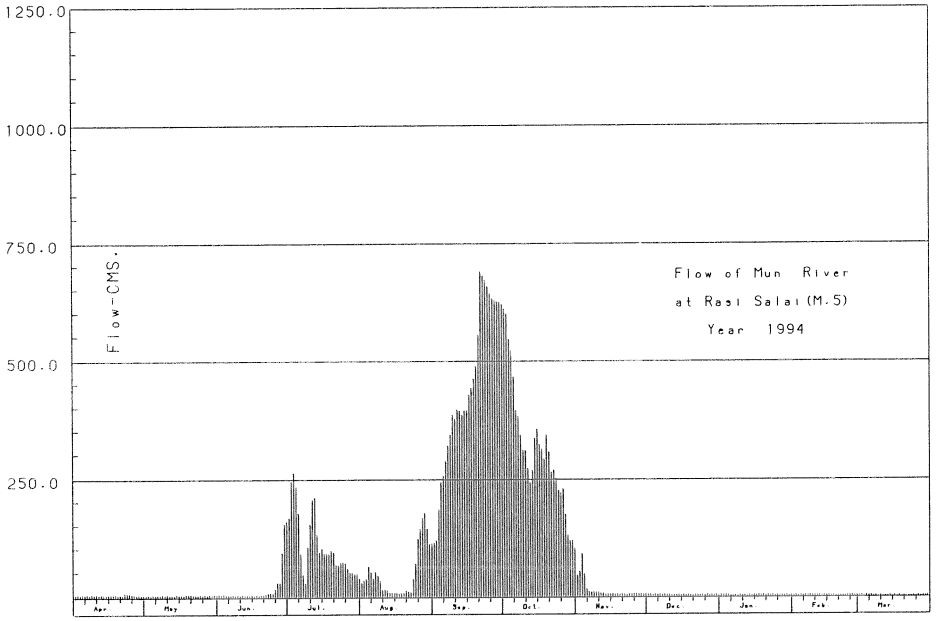
Mun River at Rasi Salai, Si Sa Ket (M.5)

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 about 2.5 meters from the top staff gage.
Elevation	+122.385 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1955 to date.
Rating Operation	
Period of Rating	1972 to date.
Rated by Float	-
Rated by Current Meter	1972 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.08	110.01	110.06	112.87	110.76	112.19	116.26	111.05	110.08	110.03	110.01	109.98	
2	110.08	110.01	110.06	113.68	110.86	112.25	116.20	111.18	110.07	110.03	110.00	109.98	
3	110.09	110.01	110.06	113.84	110.93	113.08	115.89	111.80	110.06	110.03	109.99	109.97	
4	110.09	110.01	110.05	113.56	111.37	113.65	115.74	111.09	110.06	110.03	109.99	109.97	
5	110.10	110.01	110.03	112.99	111.17	113.79	115.40	110.43	110.06	109.98	109.98	109.98	
6	110.10	110.01	110.03	111.80	110.94	114.07	114.93	110.25	110.06	109.98	109.99	109.97	
7	110.09	110.02	110.03	111.08	111.17	114.34	114.83	110.25	110.05	109.99	110.01	109.96	
8	110.09	110.07	110.02	110.73	111.05	114.54	114.53	110.24	110.05	109.99	110.01	109.95	
9	110.09	110.06	110.02	112.05	110.85	114.85	114.26	110.24	110.05	109.99	110.02	109.95	
10	110.08	110.05	110.02	112.73	110.37	114.79	114.26	110.22	110.05	109.99	110.01	109.95	
11	110.07	110.05	110.02	113.28	110.40	114.94	113.93	110.18	110.04	109.98	110.01	109.95	
12	110.07	110.04	110.01	113.34	110.36	114.92	113.65	110.15	110.04	109.98	110.00	109.95	
13	110.07	110.04	110.01	112.43	110.23	114.86	113.88	110.11	110.04	110.01	109.99	109.96	
14	110.06	110.04	110.01	111.85	110.20	114.92	114.47	110.09	110.03	110.01	109.98	109.96	
15	110.06	110.03	110.01	111.99	110.21	114.93	114.63	110.10	110.03	110.02	109.99	109.96	
16	110.07	110.03	110.02	111.80	110.20	115.15	114.36	110.09	110.03	110.02	109.98	109.95	
17	110.07	110.03	110.02	111.80	110.16	115.24	114.28	110.10	110.03	110.03	109.98	109.95	
18	110.07	110.07	110.03	111.80	110.19	115.37	114.11	110.11	110.04	110.04	109.97	109.95	
19	110.05	110.09	110.04	111.91	110.20	115.53	114.53	110.09	110.04	110.03	109.99	109.95	
20	110.04	110.08	110.06	111.86	110.35	115.94	114.24	110.09	110.01	110.02	109.98	109.94	
21	110.04	110.07	110.10	111.41	110.29	116.70	113.85	110.08	110.04	110.02	109.98	109.94	
22	110.19	110.04	110.18	111.41	110.25	116.66	113.90	110.06	110.04	110.01	109.99	109.94	
23	110.18	110.04	110.17	111.50	110.94	116.60	113.73	110.09	110.03	110.02	109.98	109.94	
24	110.14	110.04	110.20	111.50	111.45	116.53	113.48	110.10	110.03	110.01	110.01	109.95	
25	110.13	110.03	110.42	111.47	112.32	116.44	113.42	110.11	110.03	110.01	110.02	109.94	
26	110.04	110.03	110.74	111.29	112.59	116.39	113.52	110.12	110.03	110.01	110.01	109.94	
27	110.04	110.03	110.78	111.15	112.88	116.36	112.96	110.11	110.03	110.01	109.99	109.95	
28	110.03	110.03	111.85	111.13	112.99	116.35	112.42	110.10	110.03	110.01	109.98	109.97	
29	110.01	110.04	112.73	111.10	112.61	116.34	112.25	110.09	110.03	109.99		109.98	
30	110.01	110.04	112.78	111.10	112.12	116.32	112.25	110.08	110.03	109.99		109.99	
31		110.05		110.94	112.15		111.99		110.03	109.99		109.99	
Mean	110.08	110.04	110.35	111.98	111.05	115.13	114.13	110.29	110.04	110.01	109.99	109.96	
Max	110.19	110.09	112.78	113.84	112.99	116.70	116.26	111.80	110.08	110.04	110.02	109.99	116.70
Min	110.01	110.01	110.01	110.73	110.16	112.19	111.99	110.06	110.01	109.98	109.97	109.94	109.94

Annual Max Momentary Gage Height 116.71 M (MSL), at 18.00 Hours, on Sep 21, 1994
Zero Gage at Bottom Elevation 110.00 M (MSL), River Bed 109.11 M (MSL)
Left Bank Elevation 121.17 M (MSL)
Right Bank Elevation 122.38 M (MSL), Drainage Area 44275 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.6	4.2	5.2	167.3	30.7	115.4	610.8	46.1	5.6	4.6	4.2	3.6	
2	5.6	4.2	5.2	246.0	35.2	119.5	600.0	54.0	5.4	4.6	4.0	3.6	
3	5.8	4.2	5.2	263.4	38.8	186.2	547.3	91.7	5.2	4.6	3.8	3.4	
4	5.8	4.2	5.0	234.0	65.6	243.0	522.4	48.5	5.2	4.6	3.8	3.4	
5	6.0	4.2	4.6	178.1	53.4	257.9	468.0	17.2	5.2	3.6	3.6	3.6	
6	6.0	4.2	4.6	91.7	39.4	288.7	396.5	10.5	5.2	3.6	3.8	3.4	
7	5.8	4.4	4.6	47.9	53.4	320.8	382.9	10.5	5.0	3.8	4.2	3.2	
8	5.8	5.4	4.4	29.3	46.1	345.2	343.9	10.2	5.0	3.8	4.2	3.0	
9	5.8	5.2	4.4	106.9	34.7	385.5	311.2	10.2	5.0	3.8	4.4	3.0	
10	5.6	5.0	4.4	155.4	14.8	377.7	311.2	9.6	5.0	3.8	4.2	3.0	
11	5.4	5.0	4.4	206.0	16.0	398.0	273.3	8.4	4.8	3.6	4.2	3.0	
12	5.4	4.8	4.2	212.0	14.4	395.0	243.0	7.5	4.8	3.6	4.0	3.0	
13	5.4	4.8	4.2	132.1	9.9	386.8	267.8	6.3	4.8	4.2	3.8	3.2	
14	5.2	4.8	4.2	94.7	9.0	395.0	336.4	5.8	4.6	4.2	3.6	3.2	
15	5.2	4.6	4.2	103.2	9.3	396.5	356.9	6.0	4.6	4.4	3.8	3.2	
16	5.4	4.6	4.4	91.7	9.0	429.5	323.2	5.8	4.6	4.4	3.6	3.0	
17	5.4	4.6	4.4	91.7	7.8	443.0	313.6	6.0	4.6	4.6	3.6	3.0	
18	5.4	5.4	4.6	91.7	8.7	463.2	293.2	6.3	4.8	4.8	3.4	3.0	
19	5.0	5.8	4.8	98.4	9.0	488.8	343.9	5.8	4.8	4.6	3.8	3.0	
20	4.8	5.6	5.2	95.3	14.0	555.8	308.8	5.8	4.2	4.4	3.6	2.8	
21	4.8	5.4	6.0	68.0	11.7	690.0	264.5	5.6	4.8	4.4	3.6	2.8	
22	8.7	4.8	8.4	68.0	10.5	682.8	270.0	5.2	4.8	4.2	3.8	2.8	
23	8.4	4.8	8.1	73.5	39.4	672.0	251.3	5.8	4.6	4.4	3.6	2.8	
24	7.2	4.8	9.0	73.5	70.4	659.4	226.0	6.0	4.6	4.2	4.2	3.0	
25	6.9	4.6	16.8	71.6	124.4	643.2	220.0	6.3	4.6	4.2	4.4	2.8	
26	4.8	4.6	29.8	60.7	144.2	634.2	230.0	6.6	4.6	4.2	4.2	2.8	
27	4.8	4.6	31.6	52.2	168.2	628.8	175.4	6.3	4.6	4.2	3.8	3.0	
28	4.6	4.6	94.7	51.0	178.1	627.0	131.4	6.0	4.6	4.2	3.6	3.4	
29	4.2	4.8	155.4	49.2	145.8	625.2	119.5	5.8	4.6	3.8		3.6	
30	4.2	4.8	159.4	49.2	111.1	621.6	119.5	5.6	4.6	3.8		3.8	
31		5.0		39.4	113.0		103.2		4.6	3.8		3.8	
Total	169.0	148.0	611.4	3393.1	1636.0	13475.7	9665.1	431.4	149.4	129.0	108.8	98.2	30015.1 CMSDAY
Mean	5.6	4.8	20.4	109.5	52.8	449.2	311.8	14.4	4.8	4.2	3.9	3.2	82.2 CMS
Max	8.7	5.8	159.4	263.4	178.1	690.0	610.8	91.7	5.6	4.8	4.4	3.8	690.0 CMS
Min	4.2	4.2	4.2	29.3	7.8	115.4	103.2	5.2	4.2	3.6	3.4	2.8	2.8 CMS
Runoff	14.60	12.79	52.82	293.16	141.35	1164.30	835.06	37.27	12.91	11.15	9.40	8.48	2593.30 MCM

Momentary Peak 691.80 CMS, at 116.71 M (MSL), at 18.00 Hours, on Sep 21, 1994

Runoff Yield 1.86 Liters/Second/Square KM, Momentary Peak Yield 15.63 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

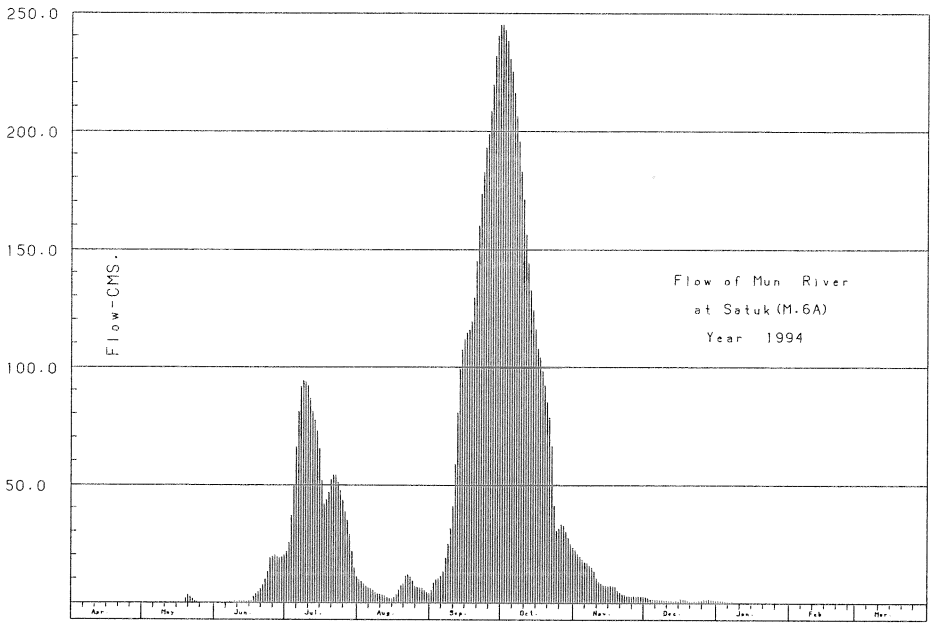
Mun River at Satuk, Buri Ram (M.6A)

Location	Lat. 15-17-44 N., Long. 103-17-51 E., on right bank at Satuk, Buri Ram.
Drainage Area	28,275 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+124.00 m. (M.S.L.)
Bench Mark	B.M.-B.M.P.1383
Location	Infront of the post office and about 80 meters from staff gage line.
Elevation	+132.328 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1964 to date.
Rating Operation	
Period of Rating	1976 to date.
Rated by Float	-
Rated by Current Meter	1976 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.19	124.19	124.36	125.49	125.07	124.84	128.50	125.52	124.63	124.51	124.21	124.09	
2	124.19	124.19	124.37	125.62	125.04	125.00	128.48	125.46	124.60	124.51	124.19	124.09	
3	124.18	124.18	124.36	125.90	124.98	125.07	128.44	125.43	124.57	124.49	124.18	124.08	
4	124.18	124.17	124.36	126.15	124.94	125.09	128.37	125.38	124.55	124.48	124.17	124.08	
5	124.17	124.16	124.39	126.42	124.90	125.14	128.32	125.35	124.55	124.47	124.16	124.07	
6	124.16	124.14	124.40	126.66	124.87	125.21	128.24	125.33	124.54	124.46	124.15	124.06	
7	124.15	124.16	124.42	126.81	124.83	125.41	128.15	125.30	124.54	124.45	124.14	124.06	
8	124.15	124.26	124.44	126.85	124.76	125.60	128.05	125.27	124.53	124.44	124.14	124.06	
9	124.14	124.27	124.46	126.84	124.73	125.77	127.92	125.22	124.52	124.43	124.13	124.06	
10	124.14	124.29	124.47	126.82	124.71	125.98	127.80	125.10	124.51	124.42	124.13	124.06	
11	124.13	124.30	124.48	126.74	124.70	126.30	127.64	125.03	124.51	124.40	124.13	124.05	
12	124.12	124.29	124.47	126.66	124.67	126.65	127.49	124.99	124.49	124.39	124.12	124.05	
13	124.12	124.27	124.46	126.60	124.62	126.92	127.35	124.96	124.49	124.38	124.12	124.04	
14	124.14	124.26	124.47	126.53	124.58	127.03	127.24	124.94	124.49	124.38	124.11	124.04	
15	124.14	124.25	124.47	126.41	124.57	127.09	127.14	124.94	124.50	124.37	124.11	124.04	
16	124.13	124.24	124.50	126.18	124.61	127.12	127.04	124.94	124.56	124.36	124.11	124.03	
17	124.13	124.23	124.64	126.00	124.71	127.14	126.99	124.94	124.56	124.35	124.11	124.03	
18	124.13	124.34	124.71	126.03	124.83	127.18	126.91	124.92	124.54	124.34	124.10	124.02	
19	124.12	124.58	124.79	126.09	124.95	127.31	126.82	124.83	124.51	124.33	124.10	124.01	
20	124.13	124.69	124.86	126.19	124.98	127.50	126.72	124.76	124.48	124.32	124.09	124.00	
21	124.14	124.64	124.95	126.22	125.14	127.68	126.62	124.72	124.47	124.31	124.09	123.99	
22	124.15	124.56	125.08	126.22	125.16	127.82	126.43	124.70	124.48	124.30	124.08	123.98	
23	124.17	124.48	125.21	126.17	125.12	127.92	125.99	124.67	124.48	124.30	124.08	123.98	
24	124.19	124.43	125.40	126.10	125.05	128.02	125.74	124.65	124.50	124.29	124.10	123.97	
25	124.18	124.41	125.43	126.03	124.93	128.08	125.77	124.65	124.52	124.29	124.11	123.96	
26	124.18	124.39	125.44	125.93	124.92	128.17	125.81	124.65	124.54	124.28	124.10	123.95	
27	124.20	124.36	125.42	125.85	124.90	128.27	125.80	124.65	124.54	124.27	124.10	123.95	
28	124.20	124.35	125.40	125.70	124.88	128.38	125.73	124.65	124.55	124.25	124.10	123.95	
29	124.20	124.34	125.42	125.50	124.84	128.46	125.67	124.65	124.54	124.24		123.94	
30	124.20	124.34	125.44	125.26	124.76	128.50	125.60	124.64	124.52	124.23		123.94	
31		124.35		125.13	124.73		125.55		124.51	124.22		123.93	
Mean	124.16	124.33	124.77	126.16	124.85	126.82	127.04	124.97	124.53	124.36	124.12	124.02	
Max	124.20	124.69	125.44	126.85	125.16	128.50	128.50	125.52	124.63	124.51	124.21	124.09	128.50
Min	124.12	124.14	124.36	125.13	124.57	124.84	125.55	124.64	124.47	124.22	124.08	123.93	123.93

Annual Max Momentary Gage Height 128.50 M (MSL), at 6.00 Hours, on Oct 1, 1994
Zero Gage at Bottom Elevation 124.00 M (MSL), River Bed 120.96 M (MSL)
Left Bank Elevation 130.27 M (MSL)
Right Bank Elevation 132.55 M (MSL), Drainage Area 28275 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.32	21.70	9.90	5.60	245.00	22.60	2.59	1.12	0.02	0.00	
2	0.00	0.00	0.34	25.80	9.30	8.50	242.80	20.80	2.20	1.12	0.00	0.00	
3	0.00	0.00	0.32	37.00	8.10	9.90	238.40	19.90	1.84	0.94	0.00	0.00	
4	0.00	0.00	0.32	50.25	7.30	10.30	230.70	18.40	1.60	0.88	0.00	0.00	
5	0.00	0.00	0.38	66.20	6.50	11.50	225.20	17.50	1.60	0.82	0.00	0.00	
6	0.00	0.00	0.40	81.40	6.05	13.30	216.40	16.90	1.48	0.76	0.00	0.00	
7	0.00	0.00	0.52	91.70	5.45	19.30	206.50	16.00	1.48	0.70	0.00	0.00	
8	0.00	0.12	0.64	94.50	4.40	25.00	196.00	15.10	1.36	0.64	0.00	0.00	
9	0.00	0.14	0.76	93.80	3.95	31.80	183.00	13.60	1.24	0.58	0.00	0.00	
10	0.00	0.18	0.82	92.40	3.65	41.00	171.50	10.50	1.12	0.52	0.00	0.00	
11	0.00	0.20	0.88	86.80	3.50	59.00	156.60	9.10	1.12	0.40	0.00	0.00	
12	0.00	0.18	0.82	81.40	3.11	80.75	144.20	8.30	0.94	0.38	0.00	0.00	
13	0.00	0.14	0.76	77.50	2.46	99.40	133.00	7.70	0.94	0.36	0.00	0.00	
14	0.00	0.12	0.82	72.95	1.96	107.40	124.20	7.30	0.94	0.36	0.00	0.00	
15	0.00	0.10	0.82	65.60	1.84	112.20	116.20	7.30	1.00	0.34	0.00	0.00	
16	0.00	0.08	1.00	51.90	2.33	114.60	108.20	7.30	1.72	0.32	0.00	0.00	
17	0.00	0.06	2.72	42.00	3.65	116.20	104.30	7.30	1.72	0.30	0.00	0.00	
18	0.00	0.28	3.65	43.65	5.45	119.40	98.70	6.90	1.48	0.28	0.00	0.00	
19	0.00	1.96	4.85	46.95	7.50	129.80	92.40	5.45	1.12	0.26	0.00	0.00	
20	0.00	3.37	5.90	52.45	8.10	145.00	85.40	4.40	0.88	0.24	0.00	0.00	
21	0.00	2.72	7.50	54.20	11.50	160.20	78.80	3.80	0.82	0.22	0.00	0.00	
22	0.00	1.72	10.10	54.20	12.00	173.40	66.80	3.50	0.88	0.20	0.00	0.00	
23	0.00	0.88	13.30	51.35	11.00	183.00	41.50	3.11	0.88	0.20	0.00	0.00	
24	0.00	0.58	19.00	47.50	9.50	193.00	30.60	2.85	1.00	0.18	0.00	0.00	
25	0.00	0.46	19.90	43.65	7.10	199.00	31.80	2.85	1.24	0.18	0.00	0.00	
26	0.00	0.38	20.20	38.50	6.90	208.70	33.40	2.85	1.48	0.16	0.00	0.00	
27	0.00	0.32	19.60	35.00	6.50	219.70	33.00	2.85	1.48	0.14	0.00	0.00	
28	0.00	0.30	19.00	29.00	6.20	231.80	30.20	2.85	1.60	0.10	0.00	0.00	
29	0.00	0.28	19.60	22.00	5.60	240.60	27.80	2.85	1.48	0.08		0.00	
30	0.00	0.28	20.20	14.80	4.40	245.00	25.00	2.72	1.24	0.06		0.00	
31		0.30		11.25	3.95		23.50		1.12	0.04		0.00	
Total	0.00	15.15	195.44	1677.40	189.15	3314.35	3741.10	272.58	41.59	12.88	0.02	0.00	9459.66 CMSDAY
Mean	0.00	0.49	6.51	54.11	6.10	110.48	120.68	9.09	1.34	0.42	0.00	0.00	25.92 CMS
Max	0.00	3.37	20.20	94.50	12.00	245.00	245.00	22.60	2.59	1.12	0.02	0.00	245.00 CMS
Min	0.00	0.00	0.32	11.25	1.84	5.60	23.50	2.72	0.82	0.04	0.00	0.00	0.00 CMS
Runoff	0.000	1.309	16.886	144.927	16.343	286.360	323.231	23.551	3.593	1.113	0.002	0.000	817.315 MCM

Momentary Peak 245.00 CMS, at 128.50 M (MSL), at 6.00 Hours, on Oct 1, 1994

Runoff Yield 0.92 Liters/Second/Square KM, Momentary Peak Yield 8.66 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

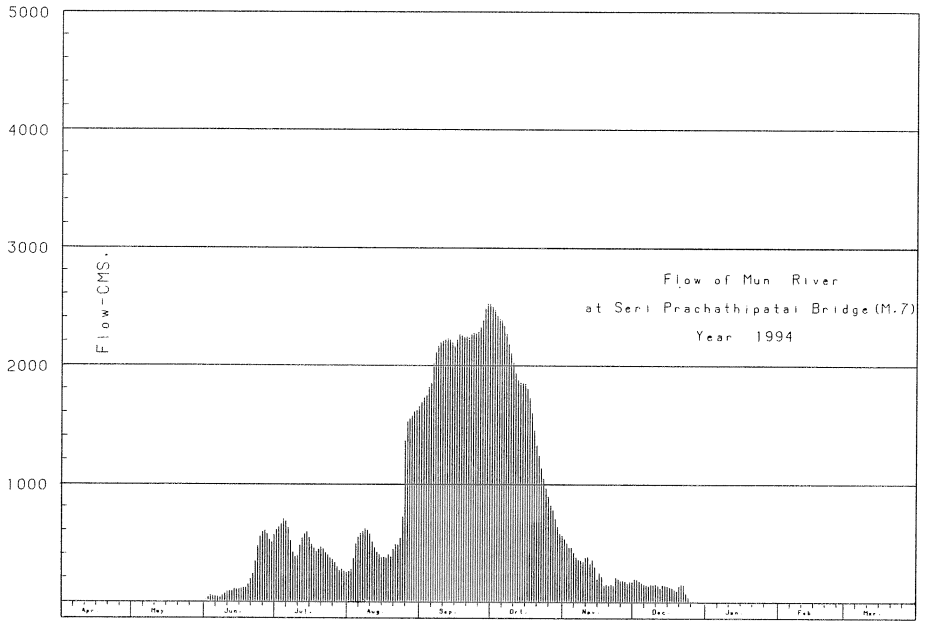
Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M.7)

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	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.
Period of Available Gage Records	1944 to date.
Rating Operation	
Period of Rating	1956 - 1958, 1964 - 1981, 1983 to date.
Rated by Float	-
Rated by Current Meter	1956 - 1958, 1964 - 1981, 1983 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.33	106.30	106.89	108.49	107.65	110.45	111.60	108.31	107.85	106.59	106.49	106.54	
2	106.34	106.30	107.01	108.52	107.68	110.50	111.56	108.22	107.84	106.58	106.49	106.53	
3	106.35	106.29	107.07	108.60	107.93	110.54	111.50	108.15	107.83	106.57	106.48	106.53	
4	106.36	106.28	107.06	108.68	108.21	110.64	111.46	108.14	107.81	106.57	106.49	106.53	
5	106.37	106.27	107.04	108.65	108.35	110.70	111.45	108.05	107.80	106.56	106.50	106.53	
6	106.38	106.27	107.01	108.51	108.41	110.94	111.39	107.94	107.78	106.56	106.50	106.54	
7	106.39	106.37	107.00	108.28	108.46	111.08	111.29	107.90	107.77	106.56	106.49	106.55	
8	106.39	106.42	107.06	108.06	108.50	111.15	111.18	107.87	107.79	106.55	106.49	106.56	
9	106.38	106.43	107.14	107.95	108.48	111.20	111.06	107.86	107.79	106.55	106.49	106.57	
10	106.37	106.43	107.18	107.99	108.40	111.21	110.95	107.93	107.79	106.55	106.49	106.58	
11	106.36	106.43	107.20	108.18	108.26	111.23	110.83	107.95	107.77	106.55	106.49	106.59	
12	106.35	106.43	107.21	108.32	108.14	111.24	110.74	107.93	107.74	106.55	106.49	106.59	
13	106.35	106.41	107.25	108.40	108.06	111.23	110.70	107.94	107.78	106.55	106.49	106.59	
14	106.34	106.40	107.25	108.45	108.00	111.19	110.70	107.92	107.78	106.55	106.49	106.59	
15	106.34	106.39	107.26	108.34	107.95	111.15	110.69	107.85	107.76	106.55	106.50	106.59	
16	106.33	106.38	107.26	108.20	107.94	111.22	110.63	107.90	107.75	106.54	106.52	106.59	
17	106.32	106.37	107.29	108.14	107.94	111.29	110.50	107.87	107.74	106.54	106.53	106.58	
18	106.30	106.41	107.28	108.06	108.00	111.27	110.31	107.78	107.70	106.54	106.53	106.58	
19	106.30	106.47	107.37	108.12	107.96	111.26	110.07	107.79	107.68	106.54	106.54	106.58	
20	106.29	106.51	107.48	108.15	108.11	111.26	109.87	107.78	107.76	106.54	106.55	106.57	
21	106.30	106.53	107.59	108.12	108.20	111.25	109.71	107.79	107.79	106.53	106.55	106.57	
22	106.30	106.53	107.87	108.05	108.20	111.29	109.53	107.78	107.79	106.53	106.55	106.57	
23	106.30	106.53	108.18	107.99	108.33	111.30	109.36	107.86	107.61	106.52	106.55	106.56	
24	106.30	106.54	108.35	107.94	108.73	111.30	109.21	107.85	107.35	106.51	106.55	106.56	
25	106.30	106.55	108.45	107.89	109.92	111.31	109.06	107.83	107.05	106.51	106.55	106.56	
26	106.30	106.58	108.46	107.83	110.20	111.36	108.91	107.83	106.94	106.51	106.54	106.55	
27	106.30	106.61	108.41	107.75	110.24	111.45	108.84	107.83	106.95	106.50	106.54	106.55	
28	106.31	106.61	108.29	107.67	110.27	111.58	108.69	107.81	106.87	106.50	106.54	106.55	
29	106.31	106.61	108.25	107.69	110.33	111.63	108.53	107.82	106.76	106.49		106.55	
30	106.31	106.62	108.38	107.66	110.34	111.63	108.41	107.82	106.64	106.49		106.56	
31		106.79		107.62	110.39		108.36		106.61	106.49		106.56	
Mean	106.33	106.45	107.52	108.14	108.63	111.16	110.23	107.91	107.54	106.54	106.51	106.56	
Max	106.39	106.79	108.46	108.68	110.39	111.63	111.60	108.31	107.85	106.59	106.55	106.59	111.63
Min	106.29	106.27	106.89	107.62	107.65	110.45	108.36	107.78	106.61	106.49	106.48	106.53	106.27

Annual Max Momentary Gage Height 111.63 M (MSL), at 12.00 Hours, on Sep 29, 1994
Zero Gage at Bottom Elevation 105.00 M (MSL), River Bed 100.57 M (MSL)
Left Bank Elevation 113.00 M (MSL)
Right Bank Elevation 112.00 M (MSL), Drainage Area 106673 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.0	0.0	21.7	615.5	260.0	1692.5	2500.0	534.5	195.0	0.9	0.0	0.4	
2	0.0	0.0	42.3	629.0	272.0	1725.0	2470.0	494.0	186.0	0.8	0.0	0.3	
3	0.0	0.0	56.1	665.0	372.0	1751.0	2425.0	462.5	177.0	0.7	0.0	0.3	
4	0.0	0.0	53.8	701.0	489.5	1816.0	2395.0	458.0	159.0	0.7	0.0	0.3	
5	0.0	0.0	49.2	687.5	552.5	1855.0	2387.5	420.0	150.0	0.6	0.0	0.3	
6	0.0	0.0	42.3	624.5	579.5	2018.0	2342.5	376.0	140.0	0.6	0.0	0.4	
7	0.0	0.0	40.0	521.0	602.0	2116.0	2267.5	360.0	135.0	0.6	0.0	0.5	
8	0.0	0.0	53.8	424.0	620.0	2165.0	2186.0	348.0	145.0	0.5	0.0	0.6	
9	0.0	0.0	73.8	380.0	611.0	2200.0	2102.0	344.0	145.0	0.5	0.0	0.7	
10	0.0	0.0	84.6	396.0	575.0	2207.5	2025.0	372.0	145.0	0.5	0.0	0.8	
11	0.0	0.0	90.0	476.0	512.0	2222.5	1941.0	380.0	135.0	0.5	0.0	0.9	
12	0.0	0.0	93.5	539.0	458.0	2230.0	1881.0	324.0	120.0	0.5	0.0	0.9	
13	0.0	0.0	107.5	575.0	424.0	2222.5	1855.0	352.0	140.0	0.5	0.0	0.9	
14	0.0	0.0	107.5	597.5	400.0	2193.0	1855.0	296.0	140.0	0.5	0.0	0.9	
15	0.0	0.0	111.0	548.0	380.0	2165.0	1848.5	195.0	130.0	0.5	0.0	0.9	
16	0.0	0.0	111.0	485.0	376.0	2215.0	1809.5	240.0	125.0	0.4	0.2	0.9	
17	0.0	0.0	121.5	458.0	376.0	2267.5	1725.0	213.0	120.0	0.4	0.3	0.8	
18	0.0	0.0	118.0	424.0	400.0	2252.5	1601.5	140.0	100.0	0.4	0.3	0.8	
19	0.0	0.0	150.9	449.0	384.0	2245.0	1452.0	145.0	94.0	0.4	0.4	0.8	
20	0.0	0.1	192.4	462.5	444.5	2245.0	1332.0	140.0	130.0	0.4	0.5	0.7	
21	0.0	0.3	236.0	449.0	485.0	2237.5	1236.0	145.0	145.0	0.3	0.5	0.7	
22	0.0	0.3	348.0	420.0	485.0	2267.5	1136.5	140.0	145.0	0.3	0.5	0.7	
23	0.0	0.3	476.0	396.0	543.5	2275.0	1043.0	204.0	73.0	0.2	0.5	0.6	
24	0.0	0.4	552.5	376.0	725.0	2275.0	965.0	195.0	35.0	0.1	0.5	0.6	
25	0.0	0.5	597.5	356.0	1362.0	2282.5	890.0	177.0	12.5	0.1	0.5	0.6	
26	0.0	0.8	602.0	332.0	1530.0	2320.0	815.0	177.0	7.6	0.1	0.4	0.5	
27	0.0	1.3	579.5	300.0	1556.0	2387.5	780.0	177.0	8.0	0.0	0.4	0.5	
28	0.0	1.3	525.5	268.0	1575.5	2485.0	705.5	159.0	5.4	0.0	0.4	0.5	
29	0.0	1.3	507.5	276.0	1614.5	2522.5	633.5	168.0	3.2	0.0		0.5	
30	0.0	1.6	566.0	264.0	1621.0	2522.5	579.5	168.0	1.4	0.0		0.6	
31		9.4		248.0	1653.5		557.0		1.1	0.0		0.6	
Total	0.0	17.6	6711.4	14342.5	22239.0	65379.0	49742.0	8304.0	3248.2	12.0	5.4	19.5	170020.6 CMSDAY
Mean	0.0	0.6	223.7	462.7	717.4	2179.3	1604.6	276.8	104.8	0.4	0.2	0.6	465.8 CMS
Max	0.0	9.4	602.0	701.0	1653.5	2522.5	2500.0	534.5	195.0	0.9	0.5	0.9	2522.5 CMS
Min	0.0	0.0	21.7	248.0	260.0	1692.5	557.0	140.0	1.1	0.0	0.0	0.3	0.0 CMS
Runoff	0.00	1.52	579.86	1239.19	1921.45	5648.75	4297.71	717.47	280.64	1.04	0.47	1.68	14689.78 MCM

Momentary Peak 2522.50 CMS, at 111.63 M (MSL), at 12.00 Hours, on Sep 29, 1994

Runoff Yield 4.37 Liters/Second/Square KM, Momentary Peak Yield 23.65 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

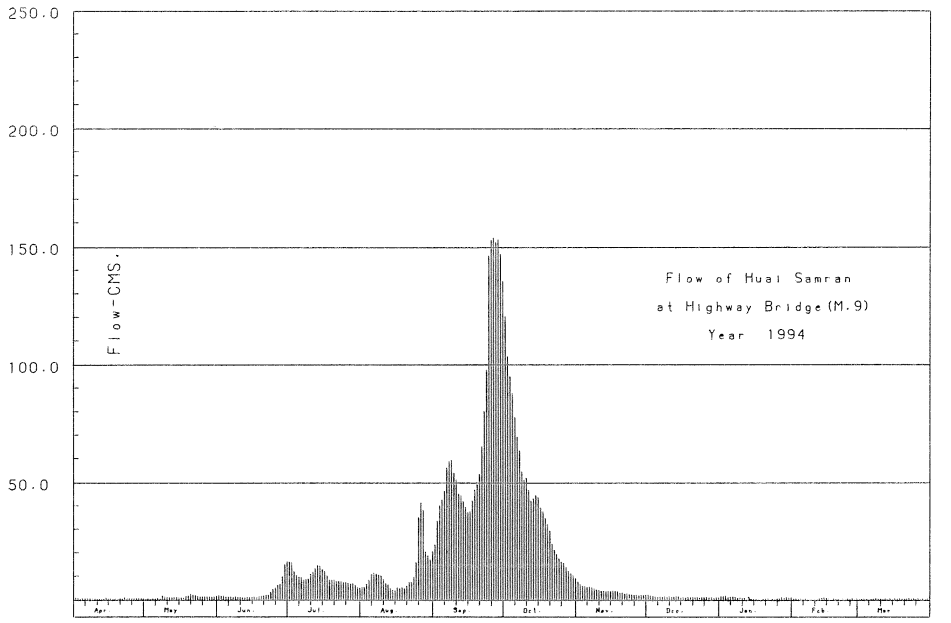
Huai Samran at Muang, Si Sa Ket (M.9)

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 17 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.06	109.02	109.28	111.87	109.96	112.54	115.26	110.47	109.38	109.20	109.05	109.01	
2	109.04	109.01	109.27	111.80	110.00	113.10	114.99	110.23	109.26	109.26	109.03	108.98	
3	109.03	109.01	109.24	111.18	110.24	113.44	114.84	110.12	109.25	109.26	109.04	109.05	
4	109.03	109.01	109.19	110.88	110.59	113.53	114.70	110.05	109.19	109.16	109.01	109.02	
5	109.02	109.01	109.17	110.79	110.99	113.67	114.50	110.00	109.18	109.16	109.03	108.98	
6	109.01	109.02	109.15	110.72	111.04	113.97	114.31	110.02	109.17	109.22	109.01	108.99	
7	109.01	109.01	109.14	110.58	110.99	114.05	114.17	109.98	109.18	109.16	109.02	109.04	
8	109.01	109.23	109.17	110.58	110.91	114.06	113.93	109.87	109.20	109.12	109.01	109.04	
9	109.00	109.17	109.14	110.65	110.87	113.91	113.82	109.78	109.18	109.11	109.01	109.04	
10	108.99	109.13	109.10	110.96	110.59	113.82	113.85	109.71	109.20	109.10	108.99	109.04	
11	109.02	109.11	109.09	111.16	110.32	113.63	113.68	109.69	109.18	109.06	109.02	109.03	
12	109.01	109.10	109.14	111.36	110.18	113.60	113.52	109.67	109.16	109.04	109.02	109.03	
13	109.02	109.10	109.15	111.62	109.90	113.51	113.55	109.65	109.23	109.04	109.10	109.02	
14	109.06	109.11	109.15	111.55	109.71	113.40	113.61	109.66	109.19	109.03	109.10	109.03	
15	109.03	109.11	109.16	111.31	109.71	113.30	113.57	109.66	109.14	109.01	109.09	109.04	
16	109.02	109.08	109.14	111.17	109.91	113.31	113.40	109.68	109.13	109.03	109.05	109.04	
17	109.01	109.08	109.12	110.87	109.88	113.52	113.31	109.69	109.13	109.03	109.02	109.05	
18	109.01	109.19	109.18	110.56	109.92	113.68	113.17	109.63	109.14	109.01	109.04	109.04	
19	108.99	109.27	109.23	110.56	109.87	113.76	113.03	109.53	109.17	109.01	109.04	109.04	
20	109.04	109.40	109.23	110.54	110.06	113.89	112.89	109.52	109.14	109.06	109.02	109.05	
21	109.03	109.36	109.28	110.50	110.37	114.21	112.56	109.47	109.14	109.03	109.01	109.05	
22	109.08	109.29	109.34	110.47	110.40	114.55	112.37	109.44	109.13	109.01	109.04	109.06	
23	109.03	109.21	109.57	110.44	110.78	114.89	112.18	109.41	109.13	109.02	108.99	109.05	
24	109.02	109.19	109.78	110.40	111.79	115.61	112.01	109.37	109.14	109.01	109.05	109.03	
25	109.02	109.16	109.93	110.36	113.19	115.69	111.86	109.35	109.15	109.04	109.02	109.02	
26	109.01	109.18	110.14	110.33	113.48	115.70	111.75	109.32	109.15	109.06	109.03	109.02	
27	109.03	109.17	110.25	110.29	113.35	115.68	111.49	109.30	109.14	109.12	108.99	109.01	
28	109.02	109.16	110.77	110.26	112.29	115.69	111.19	109.32	109.12	109.12	109.03	109.01	
29	109.02	109.16	111.67	110.17	112.13	115.62	111.04	109.34	109.12	109.13		109.01	
30	109.02	109.15	111.84	109.94	111.96	115.47	110.88	109.31	109.11	109.12		109.03	
31		109.28		109.92	112.31		110.68		109.12	109.11		109.05	
Mean	109.02	109.14	109.53	110.77	110.89	114.16	113.10	109.67	109.17	109.09	109.03	109.03	
Max	109.08	109.40	111.84	111.87	113.48	115.70	115.26	110.47	109.38	109.26	109.10	109.06	115.70
Min	108.99	109.01	109.09	109.92	109.71	112.54	110.68	109.30	109.11	109.01	108.99	108.98	108.98

Annual Max Momentary Gage Height 115.70 M (MSL), at 6.00 Hours, on Sep 26, 1994
Zero Gage at Bottom Elevation 109.00 M (MSL), River Bed 108.82 M (MSL)
Left Bank Elevation 119.13 M (MSL)
Right Bank Elevation 121.96 M (MSL), Drainage Area 3026 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	0.80	2.10	16.59	5.50	23.76	120.64	8.12	2.60	1.70	0.95	0.75	
2	0.90	0.75	2.05	16.10	5.70	33.80	103.65	6.85	2.00	2.00	0.85	0.60	
3	0.85	0.75	1.90	12.38	6.90	40.56	95.40	6.30	1.95	2.00	0.90	0.95	
4	0.85	0.75	1.65	10.58	8.84	42.78	88.00	5.95	1.65	1.50	0.75	0.80	
5	0.80	0.75	1.55	10.04	11.24	46.70	78.00	5.70	1.60	1.50	0.85	0.60	
6	0.75	0.80	1.45	9.62	11.54	56.45	69.45	5.80	1.55	1.80	0.75	0.65	
7	0.75	0.75	1.40	8.78	11.24	59.25	63.80	5.60	1.60	1.50	0.80	0.90	
8	0.75	1.85	1.55	8.78	10.76	59.60	55.05	5.05	1.70	1.30	0.75	0.90	
9	0.70	1.55	1.40	9.20	10.52	54.35	51.28	4.60	1.60	1.25	0.75	0.90	
10	0.65	1.35	1.20	11.06	8.84	51.28	52.30	4.25	1.70	1.20	0.65	0.90	
11	0.80	1.25	1.15	12.26	7.30	45.50	47.00	4.15	1.60	1.00	0.80	0.85	
12	0.75	1.20	1.40	13.46	6.60	44.60	42.52	4.05	1.50	0.90	0.80	0.85	
13	0.80	1.20	1.45	15.02	5.20	42.26	43.30	3.95	1.85	0.90	1.20	0.80	
14	1.00	1.25	1.45	14.60	4.25	39.60	44.90	4.00	1.65	0.85	1.20	0.85	
15	0.85	1.25	1.50	13.16	4.25	37.60	43.82	4.00	1.40	0.75	1.15	0.90	
16	0.80	1.10	1.40	12.32	5.25	37.80	39.60	4.10	1.35	0.85	0.95	0.90	
17	0.75	1.10	1.30	10.52	5.10	42.52	37.80	4.15	1.35	0.85	0.80	0.95	
18	0.75	1.65	1.60	8.66	5.30	47.00	35.13	3.85	1.40	0.75	0.90	0.90	
19	0.65	2.05	1.85	8.66	5.05	49.40	32.47	3.35	1.55	0.75	0.90	0.90	
20	0.90	2.70	1.85	8.54	6.00	53.66	29.81	3.30	1.40	1.00	0.80	0.95	
21	0.85	2.50	2.10	8.30	7.55	65.40	24.04	3.05	1.40	0.85	0.75	0.95	
22	1.10	2.15	2.40	8.12	7.70	80.50	21.64	2.90	1.35	0.75	0.90	1.00	
23	0.85	1.75	3.55	7.94	9.98	98.15	19.60	2.75	1.35	0.80	0.65	0.95	
24	0.80	1.65	4.60	7.70	16.04	146.35	17.90	2.55	1.40	0.75	0.95	0.85	
25	0.80	1.50	5.35	7.50	35.51	153.15	16.52	2.45	1.45	0.90	0.80	0.80	
26	0.75	1.60	6.40	7.35	41.52	154.00	15.80	2.30	1.45	1.00	0.85	0.80	
27	0.85	1.55	6.95	7.15	38.60	152.30	14.24	2.20	1.40	1.30	0.65	0.75	
28	0.80	1.50	9.92	7.00	20.70	153.15	12.44	2.30	1.30	1.30	0.85	0.75	
29	0.80	1.50	15.32	6.55	19.10	147.20	11.54	2.40	1.30	1.35		0.75	
30	0.80	1.45	16.38	5.40	17.40	135.78	10.58	2.25	1.25	1.30		0.85	
31		2.10		5.30	20.92		9.38		1.30	1.25		0.95	
Total	24.45	44.10	104.17	308.64	380.40	2194.45	1347.60	122.27	47.95	35.90	23.90	26.20	4660.03 CMSDAY
Mean	0.81	1.42	3.47	9.96	12.27	73.15	43.47	4.08	1.55	1.16	0.85	0.85	12.77 CMS
Max	1.10	2.70	16.38	16.59	41.52	154.00	120.64	8.12	2.60	2.00	1.20	1.00	154.00 CMS
Min	0.65	0.75	1.15	5.30	4.25	23.76	9.38	2.20	1.25	0.75	0.65	0.60	0.60 CMS
Runoff	2.112	3.810	9.000	26.666	32.867	189.600	116.433	10.564	4.143	3.102	2.065	2.264	402.627 MCM

Momentary Peak 154.00 CMS, at 115.70 M (MSL), at 6.00 Hours, on Sep 26, 1994

Runoff Yield 4.22 Liters/Second/Square KM, Momentary Peak Yield 50.89 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

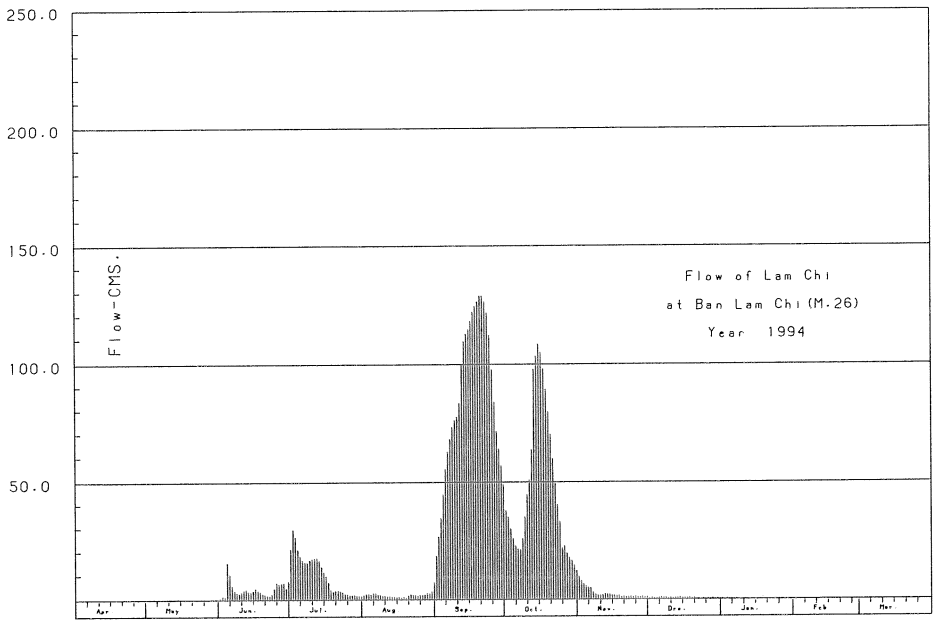
Lam Chi at Ban Lam Chi, Surin (M.26)

Location	Lat. 14°-54'-03" N., Long. 103°-24'-21" E., on left bank at railway bridge, Ban Lam Chi, Amphoe Muang, Surin.
Drainage Area	2,927 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+127.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+135.010 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1967-1968, 1978 to date.
Rated by Float	-
Rated by Current Meter	1967-1968, 1978 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +135.28 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 69 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	127.44	127.41	127.62	130.24	127.98	129.97	131.39	129.09	127.69	127.60	127.50	127.48	
2	127.45	127.41	127.86	130.87	128.12	130.65	131.20	128.90	127.71	127.60	127.49	127.48	
3	127.45	127.41	127.81	130.64	128.10	131.18	130.87	128.77	127.71	127.62	127.48	127.48	
4	127.45	127.41	129.68	130.24	128.07	131.84	130.60	128.68	127.73	127.62	127.48	127.48	
5	127.45	127.42	129.17	129.95	128.18	132.45	130.38	128.61	127.73	127.62	127.48	127.50	
6	127.46	127.43	128.68	129.76	128.15	132.81	130.24	128.57	127.73	127.63	127.48	127.49	
7	127.46	127.44	128.40	129.69	128.09	133.08	130.23	128.27	127.74	127.63	127.47	127.49	
8	127.46	127.46	128.18	129.66	128.01	133.30	130.59	128.04	127.68	127.60	127.45	127.49	
9	127.46	127.45	128.17	129.78	127.95	133.45	131.21	127.98	127.70	127.55	127.46	127.48	
10	127.47	127.50	128.23	129.82	127.89	133.50	131.83	127.94	127.71	127.55	127.46	127.48	
11	127.48	127.58	128.40	129.85	127.87	133.77	132.21	128.02	127.72	127.55	127.47	127.48	
12	127.48	127.60	128.53	129.89	127.86	134.49	132.86	128.10	127.72	127.54	127.47	127.48	
13	127.48	127.59	128.30	129.75	127.85	134.91	134.41	128.09	127.74	127.53	127.49	127.47	
14	127.48	127.58	128.29	129.51	127.82	135.03	134.65	128.05	127.74	127.53	127.53	127.48	
15	127.46	127.51	128.39	129.28	127.80	135.12	134.86	127.98	127.72	127.53	127.49	127.48	
16	127.46	127.50	128.54	129.09	127.78	135.25	134.71	127.96	127.71	127.53	127.48	127.48	
17	127.46	127.50	128.41	128.84	127.78	135.41	134.42	127.95	127.71	127.54	127.49	127.48	
18	127.47	127.50	128.27	128.45	127.78	135.50	134.04	127.90	127.71	127.53	127.49	127.50	
19	127.48	127.58	128.15	128.30	127.74	135.59	133.61	127.82	127.71	127.53	127.50	127.56	
20	127.48	127.52	128.03	128.34	127.93	135.68	133.16	127.82	127.70	127.52	127.50	127.48	
21	127.49	127.50	127.95	128.39	128.10	135.68	132.66	127.82	127.65	127.51	127.50	127.48	
22	127.49	127.51	127.94	128.35	128.03	135.59	132.12	127.80	127.64	127.51	127.47	127.46	
23	127.49	127.50	128.06	128.23	127.97	135.40	131.55	127.80	127.60	127.51	127.49	127.47	
24	127.50	127.51	128.55	128.13	127.96	135.01	131.08	127.80	127.61	127.52	127.50	127.47	
25	127.51	127.51	128.81	128.05	127.97	134.41	130.30	127.80	127.62	127.52	127.52	127.48	
26	127.51	127.51	128.76	128.00	127.97	133.80	130.37	127.80	127.64	127.52	127.52	127.50	
27	127.52	127.51	128.80	128.00	128.06	133.23	130.07	127.80	127.64	127.52	127.52	127.51	
28	127.49	127.51	128.80	127.98	128.16	132.87	129.87	127.80	127.63	127.52	127.52	127.51	
29	127.49	127.52	128.59	127.92	128.16	132.52	129.76	127.77	127.62	127.51		127.50	
30	127.48	127.52	128.87	127.88	128.30	132.08	129.54	127.76	127.60	127.50		127.48	
31		127.53		127.91	128.83		129.33		127.60	127.51		127.49	
Mean	127.47	127.50	128.41	129.06	128.01	133.79	131.75	128.08	127.68	127.55	127.49	127.49	
Max	127.52	127.60	129.68	130.87	128.83	135.68	134.86	129.09	127.74	127.63	127.53	127.56	135.68
Min	127.44	127.41	127.62	127.88	127.74	129.97	129.33	127.76	127.60	127.50	127.45	127.46	127.41

Annual Max Momentary Gage Height 135.68 M (MSL), at 24.00 Hours, on Sep 20, 1994
Zero Gage at Bottom Elevation 127.00 M (MSL), River Bed 127.09 M (MSL)
Left Bank Elevation 135.27 M (MSL)
Right Bank Elevation 135.56 M (MSL), Drainage Area 2927 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.02	0.56	21.40	1.92	18.70	37.85	9.90	0.77	0.50	0.20	0.16	
2	0.10	0.02	1.44	30.05	2.50	26.75	35.00	8.00	0.84	0.50	0.18	0.16	
3	0.10	0.02	1.24	26.60	2.40	34.70	30.05	6.70	0.84	0.56	0.16	0.16	
4	0.10	0.02	15.80	21.40	2.28	44.68	26.00	5.80	0.92	0.56	0.16	0.16	
5	0.10	0.04	10.70	18.50	2.80	55.55	22.80	5.10	0.92	0.56	0.16	0.20	
6	0.12	0.06	5.80	16.60	2.65	62.70	21.40	4.82	0.92	0.59	0.16	0.18	
7	0.12	0.08	3.90	15.90	2.36	68.26	21.30	3.25	0.96	0.59	0.14	0.18	
8	0.12	0.12	2.80	15.60	2.04	73.10	25.85	2.16	0.74	0.50	0.10	0.18	
9	0.12	0.10	2.75	16.80	1.80	76.40	35.15	1.92	0.80	0.35	0.12	0.16	
10	0.14	0.20	3.05	17.20	1.56	77.50	44.51	1.76	0.84	0.35	0.12	0.16	
11	0.16	0.44	3.90	17.50	1.48	83.44	50.99	2.08	0.88	0.35	0.14	0.16	
12	0.16	0.50	4.58	17.90	1.44	99.76	63.70	2.40	0.88	0.32	0.14	0.16	
13	0.16	0.47	3.40	16.50	1.40	109.84	97.84	2.36	0.96	0.29	0.18	0.14	
14	0.16	0.44	3.35	14.10	1.28	112.75	103.60	2.20	0.96	0.29	0.29	0.16	
15	0.12	0.23	3.85	11.80	1.20	115.00	108.64	1.92	0.88	0.29	0.18	0.16	
16	0.12	0.20	4.64	9.90	1.12	118.25	105.04	1.84	0.84	0.29	0.16	0.16	
17	0.12	0.20	3.95	7.40	1.12	122.25	98.08	1.80	0.84	0.32	0.18	0.16	
18	0.14	0.20	3.25	4.15	1.12	124.50	89.38	1.60	0.84	0.29	0.18	0.20	
19	0.16	0.44	2.65	3.40	0.96	126.75	79.92	1.28	0.84	0.29	0.20	0.38	
20	0.16	0.26	2.12	3.60	1.72	129.00	70.02	1.28	0.80	0.26	0.20	0.16	
21	0.18	0.20	1.80	3.85	2.40	129.00	59.70	1.28	0.65	0.23	0.20	0.16	
22	0.18	0.23	1.76	3.65	2.12	126.75	49.44	1.20	0.62	0.23	0.14	0.12	
23	0.18	0.20	2.24	3.05	1.88	122.00	40.25	1.20	0.50	0.23	0.18	0.14	
24	0.20	0.23	4.70	2.55	1.84	112.25	33.20	1.20	0.53	0.26	0.20	0.14	
25	0.23	0.23	7.10	2.20	1.88	97.84	22.00	1.20	0.56	0.26	0.26	0.16	
26	0.23	0.23	6.60	2.00	1.88	84.10	22.70	1.20	0.62	0.26	0.26	0.20	
27	0.26	0.23	7.00	2.00	2.24	71.56	19.70	1.20	0.62	0.26	0.26	0.23	
28	0.18	0.23	7.00	1.92	2.70	63.90	17.70	1.20	0.59	0.26	0.26	0.23	
29	0.18	0.26	4.94	1.68	2.70	56.90	16.60	1.08	0.56	0.23		0.20	
30	0.16	0.26	7.70	1.52	3.40	48.76	14.40	1.04	0.50	0.20		0.16	
31		0.29		1.64	7.30		12.30		0.50	0.23		0.18	
Total	4.54	6.65	134.57	332.36	65.49	2592.94	1475.11	79.97	23.52	10.70	5.11	5.46	4736.42 CMSDAY
Mean	0.15	0.21	4.49	10.72	2.11	86.43	47.58	2.67	0.76	0.35	0.18	0.18	12.98 CMS
Max	0.26	0.50	15.80	30.05	7.30	129.00	108.64	9.90	0.96	0.59	0.29	0.38	129.00 CMS
Min	0.08	0.02	0.56	1.52	0.96	18.70	12.30	1.04	0.50	0.20	0.10	0.12	0.02 CMS
Runoff	0.392	0.575	11.627	28.716	5.658	224.030	127.449	6.909	2.032	0.924	0.442	0.472	409.227 MCM

Momentary Peak 129.00 CMS, at 135.68 M (MSL), at 24.00 Hours, on Sep 20, 1994

Runoff Yield 4.43 Liters/Second/Square KM, Momentary Peak Yield 44.07 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

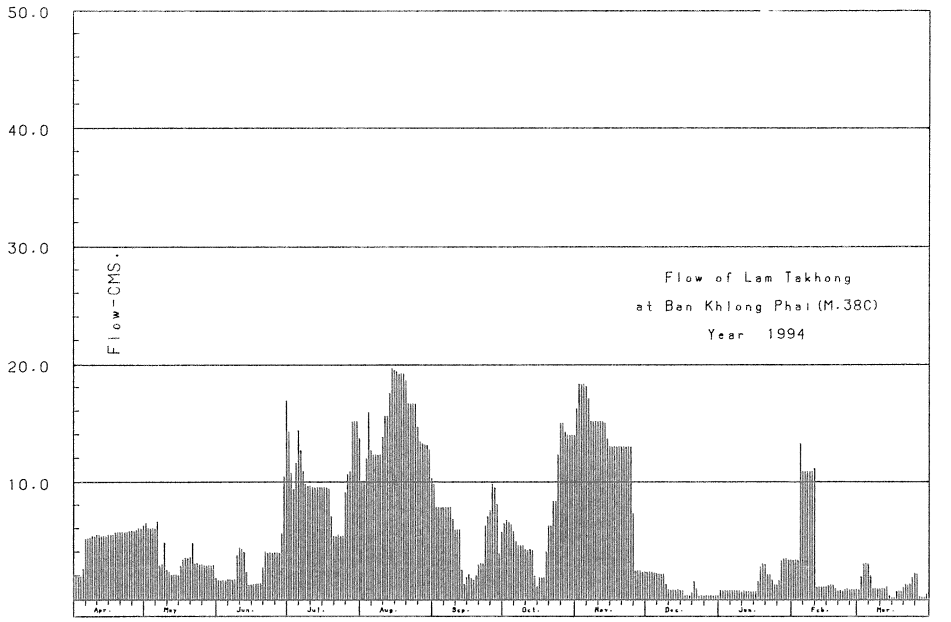
Lam Takhong at Ban Khlong Phai, Nakhon Ratchasima (M.38C)

Location	Lat. 14°-52'-06" N., Long. 101°-33'-53" E., on left bank about 500 meters downstream from Lam Takhong Dam, Tambon Khlong Phai, Amphoe Sikhiu, Nakhon Ratchasima.
Drainage Area	1,292 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+242.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 20 meters from the measuring line.
Elevation	+251.841 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1962 to date.
Rating Operation	
Period of Rating	1962-1965, 1967 - 1974, 1979 - 1981, 1983 to date.
Rated by Float	-
Rated by Current Meter	1962-1965, 1967 - 1974, 1979 - 1981, 1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Lam Takhong Reservoir. Stage-discharge relation defined by 45 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	244.86	245.32	244.81	245.90	245.60	245.58	245.32	246.03	244.92	244.65	245.03	244.67	
2	244.86	245.28	244.81	245.65	245.60	245.43	245.34	246.17	244.92	244.65	245.03	244.86	
3	244.86	245.28	244.81	245.55	245.74	245.43	245.33	246.17	244.92	244.65	245.03	245.00	
4	244.95	245.28	244.81	245.71	246.01	245.43	245.31	246.17	244.91	244.65	245.83	245.00	
5	245.20	245.28	244.82	245.91	245.79	245.43	245.26	246.16	244.91	244.65	245.66	245.00	
6	245.20	245.33	244.82	245.79	245.76	245.43	245.18	246.09	244.90	244.65	245.66	244.88	
7	245.21	244.98	244.82	245.66	245.76	245.43	245.15	245.96	244.90	244.65	245.66	244.70	
8	245.22	244.99	244.82	245.58	245.76	245.43	245.15	245.96	244.90	244.65	245.66	244.69	
9	245.22	245.17	245.07	245.57	245.76	245.35	245.15	245.96	244.76	244.65	245.66	244.69	
10	245.23	244.94	245.13	245.57	245.87	245.27	245.12	245.96	244.67	244.61	245.68	244.69	
11	245.23	244.92	245.12	245.56	245.99	245.27	245.11	245.96	244.66	244.64	244.72	244.69	
12	245.22	244.89	245.10	245.56	245.99	245.27	245.12	245.96	244.66	244.63	244.72	244.69	
13	245.22	244.89	244.92	245.56	246.12	244.94	245.11	245.95	244.66	244.62	244.72	244.72	
14	245.22	244.89	244.74	245.56	246.26	244.76	244.87	245.86	244.67	244.62	244.72	244.49	
15	245.23	244.88	244.75	245.56	246.25	244.85	244.72	245.81	244.66	244.62	244.72	244.31	
16	245.23	244.98	244.75	245.56	246.24	244.89	244.85	245.81	244.64	244.62	244.74	244.36	
17	245.23	245.03	244.76	245.56	246.23	244.84	244.85	245.81	244.50	244.80	244.75	244.63	
18	245.25	245.05	244.76	245.55	246.23	244.81	244.85	245.81	244.50	244.97	244.75	244.63	
19	245.25	245.04	244.77	245.37	246.23	244.88	245.10	245.81	244.49	245.00	244.69	244.63	
20	245.25	245.05	244.96	245.22	246.19	244.99	245.30	245.81	244.59	244.99	244.64	244.71	
21	245.25	245.17	245.10	245.22	246.06	245.00	245.30	245.81	244.80	244.90	244.64	244.76	
22	245.25	245.00	245.09	245.23	246.06	245.00	245.47	245.81	244.69	244.89	244.64	244.74	
23	245.25	245.00	245.09	245.22	246.06	245.30	245.47	245.81	244.49	244.82	244.67	244.76	
24	245.26	244.99	245.09	245.22	246.06	245.37	245.76	245.81	244.49	244.75	244.69	244.85	
25	245.26	244.99	245.09	245.53	245.93	245.41	245.95	245.39	244.49	244.75	244.67	244.91	
26	245.26	244.98	245.09	245.64	245.84	245.58	245.95	244.93	244.49	244.81	244.67	244.90	
27	245.27	244.98	245.09	245.66	245.83	245.56	245.90	244.93	244.49	245.02	244.67	244.46	
28	245.28	244.98	245.24	245.96	245.82	245.45	245.88	244.93	244.49	245.04	244.67	244.42	
29	245.28	244.98	245.63	245.96	245.82	245.08	245.88	244.92	244.49	245.04		244.43	
30	245.30	244.98	246.08	245.96	245.79	245.25	245.88	244.92	244.49	245.03		244.54	
31		244.85		245.86	245.62		245.88		244.50	245.03		244.61	
Mean	245.19	245.04	245.00	245.59	245.94	245.22	245.34	245.75	244.67	244.78	244.98	244.69	
Max	245.30	245.33	246.08	245.96	246.26	245.58	245.95	246.17	244.92	245.04	245.83	245.00	246.26
Min	244.86	244.85	244.74	245.22	245.60	244.76	244.72	244.92	244.49	244.61	244.64	244.31	244.31

Annual Max Momentary Gage Height 246.76 M (MSL), at 12.00 Hours, on Sep 28, 1994
Zero Gage at Bottom Elevation 242.00 M (MSL), River Bed 243.61 M (MSL)
Left Bank Elevation 251.50 M (MSL)
Right Bank Elevation 252.64 M (MSL), Drainage Area 1292 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.96	6.54	1.66	14.30	10.10	9.84	6.54	16.25	2.38	0.82	3.40	0.89	
2	1.96	6.08	1.66	10.80	10.10	7.89	6.78	18.35	2.38	0.82	3.40	1.96	
3	1.96	6.08	1.66	9.45	12.06	7.89	6.66	18.35	2.38	0.82	3.40	3.10	
4	2.65	6.08	1.66	11.64	15.95	7.89	6.42	18.35	2.29	0.82	13.32	3.10	
5	5.20	6.08	1.72	14.45	12.76	7.89	5.86	18.20	2.29	0.82	10.94	3.10	
6	5.20	6.66	1.72	12.76	12.34	7.89	4.98	17.15	2.20	0.82	10.94	2.08	
7	5.31	2.92	1.72	10.94	12.34	7.89	4.65	15.20	2.20	0.82	10.94	1.00	
8	5.42	3.01	1.72	9.84	12.34	7.89	4.65	15.20	2.20	0.82	10.94	0.97	
9	5.42	4.87	3.80	9.71	12.34	6.90	4.65	15.20	1.36	0.82	10.94	0.97	
10	5.53	2.56	4.43	9.71	13.88	5.97	4.32	15.20	0.89	0.68	11.22	0.97	
11	5.53	2.38	4.32	9.58	15.65	5.97	4.21	15.20	0.86	0.79	1.12	0.97	
12	5.42	2.14	4.10	9.58	15.65	5.97	4.32	15.20	0.86	0.76	1.12	0.97	
13	5.42	2.14	2.38	9.58	17.60	2.56	4.21	15.05	0.86	0.72	1.12	1.12	
14	5.42	2.14	1.24	9.58	19.73	1.36	2.02	13.74	0.89	0.72	1.12	0.38	
15	5.53	2.08	1.30	9.58	19.58	1.90	1.12	13.04	0.86	0.72	1.12	0.20	
16	5.53	2.92	1.30	9.58	19.42	2.14	1.90	13.04	0.79	0.72	1.24	0.20	
17	5.53	3.40	1.36	9.58	19.26	1.84	1.90	13.04	0.40	1.60	1.30	0.76	
18	5.75	3.60	1.36	9.45	19.26	1.66	1.90	13.04	0.40	2.83	1.30	0.76	
19	5.75	3.50	1.42	7.14	19.26	2.08	4.10	13.04	0.38	3.10	0.97	0.76	
20	5.75	3.60	2.74	5.42	18.65	3.01	6.30	13.04	0.62	3.01	0.79	1.06	
21	5.75	4.87	4.10	5.42	16.70	3.10	6.30	13.04	1.60	2.20	0.79	1.36	
22	5.75	3.10	4.00	5.53	16.70	3.10	8.41	13.04	0.97	2.14	0.79	1.24	
23	5.75	3.10	4.00	5.42	16.70	6.30	8.41	13.04	0.38	1.72	0.89	1.36	
24	5.86	3.01	4.00	5.42	16.70	7.14	12.34	13.04	0.38	1.30	0.97	1.90	
25	5.86	3.01	4.00	9.19	14.75	7.63	15.05	7.38	0.38	1.30	0.89	2.29	
26	5.86	2.92	4.00	10.66	13.46	9.84	15.05	2.47	0.38	1.66	0.89	2.20	
27	5.97	2.92	4.00	10.94	13.32	9.58	14.30	2.47	0.38	3.30	0.89	0.32	
28	6.08	2.92	5.64	15.20	13.18	8.15	14.02	2.47	0.38	3.50	0.89	0.24	
29	6.08	2.92	10.52	15.20	13.18	3.90	14.02	2.38	0.38	3.50		0.26	
30	6.30	2.92	17.00	15.20	12.76	5.75	14.02	2.38	0.38	3.40		0.50	
31		1.90		13.74	10.38		14.02		0.40	3.40		0.68	
Total	155.50	112.37	104.53	314.59	466.10	170.92	223.43	376.59	33.50	50.45	107.64	37.67	2153.29 CMSDAY
Mean	5.18	3.62	3.48	10.15	15.04	5.70	7.21	12.55	1.08	1.63	3.84	1.22	5.90 CMS
Max	6.30	6.66	17.00	15.20	19.73	9.84	15.05	18.35	2.38	3.50	13.32	3.10	19.73 CMS
Min	1.96	1.90	1.24	5.42	10.10	1.36	1.12	2.38	0.38	0.68	0.79	0.20	0.20 CMS
Runoff	13.435	9.709	9.031	27.181	40.271	14.767	19.304	32.537	2.894	4.359	9.300	3.255	186.044 MCM

Momentary Peak 27.66 CMS, at 246.76 M (MSL), at 12.00 Hours, on Sep 28, 1994

Runoff Yield 4.57 Liters/Second/Square KM, Momentary Peak Yield 21.41 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

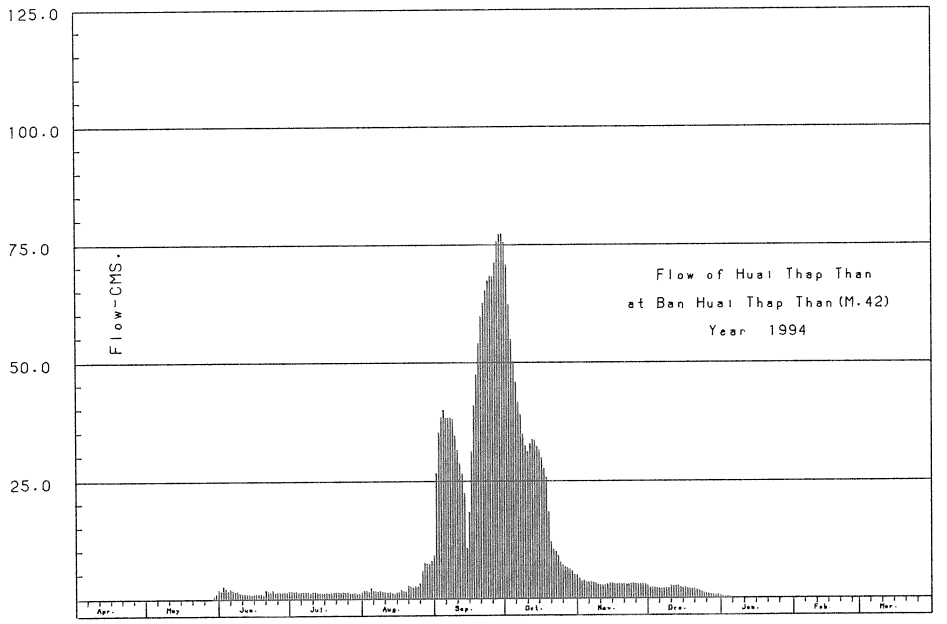
Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42)

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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir about 800 meters downstream from the gage site. Stage-discharge relation defined by 15 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.26	1.80	3.34	3.33	3.34	3.97	6.36	3.47	3.37	3.19	2.67	2.02	
2	2.23	1.79	3.40	3.33	3.34	4.69	6.04	3.44	3.37	3.18	2.65	2.00	
3	2.27	1.76	3.37	3.33	3.33	4.87	5.73	3.45	3.37	3.18	2.60	1.99	
4	2.30	1.73	3.34	3.32	3.37	4.97	5.51	3.43	3.36	3.16	2.58	1.98	
5	2.28	1.69	3.36	3.32	3.34	4.87	5.28	3.43	3.36	3.14	2.57	1.94	
6	2.26	1.69	3.34	3.32	3.33	4.86	5.05	3.43	3.35	3.13	2.55	1.90	
7	2.22	1.72	3.33	3.32	3.33	4.87	4.91	3.43	3.36	3.10	2.52	1.87	
8	2.20	1.88	3.33	3.32	3.33	4.85	4.66	3.42	3.36	3.10	2.51	1.85	
9	2.17	2.17	3.31	3.31	3.33	4.65	4.51	3.41	3.36	3.08	2.49	1.82	
10	2.15	2.42	3.30	3.32	3.32	4.43	4.41	3.40	3.39	3.05	2.45	1.79	
11	2.11	2.44	3.30	3.32	3.32	4.17	4.53	3.40	3.39	3.05	2.43	1.76	
12	2.10	2.44	3.30	3.32	3.32	3.95	4.60	3.40	3.39	3.03	2.40	1.72	
13	2.14	2.44	3.29	3.31	3.31	3.78	4.58	3.41	3.39	3.01	2.40	1.70	
14	2.15	2.50	3.28	3.31	3.29	3.67	4.50	3.42	3.38	3.01	2.40	1.70	
15	2.15	2.54	3.28	3.31	3.32	3.75	4.43	3.42	3.36	3.00	2.38	1.66	
16	2.14	2.53	3.30	3.31	3.32	4.41	4.28	3.41	3.37	2.97	2.37	1.64	
17	2.12	2.53	3.30	3.31	3.35	5.02	4.07	3.41	3.36	2.95	2.34	1.60	
18	2.10	2.63	3.29	3.31	3.33	5.36	3.87	3.41	3.35	2.93	2.33	1.58	
19	2.06	2.84	3.27	3.32	3.33	5.69	3.75	3.41	3.35	2.92	2.30	1.55	
20	2.04	2.90	3.35	3.32	3.40	5.93	3.70	3.41	3.35	2.90	2.28	1.51	
21	2.03	2.93	3.33	3.32	3.39	6.05	3.66	3.41	3.34	2.89	2.25	1.50	
22	2.00	2.94	3.32	3.32	3.38	6.16	3.65	3.41	3.33	2.87	2.23	1.48	
23	1.98	2.94	3.34	3.32	3.39	6.24	3.63	3.41	3.31	2.85	2.20	1.45	
24	1.96	2.93	3.32	3.32	3.39	6.28	3.59	3.42	3.29	2.83	2.18	1.43	
25	1.93	2.93	3.32	3.32	3.42	6.27	3.57	3.41	3.28	2.80	2.14	1.40	
26	1.91	2.93	3.32	3.31	3.53	6.38	3.56	3.41	3.27	2.78	2.10	1.44	
27	1.90	2.92	3.32	3.31	3.59	6.54	3.55	3.41	3.26	2.76	2.05	1.43	
28	1.88	2.90	3.32	3.31	3.58	6.59	3.54	3.41	3.25	2.74	2.05	1.43	
29	1.86	3.24	3.32	3.30	3.58	6.60	3.53	3.41	3.24	2.71		1.43	
30	1.84	3.29	3.33	3.30	3.60	6.53	3.50	3.39	3.24	2.70		1.41	
31		3.35		3.32	3.63		3.50		3.23	2.69		1.40	
Mean	2.09	2.51	3.32	3.32	3.39	5.21	4.32	3.42	3.33	2.96	2.37	1.66	
Max	2.30	3.35	3.40	3.33	3.63	6.60	6.36	3.47	3.39	3.19	2.67	2.02	6.60
Min	1.84	1.69	3.27	3.30	3.29	3.67	3.50	3.39	3.23	2.69	2.05	1.40	1.40

Annual Max Momentary Gage Height 6.61 M (A.D), at 6.00 Hours, on Sep 29, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.61 M (A.D)
Left Bank Elevation 7.10 M (A.D)
Right Bank Elevation 7.81 M (A.D), Drainage Area 1794 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.78	1.61	1.78	26.70	70.68	4.34	2.29	0.38	0.00	0.00	
2	0.00	0.00	2.80	1.61	1.78	35.33	62.36	3.68	2.29	0.36	0.00	0.00	
3	0.00	0.00	2.29	1.61	1.61	38.39	54.99	3.90	2.29	0.36	0.00	0.00	
4	0.00	0.00	1.78	1.44	2.29	40.09	50.30	3.46	2.12	0.32	0.00	0.00	
5	0.00	0.00	2.12	1.44	1.78	38.39	45.92	3.46	2.12	0.28	0.00	0.00	
6	0.00	0.00	1.78	1.44	1.61	38.22	41.55	3.46	1.95	0.26	0.00	0.00	
7	0.00	0.00	1.61	1.44	1.61	38.39	39.07	3.46	2.12	0.20	0.00	0.00	
8	0.00	0.00	1.61	1.44	1.61	38.05	34.82	3.24	2.12	0.20	0.00	0.00	
9	0.00	0.00	1.27	1.27	1.61	34.65	32.45	3.02	2.12	0.16	0.00	0.00	
10	0.00	0.00	1.10	1.44	1.44	31.46	31.22	2.80	2.63	0.10	0.00	0.00	
11	0.00	0.00	1.10	1.44	1.44	28.70	32.75	2.80	2.63	0.10	0.00	0.00	
12	0.00	0.00	1.10	1.44	1.44	26.50	33.80	2.80	2.63	0.06	0.00	0.00	
13	0.00	0.00	1.03	1.27	1.27	22.40	33.50	3.02	2.63	0.02	0.00	0.00	
14	0.00	0.00	0.96	1.27	1.03	10.80	32.30	3.24	2.46	0.02	0.00	0.00	
15	0.00	0.00	0.96	1.27	1.44	18.50	31.46	3.24	2.12	0.00	0.00	0.00	
16	0.00	0.00	1.10	1.27	1.44	31.22	29.80	3.02	2.29	0.00	0.00	0.00	
17	0.00	0.00	1.10	1.27	1.95	40.98	27.70	3.02	2.12	0.00	0.00	0.00	
18	0.00	0.00	1.03	1.27	1.61	47.44	25.70	3.02	1.95	0.00	0.00	0.00	
19	0.00	0.00	0.89	1.44	1.61	54.08	18.50	3.02	1.95	0.00	0.00	0.00	
20	0.00	0.00	1.95	1.44	2.80	59.72	12.00	3.02	1.95	0.00	0.00	0.00	
21	0.00	0.00	1.61	1.44	2.63	62.60	10.40	3.02	1.78	0.00	0.00	0.00	
22	0.00	0.00	1.44	1.44	2.46	65.24	10.00	3.02	1.61	0.00	0.00	0.00	
23	0.00	0.00	1.78	1.44	2.63	67.32	9.20	3.02	1.27	0.00	0.00	0.00	
24	0.00	0.00	1.44	1.44	2.63	68.44	7.70	3.24	1.03	0.00	0.00	0.00	
25	0.00	0.00	1.44	1.44	3.24	68.16	7.10	3.02	0.96	0.00	0.00	0.00	
26	0.00	0.00	1.44	1.27	5.90	71.24	6.80	3.02	0.89	0.00	0.00	0.00	
27	0.00	0.00	1.44	1.27	7.70	75.72	6.50	3.02	0.82	0.00	0.00	0.00	
28	0.00	0.00	1.44	1.27	7.40	77.12	6.20	3.02	0.75	0.00	0.00	0.00	
29	0.00	0.68	1.44	1.10	7.40	77.40	5.90	3.02	0.68	0.00		0.00	
30	0.00	1.03	1.61	1.10	8.00	75.44	5.00	2.63	0.68	0.00		0.00	
31		1.95		1.44	9.20		5.00		0.61	0.00		0.00	
Total	0.00	3.66	44.44	42.77	92.34	1408.69	820.67	95.05	55.86	2.82	0.00	0.00	2566.30 CMSDAY
Mean	0.00	0.12	1.48	1.38	2.98	46.96	26.47	3.17	1.80	0.09	0.00	0.00	7.03 CMS
Max	0.00	1.95	2.80	1.61	9.20	77.40	70.68	4.34	2.63	0.38	0.00	0.00	77.40 CMS
Min	0.00	0.00	0.89	1.10	1.03	10.80	5.00	2.63	0.61	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.316	3.840	3.695	7.978	121.711	70.906	8.212	4.826	0.244	0.000	0.000	221.728 MCM

Momentary Peak 77.68 CMS, at 6.61 M (A.D), at 6.00 Hours, on Sep 29, 1994

Runoff Yield 3.92 Liters/Second/Square KM, Momentary Peak Yield 43.30 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

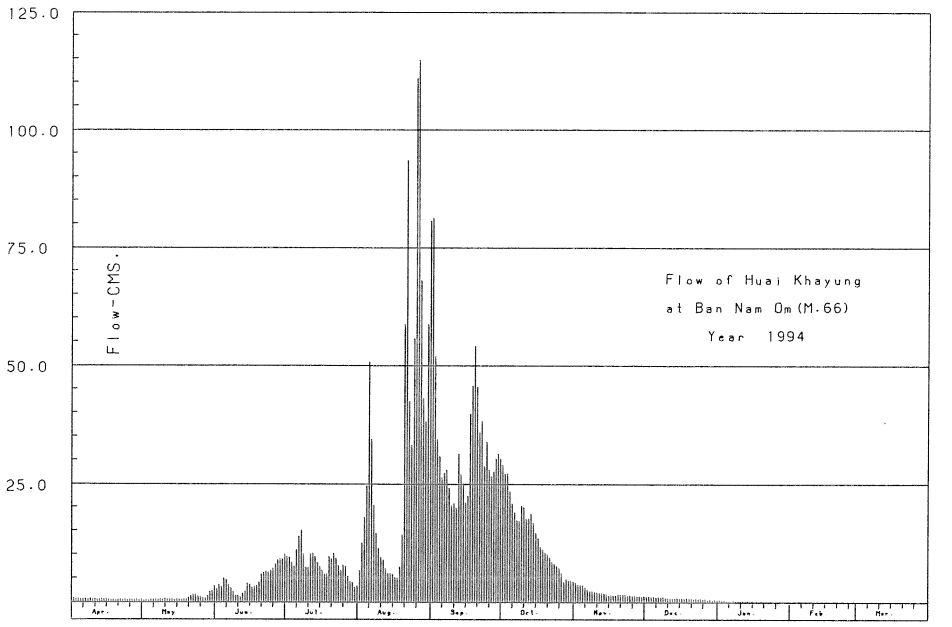
Huai Khayung at Ban Nam Om, Si Sa Ket (M.66)

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 good. Stage-discharge relation defined by 30 discharge discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.32	-0.39	-0.08	0.36	0.19	3.14	1.28	0.02	-0.25	-0.40	-0.45	-0.49	
2	-0.35	-0.39	-0.02	0.35	0.51	2.18	1.20	-0.02	-0.25	-0.40	-0.45	-0.49	
3	-0.35	-0.39	-0.05	0.29	0.78	1.51	1.20	-0.02	-0.26	-0.41	-0.45	-0.49	
4	-0.35	-0.38	0.08	0.24	1.09	1.36	1.04	-0.03	-0.26	-0.42	-0.45	-0.49	
5	-0.35	-0.38	0.07	0.44	2.14	1.16	0.92	-0.06	-0.27	-0.43	-0.45	-0.49	
6	-0.35	-0.38	-0.02	0.58	1.51	1.21	0.83	-0.10	-0.27	-0.43	-0.46	-0.49	
7	-0.35	-0.37	-0.07	0.65	0.91	1.23	0.75	-0.12	-0.27	-0.43	-0.46	-0.49	
8	-0.35	-0.37	-0.14	0.39	0.62	1.07	0.74	-0.13	-0.27	-0.43	-0.46	-0.49	
9	-0.35	-0.36	-0.20	0.23	0.45	0.90	0.90	-0.14	-0.29	-0.43	-0.46	-0.49	
10	-0.36	-0.35	-0.23	0.22	0.35	0.92	0.88	-0.15	-0.32	-0.43	-0.46	-0.49	
11	-0.36	-0.35	-0.26	0.39	0.32	0.88	0.76	-0.15	-0.32	-0.44	-0.47	-0.50	
12	-0.36	-0.35	-0.17	0.40	0.21	1.38	0.77	-0.16	-0.32	-0.43	-0.47	-0.50	
13	-0.35	-0.36	-0.12	0.36	0.15	1.19	0.82	-0.16	-0.32	-0.43	-0.47	-0.50	
14	-0.35	-0.37	0.00	0.29	0.15	1.11	0.72	-0.18	-0.32	-0.43	-0.47	-0.50	
15	-0.35	-0.37	-0.01	0.24	0.14	0.93	0.62	-0.20	-0.32	-0.43	-0.47	-0.50	
16	-0.38	-0.38	-0.06	0.19	0.10	0.99	0.56	-0.20	-0.32	-0.44	-0.47	-0.50	
17	-0.38	-0.38	-0.05	0.14	0.09	1.74	0.47	-0.20	-0.32	-0.44	-0.47	-0.51	
18	-0.38	-0.36	-0.03	0.14	0.23	1.96	0.44	-0.21	-0.32	-0.44	-0.47	-0.51	
19	-0.38	-0.34	0.02	0.36	0.60	2.26	0.41	-0.18	-0.32	-0.44	-0.47	-0.51	
20	-0.38	-0.30	0.14	0.33	2.42	1.95	0.39	-0.19	-0.34	-0.44	-0.47	-0.51	
21	-0.38	-0.20	0.16	0.40	3.49	1.58	0.35	-0.18	-0.34	-0.45	-0.47	-0.51	
22	-0.38	-0.18	0.18	0.34	1.84	1.67	0.29	-0.19	-0.34	-0.45	-0.48	-0.49	
23	-0.38	-0.19	0.16	0.25	1.46	1.27	0.27	-0.20	-0.34	-0.45	-0.48	-0.49	
24	-0.38	-0.23	0.19	0.19	2.32	1.49	0.24	-0.20	-0.34	-0.45	-0.48	-0.48	
25	-0.38	-0.27	0.21	0.25	3.96	1.23	0.22	-0.22	-0.35	-0.45	-0.48	-0.48	
26	-0.38	-0.31	0.27	0.24	4.06	1.17	0.15	-0.22	-0.36	-0.45	-0.48	-0.47	
27	-0.38	-0.31	0.32	0.12	2.73	1.22	0.03	-0.23	-0.38	-0.45	-0.48	-0.46	
28	-0.38	-0.20	0.33	0.03	1.86	1.34	0.07	-0.24	-0.38	-0.45	-0.48	-0.45	
29	-0.38	-0.14	0.33	0.02	1.67	1.38	0.05	-0.24	-0.39	-0.45		-0.44	
30	-0.38	-0.11	0.39	-0.06	2.42	1.34	0.04	-0.24	-0.39	-0.45		-0.42	
31		-0.04		-0.04	3.12		0.03		-0.39	-0.45		-0.42	
Mean	-0.37	-0.31	0.04	0.27	1.35	1.43	0.56	-0.16	-0.32	-0.44	-0.47	-0.49	
Max	-0.32	-0.04	0.39	0.65	4.06	3.14	1.28	0.02	-0.25	-0.40	-0.45	-0.42	4.06
Min	-0.38	-0.39	-0.26	-0.06	0.09	0.88	0.03	-0.24	-0.39	-0.45	-0.48	-0.51	-0.51

Annual Max Momentary Gage Height 4.48 M (A.D), at 24.00 Hours, on Aug 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.67 M (A.D)
Left Bank Elevation 6.37 M (A.D)
Right Bank Elevation 7.99 M (A.D), Drainage Area 586 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.90	0.55	2.96	9.72	6.83	81.40	29.14	4.26	1.25	0.50	0.25	0.05	
2	0.75	0.55	3.74	9.55	12.60	52.04	27.30	3.74	1.25	0.50	0.25	0.05	
3	0.75	0.55	3.35	8.53	18.00	34.44	27.30	3.74	1.20	0.45	0.25	0.05	
4	0.75	0.60	5.04	7.68	24.77	30.98	23.62	3.61	1.20	0.40	0.25	0.05	
5	0.75	0.60	4.91	11.20	50.92	26.38	20.94	3.22	1.15	0.35	0.25	0.05	
6	0.75	0.60	3.74	14.00	34.44	27.53	19.03	2.70	1.15	0.35	0.20	0.05	
7	0.75	0.65	3.09	15.40	20.72	27.99	17.40	2.46	1.15	0.35	0.20	0.05	
8	0.75	0.65	2.22	10.23	14.80	24.31	17.20	2.34	1.15	0.35	0.20	0.05	
9	0.75	0.70	1.50	7.51	11.40	20.50	20.50	2.22	1.05	0.35	0.20	0.05	
10	0.70	0.75	1.35	7.34	9.55	20.94	20.08	2.10	0.90	0.35	0.20	0.05	
11	0.70	0.75	1.20	10.23	9.04	20.08	17.60	2.10	0.90	0.30	0.15	0.00	
12	0.70	0.75	1.86	10.40	7.17	31.44	17.80	1.98	0.90	0.35	0.15	0.00	
13	0.75	0.70	2.46	9.72	6.15	27.07	18.82	1.98	0.90	0.35	0.15	0.00	
14	0.75	0.65	4.00	8.53	6.15	25.23	16.80	1.74	0.90	0.35	0.15	0.00	
15	0.75	0.65	3.87	7.68	5.98	21.16	14.80	1.50	0.90	0.35	0.15	0.00	
16	0.60	0.60	3.22	6.83	5.30	22.48	13.60	1.50	0.90	0.30	0.15	0.00	
17	0.60	0.60	3.35	5.98	5.17	40.00	11.80	1.50	0.90	0.30	0.15	0.00	
18	0.60	0.70	3.61	5.98	7.51	45.88	11.20	1.45	0.90	0.30	0.15	0.00	
19	0.60	0.80	4.26	9.72	14.40	54.28	10.60	1.74	0.90	0.30	0.15	0.00	
20	0.60	1.00	5.98	9.21	58.76	45.60	10.23	1.62	0.80	0.30	0.15	0.00	
21	0.60	1.50	6.32	10.40	93.65	36.12	9.55	1.74	0.80	0.25	0.15	0.00	
22	0.60	1.74	6.66	9.38	42.58	38.28	8.53	1.62	0.80	0.25	0.10	0.05	
23	0.60	1.62	6.32	7.85	33.28	28.91	8.19	1.50	0.80	0.25	0.10	0.05	
24	0.60	1.35	6.83	6.83	55.96	33.97	7.68	1.50	0.80	0.25	0.10	0.10	
25	0.60	1.15	7.17	7.85	111.08	27.99	7.34	1.40	0.75	0.25	0.10	0.10	
26	0.60	0.95	8.19	7.68	114.88	26.61	6.15	1.40	0.70	0.25	0.10	0.15	
27	0.60	0.95	9.04	5.64	68.16	27.76	4.39	1.35	0.60	0.25	0.10	0.20	
28	0.60	1.50	9.21	4.39	43.12	30.52	4.91	1.30	0.60	0.25	0.10	0.25	
29	0.60	2.22	9.21	4.26	38.28	31.44	4.65	1.30	0.55	0.25		0.30	
30	0.60	2.58	10.23	3.22	58.76	30.52	4.52	1.30	0.55	0.25		0.40	
31		3.48		3.48	80.70		4.39		0.55	0.25		0.40	
Total	20.25	32.44	144.89	256.42	1070.11	991.85	436.06	61.91	27.85	9.90	4.60	2.50	3058.78 CMSDAY
Mean	0.68	1.05	4.83	8.27	34.52	33.06	14.07	2.06	0.90	0.32	0.16	0.08	8.38 CMS
Max	0.90	3.48	10.23	15.40	114.88	81.40	29.14	4.26	1.25	0.50	0.25	0.40	114.88 CMS
Min	0.60	0.55	1.20	3.22	5.17	20.08	4.39	1.30	0.55	0.25	0.10	0.00	0.00 CMS
Runoff	1.750	2.803	12.518	22.155	92.458	85.696	37.676	5.349	2.406	0.855	0.397	0.216	264.279 MCM

Momentary Peak 130.84 CMS, at 4.48 M (A.D), at 24.00 Hours, on Aug 25, 1994

Runoff Yield 14.30 Liters/Second/Square KM, Momentary Peak Yield 223.28 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

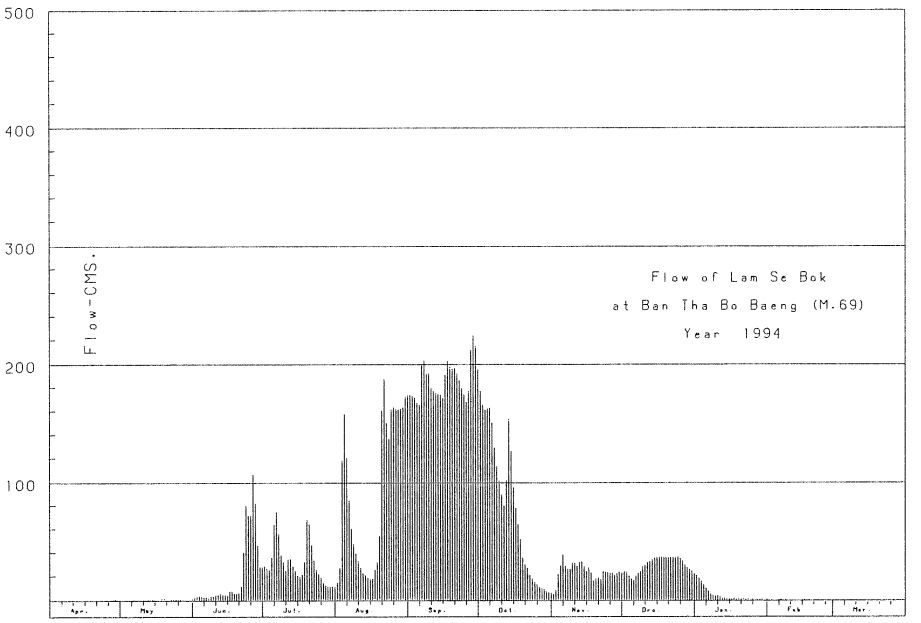
Lam Se Bok at Ban Tha Bo Baeng, Ubon Ratchathani (M.69)

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	Overbank flow starts at elevation +6.96 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	0.62	0.91	2.35	1.80	6.33	6.46	2.15	1.84	1.80	1.21	1.01	
2	0.62	0.61	1.03	2.26	2.28	6.26	5.90	2.09	1.83	1.78	1.20	1.00	
3	0.61	0.59	1.04	2.24	4.23	6.22	5.40	2.05	1.80	1.75	1.18	0.99	
4	0.60	0.59	1.03	2.56	4.82	5.97	5.10	2.03	1.77	1.72	1.16	0.97	
5	0.59	0.57	0.99	3.24	4.27	5.92	4.93	1.99	1.76	1.69	1.14	0.97	
6	0.59	0.57	0.94	3.46	3.64	7.15	4.77	1.89	1.80	1.66	1.12	0.96	
7	0.58	0.57	0.92	3.05	3.16	7.25	4.56	1.86	1.82	1.64	1.12	0.96	
8	0.56	0.59	1.00	2.64	2.86	6.94	4.39	1.86	1.84	1.62	1.11	0.95	
9	0.55	0.60	1.06	2.45	2.68	6.94	4.26	1.91	1.88	1.62	1.10	0.95	
10	0.54	0.63	1.12	2.22	2.48	6.53	4.12	1.91	1.89	1.62	1.09	0.95	
11	0.53	0.67	1.21	2.52	2.29	6.46	4.01	1.89	1.92	1.61	1.09	0.95	
12	0.53	0.68	1.26	2.53	2.14	6.37	4.26	1.92	1.93	1.58	1.08	0.95	
13	0.54	0.67	1.19	2.34	2.05	6.35	4.80	1.93	1.94	1.56	1.08	0.94	
14	0.53	0.65	1.15	2.20	1.98	6.31	4.53	1.88	1.96	1.54	1.07	0.92	
15	0.53	0.63	1.12	2.06	1.93	6.20	4.20	1.84	1.96	1.52	1.06	0.91	
16	0.53	0.63	1.41	2.00	1.93	6.92	3.98	1.87	1.97	1.49	1.05	0.89	
17	0.53	0.74	1.39	2.09	2.24	7.26	3.80	1.83	1.97	1.47	1.06	0.88	
18	0.52	0.76	1.27	2.47	2.44	7.10	3.58	1.76	1.97	1.44	1.06	0.87	
19	0.51	0.90	1.27	3.32	3.03	7.05	3.29	1.77	1.97	1.43	1.06	0.86	
20	0.51	0.86	1.32	3.25	4.86	7.08	3.16	1.78	1.97	1.41	1.06	0.85	
21	0.51	0.79	1.64	2.85	5.19	6.94	3.10	1.77	1.97	1.41	1.05	0.85	
22	0.53	0.78	2.70	2.49	4.71	6.77	2.93	1.84	1.97	1.40	1.05	0.84	
23	0.61	0.74	3.56	2.22	4.52	6.55	2.81	1.83	1.97	1.39	1.04	0.84	
24	0.67	0.68	3.40	2.11	5.40	6.32	2.71	1.83	1.97	1.37	1.04	0.84	
25	0.67	0.67	3.39	1.97	5.71	6.04	2.61	1.82	1.95	1.35	1.02	0.84	
26	0.65	0.66	4.04	1.79	5.45	6.44	2.52	1.82	1.93	1.33	1.01	0.83	
27	0.65	0.64	3.60	1.67	5.11	7.48	2.48	1.81	1.90	1.31	1.01	0.83	
28	0.63	0.63	2.83	1.60	5.11	7.80	2.38	1.82	1.87	1.29	1.01	0.82	
29	0.63	0.63	2.32	1.62	5.69	7.56	2.28	1.83	1.86	1.27		0.81	
30	0.63	0.63	2.30	1.61	6.25	7.04	2.20	1.82	1.84	1.26		0.80	
31		0.83		1.59	6.29		2.18		1.82	1.24		0.81	
Mean	0.58	0.67	1.75	2.35	3.76	6.72	3.80	1.88	1.90	1.50	1.08	0.90	
Max	0.67	0.90	4.04	3.46	6.29	7.80	6.46	2.15	1.97	1.80	1.21	1.01	7.80
Min	0.51	0.57	0.91	1.59	1.80	5.92	2.18	1.76	1.76	1.24	1.01	0.80	0.51

Annual Max Momentary Gage Height 7.83 M (A.D), at 18.00 Hours, on Sep 28, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.40 M (A.D)
Left Bank Elevation 7.30 M (A.D)
Right Bank Elevation 6.95 M (A.D), Drainage Area 2132 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.60	2.10	29.50	15.50	174.75	178.00	5.75	24.80	21.00	1.02	0.62	
2	0.60	0.55	3.30	26.80	27.40	173.20	166.00	8.50	23.85	19.10	1.00	0.60	
3	0.55	0.47	3.40	26.20	118.80	172.40	162.00	22.50	21.00	16.25	0.96	0.59	
4	0.50	0.47	3.30	36.10	158.40	167.40	162.50	29.50	18.15	13.40	0.92	0.57	
5	0.47	0.41	2.90	64.80	121.20	166.40	163.70	39.05	17.20	10.55	0.88	0.57	
6	0.47	0.41	2.40	75.50	84.70	199.75	151.00	29.55	21.00	7.70	0.84	0.56	
7	0.44	0.41	2.20	56.25	61.20	203.25	130.00	26.70	22.90	5.80	0.84	0.56	
8	0.38	0.47	3.00	38.90	47.70	192.40	113.60	26.70	24.80	3.90	0.82	0.55	
9	0.35	0.50	3.60	32.50	40.30	192.40	101.90	31.45	28.60	3.90	0.80	0.55	
10	0.32	0.65	4.20	25.60	33.40	179.90	89.70	31.45	29.55	3.90	0.78	0.55	
11	0.29	0.85	5.10	34.70	27.70	178.00	80.80	29.55	32.40	2.95	0.78	0.55	
12	0.29	0.90	5.60	35.05	23.50	175.75	101.90	32.40	33.35	1.92	0.76	0.55	
13	0.32	0.85	4.90	29.20	21.25	175.25	154.00	33.35	34.30	1.84	0.76	0.54	
14	0.29	0.75	4.50	25.00	19.50	174.25	127.00	28.60	36.20	1.76	0.74	0.52	
15	0.29	0.65	4.20	21.50	18.25	172.00	96.50	24.80	36.20	1.68	0.72	0.51	
16	0.29	0.65	7.92	20.00	18.25	191.70	78.40	27.65	37.15	1.58	0.70	0.49	
17	0.29	1.20	7.58	22.25	26.20	203.60	65.00	23.85	37.15	1.54	0.72	0.48	
18	0.26	1.30	5.70	33.10	32.20	198.00	51.90	17.20	37.15	1.48	0.72	0.47	
19	0.23	2.00	5.70	68.50	55.35	196.25	36.50	18.15	37.15	1.46	0.72	0.46	
20	0.23	1.80	6.35	65.25	161.20	197.30	30.40	19.10	37.15	1.42	0.72	0.45	
21	0.23	1.45	12.30	47.25	187.20	192.40	28.00	18.15	37.15	1.42	0.70	0.45	
22	0.29	1.40	41.00	33.70	150.70	187.10	21.90	24.80	37.15	1.40	0.70	0.44	
23	0.55	1.20	80.50	25.60	137.40	180.50	18.30	23.85	37.15	1.38	0.68	0.44	
24	0.85	0.90	72.50	22.75	162.00	174.50	15.75	23.85	37.15	1.34	0.68	0.44	
25	0.85	0.85	72.00	19.25	164.10	168.80	13.25	22.90	35.25	1.30	0.64	0.44	
26	0.75	0.80	107.40	15.30	162.25	177.50	11.40	22.90	33.35	1.26	0.62	0.43	
27	0.75	0.70	82.50	12.90	162.45	212.20	10.70	21.95	30.50	1.22	0.62	0.43	
28	0.65	0.65	46.35	11.50	162.45	225.00	9.20	22.90	27.65	1.18	0.62	0.42	
29	0.65	0.65	28.60	11.90	163.90	215.40	7.70	23.85	26.70	1.14		0.41	
30	0.65	0.65	28.00	11.70	173.00	195.90	6.50	22.90	24.80	1.12		0.40	
31		1.65		11.30	173.80		6.20		22.90	1.08		0.41	
Total	13.73	26.79	659.10	989.85	2911.25	5613.25	2389.70	733.85	939.80	136.97	21.46	15.45	14451.20 CMSDAY
Mean	0.46	0.86	21.97	31.93	93.91	187.11	77.09	24.46	30.32	4.42	0.77	0.50	39.59 CMS
Max	0.85	2.00	107.40	75.50	187.20	225.00	178.00	39.05	37.15	21.00	1.02	0.62	225.00 CMS
Min	0.23	0.41	2.10	11.30	15.50	166.40	6.20	5.75	17.20	1.08	0.62	0.40	0.23 CMS
Runoff	1.186	2.315	56.946	85.523	251.532	484.985	206.470	63.405	81.199	11.834	1.854	1.335	1248.584 MCM

Momentary Peak 226.35 CMS, at 7.83 M (A.D), at 18.00 Hours, on Sep 28, 1994

Runoff Yield 18.57 Liters/Second/Square KM, Momentary Peak Yield 106.17 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

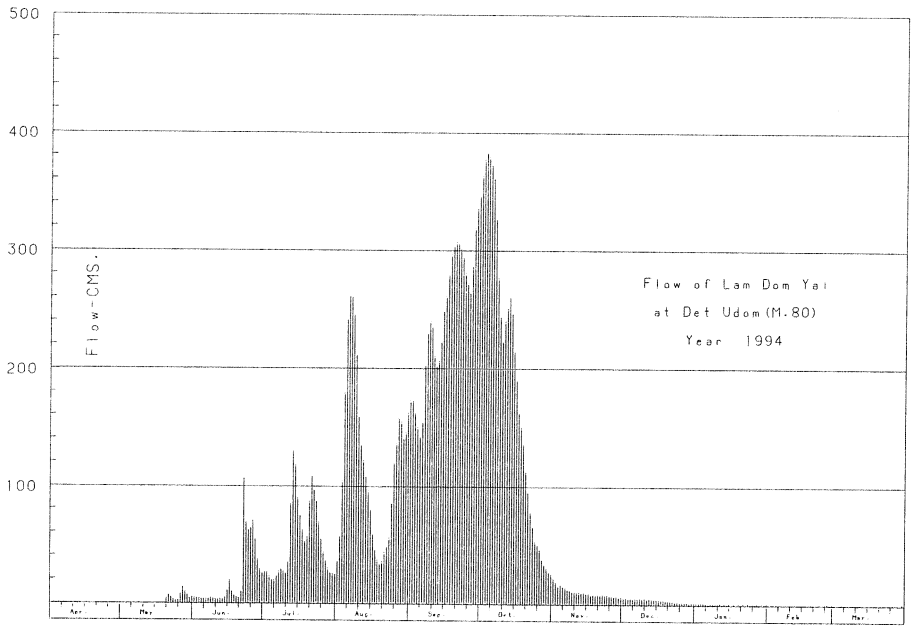
Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80)

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 good. Stage-discharge relation defined by 25 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.45	121.43	121.58	119.08	119.29	121.95	125.23	119.02	121.60	121.50	121.46	121.47	
2	121.45	121.43	121.58	119.09	119.74	121.98	125.46	119.55	121.60	121.50	121.46	121.46	
3	121.46	121.43	121.57	119.01	120.70	121.76	125.55	121.73	121.59	121.50	121.46	121.46	
4	121.45	121.43	121.56	118.94	122.07	121.54	125.49	121.74	121.59	121.50	121.46	121.46	
5	121.45	121.43	121.55	118.93	123.18	121.39	125.38	121.73	121.59	121.49	121.45	121.46	
6	121.45	121.43	121.55	119.02	123.55	121.61	125.19	121.72	121.59	121.48	121.45	121.46	
7	121.44	121.43	121.56	119.10	123.51	122.49	124.62	121.71	121.59	121.48	121.45	121.46	
8	121.44	121.44	121.57	119.14	123.27	122.99	123.79	121.70	121.59	121.48	121.45	121.46	
9	121.44	121.42	121.57	119.10	122.65	123.16	123.22	121.69	121.59	121.48	121.45	121.46	
10	121.43	121.43	121.54	119.07	121.70	123.06	122.85	121.68	121.59	121.48	121.45	121.46	
11	121.43	121.44	121.55	119.27	121.26	122.63	123.15	121.68	121.58	121.48	121.45	121.45	
12	121.44	121.43	121.55	120.31	121.02	122.48	123.34	121.68	121.58	121.48	121.45	121.45	
13	121.44	121.43	121.55	121.20	120.77	122.56	123.51	121.67	121.58	121.48	121.45	121.45	
14	121.42	121.43	121.58	120.95	120.54	122.84	123.27	121.67	121.57	121.48	121.45	121.45	
15	121.43	121.43	121.69	120.41	120.24	123.30	122.69	121.66	121.57	121.48	121.45	121.45	
16	121.43	121.43	121.77	120.11	119.78	123.53	122.26	121.66	121.56	121.47	121.45	121.44	
17	121.43	121.43	121.67	119.85	119.50	123.83	121.76	121.64	121.56	121.47	121.45	121.44	
18	121.43	121.45	121.62	119.65	119.32	124.12	121.54	121.64	121.55	121.47	121.45	121.44	
19	121.43	121.47	121.59	119.73	119.24	124.23	121.28	121.64	121.55	121.47	121.46	121.44	
20	121.43	121.56	121.57	120.35	119.29	124.29	120.85	121.64	121.54	121.47	121.46	121.44	
21	121.43	121.63	121.68	120.78	119.46	124.27	120.51	121.64	121.54	121.47	121.47	121.44	
22	121.43	121.59	120.74	120.54	119.56	124.19	120.16	121.64	121.52	121.47	121.47	121.44	
23	121.42	121.54	119.98	120.35	119.72	124.08	119.92	121.64	121.52	121.47	121.47	121.44	
24	121.44	121.52	119.84	119.99	120.31	123.86	119.66	121.64	121.52	121.47	121.47	121.44	
25	121.43	121.52	119.89	119.69	120.98	123.72	119.60	121.63	121.51	121.47	121.47	121.44	
26	121.43	121.64	120.01	119.46	121.29	123.57	119.51	121.62	121.51	121.47	121.47	121.45	
27	121.43	121.72	119.69	119.30	121.68	123.95	119.32	121.62	121.51	121.47	121.47	121.46	
28	121.42	121.67	119.33	119.17	121.62	124.50	119.24	121.62	121.50	121.47	121.47	121.47	
29	121.42	121.63	119.14	119.08	121.36	124.76	119.16	121.61	121.50	121.47		121.47	
30	121.42	121.56	119.07	119.06	121.46	124.94	119.10	121.61	121.50	121.47		121.47	
31		121.60		119.04	121.76		119.06		121.50	121.47		121.47	
Mean	121.43	121.50	121.04	119.64	120.96	123.25	122.12	121.50	121.55	121.48	121.46	121.45	
Max	121.46	121.72	121.77	121.20	123.55	124.94	125.55	121.74	121.60	121.50	121.47	121.47	125.55
Min	121.42	121.42	119.07	118.93	119.24	121.39	119.06	119.02	121.50	121.47	121.45	121.44	118.93

Annual Max Momentary Gage Height 125.56 M (MSL), at 6.00 Hours, on Oct 3, 1994
Zero Gage at Bottom Elevation 177.26 M (MSL), River Bed 117.11 M (MSL)
Left Bank Elevation 130.68 M (MSL)
Right Bank Elevation 127.00 M (MSL), Drainage Area 3363 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	0.60	5.20	26.68	36.34	173.25	363.80	22.36	6.00	2.00	1.20	1.40	
2	1.00	0.60	5.20	27.14	57.52	174.90	377.60	18.98	6.00	2.00	1.20	1.20	
3	1.20	0.60	4.80	23.46	105.00	162.80	383.00	15.60	5.60	2.00	1.20	1.20	
4	1.00	0.60	4.40	20.60	179.85	150.70	379.40	16.80	5.60	2.00	1.20	1.20	
5	1.00	0.60	4.00	20.20	242.26	142.45	372.80	15.60	5.60	1.80	1.00	1.20	
6	1.00	0.60	4.00	23.92	263.50	154.55	361.40	14.40	5.60	1.60	1.00	1.20	
7	0.80	0.60	4.40	27.60	261.18	203.04	327.20	13.20	5.60	1.60	1.00	1.20	
8	0.80	0.80	4.80	29.44	247.39	231.43	277.42	12.00	5.60	1.60	1.00	1.20	
9	0.80	0.40	4.80	27.60	212.05	241.12	244.54	11.40	5.60	1.60	1.00	1.20	
10	0.60	0.60	3.60	26.22	159.50	235.42	223.45	10.80	5.60	1.60	1.00	1.20	
11	0.60	0.80	4.00	35.42	135.30	210.91	240.55	10.80	5.20	1.60	1.00	1.00	
12	0.80	0.60	4.00	85.50	122.10	202.48	251.38	10.80	5.20	1.60	1.00	1.00	
13	0.80	0.60	4.00	132.00	108.50	206.96	261.18	10.20	5.20	1.60	1.00	1.00	
14	0.40	0.60	5.20	118.25	97.00	222.88	247.39	10.20	4.80	1.60	1.00	1.00	
15	0.60	0.60	11.40	90.50	82.00	249.10	214.33	9.60	4.80	1.60	1.00	1.00	
16	0.60	0.60	20.40	75.50	59.44	262.34	190.30	9.60	4.40	1.40	1.00	0.80	
17	0.60	0.60	10.20	62.80	46.00	279.80	162.80	8.40	4.40	1.40	1.00	0.80	
18	0.60	1.00	7.20	53.20	37.72	297.20	150.70	8.40	4.00	1.40	1.00	0.80	
19	0.60	1.40	5.60	57.04	34.04	303.80	136.40	8.40	4.00	1.40	1.20	0.80	
20	0.60	4.40	4.80	87.50	36.34	307.40	112.75	8.40	3.60	1.40	1.20	0.80	
21	0.60	7.80	10.80	109.00	44.16	306.20	95.50	8.40	3.60	1.40	1.40	0.80	
22	0.60	5.60	107.00	97.00	48.88	301.40	78.00	8.40	2.80	1.40	1.40	0.80	
23	0.40	3.60	69.04	87.50	56.56	294.80	66.16	8.40	2.80	1.40	1.40	0.80	
24	0.80	2.80	62.32	69.52	85.50	281.60	53.68	8.40	2.80	1.40	1.40	0.80	
25	0.60	2.80	64.72	55.12	119.90	273.36	50.80	7.80	2.40	1.40	1.40	0.80	
26	0.60	8.40	70.50	44.16	136.95	264.66	46.48	7.20	2.40	1.40	1.40	1.00	
27	0.60	14.40	55.12	36.80	158.40	287.00	37.72	7.20	2.40	1.40	1.40	1.20	
28	0.40	10.20	38.18	30.82	155.10	320.00	34.04	7.20	2.00	1.40	1.40	1.40	
29	0.40	7.80	29.44	26.68	140.80	335.60	30.36	6.60	2.00	1.40		1.40	
30	0.40	4.40	26.22	25.76	146.30	346.40	27.60	6.60	2.00	1.40		1.40	
31		6.00		24.84	162.80		25.76		2.00	1.40		1.40	
Total	20.80	91.00	655.34	1657.77	3778.38	7423.55	5824.49	322.14	129.60	48.20	32.40	33.00	20016.67 CMSDAY
Mean	0.69	2.94	21.84	53.48	121.88	247.45	187.89	10.74	4.18	1.55	1.16	1.06	54.84 CMS
Max	1.20	14.40	107.00	132.00	263.50	346.40	383.00	22.36	6.00	2.00	1.40	1.40	383.00 CMS
Min	0.40	0.40	3.60	20.20	34.04	142.45	25.76	6.60	2.00	1.40	1.00	0.80	0.40 CMS
Runoff	1.797	7.862	56.621	143.231	326.452	641.395	503.236	27.833	11.197	4.164	2.799	2.851	1729.440 MCM

Momentary Peak 383.60 CMS, at 125.56 M (MSL), at 6.00 Hours, on Oct 3, 1994

Runoff Yield 16.31 Liters/Second/Square KM, Momentary Peak Yield 114.06 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

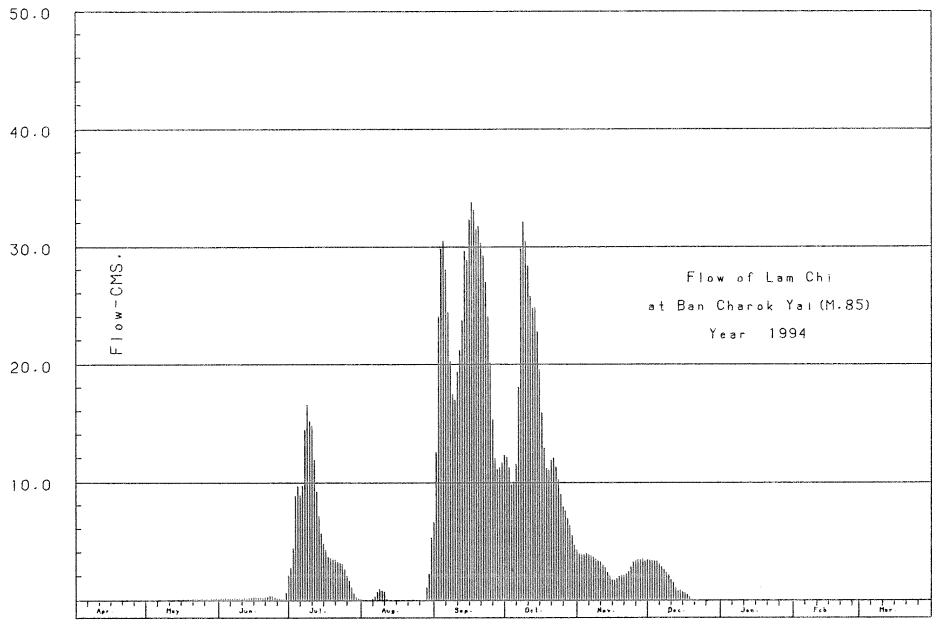
Lam Chi at Ban Charok Yai, Buri Ram (M.85)

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, Tambon Lavia, Amphoe Prakhon Chai, Buri Ram.
Drainage Area	1,046 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+6.546 m.(A.D.)
Gage Reading Frequency	3-5 time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3-5 readings.
Period of Available Gage Records	1969 - 1971, 1979 to date.
Rating Operation	
Period of Rating	1969 - 1971, 1979, 1981 to date.
Rated by Float	-
Rated by Current Meter	1969 - 1971, 1979, 1981 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.34	0.48	1.17	0.43	2.28	2.24	1.37	1.29	0.33	0.12	0.18	
2	0.34	0.35	0.50	1.43	0.39	3.00	2.16	1.35	1.28	0.29	0.13	0.18	
3	0.34	0.34	0.50	1.94	0.38	3.29	2.03	1.36	1.28	0.22	0.12	0.17	
4	0.34	0.35	0.50	2.02	0.35	3.32	2.05	1.37	1.27	0.19	0.12	0.17	
5	0.34	0.34	0.49	1.95	0.46	3.20	2.19	1.36	1.24	0.17	0.11	0.17	
6	0.35	0.34	0.49	2.02	0.54	3.02	2.66	1.34	1.19	0.16	0.10	0.18	
7	0.35	0.34	0.49	2.42	0.68	2.79	3.29	1.33	1.15	0.16	0.12	0.19	
8	0.35	0.34	0.49	2.56	0.74	2.62	3.40	1.30	1.09	0.16	0.12	0.18	
9	0.35	0.34	0.50	2.47	0.71	2.59	3.32	1.28	1.05	0.15	0.13	0.18	
10	0.35	0.34	0.50	2.44	0.68	2.74	3.22	1.26	0.94	0.15	0.13	0.18	
11	0.34	0.36	0.50	2.22	0.49	2.84	3.09	1.22	0.89	0.15	0.14	0.19	
12	0.33	0.39	0.50	1.98	0.40	2.98	3.04	1.18	0.77	0.15	0.15	0.18	
13	0.35	0.40	0.51	1.77	0.33	3.28	3.04	1.10	0.71	0.15	0.15	0.18	
14	0.37	0.40	0.52	1.59	0.31	3.24	2.93	1.02	0.72	0.15	0.15	0.19	
15	0.39	0.40	0.52	1.48	0.28	3.41	2.75	0.94	0.68	0.15	0.15	0.18	
16	0.39	0.40	0.52	1.41	0.30	3.48	2.52	0.93	0.65	0.16	0.16	0.18	
17	0.39	0.40	0.52	1.33	0.29	3.45	2.31	0.97	0.61	0.18	0.16	0.18	
18	0.38	0.42	0.51	1.31	0.27	3.37	2.16	1.01	0.54	0.18	0.16	0.18	
19	0.38	0.44	0.51	1.30	0.29	3.38	2.14	1.03	0.49	0.17	0.16	0.19	
20	0.37	0.45	0.52	1.29	0.31	3.31	2.22	1.03	0.42	0.15	0.17	0.19	
21	0.36	0.45	0.53	1.26	0.30	3.26	2.24	1.07	0.37	0.15	0.17	0.19	
22	0.37	0.45	0.57	1.25	0.45	3.15	2.17	1.11	0.35	0.15	0.16	0.19	
23	0.38	0.45	0.55	1.23	0.36	3.00	2.07	1.19	0.31	0.16	0.17	0.19	
24	0.37	0.44	0.52	1.15	0.35	2.78	1.96	1.26	0.29	0.17	0.17	0.20	
25	0.37	0.43	0.48	1.02	0.33	2.48	1.86	1.28	0.29	0.18	0.18	0.19	
26	0.36	0.43	0.45	0.92	0.30	2.23	1.82	1.29	0.28	0.18	0.18	0.18	
27	0.35	0.43	0.46	0.78	0.30	2.15	1.75	1.30	0.25	0.20	0.18	0.18	
28	0.35	0.44	0.48	0.63	0.78	2.16	1.67	1.30	0.25	0.19	0.18	0.18	
29	0.35	0.47	0.66	0.53	1.07	2.20	1.57	1.28	0.24	0.17		0.18	
30	0.35	0.47	1.04	0.46	1.54	2.26	1.46	1.29	0.24	0.14		0.18	
31		0.48		0.45	1.71		1.41		0.29	0.13		0.18	
Mean	0.36	0.40	0.53	1.48	0.52	2.91	2.35	1.20	0.69	0.17	0.15	0.18	
Max	0.39	0.48	1.04	2.56	1.71	3.48	3.40	1.37	1.29	0.33	0.18	0.20	3.48
Min	0.33	0.34	0.45	0.45	0.27	2.15	1.41	0.93	0.24	0.13	0.10	0.17	0.10

Annual Max Momentary Gage Height 3.49 M (A.D), at 6.00 Hours, on Sep 16, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -2.16 M (A.D)
Left Bank Elevation 4.34 M (A.D)
Right Bank Elevation 4.17 M (A.D), Drainage Area 1046 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.04	0.18	2.75	0.13	12.58	12.14	3.99	3.44	0.03	0.00	0.00	
2	0.04	0.05	0.20	4.44	0.09	24.10	11.26	3.85	3.38	0.00	0.00	0.00	
3	0.04	0.04	0.20	8.84	0.08	29.89	9.83	3.92	3.38	0.00	0.00	0.00	
4	0.04	0.05	0.20	9.72	0.05	30.51	10.05	3.99	3.32	0.00	0.00	0.00	
5	0.04	0.04	0.19	8.95	0.16	28.05	11.59	3.92	3.14	0.00	0.00	0.00	
6	0.05	0.04	0.19	9.72	0.32	24.48	18.10	3.78	2.85	0.00	0.00	0.00	
7	0.05	0.04	0.19	14.50	0.74	20.32	29.89	3.71	2.65	0.00	0.00	0.00	
8	0.05	0.04	0.19	16.60	0.96	17.50	32.15	3.50	2.36	0.00	0.00	0.00	
9	0.05	0.04	0.20	15.25	0.84	17.05	30.51	3.38	2.20	0.00	0.00	0.00	
10	0.05	0.04	0.20	14.80	0.74	19.42	28.46	3.26	1.76	0.00	0.00	0.00	
11	0.04	0.06	0.20	11.92	0.19	21.22	25.81	3.02	1.56	0.00	0.00	0.00	
12	0.03	0.09	0.20	9.28	0.10	23.74	24.86	2.80	1.08	0.00	0.00	0.00	
13	0.05	0.10	0.23	7.16	0.03	29.69	24.86	2.40	0.84	0.00	0.00	0.00	
14	0.07	0.10	0.26	5.72	0.01	28.87	22.84	2.08	0.88	0.00	0.00	0.00	
15	0.09	0.10	0.26	4.84	0.00	32.36	19.60	1.76	0.74	0.00	0.00	0.00	
16	0.09	0.10	0.26	4.28	0.00	33.79	16.00	1.72	0.65	0.00	0.00	0.00	
17	0.09	0.10	0.26	3.71	0.00	33.18	12.94	1.88	0.53	0.00	0.00	0.00	
18	0.08	0.12	0.23	3.57	0.00	31.53	11.26	2.04	0.32	0.00	0.00	0.00	
19	0.08	0.14	0.23	3.50	0.00	31.74	11.04	2.12	0.19	0.00	0.00	0.00	
20	0.07	0.15	0.26	3.44	0.01	30.30	11.92	2.12	0.12	0.00	0.00	0.00	
21	0.06	0.15	0.29	3.26	0.00	29.28	12.14	2.28	0.07	0.00	0.00	0.00	
22	0.07	0.15	0.41	3.20	0.15	27.03	11.37	2.45	0.05	0.00	0.00	0.00	
23	0.08	0.15	0.35	3.08	0.06	24.10	10.27	2.85	0.01	0.00	0.00	0.00	
24	0.07	0.14	0.26	2.65	0.05	20.14	9.06	3.26	0.00	0.00	0.00	0.00	
25	0.07	0.13	0.18	2.08	0.03	15.40	8.00	3.38	0.00	0.00	0.00	0.00	
26	0.06	0.13	0.15	1.68	0.00	12.03	7.60	3.44	0.00	0.00	0.00	0.00	
27	0.05	0.13	0.16	1.12	0.00	11.15	7.00	3.50	0.00	0.00	0.00	0.00	
28	0.05	0.14	0.18	0.59	1.12	11.26	6.36	3.50	0.00	0.00	0.00	0.00	
29	0.05	0.17	0.68	0.29	2.28	11.70	5.56	3.38	0.00	0.00		0.00	
30	0.05	0.17	2.16	0.16	5.32	12.36	4.68	3.44	0.00	0.00		0.00	
31		0.18		0.15	6.68		4.28		0.00	0.00		0.00	
Total	1.76	3.12	9.15	181.25	20.14	694.77	461.43	90.72	35.52	0.03	0.00	0.00	1497.89 CMSDAY
Mean	0.06	0.10	0.30	5.85	0.65	23.16	14.88	3.02	1.15	0.00	0.00	0.00	4.10 CMS
Max	0.09	0.18	2.16	16.60	6.68	33.79	32.15	3.99	3.44	0.03	0.00	0.00	33.79 CMS
Min	0.03	0.04	0.15	0.15	0.00	11.15	4.28	1.72	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.152	0.270	0.791	15.660	1.740	60.028	39.868	7.838	3.069	0.003	0.000	0.000	129.418 MCM

Momentary Peak 34.00 CMS, at 3.49 M (A.D), at 6.00 Hours, on Sep 16, 1994

Runoff Yield 3.92 Liters/Second/Square KM, Momentary Peak Yield 32.50 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

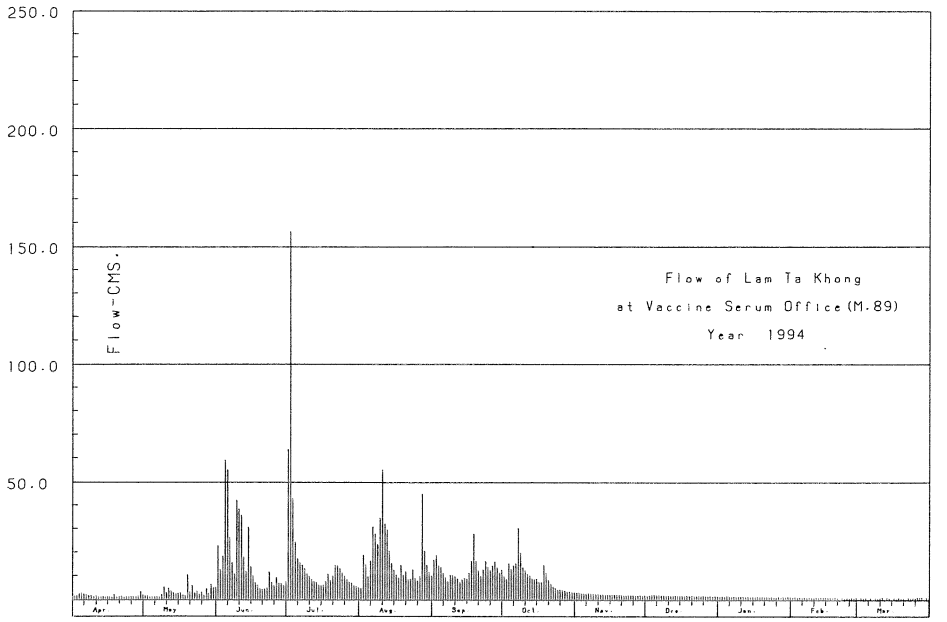
Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima (M.89)

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. Stage-discharge relation defined by 35 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.18	1.20	2.13	3.54	1.40	1.88	1.60	1.31	1.20	1.16	1.14	1.10	
2	1.18	1.19	1.72	6.31	1.97	1.96	1.56	1.31	1.20	1.16	1.14	1.10	
3	1.28	1.15	1.95	2.84	1.80	1.79	1.82	1.30	1.24	1.17	1.13	1.10	
4	1.29	1.15	3.38	2.19	1.60	1.76	1.73	1.29	1.23	1.17	1.13	1.10	
5	1.26	1.15	3.25	1.91	1.87	1.66	1.79	1.28	1.22	1.17	1.13	1.10	
6	1.22	1.14	2.25	1.83	2.43	1.58	1.82	1.28	1.21	1.17	1.13	1.10	
7	1.19	1.14	1.83	1.80	2.31	1.52	2.41	1.28	1.20	1.16	1.12	1.10	
8	1.17	1.22	1.65	1.73	2.15	1.63	2.00	1.26	1.20	1.16	1.12	1.10	
9	1.16	1.42	2.82	1.65	2.56	1.62	1.76	1.26	1.20	1.16	1.12	1.10	
10	1.16	1.31	2.69	1.60	3.25	1.60	1.70	1.25	1.19	1.16	1.12	1.11	
11	1.16	1.39	2.60	1.55	2.48	1.57	1.64	1.25	1.19	1.16	1.12	1.12	
12	1.15	1.34	1.94	1.52	2.38	1.50	1.62	1.25	1.19	1.16	1.12	1.11	
13	1.14	1.30	1.68	1.50	2.03	1.55	1.57	1.24	1.19	1.16	1.12	1.11	
14	1.14	1.27	2.42	1.46	1.83	1.57	1.55	1.24	1.19	1.15	1.12	1.10	
15	1.14	1.28	1.77	1.45	1.71	1.57	1.56	1.23	1.19	1.15	1.12	1.10	
16	1.14	1.29	1.61	1.45	1.63	1.66	1.51	1.23	1.19	1.15	1.12	1.10	
17	1.14	1.21	1.50	1.52	1.58	1.87	1.50	1.23	1.19	1.15	1.12	1.10	
18	1.23	1.18	1.45	1.64	1.80	2.32	1.80	1.23	1.19	1.15	1.12	1.10	
19	1.15	1.63	1.39	1.53	1.63	1.86	1.66	1.23	1.19	1.15	1.12	1.10	
20	1.15	1.32	1.37	1.61	1.68	1.70	1.54	1.22	1.19	1.15	1.11	1.10	
21	1.15	1.44	1.38	1.79	1.55	1.61	1.48	1.21	1.18	1.14	1.10	1.10	
22	1.13	1.30	1.41	1.79	1.56	1.72	1.43	1.21	1.18	1.14	1.10	1.10	
23	1.14	1.33	1.68	1.74	1.72	1.87	1.40	1.21	1.18	1.14	1.10	1.10	
24	1.14	1.26	1.50	1.66	1.57	1.76	1.37	1.21	1.18	1.14	1.10	1.10	
25	1.14	1.31	1.45	1.61	1.53	1.71	1.37	1.20	1.18	1.14	1.10	1.10	
26	1.15	1.22	1.58	1.56	1.60	1.78	1.36	1.20	1.18	1.14	1.10	1.12	
27	1.15	1.39	1.49	1.51	2.91	1.86	1.35	1.20	1.18	1.14	1.11	1.13	
28	1.16	1.28	1.48	1.49	2.04	1.75	1.33	1.20	1.17	1.14	1.11	1.12	
29	1.33	1.46	1.45	1.45	1.80	1.67	1.33	1.20	1.17	1.15		1.11	
30	1.20	1.41	1.51	1.43	1.67	1.71	1.32	1.20	1.17	1.14		1.11	
31		1.41		1.41	1.62		1.31		1.16	1.14		1.10	
Mean	1.18	1.29	1.88	1.87	1.92	1.72	1.59	1.24	1.19	1.15	1.12	1.10	
Max	1.33	1.63	3.38	6.31	3.25	2.32	2.41	1.31	1.24	1.17	1.14	1.13	6.31
Min	1.13	1.14	1.37	1.41	1.40	1.50	1.31	1.20	1.16	1.14	1.10	1.10	1.10

Annual Max Momentary Gage Height 6.54 M (A.D), at 12.00 Hours, on Jul 2, 1994
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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	2.00	23.28	64.20	5.00	17.00	10.00	3.20	2.00	1.60	1.40	1.00	
2	1.80	1.90	13.00	156.74	19.25	19.00	9.00	3.20	2.00	1.60	1.40	1.00	
3	2.80	1.50	18.75	43.20	15.00	14.75	15.50	3.00	2.40	1.70	1.30	1.00	
4	2.90	1.50	59.40	24.84	10.00	14.00	13.25	2.90	2.30	1.70	1.30	1.00	
5	2.60	1.50	55.50	17.75	16.75	11.50	14.75	2.80	2.20	1.70	1.30	1.00	
6	2.20	1.40	26.45	15.75	31.31	9.50	15.50	2.80	2.10	1.70	1.30	1.00	
7	1.90	1.40	15.75	15.00	28.07	8.00	30.77	2.80	2.00	1.60	1.20	1.00	
8	1.70	2.20	11.25	13.25	23.80	10.75	20.00	2.60	2.00	1.60	1.20	1.00	
9	1.60	5.50	42.60	11.25	34.88	10.50	14.00	2.60	2.00	1.60	1.20	1.00	
10	1.60	3.20	38.70	10.00	55.50	10.00	12.50	2.50	1.90	1.60	1.20	1.10	
11	1.60	4.80	36.00	8.75	32.66	9.25	11.00	2.50	1.90	1.60	1.20	1.20	
12	1.50	3.80	18.50	8.00	29.96	7.50	10.50	2.50	1.90	1.60	1.20	1.10	
13	1.40	3.00	12.00	7.50	20.75	8.75	9.25	2.40	1.90	1.60	1.20	1.10	
14	1.40	2.70	31.04	6.50	15.75	9.25	8.75	2.40	1.90	1.50	1.20	1.00	
15	1.40	2.80	14.25	6.25	12.75	9.25	9.00	2.30	1.90	1.50	1.20	1.00	
16	1.40	2.90	10.25	6.25	10.75	11.50	7.75	2.30	1.90	1.50	1.20	1.00	
17	1.40	2.10	7.50	8.00	9.50	16.75	7.50	2.30	1.90	1.50	1.20	1.00	
18	2.30	1.80	6.25	11.00	15.00	28.34	15.00	2.30	1.90	1.50	1.20	1.00	
19	1.50	10.75	4.80	8.25	10.75	16.50	11.50	2.30	1.90	1.50	1.20	1.00	
20	1.50	3.40	4.40	10.25	12.00	12.50	8.50	2.20	1.90	1.50	1.10	1.00	
21	1.50	6.00	4.60	14.75	8.75	10.25	7.00	2.10	1.80	1.40	1.00	1.00	
22	1.30	3.00	5.25	14.75	9.00	13.00	5.75	2.10	1.80	1.40	1.00	1.00	
23	1.40	3.60	12.00	13.50	13.00	16.75	5.00	2.10	1.80	1.40	1.00	1.00	
24	1.40	2.60	7.50	11.50	9.25	14.00	4.40	2.10	1.80	1.40	1.00	1.00	
25	1.40	3.20	6.25	10.25	8.25	12.75	4.40	2.00	1.80	1.40	1.00	1.00	
26	1.50	2.20	9.50	9.00	10.00	14.50	4.20	2.00	1.80	1.40	1.00	1.20	
27	1.50	4.80	7.25	7.75	45.30	16.50	4.00	2.00	1.80	1.40	1.10	1.30	
28	1.60	2.80	7.00	7.25	21.00	13.75	3.60	2.00	1.70	1.40	1.10	1.20	
29	3.60	6.50	6.25	6.25	15.00	11.75	3.60	2.00	1.70	1.50		1.10	
30	2.00	5.25	7.75	5.75	11.75	12.75	3.40	2.00	1.70	1.40		1.10	
31		5.25		5.25	10.50		3.20		1.60	1.40		1.00	
Total	53.50	105.35	523.02	558.73	571.23	390.59	302.57	72.30	59.20	47.20	32.90	32.40	2748.99 CMSDAY
Mean	1.78	3.40	17.43	18.02	18.43	13.02	9.76	2.41	1.91	1.52	1.18	1.05	7.53 CMS
Max	3.60	10.75	59.40	156.74	55.50	28.34	30.77	3.20	2.40	1.70	1.40	1.30	156.74 CMS
Min	1.30	1.40	4.40	5.25	5.00	7.50	3.20	2.00	1.60	1.40	1.00	1.00	1.00 CMS
Runoff	4.622	9.102	45.189	48.274	49.354	33.747	26.142	6.247	5.115	4.078	2.843	2.799	237.513 MCM

Momentary Peak 164.88 CMS, at 6.54 M (A.D), at 12.00 Hours, on Jul 2, 1994

Runoff Yield 11.33 Liters/Second/Square KM, Momentary Peak Yield 247.94 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

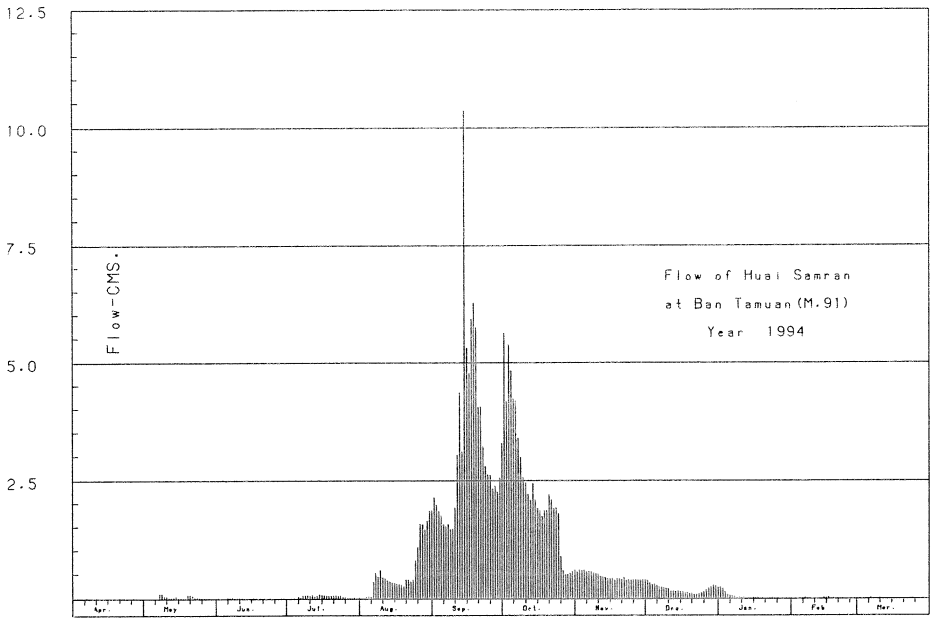
Huai Samran at Ban Tamuan, Si Sa Ket (M.91)

Location	Lat. 14°-29'-48" N., Long. 104°-03'-29" E., on right bank about 15 kilometers from the highway at Ban Tamuan, Tambon Lalom, Amphoe Khukhan, Si Sa Ket.
Drainage Area	128 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank 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. Stage-discharge relation defined by 31 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	0.81	0.89	0.88	0.84	1.60	2.18	1.29	1.23	1.17	0.85	0.85	
2	0.84	0.80	0.90	0.88	0.84	1.57	1.94	1.30	1.21	1.16	0.84	0.85	
3	0.84	0.80	0.90	0.88	0.98	1.55	2.14	1.30	1.20	1.12	0.84	0.85	
4	0.83	0.78	0.90	0.93	0.98	1.53	2.05	1.30	1.20	1.09	0.84	0.85	
5	0.85	0.78	0.90	0.98	1.00	1.50	1.95	1.29	1.19	1.05	0.83	0.85	
6	0.84	0.77	0.89	0.96	1.22	1.49	1.94	1.29	1.17	1.02	0.83	0.83	
7	0.86	1.10	0.89	1.04	1.28	1.50	1.81	1.29	1.17	0.99	0.83	0.83	
8	0.86	1.09	0.89	1.05	1.25	1.48	1.74	1.28	1.16	0.97	0.83	0.83	
9	0.86	1.02	0.89	1.04	1.30	1.48	1.67	1.28	1.16	0.95	0.83	0.83	
10	0.85	0.99	0.88	1.03	1.25	1.56	1.65	1.27	1.15	0.94	0.84	0.83	
11	0.84	0.97	0.87	1.05	1.24	1.75	1.61	1.26	1.13	0.93	0.85	0.83	
12	0.84	0.93	0.86	1.02	1.23	1.97	1.59	1.25	1.13	0.92	0.86	0.82	
13	0.83	0.94	0.86	1.02	1.22	1.76	1.65	1.25	1.12	0.91	0.87	0.82	
14	0.83	0.99	0.86	1.09	1.21	2.94	1.59	1.24	1.13	0.91	0.88	0.82	
15	0.83	0.86	0.85	1.06	1.21	2.13	1.56	1.24	1.12	0.90	0.88	0.82	
16	0.82	0.90	0.83	1.04	1.20	2.04	1.55	1.24	1.12	0.90	0.89	0.81	
17	0.82	0.90	0.83	1.05	1.20	2.23	1.53	1.23	1.11	0.90	0.90	0.81	
18	0.84	0.97	0.86	1.02	1.19	2.29	1.55	1.24	1.11	0.88	0.88	0.81	
19	0.84	1.06	0.86	1.03	1.18	2.20	1.55	1.24	1.10	0.88	0.86	0.81	
20	0.84	1.05	0.86	1.04	1.23	1.92	1.61	1.23	1.10	0.88	0.84	0.81	
21	0.84	1.03	0.86	1.04	1.23	1.92	1.59	1.25	1.09	0.88	0.83	0.81	
22	0.84	0.97	0.86	1.04	1.22	1.78	1.56	1.23	1.09	0.88	0.82	0.81	
23	0.84	0.94	0.86	1.04	1.23	1.71	1.56	1.23	1.09	0.88	0.82	0.81	
24	0.84	0.89	0.86	0.98	1.35	1.68	1.54	1.23	1.11	0.87	0.81	0.80	
25	0.84	0.87	0.86	0.96	1.41	1.68	1.37	1.23	1.12	0.87	0.81	0.80	
26	0.84	0.86	0.86	0.95	1.50	1.63	1.30	1.23	1.14	0.86	0.83	0.80	
27	0.84	0.87	0.86	0.92	1.50	1.64	1.27	1.23	1.16	0.86	0.84	0.80	
28	0.82	0.87	0.86	0.91	1.48	1.62	1.27	1.23	1.17	0.86	0.85	0.80	
29	0.82	0.86	0.86	0.90	1.51	1.67	1.28	1.23	1.19	0.86		0.80	
30	0.82	0.86	0.87	0.89	1.55	1.79	1.29	1.23	1.18	0.85		0.80	
31		0.88		0.88	1.55		1.30		1.17	0.85		0.80	
Mean	0.84	0.92	0.87	0.99	1.24	1.79	1.62	1.25	1.15	0.94	0.85	0.82	
Max	0.86	1.10	0.90	1.09	1.55	2.94	2.18	1.30	1.23	1.17	0.90	0.85	2.94
Min	0.82	0.77	0.83	0.88	0.84	1.48	1.27	1.23	1.09	0.85	0.81	0.80	0.77

Annual Max Momentary Gage Height 3.20 M (A.D), at 6.00 Hours, on Sep 14, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.49 M (A.D)
Left Bank Elevation 5.47 M (A.D)
Right Bank Elevation 5.32 M (A.D), Drainage Area 128 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.00	0.02	0.02	0.01	2.15	5.63	0.57	0.39	0.24	0.01	0.01	
2	0.01	0.00	0.02	0.02	0.01	1.98	4.19	0.60	0.33	0.22	0.01	0.01	
3	0.01	0.00	0.02	0.02	0.04	1.86	5.39	0.60	0.30	0.14	0.01	0.01	
4	0.01	0.00	0.02	0.03	0.04	1.75	4.85	0.60	0.30	0.09	0.01	0.01	
5	0.01	0.00	0.02	0.04	0.04	1.58	4.25	0.57	0.28	0.07	0.01	0.01	
6	0.01	0.00	0.02	0.03	0.36	1.52	4.19	0.57	0.24	0.05	0.01	0.01	
7	0.01	0.10	0.02	0.06	0.54	1.58	3.41	0.57	0.24	0.04	0.01	0.01	
8	0.01	0.09	0.02	0.07	0.45	1.47	2.99	0.54	0.22	0.03	0.01	0.01	
9	0.01	0.05	0.02	0.06	0.60	1.47	2.57	0.54	0.22	0.03	0.01	0.01	
10	0.01	0.04	0.02	0.06	0.45	1.92	2.45	0.51	0.20	0.03	0.01	0.01	
11	0.01	0.03	0.01	0.07	0.42	3.05	2.21	0.48	0.16	0.03	0.01	0.01	
12	0.01	0.03	0.01	0.05	0.39	4.37	2.09	0.45	0.16	0.02	0.01	0.00	
13	0.01	0.03	0.01	0.05	0.36	3.11	2.45	0.45	0.14	0.02	0.01	0.00	
14	0.01	0.04	0.01	0.09	0.33	10.36	2.09	0.42	0.16	0.02	0.02	0.00	
15	0.01	0.01	0.01	0.08	0.33	5.33	1.92	0.42	0.14	0.02	0.02	0.00	
16	0.00	0.02	0.01	0.06	0.30	4.79	1.86	0.42	0.14	0.02	0.02	0.00	
17	0.00	0.02	0.01	0.07	0.30	5.93	1.75	0.39	0.12	0.02	0.02	0.00	
18	0.01	0.03	0.01	0.05	0.28	6.29	1.86	0.42	0.12	0.02	0.02	0.00	
19	0.01	0.08	0.01	0.06	0.26	5.75	1.86	0.42	0.10	0.02	0.01	0.00	
20	0.01	0.07	0.01	0.06	0.39	4.07	2.21	0.39	0.10	0.02	0.01	0.00	
21	0.01	0.06	0.01	0.06	0.39	4.07	2.09	0.45	0.09	0.02	0.01	0.00	
22	0.01	0.03	0.01	0.06	0.36	3.23	1.92	0.39	0.09	0.02	0.00	0.00	
23	0.01	0.03	0.01	0.06	0.39	2.81	1.92	0.39	0.09	0.02	0.00	0.00	
24	0.01	0.02	0.01	0.04	0.81	2.63	1.81	0.39	0.12	0.01	0.00	0.00	
25	0.01	0.01	0.01	0.03	1.08	2.63	0.89	0.39	0.14	0.01	0.00	0.00	
26	0.01	0.01	0.01	0.03	1.58	2.33	0.60	0.39	0.18	0.01	0.01	0.00	
27	0.01	0.01	0.01	0.02	1.58	2.39	0.51	0.39	0.22	0.01	0.01	0.00	
28	0.00	0.01	0.01	0.02	1.47	2.27	0.51	0.39	0.24	0.01	0.01	0.00	
29	0.00	0.01	0.01	0.02	1.64	2.57	0.54	0.39	0.28	0.01		0.00	
30	0.00	0.01	0.01	0.02	1.86	3.29	0.57	0.39	0.26	0.01		0.00	
31		0.02		0.02	1.86		0.60		0.24	0.01		0.00	
Total	0.25	0.86	0.40	1.43	18.92	98.55	72.18	13.89	6.01	1.29	0.29	0.11	214.18 CMSDAY
Mean	0.01	0.03	0.01	0.05	0.61	3.29	2.33	0.46	0.19	0.04	0.01	0.00	0.59 CMS
Max	0.01	0.10	0.02	0.09	1.86	10.36	5.63	0.60	0.39	0.24	0.02	0.01	10.36 CMS
Min	0.00	0.00	0.01	0.02	0.01	1.47	0.51	0.39	0.09	0.01	0.00	0.00	0.00 CMS
Runoff	0.022	0.074	0.035	0.124	1.635	8.515	6.236	1.200	0.519	0.111	0.025	0.010	18.505 MCM

Momentary Peak 12.10 CMS, at 3.20 M (A.D), at 6.00 Hours, on Sep 14, 1994

Runoff Yield 4.58 Liters/Second/Square KM, Momentary Peak Yield 94.53 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

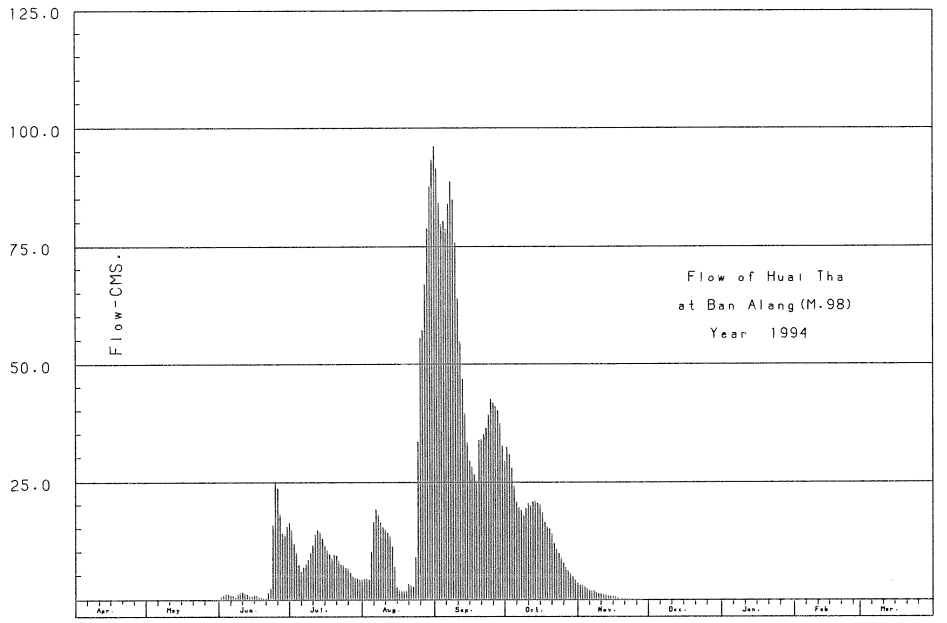
Huai Tha at Ban Alang, Si Sa Ket (M.98)

Location	Lat. 14°52'39" N., Long. 104°26'16" E., on left bank at the bridge of Si Sa Ket-Kantharalak Highway near guidepost 27+734, Tambon Tam Yae, Amphoe Muang, Si Sa Ket.
Drainage Area	1,092 sq.km.
Type of Gage	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	+8.568 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1979 - 1981, 1987 to date.
Rated by Float	-
Rated by Current Meter	1979 - 1981, 1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.10	0.33	1.71	0.88	5.87	2.81	0.75	0.28	2.23	2.49	2.67	
2	0.00	0.10	0.40	1.51	0.88	5.53	2.73	0.73	0.29	2.25	2.50	2.66	
3	0.00	0.10	0.44	1.36	0.87	5.31	2.56	0.70	0.78	2.26	2.50	2.66	
4	0.00	0.10	0.46	1.16	1.38	5.35	2.32	0.64	1.09	2.27	2.50	2.66	
5	0.00	0.10	0.41	1.04	1.83	5.26	2.12	0.60	1.26	2.28	2.50	2.66	
6	0.09	0.10	0.35	1.11	2.01	5.52	2.03	0.56	1.35	2.29	2.51	2.65	
7	0.15	0.10	0.32	1.18	1.93	5.75	2.00	0.59	1.40	2.30	2.51	2.65	
8	0.15	0.10	0.46	1.24	1.82	5.57	1.92	0.50	1.45	2.32	2.53	2.65	
9	0.15	0.10	0.48	1.36	1.76	5.12	2.02	0.48	1.52	2.34	2.65	2.64	
10	0.15	0.10	0.53	1.48	1.72	4.52	2.10	0.46	1.60	2.35	2.67	2.64	
11	0.15	0.10	0.47	1.65	1.68	4.03	2.06	0.43	1.67	2.36	2.67	2.64	
12	0.14	0.10	0.45	1.72	1.62	3.62	2.12	0.40	1.72	2.27	2.67	2.63	
13	0.14	0.10	0.36	1.68	1.47	3.21	2.12	0.38	1.76	2.37	2.67	2.63	
14	0.16	0.10	0.37	1.59	1.12	2.86	2.10	0.36	1.79	2.38	2.67	2.62	
15	0.13	0.10	0.39	1.48	0.69	2.65	2.07	0.35	1.82	2.28	2.67	2.61	
16	0.15	0.10	0.36	1.40	0.58	2.57	1.96	0.34	1.86	2.39	2.67	2.60	
17	0.15	0.10	0.32	1.34	0.56	2.48	1.83	0.32	1.88	2.40	2.67	2.59	
18	0.12	0.23	0.28	1.26	0.54	2.38	1.76	0.20	1.90	2.41	2.67	2.59	
19	0.10	0.15	0.26	1.32	0.55	2.90	1.74	0.28	1.93	2.42	2.67	2.59	
20	0.10	0.10	0.27	1.32	0.76	2.90	1.66	0.27	1.97	2.43	2.66	2.59	
21	0.10	0.10	0.48	1.23	0.72	2.96	1.52	0.26	1.99	2.44	2.66	2.58	
22	0.10	0.10	0.65	1.17	0.70	3.04	1.42	0.25	2.02	2.45	2.66	2.58	
23	0.11	0.10	1.79	1.15	1.29	3.20	1.36	0.24	2.06	2.45	2.66	2.57	
24	0.14	0.10	2.38	1.11	2.88	3.38	1.27	0.22	2.08	2.46	2.66	2.57	
25	0.13	0.10	2.30	1.09	4.08	3.34	1.20	0.19	2.10	2.47	2.66	2.57	
26	0.16	0.10	1.94	1.02	4.16	3.29	1.11	0.17	2.13	2.47	2.66	2.56	
27	0.21	0.10	1.66	0.94	4.67	3.25	1.05	0.17	2.14	2.47	2.66	2.56	
28	0.24	0.10	1.64	0.90	5.27	3.09	0.99	0.16	2.16	2.48	2.65	2.56	
29	0.10	0.10	1.76	0.89	5.70	2.83	0.93	0.16	2.18	2.48		2.56	
30	0.10	0.10	1.82	0.86	5.95	2.64	0.85	0.16	2.19	2.48		2.55	
31		0.25		0.86	6.09		0.78		2.21	2.49		2.55	
Mean	0.11	0.11	0.80	1.26	2.13	3.81	1.76	0.38	1.70	2.38	2.62	2.61	
Max	0.24	0.25	2.38	1.72	6.09	5.87	2.81	0.75	2.21	2.49	2.67	2.67	6.09
Min	0.00	0.10	0.26	0.86	0.54	2.38	0.78	0.16	0.28	2.23	2.49	2.55	0.00

Annual Max Momentary Gage Height 6.13 M (A.D), at 9.00 Hours, on Aug 31, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.20 M (A.D)
Left Bank Elevation 6.40 M (A.D)
Right Bank Elevation 6.99 M (A.D), Drainage Area 1092 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.65	14.75	4.42	91.54	32.38	3.25	0.00	0.00	0.00	0.00	
2	0.00	0.00	1.00	11.94	4.42	84.23	30.94	3.07	0.00	0.00	0.00	0.00	
3	0.00	0.00	1.20	9.98	4.33	79.70	28.02	2.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	1.30	7.42	10.24	80.50	24.12	2.38	0.00	0.00	0.00	0.00	
5	0.00	0.00	1.05	6.04	16.55	78.70	20.92	2.10	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.75	6.82	19.25	84.02	19.55	1.86	0.00	0.00	0.00	0.00	
7	0.05	0.00	0.60	7.66	18.05	88.90	19.10	2.04	0.00	0.00	0.00	0.00	
8	0.05	0.00	1.30	8.42	16.40	85.07	17.90	1.50	0.00	0.00	0.00	0.00	
9	0.05	0.00	1.40	9.98	15.50	75.90	19.40	1.40	0.00	0.00	0.00	0.00	
10	0.05	0.00	1.68	11.54	14.90	64.08	20.60	1.30	0.00	0.00	0.00	0.00	
11	0.05	0.00	1.35	13.90	14.32	54.77	20.00	1.15	0.00	0.00	0.00	0.00	
12	0.04	0.00	1.25	14.90	13.48	46.98	20.92	1.00	0.00	0.00	0.00	0.00	
13	0.04	0.00	0.80	14.32	11.41	39.58	20.92	0.90	0.00	0.00	0.00	0.00	
14	0.06	0.00	0.85	13.06	6.94	33.28	20.60	0.80	0.00	0.00	0.00	0.00	
15	0.03	0.00	0.95	11.54	2.73	29.55	20.15	0.75	0.00	0.00	0.00	0.00	
16	0.05	0.00	0.80	10.50	1.98	28.19	18.50	0.70	0.00	0.00	0.00	0.00	
17	0.05	0.00	0.60	9.72	1.86	26.68	16.55	0.60	0.00	0.00	0.00	0.00	
18	0.02	0.22	0.42	8.68	1.74	25.08	15.50	0.10	0.00	0.00	0.00	0.00	
19	0.00	0.05	0.34	9.46	1.80	34.00	15.20	0.42	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.38	9.46	3.34	34.00	14.04	0.38	0.00	0.00	0.00	0.00	
21	0.00	0.00	1.40	8.29	2.98	35.08	12.08	0.34	0.00	0.00	0.00	0.00	
22	0.00	0.00	2.45	7.54	2.80	36.52	10.76	0.30	0.00	0.00	0.00	0.00	
23	0.01	0.00	15.95	7.30	9.07	39.40	9.98	0.26	0.00	0.00	0.00	0.00	
24	0.04	0.00	25.08	6.82	33.64	42.64	8.81	0.18	0.00	0.00	0.00	0.00	
25	0.03	0.00	23.80	6.59	55.72	41.92	7.90	0.09	0.00	0.00	0.00	0.00	
26	0.06	0.00	18.20	5.82	57.24	41.02	6.82	0.07	0.00	0.00	0.00	0.00	
27	0.14	0.00	14.04	5.00	66.93	40.30	6.15	0.07	0.00	0.00	0.00	0.00	
28	0.26	0.00	13.76	4.60	78.90	37.42	5.50	0.06	0.00	0.00	0.00	0.00	
29	0.00	0.00	15.50	4.51	87.80	32.74	4.90	0.06	0.00	0.00		0.00	
30	0.00	0.00	16.40	4.24	93.30	29.38	4.15	0.06	0.00	0.00		0.00	
31		0.30		4.24	96.38		3.52		0.00	0.00		0.00	
Total	1.08	0.57	165.25	275.04	768.42	1541.17	495.88	29.99	0.00	0.00	0.00	0.00	3277.40 CMSDAY
Mean	0.04	0.02	5.51	8.87	24.79	51.37	16.00	1.00	0.00	0.00	0.00	0.00	8.98 CMS
Max	0.26	0.30	25.08	14.90	96.38	91.54	32.38	3.25	0.00	0.00	0.00	0.00	96.38 CMS
Min	0.00	0.00	0.34	4.24	1.74	25.08	3.52	0.06	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.093	0.049	14.278	23.763	66.391	133.157	42.844	2.591	0.000	0.000	0.000	0.000	283.167 MCM

Momentary Peak 97.26 CMS, at 6.13 M (A.D), at 9.00 Hours, on Aug 31, 1994

Runoff Yield 8.22 Liters/Second/Square KM, Momentary Peak Yield 89.07 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

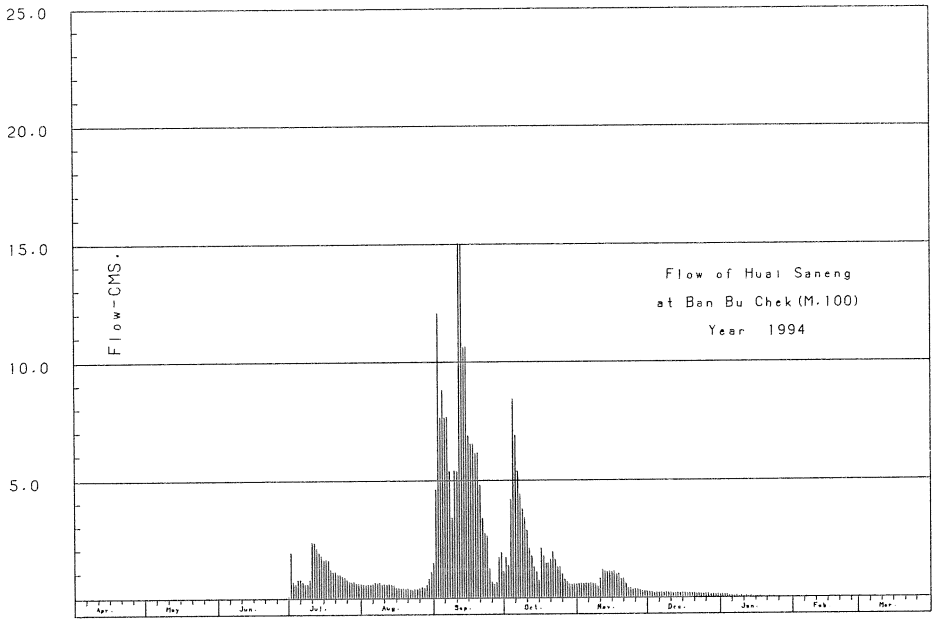
Huai Saneng at Ban Bu Chek, Surin (M.100)

Location	Lat. 14-37-01 N., Long. 103-28-44 E., on left bank at the bridge of Chokchai-Det Udom Highway near guidepost 145-146 and about 8 kilometers from Amphoe Prasat, Tambon Ta Bao, Amphoe Prasat, Surin.
Drainage Area	131 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Dept.
Location	On right bank at the abutment of the bridge.
Elevation	+3.332 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 9 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.28	0.36	1.38	1.08	1.56	1.35	1.10	0.84	0.72	0.48	0.30	
2	0.35	0.28	0.38	1.14	1.08	1.74	1.31	1.10	0.82	0.72	0.48	0.28	
3	0.35	0.28	0.38	1.10	1.08	1.66	1.54	1.10	0.80	0.70	0.46	0.28	
4	0.35	0.26	0.36	1.18	1.08	1.69	1.68	1.10	0.80	0.68	0.46	0.28	
5	0.35	0.26	0.36	1.20	1.10	1.66	1.64	1.10	0.80	0.64	0.44	0.28	
6	0.35	0.26	0.36	1.14	1.12	1.66	1.60	1.10	0.80	0.64	0.44	0.26	
7	0.35	0.36	0.36	1.08	1.12	1.60	1.55	1.10	0.80	0.64	0.42	0.26	
8	0.35	0.36	0.36	1.10	1.12	1.50	1.52	1.08	0.80	0.62	0.42	0.26	
9	0.35	0.36	0.34	1.18	1.09	1.60	1.50	1.04	0.80	0.62	0.40	0.26	
10	0.35	0.36	0.34	1.42	1.09	1.60	1.46	1.20	0.78	0.61	0.40	0.26	
11	0.35	0.36	0.34	1.42	1.09	1.78	1.40	1.28	0.78	0.61	0.40	0.26	
12	0.35	0.36	0.34	1.40	1.09	1.78	1.36	1.26	0.78	0.61	0.38	0.26	
13	0.35	0.36	0.38	1.38	1.08	1.72	1.30	1.26	0.78	0.60	0.38	0.26	
14	0.34	0.36	0.40	1.36	1.06	1.72	1.26	1.26	0.78	0.60	0.38	0.24	
15	0.34	0.36	0.40	1.34	1.02	1.64	1.16	1.26	0.78	0.58	0.38	0.24	
16	0.34	0.36	0.40	1.34	1.00	1.63	1.40	1.26	0.78	0.58	0.37	0.24	
17	0.34	0.36	0.40	1.34	1.00	1.63	1.36	1.24	0.77	0.58	0.37	0.24	
18	0.34	0.36	0.40	1.28	1.00	1.62	1.32	1.24	0.77	0.56	0.37	0.24	
19	0.34	0.36	0.40	1.26	0.99	1.62	1.32	1.20	0.77	0.54	0.37	0.24	
20	0.34	0.36	0.42	1.26	0.99	1.57	1.34	1.20	0.76	0.54	0.37	0.24	
21	0.34	0.36	0.46	1.24	0.96	1.50	1.38	1.10	0.76	0.52	0.35	0.24	
22	0.32	0.36	0.46	1.24	0.94	1.45	1.34	1.00	0.76	0.52	0.35	0.24	
23	0.32	0.36	0.50	1.22	0.96	1.44	1.30	1.00	0.74	0.52	0.32	0.24	
24	0.32	0.36	0.50	1.22	0.98	1.29	1.30	0.94	0.74	0.52	0.32	0.24	
25	0.32	0.36	0.50	1.18	1.00	1.14	1.24	0.94	0.74	0.50	0.32	0.24	
26	0.32	0.36	0.50	1.14	1.02	1.08	1.20	0.94	0.74	0.50	0.32	0.26	
27	0.30	0.36	0.50	1.14	1.02	1.13	1.14	0.92	0.72	0.50	0.32	0.26	
28	0.30	0.36	0.58	1.14	1.08	1.35	1.08	0.86	0.72	0.48	0.32	0.26	
29	0.30	0.36	0.58	1.12	1.20	1.38	1.08	0.86	0.72	0.48		0.26	
30	0.28	0.34	0.66	1.10	1.26	1.26	1.08	0.84	0.72	0.48		0.26	
31		0.34		1.10	1.32		1.08		0.72	0.48		0.26	
Mean	0.34	0.34	0.42	1.23	1.07	1.53	1.34	1.10	0.77	0.58	0.39	0.26	
Max	0.35	0.36	0.66	1.42	1.32	1.78	1.68	1.28	0.84	0.72	0.48	0.30	1.78
Min	0.28	0.26	0.34	1.08	0.94	1.08	1.08	0.84	0.72	0.48	0.32	0.24	0.24

Annual Max Momentary Gage Height 1.78 M (A.D), at 6.00 Hours, on Sep 11, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.21 M (A.D)
Left Bank Elevation 2.06 M (A.D)
Right Bank Elevation 2.05 M (A.D), Drainage Area 131 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	1.94	0.56	4.60	1.70	0.60	0.24	0.12	0.02	0.00	
2	0.00	0.00	0.00	0.68	0.56	12.12	1.38	0.60	0.22	0.12	0.02	0.00	
3	0.00	0.00	0.00	0.60	0.56	7.68	4.20	0.60	0.20	0.10	0.01	0.00	
4	0.00	0.00	0.00	0.76	0.56	8.82	8.44	0.60	0.20	0.09	0.01	0.00	
5	0.00	0.00	0.00	0.80	0.60	7.68	6.92	0.60	0.20	0.07	0.01	0.00	
6	0.00	0.00	0.00	0.68	0.64	7.68	5.40	0.60	0.20	0.07	0.01	0.00	
7	0.00	0.00	0.00	0.56	0.64	5.40	4.40	0.60	0.20	0.07	0.00	0.00	
8	0.00	0.00	0.00	0.60	0.64	3.40	3.80	0.56	0.20	0.06	0.00	0.00	
9	0.00	0.00	0.00	0.76	0.58	5.40	3.40	0.48	0.20	0.06	0.00	0.00	
10	0.00	0.00	0.00	2.36	0.58	5.40	2.88	0.80	0.18	0.06	0.00	0.00	
11	0.00	0.00	0.00	2.36	0.58	15.04	2.10	1.20	0.18	0.06	0.00	0.00	
12	0.00	0.00	0.00	2.10	0.58	15.04	1.78	1.10	0.18	0.06	0.00	0.00	
13	0.00	0.00	0.00	1.94	0.56	10.66	1.30	1.10	0.18	0.05	0.00	0.00	
14	0.00	0.00	0.00	1.78	0.52	10.66	1.10	1.10	0.18	0.05	0.00	0.00	
15	0.00	0.00	0.00	1.62	0.44	6.92	0.72	1.10	0.18	0.04	0.00	0.00	
16	0.00	0.00	0.00	1.62	0.40	6.54	2.10	1.10	0.18	0.04	0.00	0.00	
17	0.00	0.00	0.00	1.62	0.40	6.54	1.78	1.00	0.17	0.04	0.00	0.00	
18	0.00	0.00	0.00	1.20	0.40	6.16	1.46	1.00	0.17	0.04	0.00	0.00	
19	0.00	0.00	0.00	1.10	0.39	6.16	1.46	0.80	0.17	0.03	0.00	0.00	
20	0.00	0.00	0.00	1.10	0.39	4.80	1.62	0.80	0.16	0.03	0.00	0.00	
21	0.00	0.00	0.01	1.00	0.36	3.40	1.94	0.60	0.16	0.03	0.00	0.00	
22	0.00	0.00	0.01	1.00	0.34	2.75	1.62	0.40	0.16	0.03	0.00	0.00	
23	0.00	0.00	0.02	0.90	0.36	2.62	1.30	0.40	0.14	0.03	0.00	0.00	
24	0.00	0.00	0.02	0.90	0.38	1.25	1.30	0.34	0.14	0.03	0.00	0.00	
25	0.00	0.00	0.02	0.76	0.40	0.68	1.00	0.34	0.14	0.02	0.00	0.00	
26	0.00	0.00	0.02	0.68	0.44	0.56	0.80	0.34	0.14	0.02	0.00	0.00	
27	0.00	0.00	0.02	0.68	0.44	0.66	0.68	0.32	0.12	0.02	0.00	0.00	
28	0.00	0.00	0.04	0.68	0.56	1.70	0.56	0.26	0.12	0.02	0.00	0.00	
29	0.00	0.00	0.04	0.64	0.80	1.94	0.56	0.26	0.12	0.02		0.00	
30	0.00	0.00	0.08	0.60	1.10	1.10	0.56	0.24	0.12	0.02		0.00	
31		0.00		0.60	1.46		0.56		0.12	0.02		0.00	
Total	0.00	0.00	0.28	34.62	17.22	173.36	68.82	19.84	5.27	1.52	0.08	0.00	321.01 CMSDAY
Mean	0.00	0.00	0.01	1.12	0.56	5.78	2.22	0.66	0.17	0.05	0.00	0.00	0.88 CMS
Max	0.00	0.00	0.08	2.36	1.46	15.04	8.44	1.20	0.24	0.12	0.02	0.00	15.04 CMS
Min	0.00	0.00	0.00	0.56	0.34	0.56	0.56	0.24	0.12	0.02	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.024	2.991	1.488	14.978	5.946	1.714	0.455	0.131	0.007	0.000	27.735 MCM

Momentary Peak 15.04 CMS, at 1.78 M (A.D), at 6.00 Hours, on Sep 11, 1994

Runoff Yield 6.71 Liters/Second/Square KM, Momentary Peak Yield 114.81 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

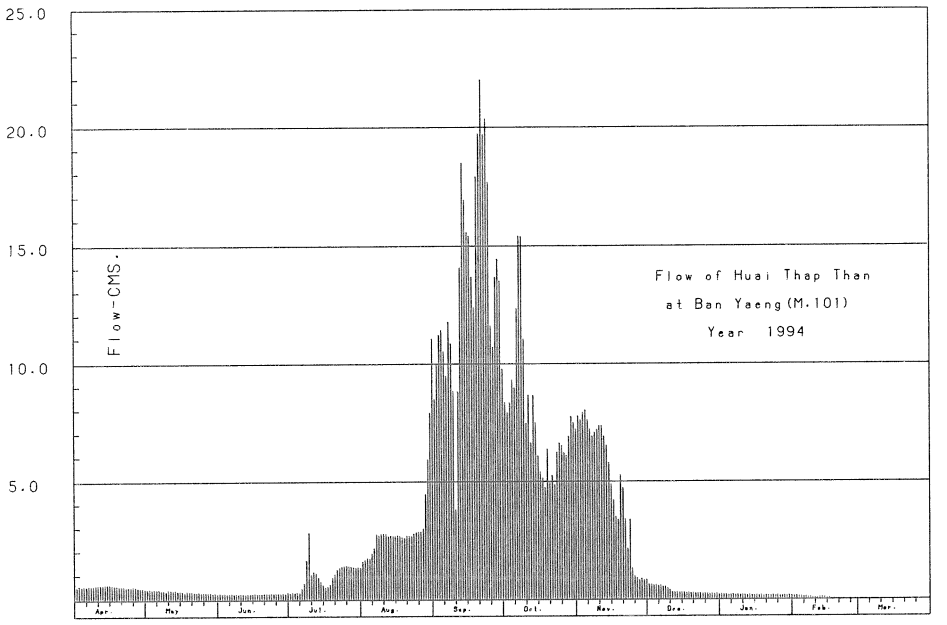
Huai Thap Than at Ban Yaeng, Surin (M.101)

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, Tambon Kra Thiam, Amphoe Sangkha, Surin.
Drainage Area	390 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Dept.
Location	On right bank at the abutment of the bridge.
Elevation	+8.945 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +6.54 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.42	5.37	5.25	5.29	5.70	6.32	6.31	6.27	5.47	5.21	5.14	5.00	
2	5.44	5.37	5.25	5.29	5.71	6.41	6.28	6.26	5.46	5.20	5.14	5.00	
3	5.43	5.36	5.25	5.29	5.72	6.48	6.31	6.28	5.45	5.20	5.13	4.99	
4	5.43	5.36	5.24	5.29	5.72	6.49	6.37	6.29	5.45	5.19	5.12	4.99	
5	5.43	5.36	5.24	5.29	5.75	6.44	6.35	6.26	5.44	5.19	5.11	4.99	
6	5.44	5.35	5.24	5.39	5.78	6.38	6.54	6.23	5.44	5.19	5.10	4.98	
7	5.44	5.34	5.23	5.49	5.86	6.51	6.70	6.21	5.42	5.18	5.09	4.97	
8	5.44	5.33	5.23	5.71	5.85	6.46	6.70	6.22	5.41	5.18	5.08	4.96	
9	5.45	5.32	5.23	5.87	5.86	6.34	6.47	6.23	5.39	5.18	5.08	4.95	
10	5.45	5.35	5.22	5.59	5.86	5.97	6.25	6.24	5.34	5.17	5.07	4.94	
11	5.46	5.35	5.22	5.61	5.86	6.34	6.33	6.24	5.31	5.17	5.07	4.93	
12	5.46	5.34	5.22	5.60	5.85	6.63	6.19	6.21	5.30	5.17	5.08	4.92	
13	5.46	5.34	5.23	5.56	5.85	6.86	6.33	6.18	5.29	5.17	5.09	4.91	
14	5.47	5.33	5.24	5.51	5.85	6.78	6.25	6.13	5.29	5.17	5.08	4.90	
15	5.46	5.32	5.24	5.46	5.85	6.71	6.15	6.06	5.28	5.16	5.07	4.89	
16	5.45	5.31	5.24	5.40	5.85	6.70	6.10	6.01	5.28	5.16	5.06	4.89	
17	5.45	5.29	5.23	5.43	5.85	6.61	6.08	5.94	5.27	5.16	5.05	4.95	
18	5.44	5.32	5.23	5.46	5.84	6.54	6.05	5.93	5.27	5.16	5.06	4.94	
19	5.44	5.32	5.24	5.56	5.84	6.83	6.17	6.09	5.26	5.15	5.05	4.93	
20	5.43	5.31	5.24	5.59	5.85	6.92	6.07	6.05	5.26	5.15	5.04	4.92	
21	5.42	5.31	5.24	5.63	5.85	7.03	6.09	5.93	5.25	5.15	5.03	4.92	
22	5.41	5.30	5.25	5.65	5.85	6.92	6.06	5.78	5.25	5.16	5.02	4.91	
23	5.40	5.30	5.25	5.66	5.86	6.95	6.16	5.93	5.24	5.16	5.01	4.91	
24	5.41	5.29	5.25	5.66	5.87	6.82	6.19	5.64	5.24	5.16	5.00	4.90	
25	5.42	5.28	5.25	5.67	5.87	6.50	6.18	5.57	5.23	5.16	4.99	4.90	
26	5.41	5.28	5.25	5.66	5.87	6.45	6.16	5.55	5.23	5.15	4.98	4.89	
27	5.40	5.27	5.25	5.66	5.89	6.61	6.15	5.53	5.23	5.15	4.98	4.89	
28	5.39	5.27	5.25	5.65	6.03	6.65	6.21	5.54	5.22	5.15	5.00	4.89	
29	5.38	5.26	5.25	5.65	6.14	6.60	6.27	5.53	5.22	5.15		4.88	
30	5.37	5.26	5.29	5.65	6.28	6.40	6.25	5.53	5.22	5.15		4.88	
31		5.25		5.65	6.47		6.23		5.21	5.14		4.88	
Mean	5.43	5.32	5.24	5.54	5.88	6.59	6.26	6.00	5.31	5.17	5.06	4.93	
Max	5.47	5.37	5.29	5.87	6.47	7.03	6.70	6.29	5.47	5.21	5.14	5.00	7.03
Min	5.37	5.25	5.22	5.29	5.70	5.97	6.05	5.53	5.21	5.14	4.98	4.88	4.88

Annual Max Momentary Gage Height 7.04 M (A.D), at 18.00 Hours, on Sep 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 2.41 M (A.D)
Left Bank Elevation 6.53 M (A.D)
Right Bank Elevation 6.61 M (A.D), Drainage Area 390 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.54	0.44	0.25	0.29	1.60	8.52	8.36	7.78	0.64	0.21	0.14	0.00	
2	0.58	0.44	0.25	0.29	1.67	9.98	7.92	7.64	0.62	0.20	0.14	0.00	
3	0.56	0.42	0.25	0.29	1.74	11.24	8.36	7.92	0.60	0.20	0.13	0.00	
4	0.56	0.42	0.24	0.29	1.74	11.42	9.32	8.06	0.60	0.19	0.12	0.00	
5	0.56	0.42	0.24	0.29	1.95	10.52	9.00	7.64	0.58	0.19	0.11	0.00	
6	0.58	0.40	0.24	0.48	2.16	9.48	12.36	7.22	0.58	0.19	0.10	0.00	
7	0.58	0.38	0.23	0.68	2.78	11.79	15.40	6.94	0.54	0.18	0.09	0.00	
8	0.58	0.36	0.23	1.67	2.70	10.88	15.40	7.08	0.52	0.18	0.08	0.00	
9	0.60	0.34	0.23	2.86	2.78	8.84	11.06	7.22	0.48	0.18	0.08	0.00	
10	0.60	0.40	0.22	1.06	2.78	3.80	7.50	7.36	0.38	0.17	0.07	0.00	
11	0.62	0.40	0.22	1.15	2.78	8.84	8.68	7.36	0.32	0.17	0.07	0.00	
12	0.62	0.38	0.22	1.10	2.70	14.07	6.66	6.94	0.30	0.17	0.08	0.00	
13	0.62	0.38	0.23	0.94	2.70	18.50	8.68	6.52	0.29	0.17	0.09	0.00	
14	0.64	0.36	0.24	0.74	2.70	16.92	7.50	5.82	0.29	0.17	0.08	0.00	
15	0.62	0.34	0.24	0.62	2.70	15.59	6.10	4.88	0.28	0.16	0.07	0.00	
16	0.60	0.32	0.24	0.50	2.70	15.40	5.40	4.23	0.28	0.16	0.06	0.00	
17	0.60	0.29	0.23	0.56	2.70	13.69	5.14	3.50	0.27	0.16	0.05	0.00	
18	0.58	0.34	0.23	0.62	2.62	12.36	4.75	3.40	0.27	0.16	0.06	0.00	
19	0.58	0.34	0.24	0.94	2.62	17.90	6.38	5.27	0.26	0.15	0.05	0.00	
20	0.56	0.32	0.24	1.06	2.70	19.72	5.01	4.75	0.26	0.15	0.04	0.00	
21	0.54	0.32	0.24	1.25	2.70	22.03	5.27	3.40	0.25	0.15	0.03	0.00	
22	0.52	0.30	0.25	1.35	2.70	19.72	4.88	2.16	0.25	0.16	0.02	0.00	
23	0.50	0.30	0.25	1.40	2.78	20.35	6.24	3.40	0.24	0.16	0.01	0.00	
24	0.52	0.29	0.25	1.40	2.86	17.70	6.66	1.30	0.24	0.16	0.00	0.00	
25	0.54	0.28	0.25	1.45	2.86	11.60	6.52	0.98	0.23	0.16	0.00	0.00	
26	0.52	0.28	0.25	1.40	2.86	10.70	6.24	0.90	0.23	0.15	0.00	0.00	
27	0.50	0.27	0.25	1.40	3.02	13.69	6.10	0.82	0.23	0.15	0.00	0.00	
28	0.48	0.27	0.25	1.35	4.49	14.45	6.94	0.86	0.22	0.15	0.00	0.00	
29	0.46	0.26	0.25	1.35	5.96	13.50	7.78	0.82	0.22	0.15		0.00	
30	0.44	0.26	0.29	1.35	7.92	9.80	7.50	0.82	0.22	0.15		0.00	
31		0.25		1.35	11.06		7.22		0.21	0.14		0.00	
Total	16.80	10.57	7.24	31.48	98.03	403.00	240.33	142.99	10.90	5.19	1.77	0.00	968.30 CMSDAY
Mean	0.56	0.34	0.24	1.02	3.16	13.43	7.75	4.77	0.35	0.17	0.06	0.00	2.65 CMS
Max	0.64	0.44	0.29	2.86	11.06	22.03	15.40	8.06	0.64	0.21	0.14	0.00	22.03 CMS
Min	0.44	0.25	0.22	0.29	1.60	3.80	4.75	0.82	0.21	0.14	0.00	0.00	0.00 CMS
Runoff	1.452	0.913	0.626	2.720	8.470	34.819	20.765	12.354	0.942	0.448	0.153	0.000	83.661 MCM

Momentary Peak 22.24 CMS, at 7.04 M (A.D), at 18.00 Hours, on Sep 21, 1994
Runoff Yield 6.80 Liters/Second/Square KM, Momentary Peak Yield 57.03 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

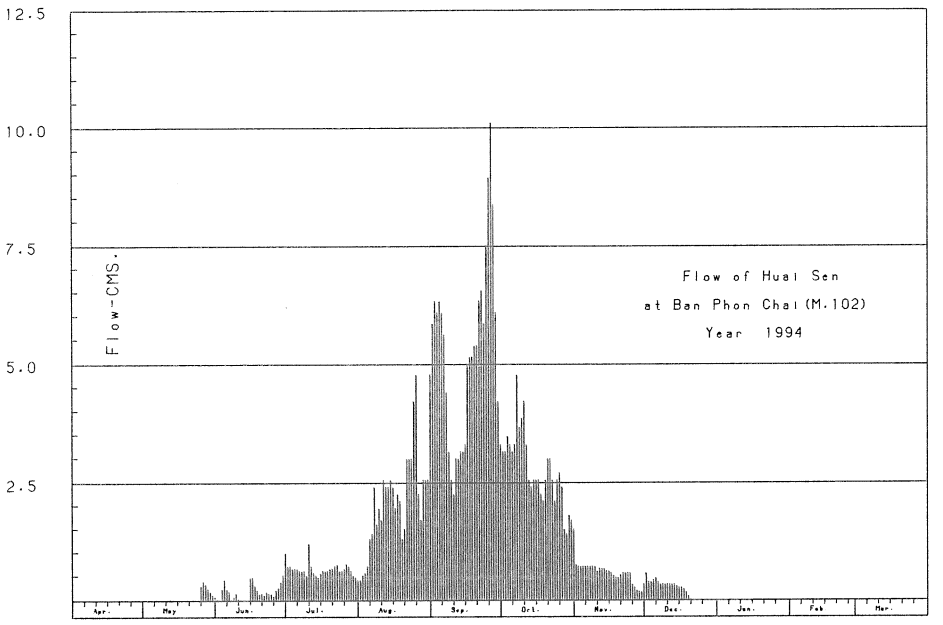
Huai Sen at Ban Phon Chai, Surin (M.102)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Ban Phon Chai weir. Stage-discharge relation defined by 12 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.48	-0.37	0.70	0.88	0.82	1.23	1.09	0.89	0.85	0.62	0.33	0.12	
2	-0.48	-0.37	0.70	0.88	0.84	1.25	1.09	0.88	0.81	0.61	0.32	0.12	
3	-0.48	-0.37	0.77	0.87	0.85	1.24	1.11	0.88	0.81	0.60	0.31	0.11	
4	-0.48	-0.37	0.82	0.87	0.88	1.25	1.10	0.88	0.82	0.59	0.30	0.10	
5	-0.48	-0.37	0.77	0.87	0.95	1.24	1.09	0.88	0.83	0.58	0.30	0.09	
6	-0.50	-0.37	0.75	0.86	0.96	1.22	1.10	0.88	0.81	0.58	0.30	0.08	
7	-0.50	-0.37	0.70	0.86	1.04	1.16	1.18	0.88	0.80	0.57	0.29	0.07	
8	-0.50	-0.37	0.72	0.86	0.98	1.09	1.12	0.88	0.80	0.55	0.27	0.06	
9	-0.50	-0.36	0.74	0.84	1.01	1.05	1.13	0.88	0.80	0.54	0.26	0.05	
10	-0.50	-0.36	0.71	0.94	0.99	1.03	1.15	0.86	0.80	0.54	0.26	0.04	
11	-0.50	-0.36	0.70	0.88	1.05	1.08	1.10	0.87	0.80	0.52	0.25	0.04	
12	-0.50	-0.35	0.68	0.85	1.04	1.08	1.05	0.87	0.80	0.52	0.24	0.03	
13	-0.50	-0.35	0.67	0.84	1.04	1.09	1.04	0.87	0.80	0.50	0.23	0.03	
14	-0.50	-0.34	0.70	0.83	1.05	1.09	1.05	0.86	0.79	0.47	0.23	0.02	
15	-0.50	-0.34	0.83	0.85	1.04	1.10	1.05	0.86	0.78	0.45	0.23	0.01	
16	-0.50	-0.34	0.83	0.86	1.01	1.19	1.05	0.85	0.78	0.44	0.22	0.00	
17	-0.50	-0.33	0.79	0.86	1.03	1.20	1.03	0.84	0.77	0.44	0.21	-0.01	
18	-0.44	-0.33	0.76	0.86	1.02	1.20	1.02	0.83	0.75	0.43	0.20	-0.01	
19	-0.44	-0.30	0.74	0.87	0.95	1.21	1.05	0.83	0.72	0.42	0.20	-0.02	
20	-0.46	0.45	0.74	0.87	0.97	1.21	1.08	0.84	0.71	0.41	0.19	-0.02	
21	-0.48	0.66	0.74	0.88	1.08	1.25	1.08	0.85	0.70	0.40	0.19	-0.03	
22	-0.49	0.64	0.75	0.89	1.08	1.26	1.05	0.85	0.70	0.40	0.18	-0.03	
23	-0.50	0.64	0.74	0.86	1.08	1.23	1.02	0.85	0.70	0.39	0.17	-0.04	
24	-0.51	0.69	0.74	0.86	1.15	1.30	1.05	0.85	0.69	0.39	0.16	-0.04	
25	-0.52	0.79	0.72	0.87	1.18	1.35	1.06	0.80	0.69	0.39	0.15	-0.05	
26	-0.53	0.81	0.76	0.89	1.03	1.39	1.04	0.78	0.68	0.39	0.14	-0.05	
27	-0.54	0.80	0.78	0.88	0.99	1.33	0.97	0.76	0.65	0.38	0.13	-0.06	
28	-0.55	0.77	0.81	0.86	1.05	1.24	0.96	0.75	0.64	0.38	0.12	-0.07	
29	-0.56	0.75	0.84	0.84	1.05	1.15	1.00	0.75	0.63	0.37		-0.08	
30	-0.57	0.73	0.92	0.83	1.05	1.10	0.99	0.80	0.62	0.36		-0.09	
31		0.72		0.82	1.18		0.97		0.62	0.34		-0.10	
Mean	-0.50	0.06	0.75	0.86	1.01	1.19	1.06	0.85	0.75	0.47	0.23	0.01	
Max	-0.44	0.81	0.92	0.94	1.18	1.39	1.18	0.89	0.85	0.62	0.33	0.12	1.39
Min	-0.57	-0.37	0.67	0.82	0.82	1.03	0.96	0.75	0.62	0.34	0.12	-0.10	-0.57

Annual Max Momentary Gage Height 1.39 M (A.D), at 18.00 Hours, on Sep 26, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.64 M (A.D)
Left Bank Elevation 2.24 M (A.D)
Right Bank Elevation 2.19 M (A.D), Drainage Area 207 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.71	0.42	5.86	3.15	0.75	0.57	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.71	0.52	6.33	3.15	0.71	0.38	0.00	0.00	0.00	
3	0.00	0.00	0.23	0.66	0.57	6.09	3.48	0.71	0.38	0.00	0.00	0.00	
4	0.00	0.00	0.42	0.66	0.71	6.33	3.30	0.71	0.42	0.00	0.00	0.00	
5	0.00	0.00	0.23	0.66	1.30	6.09	3.15	0.71	0.47	0.00	0.00	0.00	
6	0.00	0.00	0.17	0.61	1.40	5.62	3.30	0.71	0.38	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.61	2.40	4.41	4.78	0.71	0.33	0.00	0.00	0.00	
8	0.00	0.00	0.07	0.61	1.60	3.15	3.67	0.71	0.33	0.00	0.00	0.00	
9	0.00	0.00	0.13	0.52	1.95	2.55	3.85	0.71	0.33	0.00	0.00	0.00	
10	0.00	0.00	0.03	1.20	1.70	2.25	4.22	0.61	0.33	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.71	2.55	3.00	3.30	0.66	0.33	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.57	2.40	3.00	2.55	0.66	0.33	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.52	2.40	3.15	2.40	0.66	0.33	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.47	2.55	3.15	2.55	0.61	0.30	0.00	0.00	0.00	
15	0.00	0.00	0.47	0.57	2.40	3.30	2.55	0.61	0.26	0.00	0.00	0.00	
16	0.00	0.00	0.47	0.61	1.95	4.97	2.55	0.57	0.26	0.00	0.00	0.00	
17	0.00	0.00	0.30	0.61	2.25	5.15	2.25	0.52	0.23	0.00	0.00	0.00	
18	0.00	0.00	0.20	0.61	2.10	5.15	2.10	0.47	0.17	0.00	0.00	0.00	
19	0.00	0.00	0.13	0.66	1.30	5.39	2.55	0.47	0.07	0.00	0.00	0.00	
20	0.00	0.00	0.13	0.66	1.50	5.39	3.00	0.52	0.03	0.00	0.00	0.00	
21	0.00	0.00	0.13	0.71	3.00	6.33	3.00	0.57	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.17	0.75	3.00	6.56	2.55	0.57	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.13	0.61	3.00	5.86	2.10	0.57	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.13	0.61	4.22	7.50	2.55	0.57	0.00	0.00	0.00	0.00	
25	0.00	0.30	0.07	0.66	4.78	8.95	2.70	0.33	0.00	0.00	0.00	0.00	
26	0.00	0.38	0.20	0.75	2.25	10.11	2.40	0.26	0.00	0.00	0.00	0.00	
27	0.00	0.33	0.26	0.71	1.70	8.37	1.50	0.20	0.00	0.00	0.00	0.00	
28	0.00	0.23	0.38	0.61	2.55	6.09	1.40	0.17	0.00	0.00	0.00	0.00	
29	0.00	0.17	0.52	0.52	2.55	4.22	1.80	0.17	0.00	0.00		0.00	
30	0.00	0.10	1.00	0.47	2.55	3.30	1.70	0.33	0.00	0.00		0.00	
31		0.07		0.42	4.78		1.50		0.00	0.00		0.00	
Total	0.00	1.58	5.97	19.76	68.35	157.62	85.05	16.53	6.23	0.00	0.00	0.00	361.09 CMSDAY
Mean	0.00	0.05	0.20	0.64	2.20	5.25	2.74	0.55	0.20	0.00	0.00	0.00	0.99 CMS
Max	0.00	0.38	1.00	1.20	4.78	10.11	4.78	0.75	0.57	0.00	0.00	0.00	10.11 CMS
Min	0.00	0.00	0.00	0.42	0.42	2.25	1.40	0.17	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.137	0.516	1.707	5.905	13.618	7.348	1.428	0.538	0.000	0.000	0.000	31.198 MCM

Momentary Peak 10.11 CMS, at 1.39 M (A.D), at 18.00 Hours, on Sep 26, 1994

Runoff Yield 4.78 Liters/Second/Square KM, Momentary Peak Yield 48.84 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

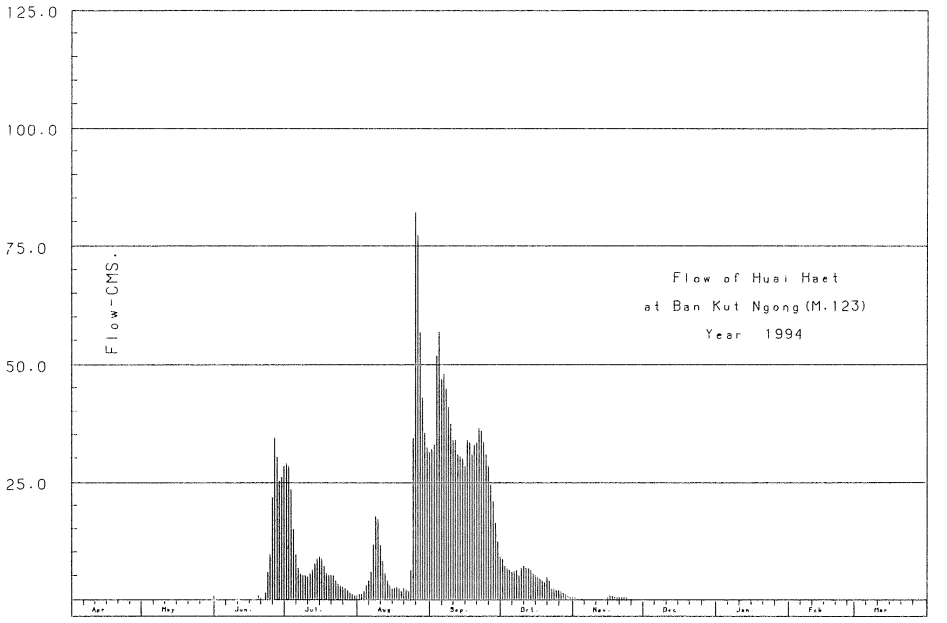
Huai Haet at Ban Kut Naong, Si Sa Ket (M.123)

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 Of 24 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +3.86 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 9 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.35	3.20	3.89	4.44	3.94	4.50	4.14	3.92	3.85	3.73	3.66	3.44	
2	3.34	3.20	3.89	4.43	3.94	4.52	4.11	3.92	3.85	3.73	3.66	3.43	
3	3.33	3.20	3.89	4.36	3.96	4.90	4.10	3.91	3.85	3.73	3.65	3.43	
4	3.31	3.19	3.88	4.25	4.00	5.00	4.09	3.91	3.85	3.73	3.64	3.42	
5	3.30	3.20	3.88	4.16	4.03	4.80	4.08	3.90	3.85	3.73	3.63	3.42	
6	3.30	3.20	3.88	4.10	4.08	4.82	4.08	3.89	3.85	3.73	3.62	3.41	
7	3.30	3.20	3.84	4.07	4.20	4.76	4.09	3.88	3.85	3.73	3.61	3.41	
8	3.30	3.20	3.88	4.06	4.29	4.68	4.06	3.88	3.85	3.73	3.60	3.40	
9	3.30	3.20	3.88	4.06	4.28	4.61	4.10	3.88	3.84	3.71	3.60	3.40	
10	3.30	3.20	3.88	4.05	4.20	4.54	4.11	3.87	3.84	3.71	3.60	3.40	
11	3.30	3.20	3.88	4.07	4.13	4.54	4.10	3.86	3.83	3.70	3.58	3.39	
12	3.30	3.20	3.88	4.09	4.07	4.48	4.10	3.85	3.83	3.69	3.57	3.37	
13	3.31	3.20	3.89	4.12	4.03	4.47	4.09	3.85	3.83	3.68	3.57	3.36	
14	3.31	3.19	3.89	4.14	4.00	4.46	4.07	3.90	3.83	3.67	3.57	3.36	
15	3.31	3.19	3.89	4.15	3.98	4.43	4.06	3.92	3.83	3.67	3.57	3.36	
16	3.30	3.21	3.89	4.14	3.98	4.54	4.05	3.93	3.82	3.67	3.56	3.35	
17	3.29	3.47	3.89	4.11	3.99	4.53	4.04	3.93	3.82	3.67	3.54	3.34	
18	3.28	3.76	3.88	4.07	3.98	4.48	4.03	3.92	3.81	3.67	3.53	3.34	
19	3.28	3.89	3.93	4.06	3.96	4.52	4.02	3.92	3.81	3.67	3.52	3.34	
20	3.28	3.89	3.91	4.06	3.98	4.53	4.05	3.92	3.80	3.67	3.52	3.34	
21	3.28	3.89	3.90	4.06	3.97	4.59	4.03	3.92	3.80	3.67	3.50	3.33	
22	3.28	3.87	3.95	4.03	3.96	4.58	3.98	3.92	3.79	3.67	3.50	3.33	
23	3.27	3.86	4.08	4.01	4.09	4.53	3.98	3.92	3.77	3.67	3.50	3.33	
24	3.26	3.86	4.16	4.00	4.55	4.48	3.97	3.91	3.76	3.67	3.48	3.34	
25	3.24	3.88	4.34	3.99	5.48	4.43	3.97	3.91	3.74	3.67	3.46	3.33	
26	3.24	3.89	4.55	3.98	5.39	4.37	3.96	3.90	3.74	3.67	3.45	3.33	
27	3.23	3.89	4.47	3.97	5.00	4.33	3.95	3.90	3.74	3.68	3.45	3.33	
28	3.23	3.89	4.38	3.95	4.72	4.27	3.94	3.88	3.74	3.68	3.45	3.33	
29	3.23	3.89	4.39	3.94	4.57	4.21	3.93	3.86	3.74	3.68		3.33	
30	3.22	3.90	4.43	3.93	4.51	4.15	3.92	3.85	3.73	3.68		3.33	
31		3.93		3.93	4.49		3.92		3.73	3.67		3.33	
Mean	3.29	3.51	4.01	4.09	4.25	4.54	4.04	3.90	3.81	3.69	3.56	3.37	
Max	3.35	3.93	4.55	4.44	5.48	5.00	4.14	3.93	3.85	3.73	3.66	3.44	5.48
Min	3.22	3.19	3.84	3.93	3.94	4.15	3.92	3.85	3.73	3.67	3.45	3.33	3.19

Annual Max Momentary Gage Height 5.52 M (A.D), at 19.00 Hours, on Aug 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.30 M (A.D)
Left Bank Elevation 4.42 M (A.D)
Right Bank Elevation 3.85 M (A.D), Drainage Area 387 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	29.00	1.20	32.00	8.70	0.60	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	28.50	1.20	33.00	7.20	0.60	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	23.60	1.80	52.00	6.70	0.30	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	15.10	3.00	57.00	6.33	0.30	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	9.70	4.11	47.00	5.96	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	6.70	5.96	48.00	5.96	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	5.59	11.70	45.00	6.33	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	5.22	17.82	41.00	5.22	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	5.22	17.14	37.50	6.70	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	4.85	11.70	34.00	7.20	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	5.59	8.20	34.00	6.70	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	6.33	5.59	31.00	6.70	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	7.70	4.11	30.50	6.33	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	8.70	3.00	30.00	5.59	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	9.20	2.40	28.50	5.22	0.60	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	8.70	2.40	34.00	4.85	0.90	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	7.20	2.70	33.50	4.48	0.90	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	5.59	2.40	31.00	4.11	0.60	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.90	5.22	1.80	33.00	3.74	0.60	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.30	5.22	2.40	33.50	4.85	0.60	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	5.22	2.10	36.50	4.11	0.60	0.00	0.00	0.00	0.00	
22	0.00	0.00	1.50	4.11	1.80	36.00	2.40	0.60	0.00	0.00	0.00	0.00	
23	0.00	0.00	5.96	3.37	6.33	33.50	2.40	0.60	0.00	0.00	0.00	0.00	
24	0.00	0.00	9.70	3.00	34.50	31.00	2.10	0.30	0.00	0.00	0.00	0.00	
25	0.00	0.00	21.90	2.70	82.40	28.50	2.10	0.30	0.00	0.00	0.00	0.00	
26	0.00	0.00	34.50	2.40	77.45	24.45	1.80	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	30.50	2.10	57.00	21.05	1.50	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	25.30	1.50	43.00	16.46	1.20	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	26.15	1.20	35.50	12.38	0.90	0.00	0.00	0.00		0.00	
30	0.00	0.00	28.50	0.90	32.50	9.20	0.60	0.00	0.00	0.00		0.00	
31		0.90		0.90	31.50		0.60		0.00	0.00		0.00	
Total	0.00	0.90	185.21	230.33	514.71	994.54	138.58	8.40	0.00	0.00	0.00	0.00	2072.67 CMSDAY
Mean	0.00	0.03	6.17	7.43	16.60	33.15	4.47	0.28	0.00	0.00	0.00	0.00	5.68 CMS
Max	0.00	0.90	34.50	29.00	82.40	57.00	8.70	0.90	0.00	0.00	0.00	0.00	82.40 CMS
Min	0.00	0.00	0.00	0.90	1.20	9.20	0.60	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.078	16.002	19.901	44.471	85.928	11.973	0.726	0.000	0.000	0.000	0.000	179.079 MCM

Momentary Peak 84.60 CMS, at 5.52 M (A.D), at 19.00 Hours, on Aug 25, 1994

Runoff Yield 14.67 Liters/Second/Square KM, Momentary Peak Yield 218.60 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

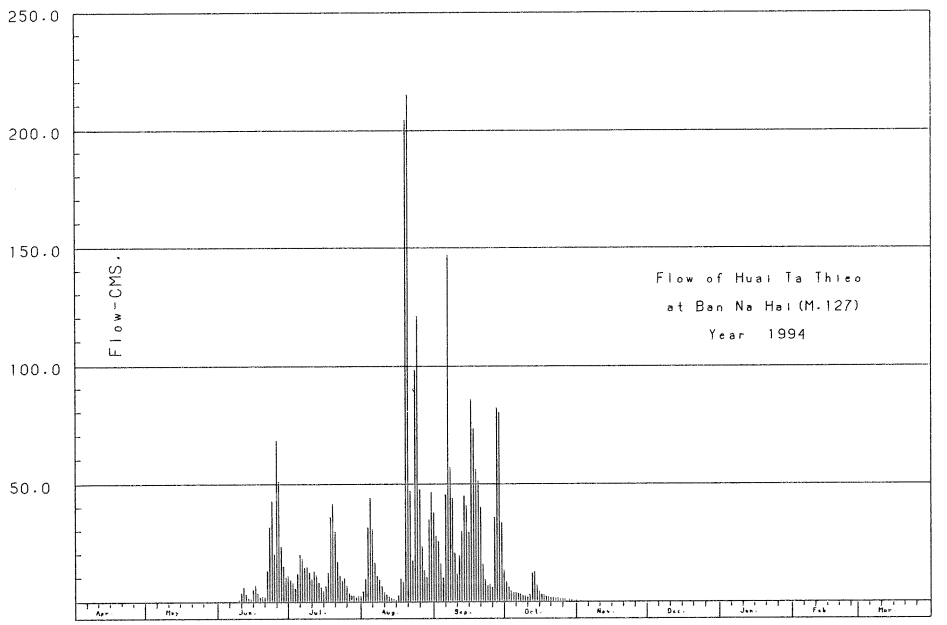
Huai Ta Thieo at Ban Na Hai, Ubon Ratchathani (M.127)

Location	Lat. 15°-38'-37" N., Long. 104°-55'-57" E., on left bank at the bridge on road, Ban Na Hai, Tambon Na Samai, Amphoe Trakan Phutphon, Ubon Ratchathani.
Drainage Area	414 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+11.514 m.(A.D.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.23	1.22	1,33	1.98	1.78	2.32	1.94	1.37	1.27	1.22	1.12	1.02	
2	1.23	1.20	1.32	1.92	1.99	2.30	1.86	1.36	1.27	1.22	1.11	1.02	
3	1.22	1.20	1.32	1.84	2.36	2.15	1.77	1.36	1.27	1.22	1.11	1.02	
4	1.21	1.19	1.30	2.06	2.59	2.01	1.75	1.34	1.27	1.21	1.10	1.01	
5	1.20	1.18	1.30	2.22	2.35	2.62	1.73	1.33	1.27	1.20	1.10	1.01	
6	1.20	1.29	1.29	2.19	2.16	4.42	1.72	1.33	1.26	1.20	1.10	1.01	
7	1.19	1.36	1.28	2.12	2.04	2.87	1.68	1.33	1.26	1.20	1.10	1.00	
8	1.18	1.31	1.31	2.13	1.98	2.58	1.64	1.33	1.26	1.19	1.10	1.00	
9	1.18	1.29	1.42	2.08	1.88	2.23	1.60	1.33	1.26	1.19	1.09	0.99	
10	1.17	1.27	1.74	2.00	1.75	2.06	1.58	1.32	1.26	1.19	1.09	0.99	
11	1.16	1.26	1.85	2.09	1.69	2.21	1.66	1.32	1.25	1.19	1.08	0.99	
12	1.15	1.25	1.68	2.04	1.58	2.34	2.07	1.31	1.25	1.18	1.08	0.98	
13	1.14	1.25	1.54	1.94	1.54	2.61	2.08	1.31	1.25	1.18	1.07	0.97	
14	1.14	1.23	1.47	1.85	1.48	2.51	1.89	1.31	1.25	1.18	1.07	0.97	
15	1.13	1.23	1.82	1.78	1.45	2.34	1.77	1.30	1.25	1.18	1.06	0.96	
16	1.13	1.22	1.88	1.88	1.63	3.41	1.70	1.30	1.30	1.18	1.06	0.96	
17	1.12	1.23	1.71	2.07	2.00	3.19	1.65	1.30	1.29	1.17	1.06	0.95	
18	1.11	1.26	1.57	2.41	1.95	2.85	1.61	1.30	1.28	1.17	1.06	0.95	
19	1.10	1.30	1.59	2.53	5.26	2.75	1.57	1.31	1.27	1.17	1.06	0.95	
20	1.08	1.30	1.58	2.34	5.41	2.50	1.55	1.30	1.26	1.16	1.05	0.94	
21	1.08	1.28	2.10	2.17	2.65	2.15	1.53	1.30	1.26	1.16	1.05	0.94	
22	1.23	1.27	2.36	2.04	2.18	1.98	1.53	1.29	1.25	1.16	1.05	0.93	
23	1.26	1.26	2.56	1.97	3.64	1.89	1.52	1.29	1.25	1.15	1.04	0.93	
24	1.25	1.25	2.22	2.00	4.02	1.90	1.50	1.28	1.25	1.15	1.04	0.92	
25	1.23	1.26	3.10	1.88	2.67	1.86	1.50	1.28	1.25	1.15	1.04	0.92	
26	1.22	1.26	2.74	1.73	2.27	2.40	1.46	1.28	1.24	1.14	1.04	0.92	
27	1.24	1.25	2.27	1.65	2.10	3.35	1.44	1.27	1.24	1.14	1.03	0.91	
28	1.24	1.27	2.13	1.62	2.02	3.31	1.43	1.27	1.24	1.14	1.02	0.91	
29	1.24	1.27	2.02	1.57	2.39	2.38	1.41	1.27	1.23	1.14		0.90	
30	1.24	1.26	2.03	1.61	2.64	2.10	1.40	1.27	1.22	1.13		0.90	
31		1.32		1.59	2.45		1.39		1.22	1.12		0.90	
Mean	1.18	1.26	1.79	1.98	2.38	2.52	1.64	1.31	1.26	1.17	1.07	0.96	
Max	1.26	1.36	3.10	2.53	5.41	4.42	2.08	1.37	1.30	1.22	1.12	1.02	5.41
Min	1.08	1.18	1.28	1.57	1.45	1.86	1.39	1.27	1.22	1.12	1.02	0.90	0.90

Annual Max Momentary Gage Height 6.71 M (A.D), at 22.00 Hours, on Aug 19, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.72 M (A.D)
Left Bank Elevation 6.22 M (A.D)
Right Bank Elevation 6.00 M (A.D), Drainage Area 414 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.04	0.38	9.50	4.70	28.00	8.50	0.62	0.14	0.04	0.00	0.00	
2	0.06	0.00	0.32	8.00	9.75	26.00	6.50	0.56	0.14	0.04	0.00	0.00	
3	0.04	0.00	0.32	6.00	32.00	16.25	4.55	0.56	0.14	0.04	0.00	0.00	
4	0.02	0.00	0.20	12.10	44.55	10.35	4.25	0.44	0.14	0.02	0.00	0.00	
5	0.00	0.00	0.20	20.40	31.00	45.90	3.95	0.38	0.14	0.00	0.00	0.00	
6	0.00	0.18	0.18	18.45	16.80	147.30	3.80	0.38	0.12	0.00	0.00	0.00	
7	0.00	0.56	0.16	14.60	11.40	57.50	3.30	0.38	0.12	0.00	0.00	0.00	
8	0.00	0.26	0.26	15.15	9.50	44.10	2.90	0.38	0.12	0.00	0.00	0.00	
9	0.00	0.18	0.94	12.80	7.00	21.10	2.50	0.38	0.12	0.00	0.00	0.00	
10	0.00	0.14	4.10	10.00	4.25	12.10	2.30	0.32	0.12	0.00	0.00	0.00	
11	0.00	0.12	6.25	13.15	3.40	19.70	3.10	0.32	0.10	0.00	0.00	0.00	
12	0.00	0.10	3.30	11.40	2.30	30.00	12.45	0.26	0.10	0.00	0.00	0.00	
13	0.00	0.10	1.90	8.50	1.90	45.45	12.80	0.26	0.10	0.00	0.00	0.00	
14	0.00	0.06	1.29	6.25	1.36	40.95	7.25	0.26	0.10	0.00	0.00	0.00	
15	0.00	0.06	5.50	4.70	1.15	30.00	4.55	0.20	0.10	0.00	0.00	0.00	
16	0.00	0.04	7.00	7.00	2.80	86.05	3.50	0.20	0.20	0.00	0.00	0.00	
17	0.00	0.06	3.65	12.45	10.00	73.95	3.00	0.20	0.18	0.00	0.00	0.00	
18	0.00	0.12	2.20	36.45	8.75	56.50	2.60	0.20	0.16	0.00	0.00	0.00	
19	0.00	0.20	2.40	41.85	204.20	51.75	2.20	0.26	0.14	0.00	0.00	0.00	
20	0.00	0.20	2.30	30.00	215.25	40.50	2.00	0.20	0.12	0.00	0.00	0.00	
21	0.00	0.16	13.50	17.35	47.25	16.25	1.80	0.20	0.12	0.00	0.00	0.00	
22	0.06	0.14	32.00	11.40	17.90	9.50	1.80	0.18	0.10	0.00	0.00	0.00	
23	0.12	0.12	43.20	9.25	98.70	7.25	1.70	0.18	0.10	0.00	0.00	0.00	
24	0.10	0.10	20.40	10.00	121.30	7.50	1.50	0.16	0.10	0.00	0.00	0.00	
25	0.06	0.12	69.00	7.00	48.15	6.50	1.50	0.16	0.10	0.00	0.00	0.00	
26	0.04	0.12	51.30	3.95	23.90	36.00	1.22	0.16	0.08	0.00	0.00	0.00	
27	0.08	0.10	23.90	3.00	13.50	82.75	1.08	0.14	0.08	0.00	0.00	0.00	
28	0.08	0.14	15.15	2.70	10.70	80.55	1.01	0.14	0.08	0.00	0.00	0.00	
29	0.08	0.14	10.70	2.20	35.00	34.00	0.87	0.14	0.06	0.00		0.00	
30	0.08	0.12	11.05	2.60	46.80	13.50	0.80	0.14	0.04	0.00		0.00	
31		0.32		2.40	38.25		0.74		0.04	0.00		0.00	
Total	0.88	4.00	333.05	370.60	1123.51	1177.25	110.02	8.36	3.50	0.14	0.00	0.00	3131.31 CMSDAY
Mean	0.03	0.13	11.10	11.95	36.24	39.24	3.55	0.28	0.11	0.00	0.00	0.00	8.58 CMS
Max	0.12	0.56	69.00	41.85	215.25	147.30	12.80	0.62	0.20	0.04	0.00	0.00	215.25 CMS
Min	0.00	0.00	0.16	2.20	1.15	6.50	0.74	0.14	0.04	0.00	0.00	0.00	0.00 CMS
Runoff	0.076	0.346	28.776	32.020	97.071	101.714	9.506	0.722	0.302	0.012	0.000	0.000	270.545 MCM

Momentary Peak 316.80 CMS, at 6.71 M (A.D), at 22.00 Hours, on Aug 19, 1994
Runoff Yield 20.72 Liters/Second/Square KM, Momentary Peak Yield 765.22 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

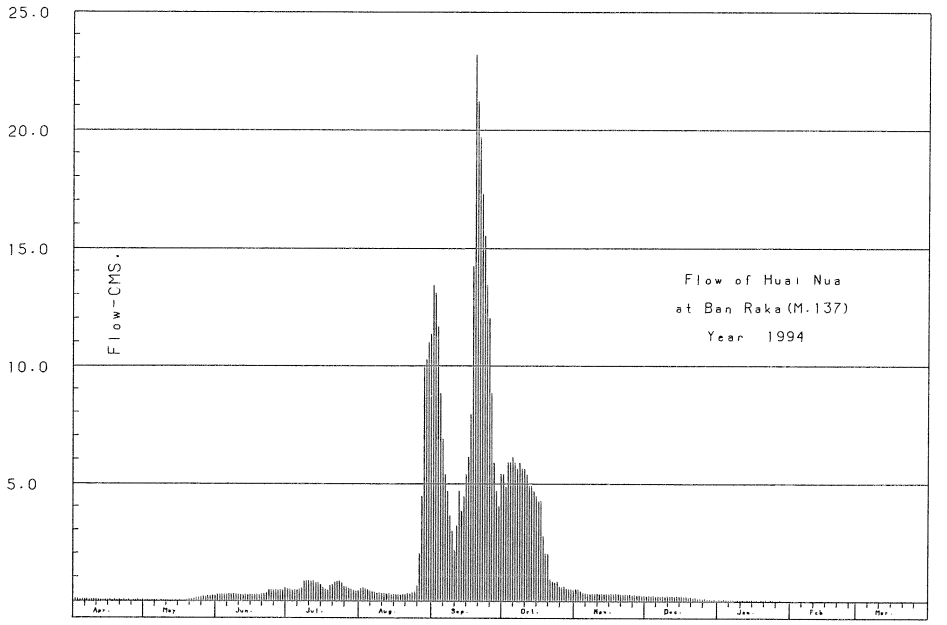
Huai Nua at Ban Raka, Si Sa Ket (M.137)

Location	Lat. 14°-47'-31" N., Long. 104°-10'-40" E., on right bank at the bridge on road, Ban Raka, Tambon Khok Phet, Amphoe Khu Khan, Si Sa Ket.
Drainage Area	397 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank upstream side at the abutment of the bridge.
Elevation	+4.625 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +1.22 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 7 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.11	0.97	1.19	1.28	1.28	1.89	1.62	1.28	1.17	1.07	0.94	0.64	
2	1.10	0.97	1.20	1.27	1.30	1.88	1.60	1.27	1.17	1.07	0.92	0.63	
3	1.08	0.96	1.20	1.26	1.28	1.84	1.64	1.25	1.17	1.06	0.90	0.62	
4	1.09	0.96	1.20	1.26	1.27	1.75	1.64	1.22	1.17	1.06	0.89	0.60	
5	1.09	0.94	1.20	1.26	1.25	1.68	1.65	1.22	1.16	1.05	0.88	0.59	
6	1.08	0.93	1.20	1.27	1.24	1.62	1.64	1.21	1.16	1.05	0.85	0.57	
7	1.08	0.92	1.20	1.29	1.23	1.59	1.63	1.21	1.16	1.04	0.84	0.56	
8	1.07	0.91	1.20	1.34	1.22	1.54	1.64	1.21	1.16	1.04	0.83	0.55	
9	1.06	0.91	1.20	1.34	1.22	1.51	1.63	1.21	1.16	1.03	0.82	0.54	
10	1.05	0.92	1.19	1.34	1.22	1.46	1.63	1.21	1.16	1.03	0.81	0.53	
11	1.05	0.93	1.19	1.34	1.21	1.52	1.62	1.21	1.16	1.02	0.80	0.52	
12	1.04	0.93	1.19	1.34	1.21	1.59	1.60	1.21	1.16	1.02	0.79	0.51	
13	1.04	0.92	1.19	1.33	1.21	1.55	1.60	1.21	1.16	1.01	0.78	0.50	
14	1.03	0.92	1.19	1.33	1.20	1.58	1.59	1.21	1.16	1.01	0.77	0.40	
15	1.03	0.91	1.19	1.32	1.20	1.62	1.58	1.21	1.16	1.00	0.76	0.30	
16	1.03	0.91	1.19	1.30	1.20	1.65	1.57	1.21	1.16	1.00	0.75	0.29	
17	1.02	0.90	1.19	1.27	1.19	1.72	1.57	1.21	1.15	0.99	0.74	0.26	
18	1.02	0.91	1.19	1.26	1.19	1.91	1.50	1.21	1.15	0.99	0.73	0.25	
19	1.01	1.03	1.19	1.31	1.19	2.10	1.45	1.21	1.14	0.98	0.71	0.25	
20	1.00	1.07	1.20	1.32	1.20	2.06	1.45	1.20	1.14	0.98	0.70	0.25	
21	1.00	1.10	1.20	1.33	1.21	2.03	1.35	1.20	1.13	0.97	0.70	0.24	
22	0.99	1.11	1.22	1.34	1.21	1.98	1.34	1.20	1.13	0.97	0.69	0.23	
23	0.99	1.12	1.26	1.34	1.22	1.94	1.33	1.20	1.12	0.97	0.69	0.22	
24	0.98	1.13	1.26	1.33	1.24	1.89	1.34	1.20	1.12	0.97	0.67	0.22	
25	0.98	1.14	1.26	1.31	1.31	1.85	1.31	1.19	1.11	0.96	0.67	0.21	
26	0.98	1.15	1.26	1.30	1.45	1.75	1.30	1.19	1.11	0.96	0.66	0.26	
27	0.97	1.15	1.26	1.29	1.58	1.64	1.31	1.18	1.10	0.96	0.65	0.26	
28	0.97	1.16	1.26	1.27	1.79	1.59	1.28	1.18	1.10	0.96	0.65	0.25	
29	0.97	1.16	1.26	1.26	1.80	1.56	1.28	1.17	1.09	0.95		0.24	
30	0.97	1.17	1.29	1.24	1.82	1.62	1.27	1.17	1.08	0.95		0.23	
31		1.18		1.25	1.83		1.26		1.08	0.95		0.22	
Mean	1.03	1.01	1.21	1.30	1.32	1.73	1.49	1.21	1.14	1.00	0.77	0.39	
Max	1.11	1.18	1.29	1.34	1.83	2.10	1.65	1.28	1.17	1.07	0.94	0.64	2.10
Min	0.97	0.90	1.19	1.24	1.19	1.46	1.26	1.17	1.08	0.95	0.65	0.21	0.21

Annual Max Momentary Gage Height 2.10 M (A.D), at 18.00 Hours, on Sep 19, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.08 M (A.D)
Left Bank Elevation 1.21 M (A.D)
Right Bank Elevation 1.52 M (A.D), Drainage Area 397 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.07	0.28	0.54	0.54	13.45	5.40	0.54	0.24	0.09	0.06	0.00	
2	0.10	0.07	0.30	0.51	0.60	13.10	4.90	0.51	0.24	0.09	0.05	0.00	
3	0.09	0.06	0.30	0.48	0.54	11.70	5.90	0.45	0.24	0.09	0.05	0.00	
4	0.10	0.06	0.30	0.48	0.51	8.85	5.90	0.36	0.24	0.09	0.04	0.00	
5	0.10	0.06	0.30	0.48	0.45	6.90	6.15	0.36	0.22	0.09	0.04	0.00	
6	0.09	0.05	0.30	0.51	0.42	5.40	5.90	0.33	0.22	0.09	0.03	0.00	
7	0.09	0.05	0.30	0.57	0.39	4.69	5.65	0.33	0.22	0.08	0.03	0.00	
8	0.09	0.05	0.30	0.86	0.36	3.64	5.90	0.33	0.22	0.08	0.03	0.00	
9	0.09	0.05	0.30	0.86	0.36	3.01	5.65	0.33	0.22	0.08	0.03	0.00	
10	0.09	0.05	0.28	0.86	0.36	2.18	5.65	0.33	0.22	0.08	0.02	0.00	
11	0.09	0.05	0.28	0.86	0.33	3.22	5.40	0.33	0.22	0.08	0.02	0.00	
12	0.08	0.05	0.28	0.86	0.33	4.69	4.90	0.33	0.22	0.08	0.02	0.00	
13	0.08	0.05	0.28	0.80	0.33	3.85	4.90	0.33	0.22	0.08	0.02	0.00	
14	0.08	0.05	0.28	0.80	0.30	4.48	4.69	0.33	0.22	0.08	0.02	0.00	
15	0.08	0.05	0.28	0.73	0.30	5.40	4.48	0.33	0.22	0.07	0.02	0.00	
16	0.08	0.05	0.28	0.60	0.30	6.15	4.27	0.33	0.22	0.07	0.01	0.00	
17	0.08	0.05	0.28	0.51	0.28	7.98	4.27	0.33	0.20	0.07	0.01	0.00	
18	0.08	0.05	0.28	0.48	0.28	14.24	2.80	0.33	0.20	0.07	0.01	0.00	
19	0.08	0.08	0.28	0.66	0.28	23.20	2.03	0.33	0.18	0.07	0.01	0.00	
20	0.07	0.09	0.30	0.73	0.30	21.20	2.03	0.30	0.18	0.07	0.01	0.00	
21	0.07	0.10	0.30	0.80	0.33	19.70	0.93	0.30	0.16	0.07	0.01	0.00	
22	0.07	0.12	0.36	0.86	0.33	17.32	0.86	0.30	0.16	0.07	0.01	0.00	
23	0.07	0.14	0.48	0.86	0.36	15.56	0.80	0.30	0.14	0.07	0.01	0.00	
24	0.07	0.16	0.48	0.80	0.42	13.45	0.86	0.30	0.14	0.07	0.01	0.00	
25	0.07	0.18	0.48	0.66	0.66	12.05	0.66	0.28	0.12	0.06	0.01	0.00	
26	0.07	0.20	0.48	0.60	2.03	8.85	0.60	0.28	0.12	0.06	0.01	0.00	
27	0.07	0.20	0.48	0.57	4.48	5.90	0.66	0.26	0.10	0.06	0.00	0.00	
28	0.07	0.22	0.48	0.51	10.01	4.69	0.54	0.26	0.10	0.06	0.00	0.00	
29	0.07	0.22	0.48	0.48	10.30	4.06	0.54	0.24	0.10	0.06		0.00	
30	0.07	0.24	0.57	0.42	11.00	5.40	0.51	0.24	0.09	0.06		0.00	
31		0.26		0.45	11.35		0.48		0.09	0.06		0.00	
Total	2.46	3.18	10.37	20.19	58.83	274.31	104.21	9.90	5.68	2.30	0.59	0.00	492.02 CMSDAY
Mean	0.08	0.10	0.35	0.65	1.90	9.14	3.36	0.33	0.18	0.07	0.02	0.00	1.35 CMS
Max	0.12	0.26	0.57	0.86	11.35	23.20	6.15	0.54	0.24	0.09	0.06	0.00	23.20 CMS
Min	0.07	0.05	0.28	0.42	0.28	2.18	0.48	0.24	0.09	0.06	0.00	0.00	0.00 CMS
Runoff	0.213	0.275	0.896	1.744	5.083	23.700	9.004	0.855	0.491	0.199	0.051	0.000	42.511 MCM

Momentary Peak 23.20 CMS, at 2.10 M (A.D), at 18.00 Hours, on Sep 19, 1994
Runoff Yield 3.40 Liters/Second/Square KM, Momentary Peak Yield 58.44 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

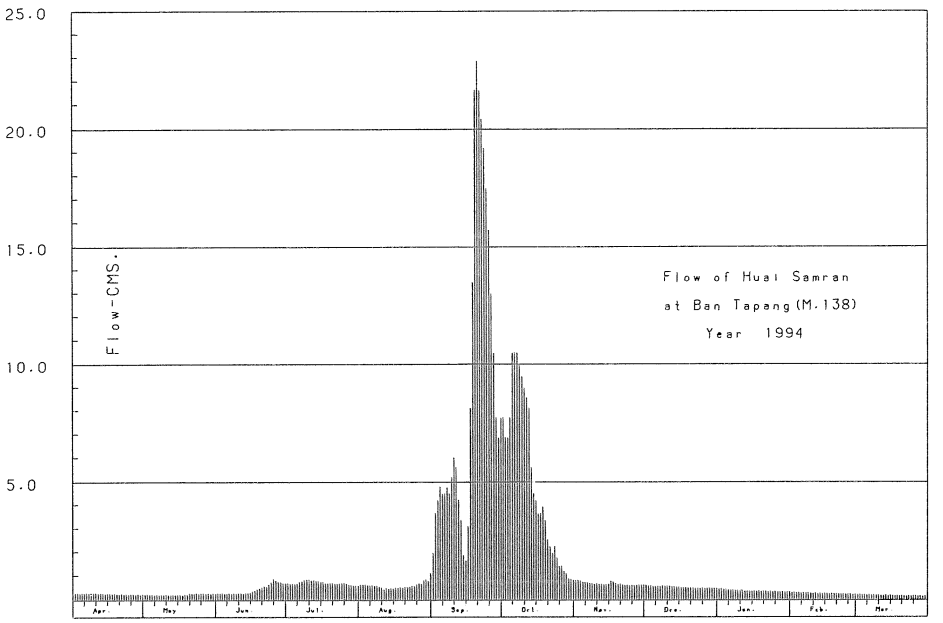
Huai Samran at Ban Ta Pang, Si Sa Ket (M.138)

Location	Lat. 14-46-54 N., Long. 104-07-32 E., on right bank at the bridge on road, Ban Ta Pang, Tambon Khok Phet, Amphoe Khu Khan, Si Sa Ket.
Drainage Area	1,038 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Department.
Location	On right bank downstream side at the abutment of the bridge.
Elevation	+5.108 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +2.41 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 5 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.76	1.59	1.71	2.30	2.25	2.50	2.67	2.37	2.23	2.08	1.83	1.59	
2	1.75	1.58	1.72	2.29	2.26	2.56	2.65	2.38	2.22	2.08	1.80	1.58	
3	1.74	1.57	1.71	2.28	2.25	2.58	2.65	2.36	2.21	2.07	1.79	1.57	
4	1.75	1.56	1.71	2.28	2.24	2.60	2.67	2.34	2.20	2.06	1.78	1.56	
5	1.76	1.55	1.71	2.30	2.23	2.59	2.73	2.33	2.19	2.05	1.76	1.56	
6	1.76	1.54	1.70	2.33	2.22	2.59	2.73	2.32	2.18	2.04	1.75	1.55	
7	1.76	1.55	1.70	2.35	2.21	2.60	2.73	2.31	2.19	2.03	1.75	1.54	
8	1.75	1.56	1.71	2.37	2.20	2.59	2.72	2.30	2.20	2.02	1.74	1.53	
9	1.75	1.57	1.70	2.39	2.17	2.61	2.71	2.28	2.20	2.00	1.73	1.52	
10	1.74	1.57	1.70	2.38	2.12	2.63	2.70	2.30	2.19	1.99	1.73	1.51	
11	1.73	1.56	1.68	2.37	2.06	2.62	2.69	2.28	2.19	1.98	1.72	1.50	
12	1.72	1.56	1.69	2.37	2.10	2.58	2.68	2.27	2.18	1.97	1.71	1.50	
13	1.71	1.55	1.70	2.36	2.09	2.55	2.62	2.26	2.17	1.96	1.71	1.49	
14	1.70	1.54	1.75	2.35	2.09	2.49	2.59	2.25	2.16	1.97	1.70	1.48	
15	1.69	1.54	1.80	2.34	2.10	2.47	2.58	2.29	2.15	1.96	1.69	1.47	
16	1.68	1.53	1.89	2.33	2.12	2.54	2.56	2.35	2.14	1.95	1.69	1.46	
17	1.67	1.53	2.01	2.31	2.12	2.68	2.56	2.34	2.13	1.94	1.68	1.45	
18	1.67	1.58	2.05	2.30	2.13	2.79	2.57	2.30	2.12	1.94	1.67	1.45	
19	1.66	1.59	2.10	2.31	2.13	2.93	2.55	2.28	2.12	1.93	1.67	1.44	
20	1.65	1.69	2.13	2.31	2.15	2.95	2.52	2.27	2.11	1.93	1.66	1.43	
21	1.64	1.70	2.17	2.30	2.16	2.93	2.51	2.25	2.11	1.92	1.65	1.43	
22	1.63	1.71	2.17	2.30	2.17	2.91	2.50	2.24	2.10	1.91	1.64	1.42	
23	1.62	1.71	2.25	2.30	2.19	2.89	2.51	2.23	2.09	1.91	1.63	1.41	
24	1.62	1.71	2.33	2.31	2.20	2.86	2.48	2.22	2.10	1.90	1.62	1.42	
25	1.61	1.70	2.39	2.31	2.25	2.83	2.45	2.22	2.11	1.90	1.61	1.43	
26	1.61	1.70	2.36	2.28	2.29	2.78	2.45	2.23	2.11	1.89	1.60	1.43	
27	1.61	1.69	2.34	2.26	2.30	2.73	2.43	2.24	2.11	1.88	1.60	1.42	
28	1.60	1.69	2.33	2.23	2.37	2.67	2.42	2.23	2.10	1.87	1.59	1.41	
29	1.60	1.68	2.30	2.22	2.38	2.65	2.40	2.25	2.10	1.86		1.40	
30	1.59	1.67	2.31	2.20	2.36	2.67	2.39	2.24	2.09	1.86		1.39	
31		1.69		2.21	2.42		2.38		2.09	1.85		1.38	
Mean	1.68	1.61	1.96	2.31	2.20	2.68	2.57	2.28	2.15	1.96	1.70	1.47	
Max	1.76	1.71	2.39	2.39	2.42	2.95	2.73	2.38	2.23	2.08	1.83	1.59	2.95
Min	1.59	1.53	1.68	2.20	2.06	2.47	2.38	2.22	2.09	1.85	1.59	1.38	1.38

Annual Max Momentary Gage Height 2.95 M (A.D), at 18.00 Hours, on Sep 20, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.72 M (A.D)
Left Bank Elevation 2.40 M (A.D)
Right Bank Elevation 3.91 M (A.D), Drainage Area 1038 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.24	0.28	0.70	0.65	2.00	7.74	0.84	0.63	0.48	0.33	0.24	
2	0.30	0.23	0.29	0.69	0.66	3.68	6.90	0.86	0.62	0.48	0.32	0.23	
3	0.30	0.23	0.28	0.68	0.65	4.24	6.90	0.82	0.61	0.47	0.32	0.23	
4	0.30	0.22	0.28	0.68	0.64	4.80	7.74	0.78	0.60	0.46	0.31	0.22	
5	0.30	0.22	0.28	0.70	0.63	4.52	10.50	0.76	0.59	0.45	0.30	0.22	
6	0.30	0.22	0.28	0.76	0.62	4.52	10.50	0.74	0.58	0.44	0.30	0.22	
7	0.30	0.22	0.28	0.80	0.61	4.80	10.50	0.72	0.59	0.43	0.30	0.22	
8	0.30	0.22	0.28	0.84	0.60	4.52	10.00	0.70	0.60	0.42	0.30	0.21	
9	0.30	0.23	0.28	0.88	0.57	5.22	9.50	0.68	0.60	0.40	0.29	0.21	
10	0.30	0.23	0.28	0.86	0.52	6.06	9.00	0.70	0.59	0.40	0.29	0.20	
11	0.29	0.22	0.27	0.84	0.46	5.64	8.58	0.68	0.59	0.39	0.29	0.20	
12	0.29	0.22	0.28	0.84	0.50	4.24	8.16	0.67	0.58	0.39	0.28	0.20	
13	0.28	0.22	0.28	0.82	0.49	3.40	5.64	0.66	0.57	0.38	0.28	0.20	
14	0.28	0.22	0.30	0.80	0.49	1.89	4.52	0.65	0.56	0.39	0.28	0.19	
15	0.28	0.22	0.32	0.78	0.50	1.67	4.24	0.69	0.55	0.38	0.28	0.19	
16	0.27	0.21	0.36	0.76	0.52	3.12	3.68	0.80	0.54	0.38	0.28	0.18	
17	0.27	0.21	0.41	0.72	0.52	8.16	3.68	0.78	0.53	0.38	0.27	0.18	
18	0.27	0.23	0.45	0.70	0.53	13.50	3.96	0.70	0.52	0.38	0.27	0.18	
19	0.26	0.24	0.50	0.72	0.53	21.66	3.40	0.68	0.52	0.37	0.27	0.18	
20	0.26	0.28	0.53	0.72	0.55	22.90	2.56	0.67	0.51	0.37	0.26	0.17	
21	0.26	0.28	0.57	0.70	0.56	21.66	2.28	0.65	0.51	0.37	0.26	0.17	
22	0.25	0.28	0.57	0.70	0.57	20.42	2.00	0.64	0.50	0.36	0.26	0.17	
23	0.25	0.28	0.65	0.70	0.59	19.22	2.28	0.63	0.49	0.36	0.25	0.16	
24	0.25	0.28	0.76	0.72	0.60	17.48	1.78	0.62	0.50	0.36	0.25	0.17	
25	0.24	0.28	0.88	0.72	0.65	15.74	1.45	0.62	0.51	0.36	0.24	0.17	
26	0.24	0.28	0.82	0.68	0.69	13.00	1.45	0.63	0.51	0.36	0.24	0.17	
27	0.24	0.28	0.78	0.66	0.70	10.50	1.23	0.64	0.51	0.35	0.24	0.17	
28	0.24	0.28	0.76	0.63	0.84	7.74	1.12	0.63	0.50	0.35	0.24	0.16	
29	0.24	0.27	0.70	0.62	0.86	6.90	0.90	0.65	0.50	0.34		0.16	
30	0.24	0.27	0.72	0.60	0.82	7.74	0.88	0.64	0.49	0.34		0.16	
31		0.28		0.61	1.12		0.86		0.49	0.34		0.15	
Total	8.20	7.59	13.72	22.63	19.24	270.94	153.93	20.93	16.99	12.13	7.80	5.88	559.98 CMSDAY
Mean	0.27	0.24	0.46	0.73	0.62	9.03	4.97	0.70	0.55	0.39	0.28	0.19	1.53 CMS
Max	0.30	0.28	0.88	0.88	1.12	22.90	10.50	0.86	0.63	0.48	0.33	0.24	22.90 CMS
Min	0.24	0.21	0.27	0.60	0.46	1.67	0.86	0.62	0.49	0.34	0.24	0.15	0.15 CMS
Runoff	0.708	0.656	1.185	1.955	1.662	23.409	13.300	1.808	1.468	1.048	0.674	0.508	48.382 MCM

Momentary Peak 22.90 CMS, at 2.95 M (A.D), at 18.00 Hours, on Sep 20, 1994

Runoff Yield 1.48 Liters/Second/Square KM, Momentary Peak Yield 22.06 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

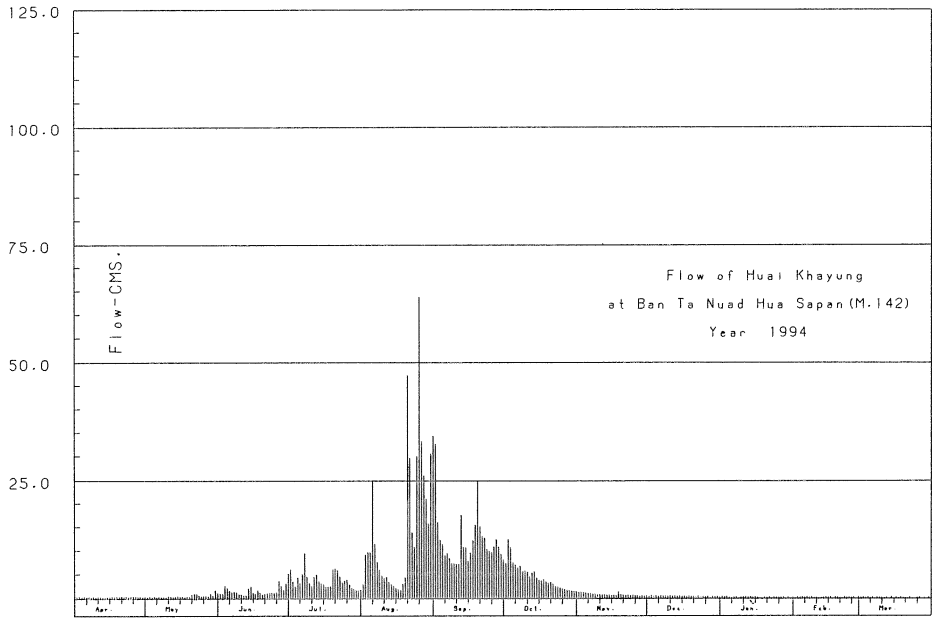
Huai Khayung at Ban Ta Nuad Hua Saphan, Si Sa Ket (M.142)

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 20 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	0.38	0.58	1.30	0.92	3.58	1.44	0.66	0.48	0.41	0.38	0.35	
2	0.36	0.37	0.59	0.99	1.63	2.28	1.96	0.65	0.51	0.41	0.38	0.35	
3	0.36	0.37	0.86	0.85	1.69	1.95	1.79	0.65	0.49	0.40	0.38	0.34	
4	0.35	0.34	0.81	1.11	1.68	1.85	1.47	0.62	0.49	0.40	0.37	0.34	
5	0.35	0.34	0.72	0.94	3.03	1.62	1.41	0.61	0.48	0.40	0.37	0.33	
6	0.36	0.33	0.63	1.20	1.86	1.66	1.34	0.60	0.48	0.39	0.37	0.33	
7	0.37	0.32	0.67	1.67	1.48	1.56	1.39	0.58	0.48	0.39	0.37	0.33	
8	0.37	0.35	0.63	1.12	1.29	1.44	1.26	0.57	0.48	0.39	0.36	0.33	
9	0.36	0.36	0.56	0.96	1.16	1.44	1.27	0.56	0.48	0.39	0.35	0.33	
10	0.35	0.42	0.54	0.85	1.08	1.42	1.25	0.55	0.48	0.39	0.35	0.33	
11	0.35	0.43	0.50	1.11	1.12	1.42	1.12	0.55	0.48	0.39	0.35	0.33	
12	0.32	0.40	0.52	1.19	0.98	2.42	1.23	0.54	0.47	0.39	0.35	0.34	
13	0.32	0.39	0.78	1.01	0.92	1.80	1.25	0.54	0.46	0.38	0.35	0.34	
14	0.32	0.42	0.86	0.94	0.86	1.78	1.10	0.53	0.45	0.38	0.35	0.35	
15	0.37	0.41	0.63	0.92	0.80	1.50	1.03	0.52	0.45	0.38	0.36	0.35	
16	0.37	0.38	0.57	0.83	0.75	1.67	1.03	0.52	0.45	0.37	0.37	0.35	
17	0.37	0.38	0.73	0.83	0.73	1.94	1.05	0.52	0.45	0.37	0.36	0.35	
18	0.37	0.38	0.62	0.86	0.92	2.23	1.00	0.66	0.45	0.37	0.36	0.35	
19	0.40	0.42	0.56	1.31	1.11	3.02	0.95	0.56	0.46	0.37	0.36	0.35	
20	0.40	0.54	0.56	1.32	4.49	2.21	0.99	0.52	0.43	0.37	0.35	0.35	
21	0.39	0.60	0.58	1.28	3.38	2.02	0.92	0.52	0.43	0.37	0.35	0.34	
22	0.39	0.59	0.64	1.13	2.09	1.99	0.86	0.52	0.44	0.36	0.35	0.33	
23	0.35	0.50	0.61	0.97	1.79	1.76	0.83	0.52	0.42	0.36	0.35	0.32	
24	0.39	0.45	0.61	1.01	3.41	1.71	0.82	0.52	0.42	0.36	0.35	0.31	
25	0.43	0.45	0.63	1.04	5.47	1.69	0.79	0.51	0.42	0.36	0.35	0.30	
26	0.41	0.44	1.02	0.91	3.62	1.80	0.75	0.50	0.42	0.36	0.35	0.30	
27	0.40	0.45	0.87	0.81	3.11	1.96	0.74	0.49	0.42	0.36	0.37	0.31	
28	0.35	0.59	0.72	0.76	2.70	1.80	0.72	0.49	0.42	0.36	0.37	0.32	
29	0.35	0.48	0.94	0.73	2.26	1.65	0.71	0.49	0.41	0.36		0.32	
30	0.35	0.73	1.20	0.71	3.44	1.53	0.68	0.48	0.41	0.37		0.31	
31		0.60		0.73	3.70		0.67		0.41	0.38		0.31	
Mean	0.37	0.44	0.69	1.01	2.05	1.89	1.09	0.55	0.45	0.38	0.36	0.33	
Max	0.43	0.73	1.20	1.67	5.47	3.58	1.96	0.66	0.51	0.41	0.38	0.35	5.47
Min	0.32	0.32	0.50	0.71	0.73	1.42	0.67	0.48	0.41	0.36	0.35	0.30	0.30

Annual Max Momentary Gage Height 5.85 M (A.D), at 18.00 Hours, on Aug 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.14 M (A.D)
Left Bank Elevation 7.60 M (A.D)
Right Bank Elevation 7.34 M (A.D), Drainage Area 241 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.47	0.47	1.10	6.20	3.14	32.80	7.46	1.50	0.66	0.52	0.47	0.44	
2	0.45	0.46	1.15	3.63	9.30	16.18	12.66	1.45	0.75	0.52	0.47	0.44	
3	0.45	0.46	2.72	2.65	9.90	12.55	10.90	1.45	0.68	0.50	0.47	0.42	
4	0.44	0.42	2.37	4.58	9.80	11.50	7.73	1.30	0.68	0.50	0.46	0.42	
5	0.44	0.42	1.82	3.28	25.19	9.20	7.19	1.25	0.66	0.50	0.46	0.41	
6	0.45	0.41	1.35	5.30	11.60	9.60	6.56	1.20	0.66	0.49	0.46	0.41	
7	0.46	0.40	1.55	9.70	7.82	8.60	7.01	1.10	0.66	0.49	0.46	0.41	
8	0.46	0.44	1.35	4.66	6.11	7.46	5.84	1.05	0.66	0.49	0.45	0.41	
9	0.45	0.45	1.00	3.42	4.98	7.46	5.93	1.00	0.66	0.49	0.44	0.41	
10	0.44	0.54	0.90	2.65	4.34	7.28	5.75	0.95	0.66	0.49	0.44	0.41	
11	0.44	0.56	0.70	4.58	4.66	7.28	4.66	0.95	0.66	0.49	0.44	0.41	
12	0.40	0.50	0.80	5.22	3.56	17.84	5.57	0.90	0.64	0.49	0.44	0.42	
13	0.40	0.49	2.18	3.78	3.14	11.00	5.75	0.90	0.62	0.47	0.44	0.42	
14	0.40	0.54	2.72	3.28	2.72	10.80	4.50	0.85	0.60	0.47	0.44	0.44	
15	0.46	0.52	1.35	3.14	2.30	8.00	3.94	0.80	0.60	0.47	0.45	0.44	
16	0.46	0.47	1.05	2.51	2.00	9.70	3.94	0.80	0.60	0.46	0.46	0.44	
17	0.46	0.47	1.88	2.51	1.88	12.44	4.10	0.80	0.60	0.46	0.45	0.44	
18	0.46	0.47	1.30	2.72	3.14	15.63	3.70	1.50	0.60	0.46	0.45	0.44	
19	0.50	0.54	1.00	6.29	4.58	25.06	3.35	1.00	0.62	0.46	0.45	0.44	
20	0.50	0.90	1.00	6.38	47.33	15.41	3.63	0.80	0.56	0.46	0.44	0.44	
21	0.49	1.20	1.10	6.02	29.82	13.32	3.14	0.80	0.56	0.46	0.44	0.42	
22	0.49	1.15	1.40	4.74	14.09	12.99	2.72	0.80	0.58	0.45	0.44	0.41	
23	0.44	0.70	1.25	3.49	10.90	10.60	2.51	0.80	0.54	0.45	0.44	0.40	
24	0.49	0.60	1.25	3.78	30.25	10.10	2.44	0.80	0.54	0.45	0.44	0.38	
25	0.56	0.60	1.35	4.02	64.06	9.90	2.24	0.75	0.54	0.45	0.44	0.37	
26	0.52	0.58	3.86	3.07	33.40	11.00	2.00	0.70	0.54	0.45	0.44	0.37	
27	0.50	0.60	2.79	2.37	26.23	12.66	1.94	0.68	0.54	0.45	0.46	0.38	
28	0.44	1.15	1.82	2.06	21.20	11.00	1.82	0.68	0.54	0.45	0.46	0.40	
29	0.44	0.66	3.28	1.88	15.96	9.50	1.76	0.68	0.52	0.45		0.40	
30	0.44	1.88	5.30	1.76	30.70	8.30	1.60	0.66	0.52	0.46		0.38	
31		1.20		1.88	34.60		1.55		0.52	0.47		0.38	
Total	13.80	20.25	52.69	121.55	478.70	365.16	143.89	28.90	18.77	14.67	12.60	12.80	1283.78 CMSDAY
Mean	0.46	0.65	1.76	3.92	15.44	12.17	4.64	0.96	0.61	0.47	0.45	0.41	3.52 CMS
Max	0.56	1.88	5.30	9.70	64.06	32.80	12.66	1.50	0.75	0.52	0.47	0.44	64.06 CMS
Min	0.40	0.40	0.70	1.76	1.88	7.28	1.55	0.66	0.52	0.45	0.44	0.37	0.37 CMS
Runoff	1.192	1.750	4.552	10.502	41.360	31.550	12.432	2.497	1.622	1.267	1.089	1.106	110.919 MCM

Momentary Peak 70.90 CMS, at 5.85 M (A.D), at 18.00 Hours, on Aug 25, 1994

Runoff Yield 14.59 Liters/Second/Square KM, Momentary Peak Yield 294.19 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

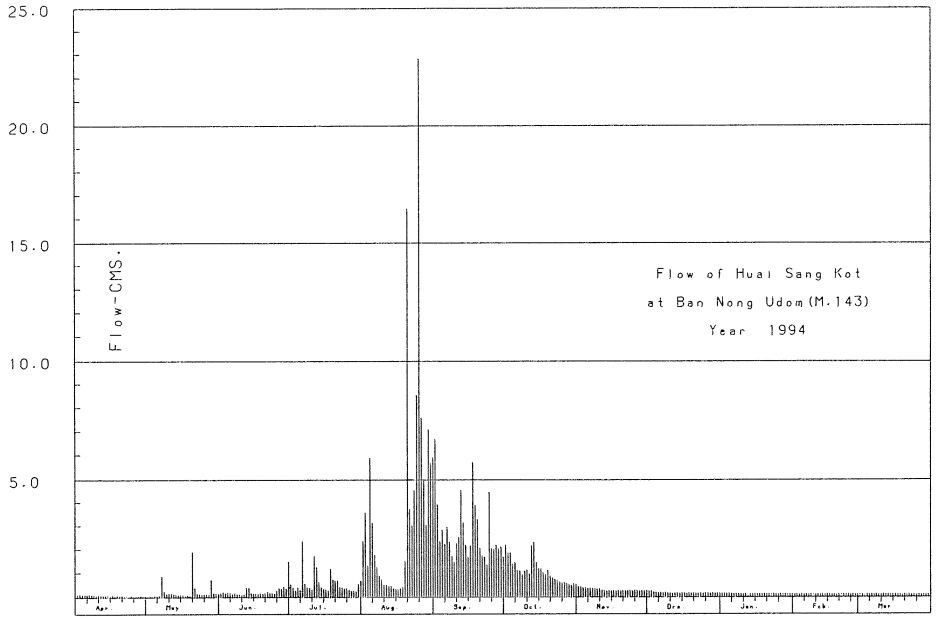
Huai Sang Kot at Ban Nong Udom, Si Sa Ket (M.143)

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	+6.446 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 20 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	0.53	0.78	1.06	1.72	2.53	1.68	1.01	0.88	0.74	0.69	0.69	
2	0.63	0.53	0.81	0.97	2.02	2.09	1.59	1.00	0.87	0.74	0.69	0.69	
3	0.63	0.53	0.78	0.90	1.40	1.72	1.60	0.98	0.84	0.73	0.69	0.69	
4	0.63	0.53	0.80	0.97	2.42	1.84	1.42	0.97	0.81	0.73	0.69	0.69	
5	0.63	0.53	0.78	0.91	1.92	1.69	1.45	0.96	0.81	0.73	0.69	0.69	
6	0.63	0.53	0.70	1.72	1.57	1.87	1.32	0.95	0.80	0.72	0.69	0.69	
7	0.63	1.22	0.73	1.09	1.37	1.71	1.31	0.95	0.79	0.72	0.69	0.69	
8	0.60	0.85	0.67	0.98	1.23	1.55	1.24	0.94	0.79	0.72	0.69	0.69	
9	0.58	0.72	0.65	0.97	1.16	1.45	1.31	0.94	0.79	0.71	0.69	0.68	
10	0.58	0.74	0.64	0.91	1.05	1.70	1.32	0.94	0.77	0.71	0.69	0.68	
11	0.58	0.73	0.63	1.55	1.05	1.76	1.26	0.91	0.77	0.71	0.69	0.67	
12	0.57	0.67	0.97	1.38	1.03	2.19	1.67	0.89	0.77	0.71	0.69	0.67	
13	0.57	0.63	0.98	1.12	1.01	1.92	1.71	0.88	0.77	0.71	0.69	0.67	
14	0.56	0.61	0.81	0.99	0.96	1.68	1.46	0.88	0.76	0.71	0.69	0.67	
15	0.56	0.60	0.74	0.94	0.94	1.54	1.35	0.88	0.76	0.71	0.69	0.66	
16	0.56	0.57	0.71	0.92	0.92	1.67	1.34	0.88	0.76	0.70	0.69	0.66	
17	0.56	0.56	0.72	0.90	0.96	2.39	1.28	0.88	0.76	0.70	0.69	0.66	
18	0.56	0.57	0.73	1.35	0.97	2.08	1.24	0.89	0.76	0.70	0.69	0.66	
19	0.55	0.56	0.72	1.17	1.48	1.95	1.32	0.88	0.76	0.70	0.69	0.66	
20	0.54	1.61	0.75	1.14	3.49	1.65	1.22	0.88	0.76	0.70	0.69	0.66	
21	0.53	0.97	0.84	1.15	2.05	1.55	1.19	0.89	0.76	0.70	0.69	0.66	
22	0.53	0.73	0.79	1.00	1.89	1.54	1.17	0.89	0.76	0.70	0.69	0.66	
23	0.53	0.67	0.76	0.97	2.19	1.41	1.15	0.89	0.76	0.70	0.69	0.66	
24	0.53	0.65	0.76	0.96	2.77	2.18	1.12	0.89	0.76	0.70	0.69	0.66	
25	0.53	0.64	0.88	0.95	3.91	1.64	1.10	0.88	0.76	0.70	0.69	0.65	
26	0.53	0.63	0.97	0.92	2.65	1.63	1.12	0.88	0.75	0.70	0.69	0.65	
27	0.53	0.66	0.95	0.88	2.27	1.68	1.09	0.88	0.75	0.70	0.69	0.65	
28	0.53	1.16	1.00	0.87	1.89	1.64	1.05	0.88	0.75	0.70	0.69	0.65	
29	0.53	0.80	0.96	0.87	2.59	1.66	1.04	0.88	0.75	0.70		0.65	
30	0.53	0.72	1.47	1.08	2.38	1.54	1.08	0.88	0.74	0.71		0.65	
31		0.76		1.15	2.42		1.07		0.74	0.69		0.65	
Mean	0.57	0.72	0.82	1.06	1.80	1.78	1.30	0.91	0.78	0.71	0.69	0.67	
Max	0.63	1.61	1.47	1.72	3.91	2.53	1.71	1.01	0.88	0.74	0.69	0.69	3.91
Min	0.53	0.53	0.63	0.87	0.92	1.41	1.04	0.88	0.74	0.69	0.69	0.65	0.53

Annual Max Momentary Gage Height 4.28 M (A.D), at 6.00 Hours, on Aug 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.51 M (A.D)
Left Bank Elevation 5.36 M (A.D)
Right Bank Elevation 4.99 M (A.D), Drainage Area 46 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.06	0.19	0.54	2.38	6.71	2.22	0.47	0.28	0.17	0.14	0.14	
2	0.12	0.06	0.21	0.41	3.60	3.95	1.87	0.45	0.27	0.17	0.14	0.14	
3	0.12	0.06	0.19	0.30	1.35	2.38	1.90	0.42	0.24	0.17	0.14	0.14	
4	0.12	0.06	0.20	0.41	5.94	2.86	1.40	0.41	0.21	0.17	0.14	0.14	
5	0.12	0.06	0.19	0.32	3.18	2.26	1.48	0.39	0.21	0.17	0.14	0.14	
6	0.12	0.06	0.15	2.38	1.81	2.98	1.15	0.38	0.20	0.16	0.14	0.14	
7	0.12	0.90	0.17	0.59	1.28	2.34	1.12	0.38	0.20	0.16	0.14	0.14	
8	0.10	0.25	0.14	0.42	0.93	1.75	0.95	0.36	0.20	0.16	0.14	0.14	
9	0.09	0.16	0.12	0.41	0.75	1.48	1.12	0.36	0.20	0.15	0.14	0.14	
10	0.09	0.17	0.12	0.32	0.52	2.30	1.15	0.36	0.18	0.15	0.14	0.14	
11	0.09	0.17	0.12	1.75	0.52	2.54	1.00	0.32	0.18	0.15	0.14	0.14	
12	0.09	0.14	0.41	1.30	0.49	4.54	2.18	0.29	0.18	0.15	0.14	0.14	
13	0.09	0.12	0.42	0.65	0.47	3.18	2.34	0.28	0.18	0.15	0.14	0.14	
14	0.08	0.11	0.21	0.44	0.39	2.22	1.50	0.28	0.18	0.15	0.14	0.14	
15	0.08	0.10	0.17	0.36	0.36	1.72	1.23	0.28	0.18	0.15	0.14	0.13	
16	0.08	0.09	0.15	0.33	0.33	2.18	1.20	0.28	0.18	0.15	0.14	0.13	
17	0.08	0.08	0.16	0.30	0.39	5.74	1.05	0.28	0.18	0.15	0.14	0.13	
18	0.08	0.09	0.17	1.23	0.41	3.90	0.95	0.29	0.18	0.15	0.14	0.13	
19	0.08	0.08	0.16	0.77	1.55	3.30	1.15	0.28	0.18	0.15	0.14	0.13	
20	0.07	1.94	0.18	0.70	16.47	2.10	0.90	0.28	0.18	0.15	0.14	0.13	
21	0.06	0.41	0.24	0.72	3.75	1.75	0.83	0.29	0.18	0.15	0.14	0.13	
22	0.06	0.17	0.20	0.45	3.06	1.72	0.77	0.29	0.18	0.15	0.14	0.13	
23	0.06	0.14	0.18	0.41	4.54	1.38	0.72	0.29	0.18	0.15	0.14	0.13	
24	0.06	0.12	0.18	0.39	8.59	4.48	0.65	0.29	0.18	0.15	0.14	0.13	
25	0.06	0.12	0.28	0.38	22.87	2.06	0.60	0.28	0.18	0.15	0.14	0.12	
26	0.06	0.12	0.41	0.33	7.60	2.02	0.65	0.28	0.18	0.15	0.14	0.12	
27	0.06	0.13	0.38	0.28	5.02	2.22	0.59	0.28	0.18	0.15	0.14	0.12	
28	0.06	0.75	0.45	0.27	3.06	2.06	0.52	0.28	0.18	0.15	0.14	0.12	
29	0.06	0.20	0.39	0.27	7.13	2.14	0.51	0.28	0.18	0.15		0.12	
30	0.06	0.16	1.53	0.57	5.68	1.72	0.57	0.28	0.17	0.15		0.12	
31		0.18		0.72	5.94		0.56		0.17	0.14		0.12	
Total	2.54	7.26	8.07	18.72	120.36	81.98	34.83	9.68	5.95	4.77	3.92	4.10	302.18 CMSDAY
Mean	0.08	0.23	0.27	0.60	3.88	2.73	1.12	0.32	0.19	0.15	0.14	0.13	0.83 CMS
Max	0.12	1.94	1.53	2.38	22.87	6.71	2.34	0.47	0.28	0.17	0.14	0.14	22.87 CMS
Min	0.06	0.06	0.12	0.27	0.33	1.38	0.51	0.28	0.17	0.14	0.14	0.12	0.06 CMS
Runoff	0.219	0.627	0.697	1.617	10.399	7.083	3.009	0.836	0.514	0.412	0.339	0.354	26.108 MCM

Momentary Peak 30.08 CMS, at 4.28 M (A.D), at 6.00 Hours, on Aug 25, 1994
Runoff Yield 18.00 Liters/Second/Square KM, Momentary Peak Yield 653.91 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

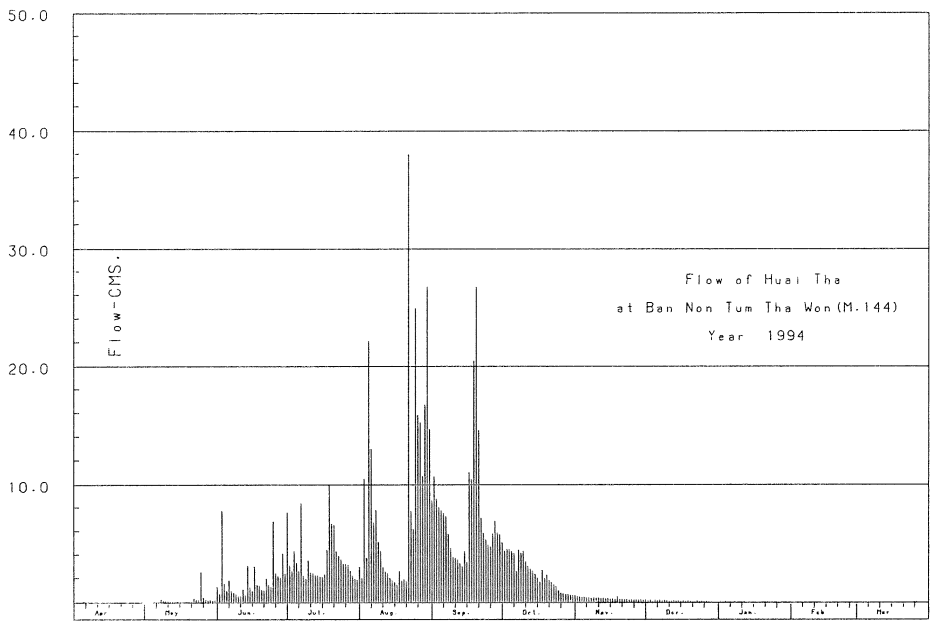
Huai Tha at Ban Non Tum Tha Won, Si Sa Ket (M.144)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	0.75	1.41	2.09	1.85	3.39	2.34	1.33	1.03	0.93	0.87	0.84	
2	0.85	0.75	2.94	2.00	3.36	3.11	2.38	1.30	1.03	0.93	0.87	0.84	
3	0.84	0.75	1.69	2.34	2.22	2.99	2.37	1.29	1.03	0.93	0.87	0.84	
4	0.84	0.75	1.50	2.14	4.80	2.94	2.34	1.27	1.02	0.93	0.87	0.84	
5	0.83	0.74	1.80	2.00	3.73	2.90	2.30	1.25	1.02	0.93	0.87	0.84	
6	0.83	0.74	1.49	3.04	2.77	2.86	2.00	1.23	1.02	0.92	0.87	0.84	
7	0.82	1.07	1.45	1.89	2.95	2.61	2.36	1.22	1.01	0.92	0.86	0.84	
8	0.82	0.96	1.39	1.83	2.50	2.39	2.31	1.21	1.01	0.92	0.86	0.84	
9	0.81	0.96	1.33	2.18	2.34	2.24	2.34	1.20	1.01	0.92	0.86	0.84	
10	0.81	0.95	1.30	1.96	2.06	2.22	2.17	1.20	1.00	0.92	0.86	0.83	
11	0.80	0.94	1.55	1.94	1.99	2.19	2.08	1.19	1.00	0.91	0.86	0.83	
12	0.80	0.92	1.36	1.91	1.95	2.13	2.04	1.18	0.99	0.91	0.86	0.83	
13	0.79	0.89	2.09	1.90	1.85	2.07	2.00	1.16	0.99	0.91	0.86	0.83	
14	0.79	0.88	1.59	1.88	1.79	2.33	1.94	1.15	0.98	0.91	0.86	0.83	
15	0.79	0.86	1.50	1.87	1.75	2.15	1.85	1.14	0.98	0.91	0.86	0.83	
16	0.79	0.84	2.07	1.92	1.67	3.44	1.75	1.13	0.97	0.90	0.86	0.83	
17	0.78	0.82	1.67	2.36	2.00	3.36	2.02	1.12	0.97	0.90	0.86	0.83	
18	0.78	1.01	1.64	3.30	1.79	4.62	1.85	1.31	0.97	0.90	0.86	0.82	
19	0.78	0.85	1.53	2.75	1.82	5.28	1.91	1.11	0.97	0.90	0.86	0.82	
20	0.78	0.82	1.50	2.74	1.76	3.95	1.81	1.10	0.96	0.90	0.86	0.82	
21	0.81	1.19	1.84	2.33	6.34	2.84	1.74	1.09	0.96	0.89	0.85	0.82	
22	0.78	1.05	1.67	2.26	2.93	2.62	1.69	1.08	0.96	0.89	0.85	0.82	
23	0.79	1.00	1.60	2.19	2.68	2.53	1.63	1.07	0.95	0.89	0.85	0.82	
24	0.78	1.98	2.79	2.12	5.10	2.44	1.52	1.06	0.95	0.89	0.85	0.82	
25	0.78	1.25	1.95	2.11	4.11	2.42	1.45	1.06	0.95	0.89	0.85	0.93	
26	0.77	1.04	1.89	2.10	4.03	2.61	1.42	1.05	0.94	0.88	0.85	0.89	
27	0.77	1.03	1.86	2.00	3.40	2.79	1.41	1.05	0.94	0.88	0.86	0.88	
28	0.76	1.02	2.30	1.89	4.20	2.63	1.40	1.04	0.94	0.88	0.84	0.87	
29	0.76	1.01	1.94	1.83	5.28	2.60	1.38	1.04	0.94	0.88		0.86	
30	0.75	1.00	2.91	1.80	3.96	2.49	1.36	1.04	0.93	0.87		0.86	
31		1.61		2.06	3.08		1.35		0.93	0.87		0.86	
Mean	0.80	0.98	1.78	2.15	2.97	2.84	1.89	1.16	0.98	0.90	0.86	0.84	
Max	0.85	1.98	2.94	3.30	6.34	5.28	2.38	1.33	1.03	0.93	0.87	0.93	6.34
Min	0.75	0.74	1.30	1.80	1.67	2.07	1.35	1.04	0.93	0.87	0.84	0.82	0.74

Annual Max Momentary Gage Height 6.60 M (A.D), at 12.00 Hours, on Aug 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.49 M (A.D)
Left Bank Elevation 11.63 M (A.D)
Right Bank Elevation 11.64 M (A.D), Drainage Area 124 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.03	0.73	3.15	2.10	10.73	4.40	0.56	0.23	0.13	0.09	0.07	
2	0.08	0.03	7.84	2.70	10.52	8.86	4.60	0.50	0.23	0.13	0.09	0.07	
3	0.07	0.03	1.57	4.40	3.80	8.14	4.55	0.49	0.23	0.13	0.09	0.07	
4	0.07	0.03	1.00	3.40	22.20	7.84	4.40	0.47	0.22	0.13	0.09	0.07	
5	0.07	0.02	1.90	2.70	13.11	7.60	4.20	0.45	0.22	0.13	0.09	0.07	
6	0.07	0.02	0.97	8.44	6.82	7.36	2.70	0.43	0.22	0.12	0.09	0.07	
7	0.06	0.27	0.85	2.26	7.90	5.86	4.50	0.42	0.21	0.12	0.08	0.07	
8	0.06	0.16	0.68	2.02	5.20	4.65	4.25	0.41	0.21	0.12	0.08	0.07	
9	0.06	0.16	0.56	3.60	4.40	3.90	4.40	0.40	0.21	0.12	0.08	0.07	
10	0.06	0.15	0.50	2.54	3.00	3.80	3.55	0.40	0.20	0.12	0.08	0.07	
11	0.05	0.14	1.15	2.46	2.66	3.65	3.10	0.39	0.20	0.11	0.08	0.07	
12	0.05	0.12	0.62	2.34	2.50	3.35	2.90	0.38	0.19	0.11	0.08	0.07	
13	0.05	0.10	3.15	2.30	2.10	3.05	2.70	0.36	0.19	0.11	0.08	0.07	
14	0.05	0.09	1.27	2.22	1.87	4.35	2.46	0.35	0.18	0.11	0.08	0.07	
15	0.05	0.08	1.00	2.18	1.75	3.45	2.10	0.34	0.18	0.11	0.08	0.07	
16	0.05	0.07	3.05	2.38	1.51	11.08	1.75	0.33	0.17	0.10	0.08	0.07	
17	0.04	0.06	1.51	4.50	2.70	10.52	2.80	0.32	0.17	0.10	0.08	0.07	
18	0.04	0.21	1.42	10.10	1.87	20.58	2.10	0.52	0.17	0.10	0.08	0.06	
19	0.04	0.08	1.09	6.70	1.98	26.80	2.34	0.31	0.17	0.10	0.08	0.06	
20	0.04	0.06	1.00	6.64	1.78	14.70	1.94	0.30	0.16	0.10	0.08	0.06	
21	0.06	0.39	2.06	4.35	38.04	7.24	1.72	0.29	0.16	0.10	0.08	0.06	
22	0.04	0.25	1.51	4.00	7.78	5.92	1.57	0.28	0.16	0.10	0.08	0.06	
23	0.05	0.20	1.30	3.65	6.28	5.38	1.39	0.27	0.15	0.10	0.08	0.06	
24	0.04	2.62	6.94	3.30	25.00	4.90	1.06	0.26	0.15	0.10	0.08	0.06	
25	0.04	0.45	2.50	3.25	15.99	4.80	0.85	0.26	0.15	0.10	0.08	0.13	
26	0.04	0.24	2.26	3.20	15.34	5.86	0.76	0.25	0.14	0.09	0.08	0.10	
27	0.04	0.23	2.14	2.70	10.80	6.94	0.73	0.25	0.14	0.09	0.08	0.09	
28	0.03	0.22	4.20	2.26	16.80	5.98	0.70	0.24	0.14	0.09	0.07	0.09	
29	0.03	0.21	2.46	2.02	26.80	5.80	0.66	0.24	0.14	0.09		0.08	
30	0.03	0.20	7.66	1.90	14.78	5.15	0.62	0.24	0.13	0.09		0.08	
31		1.33		3.00	8.68		0.60		0.13	0.09		0.08	
Total	1.54	8.25	64.89	110.66	286.06	228.24	76.40	10.71	5.55	3.34	2.29	2.26	800.19 CMSDAY
Mean	0.05	0.27	2.16	3.57	9.23	7.61	2.46	0.36	0.18	0.11	0.08	0.07	2.19 CMS
Max	0.08	2.62	7.84	10.10	38.04	26.80	4.60	0.56	0.23	0.13	0.09	0.13	38.04 CMS
Min	0.03	0.02	0.50	1.90	1.51	3.05	0.60	0.24	0.13	0.09	0.07	0.06	0.02 CMS
Runoff	0.133	0.713	5.606	9.561	24.716	19.720	6.601	0.925	0.480	0.289	0.198	0.195	69.136 MCM

Momentary Peak 41.00 CMS, at 6.60 M (A.D), at 12.00 Hours, on Aug 21, 1994
Runoff Yield 17.68 Liters/Second/Square KM, Momentary Peak Yield 330.65 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

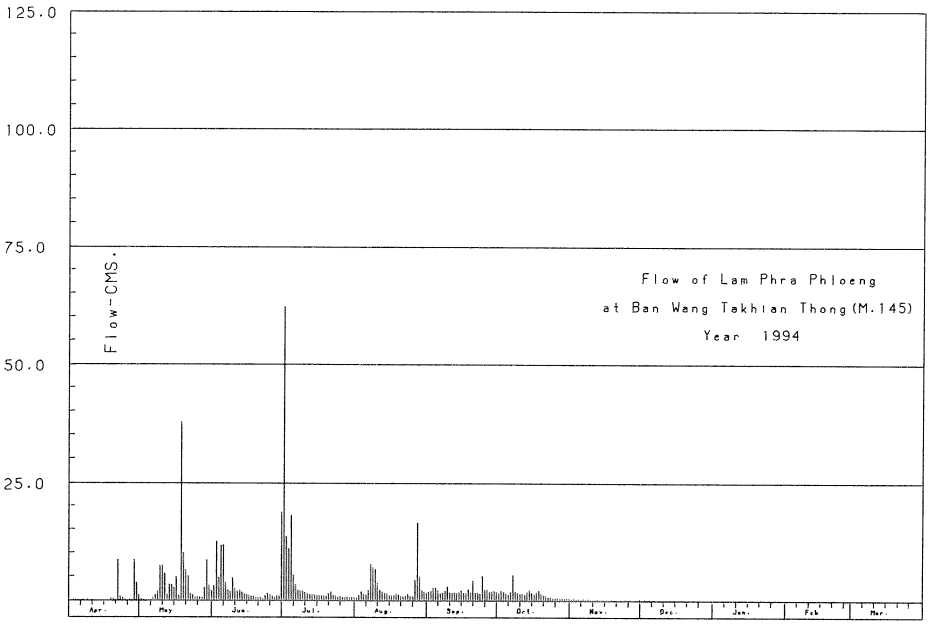
Lam Phra Phloeng at Ban Wang Takhian Thong, Nakhon Ratchasima (M.145)

Location	Lat. 14-29-28 N., Long. 101-41-13 E., on right bank at Ban Wang Takhian Thong, Tambon Wang Ka Tha, 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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.08	0.71	3.53	0.16	0.46	0.40	0.10	0.03	-0.05	-0.07	-0.18	
2	-0.01	0.03	1.51	1.57	0.28	0.54	0.52	0.10	0.04	-0.05	-0.07	-0.18	
3	0.07	0.00	0.90	1.41	0.50	0.65	0.50	0.09	0.05	-0.05	-0.07	-0.18	
4	0.00	-0.03	1.44	1.86	0.33	0.67	0.39	0.09	0.04	-0.05	-0.07	-0.18	
5	0.00	-0.01	1.46	0.95	0.33	0.54	0.37	0.09	0.03	-0.05	-0.07	-0.18	
6	-0.01	0.15	0.78	0.74	0.55	0.43	0.47	0.09	0.03	-0.05	-0.07	-0.18	
7	-0.01	0.32	0.57	0.56	1.19	0.43	0.96	0.09	0.02	-0.05	-0.07	-0.18	
8	0.04	0.49	0.47	0.50	1.11	0.52	0.52	0.08	0.01	-0.05	-0.08	-0.18	
9	0.00	1.14	0.89	0.53	1.08	0.71	0.43	0.08	0.00	-0.05	-0.08	-0.18	
10	-0.02	1.14	0.60	0.43	0.78	0.45	0.39	0.07	0.00	-0.06	-0.08	-0.18	
11	-0.04	0.98	0.49	0.38	0.58	0.43	0.38	0.07	0.00	-0.06	-0.08	-0.18	
12	-0.05	0.34	0.56	0.35	0.48	0.48	0.37	0.06	-0.01	-0.06	-0.08	-0.18	
13	-0.05	0.74	0.45	0.33	0.44	0.41	0.45	0.06	-0.02	-0.06	-0.08	-0.18	
14	-0.06	0.74	0.38	0.33	0.38	0.48	0.57	0.05	-0.02	-0.06	-0.08	-0.18	
15	-0.06	0.65	0.34	0.30	0.32	0.54	0.43	0.05	-0.02	-0.06	-0.09	-0.18	
16	-0.07	0.90	0.29	0.27	0.29	0.45	0.38	0.04	-0.02	-0.06	-0.09	-0.18	
17	-0.08	0.29	0.26	0.27	0.33	0.40	0.45	0.04	-0.02	-0.06	-0.10	-0.18	
18	0.09	2.71	0.22	0.26	0.38	0.61	0.56	0.04	-0.02	-0.06	-0.10	-0.18	
19	0.11	1.35	0.17	0.25	0.35	0.44	0.38	0.04	-0.02	-0.06	-0.10	-0.18	
20	0.01	1.05	0.12	0.38	0.25	0.83	0.33	0.03	-0.03	-0.06	-0.10	-0.18	
21	1.25	0.93	0.18	0.47	0.25	0.45	0.27	0.03	-0.03	-0.06	-0.10	-0.18	
22	0.22	0.39	0.10	0.33	0.26	0.45	0.23	0.03	-0.03	-0.06	-0.10	-0.18	
23	0.17	0.29	0.27	0.24	0.37	0.38	0.19	0.03	-0.03	-0.07	-0.10	-0.18	
24	0.05	0.19	0.38	0.22	0.24	0.94	0.17	0.03	-0.04	-0.07	-0.13	-0.18	
25	0.02	0.18	0.33	0.21	0.28	0.59	0.16	0.03	-0.04	-0.07	-0.13	-0.18	
26	0.03	0.17	0.25	0.20	0.84	0.58	0.15	0.02	-0.04	-0.07	-0.18	-0.18	
27	0.06	0.18	0.17	0.19	1.78	0.49	0.14	0.01	-0.04	-0.07	-0.18	-0.18	
28	1.24	0.66	0.25	0.18	0.91	0.49	0.13	0.01	-0.04	0.02	-0.18	-0.18	
29	0.79	1.24	0.27	0.17	0.56	0.54	0.13	0.03	-0.04	-0.06		-0.18	
30	0.29	0.72	1.89	0.16	0.47	0.48	0.12	0.05	-0.04	-0.07		-0.18	
31		0.55		0.15	0.44		0.10		-0.04	-0.07		-0.18	
Mean	0.13	0.60	0.56	0.57	0.53	0.53	0.36	0.05	-0.01	-0.06	-0.10	-0.18	
Max	1.25	2.71	1.89	3.53	1.78	0.94	0.96	0.10	0.05	0.02	-0.07	-0.18	3.53
Min	-0.08	-0.03	0.10	0.15	0.16	0.38	0.10	0.01	-0.04	-0.07	-0.18	-0.18	-0.18

Annual Max Momentary Gage Height 4.15 M (A.D), at 14.00 Hours, on Jun 18, 1994
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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.44	3.10	62.40	0.68	1.84	1.60	0.50	0.29	0.15	0.13	0.02	
2	0.19	0.29	12.65	13.55	1.12	2.20	2.10	0.50	0.32	0.15	0.13	0.02	
3	0.41	0.20	5.00	11.15	2.00	2.75	2.00	0.47	0.35	0.15	0.13	0.02	
4	0.20	0.17	11.60	18.20	1.32	2.85	1.56	0.47	0.32	0.15	0.13	0.02	
5	0.20	0.19	11.90	5.50	1.32	2.20	1.48	0.47	0.29	0.15	0.13	0.02	
6	0.19	0.65	3.80	3.40	2.25	1.72	1.88	0.47	0.29	0.15	0.13	0.02	
7	0.19	1.28	2.35	2.30	7.90	1.72	5.60	0.47	0.26	0.15	0.13	0.02	
8	0.32	1.96	1.88	2.00	7.10	2.10	2.10	0.44	0.23	0.15	0.12	0.02	
9	0.20	7.40	4.90	2.15	6.80	3.10	1.72	0.44	0.20	0.15	0.12	0.02	
10	0.18	7.40	2.50	1.72	3.80	1.80	1.56	0.41	0.20	0.14	0.12	0.02	
11	0.16	5.80	1.96	1.52	2.40	1.72	1.52	0.41	0.20	0.14	0.12	0.02	
12	0.15	1.36	2.30	1.40	1.92	1.92	1.48	0.38	0.19	0.14	0.12	0.02	
13	0.15	3.40	1.80	1.32	1.76	1.64	1.80	0.38	0.18	0.14	0.12	0.02	
14	0.14	3.40	1.52	1.32	1.52	1.92	2.35	0.35	0.18	0.14	0.12	0.02	
15	0.14	2.75	1.36	1.20	1.28	2.20	1.72	0.35	0.18	0.14	0.11	0.02	
16	0.13	5.00	1.16	1.08	1.16	1.80	1.52	0.32	0.18	0.14	0.11	0.02	
17	0.12	1.16	1.04	1.08	1.32	1.60	1.80	0.32	0.18	0.14	0.10	0.02	
18	0.47	37.80	0.88	1.04	1.52	2.55	2.30	0.32	0.18	0.14	0.10	0.02	
19	0.53	10.25	0.71	1.00	1.40	1.76	1.52	0.32	0.18	0.14	0.10	0.02	
20	0.23	6.50	0.56	1.52	1.00	4.30	1.32	0.29	0.17	0.14	0.10	0.02	
21	8.75	5.30	0.74	1.88	1.00	1.80	1.08	0.29	0.17	0.14	0.10	0.02	
22	0.88	1.56	0.50	1.32	1.04	1.80	0.92	0.29	0.17	0.14	0.10	0.02	
23	0.71	1.16	1.08	0.96	1.48	1.52	0.77	0.29	0.17	0.13	0.10	0.02	
24	0.35	0.77	1.52	0.88	0.96	5.40	0.71	0.29	0.16	0.13	0.07	0.02	
25	0.26	0.74	1.32	0.84	1.12	2.45	0.68	0.29	0.16	0.13	0.07	0.02	
26	0.29	0.71	1.00	0.80	4.40	2.40	0.65	0.26	0.16	0.13	0.02	0.02	
27	0.38	0.74	0.71	0.77	16.70	1.96	0.62	0.23	0.16	0.13	0.02	0.02	
28	8.60	2.80	1.00	0.74	5.10	1.96	0.59	0.23	0.16	0.26	0.02	0.02	
29	3.90	8.60	1.08	0.71	2.30	2.20	0.59	0.29	0.16	0.14		0.02	
30	1.16	3.20	18.80	0.68	1.88	1.92	0.56	0.35	0.16	0.13		0.02	
31		2.25		0.65	1.76		0.50		0.16	0.13		0.02	
Total	29.90	125.23	100.72	145.08	87.31	67.10	46.60	10.89	6.36	4.48	2.87	0.62	627.16 CMSDAY
Mean	1.00	4.04	3.36	4.68	2.82	2.24	1.50	0.36	0.21	0.14	0.10	0.02	1.72 CMS
Max	8.75	37.80	18.80	62.40	16.70	5.40	5.60	0.50	0.35	0.26	0.13	0.02	62.40 CMS
Min	0.12	0.17	0.50	0.65	0.68	1.52	0.50	0.23	0.16	0.13	0.02	0.02	0.02 CMS
Runoff	2.583	10.820	8.702	12.535	7.544	5.797	4.026	0.941	0.550	0.387	0.248	0.054	54.187 MCM

Momentary Peak 85.00 CMS, at 4.15 M (A.D), at 14.00 Hours, on Jun 18, 1994
Runoff Yield 5.13 Liters/Second/Square KM, Momentary Peak Yield 253.73 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

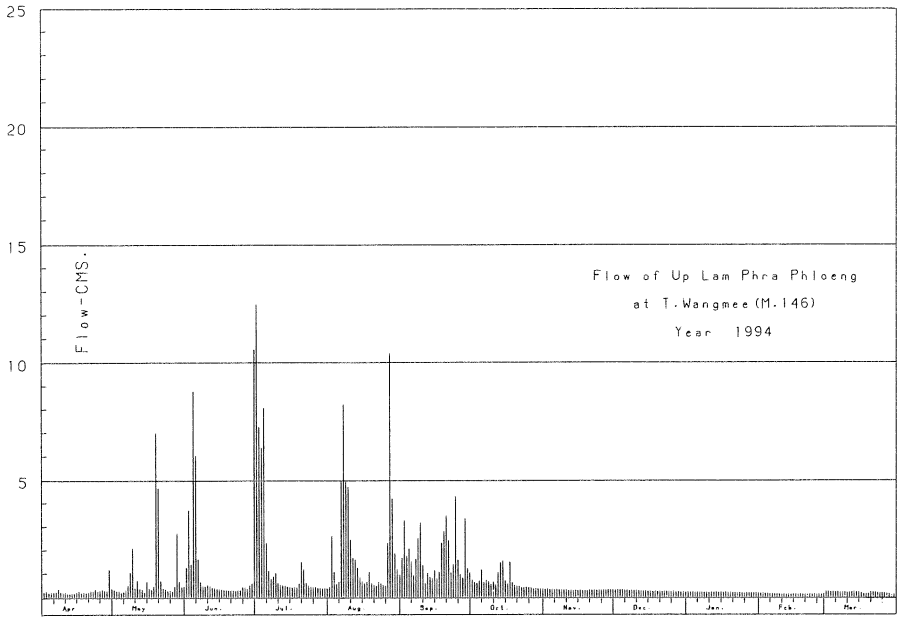
Lam Phra Phloeng at Ban Tha Wang Sai, Nakhon Ratchasima (M.146)

Location	Lat. 14°-25'-01" N., Long. 101°-40'-43" E., on left bank at the bridge on road, Ban Tha Wang Sai, Tambon Wang Mi, 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	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	1.08	1.97	3.90	1.33	2.10	1.71	1.18	1.12	0.94	0.86	1.00	
2	0.95	1.02	2.67	3.30	2.41	2.58	1.62	1.19	1.14	0.93	0.85	0.98	
3	0.86	0.97	2.01	3.17	1.91	2.13	1.60	1.17	1.15	0.93	0.84	0.97	
4	0.88	0.89	3.49	3.40	1.56	2.24	1.69	1.16	1.14	0.92	0.81	0.96	
5	0.90	0.92	3.11	2.32	1.64	2.05	1.94	1.16	1.11	0.92	0.80	0.96	
6	0.92	1.08	2.09	1.92	2.92	1.83	1.63	1.15	1.10	0.92	0.79	0.95	
7	1.17	1.45	1.66	1.75	3.42	2.09	1.71	1.13	1.08	0.92	0.79	0.94	
8	0.89	1.90	1.40	1.81	2.92	2.38	1.67	1.12	1.07	0.92	0.78	0.93	
9	0.88	2.24	1.39	1.89	2.87	2.55	1.54	1.13	1.07	0.92	0.78	0.93	
10	0.87	1.27	1.53	1.61	2.36	2.00	1.66	1.11	1.07	0.92	0.77	0.92	
11	0.83	1.69	1.42	1.52	2.11	1.59	1.52	1.10	1.05	0.92	0.77	0.92	
12	0.80	1.22	1.32	1.50	2.08	1.88	1.90	1.08	1.04	0.92	0.77	0.95	
13	0.78	1.13	1.25	1.46	1.97	1.80	2.04	1.08	1.03	0.92	0.77	0.97	
14	0.82	0.90	1.20	1.39	1.78	1.76	2.06	1.08	1.02	0.91	0.77	0.94	
15	0.89	1.65	1.18	1.34	1.66	1.93	1.69	1.07	1.01	0.91	0.77	0.92	
16	0.98	1.19	1.14	1.33	1.59	1.76	1.56	1.07	1.00	0.91	0.77	0.87	
17	0.86	1.13	1.10	1.36	1.64	1.91	2.05	1.07	1.00	0.91	0.77	0.80	
18	0.85	1.40	1.08	1.34	1.91	2.32	1.63	1.05	1.00	0.91	0.77	0.80	
19	0.87	3.26	1.07	1.56	1.60	2.46	1.50	1.08	1.00	0.90	0.77	0.82	
20	0.91	2.86	1.06	2.05	1.49	2.62	1.45	1.10	1.00	0.90	0.77	0.94	
21	1.00	1.69	1.04	1.94	1.45	2.35	1.42	1.12	1.00	0.89	0.77	0.95	
22	0.99	1.25	1.03	1.61	1.64	1.90	1.33	1.10	1.00	0.89	0.77	0.92	
23	1.16	1.13	1.05	1.47	1.59	2.01	1.31	1.09	1.00	0.88	0.77	0.90	
24	1.00	1.04	1.07	1.39	1.49	2.79	1.37	1.09	1.00	0.88	0.77	0.89	
25	1.04	1.03	1.35	1.36	1.47	2.08	1.33	1.09	0.99	0.88	0.77	0.88	
26	1.09	1.00	1.31	1.34	2.31	1.85	1.28	1.07	0.97	0.88	0.77	0.86	
27	1.04	1.39	1.21	1.31	3.68	1.78	1.24	1.10	0.96	0.88	0.77	0.84	
28	0.99	2.44	1.48	1.26	2.77	2.60	1.22	1.11	0.95	0.88	0.77	0.78	
29	1.94	1.65	1.57	1.24	2.17	1.96	1.21	1.13	0.94	0.88		0.72	
30	1.22	1.35	3.70	1.24	1.94	1.89	1.19	1.12	0.94	0.88		0.70	
31		1.35		1.24	1.85		1.19		0.94	0.88		0.72	
Mean	0.98	1.44	1.60	1.78	2.05	2.11	1.56	1.11	1.03	0.90	0.78	0.89	
Max	1.94	3.26	3.70	3.90	3.68	2.79	2.06	1.19	1.15	0.94	0.86	1.00	3.90
Min	0.78	0.89	1.03	1.24	1.33	1.59	1.19	1.05	0.94	0.88	0.77	0.70	0.70

Annual Max Momentary Gage Height 4.30 M (A.D), at 18.00 Hours, on Jun 30, 1994
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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.34	1.31	12.50	0.47	1.70	0.77	0.39	0.36	0.27	0.23	0.30	
2	0.28	0.31	3.75	7.30	2.64	3.32	0.67	0.40	0.37	0.27	0.23	0.29	
3	0.23	0.29	1.43	6.42	1.13	1.79	0.65	0.39	0.38	0.27	0.22	0.29	
4	0.24	0.24	8.82	8.10	0.61	2.12	0.74	0.38	0.37	0.26	0.21	0.28	
5	0.25	0.26	6.06	2.36	0.69	1.55	1.22	0.38	0.36	0.26	0.20	0.28	
6	0.26	0.34	1.67	1.16	5.00	0.96	0.68	0.38	0.35	0.26	0.20	0.28	
7	0.39	0.53	0.71	0.83	8.26	1.67	0.77	0.37	0.34	0.26	0.20	0.27	
8	0.24	1.10	0.50	0.92	5.00	2.54	0.72	0.36	0.34	0.26	0.19	0.27	
9	0.24	2.12	0.50	1.08	4.75	3.20	0.59	0.37	0.34	0.26	0.19	0.27	
10	0.24	0.44	0.58	0.66	2.48	1.40	0.71	0.36	0.34	0.26	0.18	0.26	
11	0.21	0.74	0.51	0.57	1.73	0.64	0.57	0.35	0.33	0.26	0.18	0.26	
12	0.20	0.41	0.46	0.55	1.64	1.06	1.10	0.34	0.32	0.26	0.18	0.28	
13	0.19	0.37	0.43	0.53	1.31	0.90	1.52	0.34	0.32	0.26	0.00	0.29	
14	0.21	0.25	0.40	0.50	0.87	0.84	1.58	0.34	0.31	0.26	0.00	0.27	
15	0.24	0.70	0.39	0.47	0.71	1.19	0.74	0.34	0.31	0.26	0.00	0.26	
16	0.29	0.40	0.37	0.47	0.64	0.84	0.61	0.34	0.30	0.26	0.00	0.24	
17	0.23	0.37	0.35	0.48	0.69	1.13	1.55	0.34	0.30	0.26	0.00	0.20	
18	0.23	0.50	0.34	0.47	1.13	2.36	0.68	0.33	0.30	0.26	0.00	0.20	
19	0.24	7.02	0.34	0.61	0.65	2.84	0.55	0.34	0.30	0.25	0.00	0.21	
20	0.26	4.70	0.33	1.55	0.55	3.50	0.53	0.35	0.30	0.25	0.00	0.27	
21	0.30	0.74	0.32	1.22	0.53	2.45	0.51	0.36	0.30	0.24	0.00	0.28	
22	0.30	0.43	0.32	0.66	0.69	1.10	0.47	0.35	0.30	0.24	0.00	0.26	
23	0.38	0.37	0.33	0.54	0.64	1.43	0.45	0.35	0.30	0.24	0.00	0.25	
24	0.30	0.32	0.34	0.50	0.55	4.35	0.49	0.35	0.30	0.24	0.00	0.24	
25	0.32	0.32	0.48	0.48	0.54	1.64	0.47	0.35	0.30	0.24	0.00	0.24	
26	0.35	0.30	0.45	0.47	2.33	1.00	0.44	0.34	0.29	0.24	0.00	0.23	
27	0.32	0.50	0.41	0.45	10.42	0.87	0.42	0.35	0.28	0.24	0.00	0.22	
28	0.30	2.76	0.54	0.43	4.25	3.40	0.41	0.36	0.28	0.24	0.00	0.19	
29	1.22	0.70	0.62	0.42	1.91	1.28	0.41	0.37	0.27	0.24		0.16	
30	0.41	0.48	10.60	0.42	1.22	1.08	0.40	0.36	0.27	0.24		0.15	
31		0.48		0.42	1.00		0.40		0.27	0.24		0.16	
Total	9.13	28.83	43.66	53.54	65.03	54.15	21.82	10.73	9.80	7.85	2.41	7.65	314.60 CMSDAY
Mean	0.30	0.93	1.46	1.73	2.10	1.80	0.70	0.36	0.32	0.25	0.09	0.25	0.86 CMS
Max	1.22	7.02	10.60	12.50	10.42	4.35	1.58	0.40	0.38	0.27	0.23	0.30	12.50 CMS
Min	0.19	0.24	0.32	0.42	0.47	0.64	0.40	0.33	0.27	0.24	0.00	0.15	0.00 CMS
Runoff	0.789	2.491	3.772	4.626	5.619	4.679	1.885	0.927	0.847	0.678	0.208	0.661	27.181 MCM

Momentary Peak 16.80 CMS, at 4.30 M (A.D), at 18.00 Hours, on Jun 30, 1994
Runoff Yield 10.51 Liters/Second/Square KM, Momentary Peak Yield 204.88 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

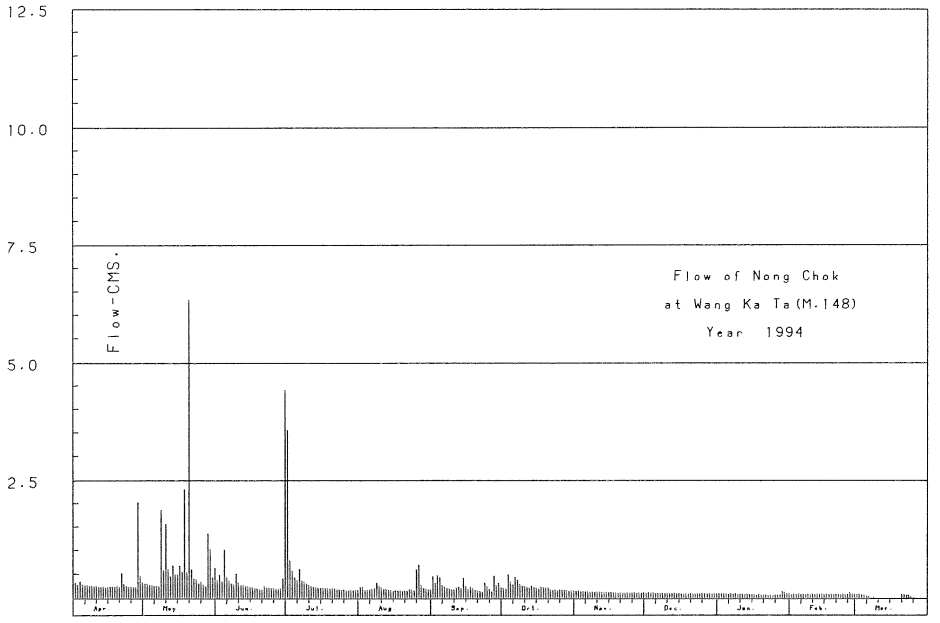
Huai Chok at Ban Khlong Phlu, Nakhon Ratchasima (M.148)

Location	Lat. 14-28-52 N., Long. 101-39-32 E., on left bank at the bridge on road, Ban Khlong Phlu, Tambon Wang Ka Tha, 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 19 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.94	0.92	0.98	2.46	0.84	1.07	0.81	0.76	0.72	0.69	0.68	0.68	
2	0.88	0.91	1.09	1.40	0.84	0.92	0.81	0.76	0.72	0.69	0.68	0.67	
3	0.96	0.89	0.96	1.18	0.77	1.08	1.11	0.75	0.72	0.69	0.68	0.65	
4	0.89	0.88	1.52	1.05	0.77	1.05	0.95	0.75	0.72	0.69	0.68	0.64	
5	0.88	0.87	1.05	0.98	0.79	0.88	0.90	0.75	0.71	0.69	0.68	0.61	
6	0.88	0.86	0.97	1.23	0.79	0.84	1.05	0.74	0.71	0.69	0.68	0.57	
7	0.87	0.86	0.92	0.98	0.82	0.82	1.00	0.74	0.71	0.69	0.68	0.56	
8	0.86	1.89	0.89	0.95	0.94	0.80	0.90	0.74	0.71	0.69	0.67	0.55	
9	0.86	1.20	1.13	0.92	0.86	0.79	0.87	0.74	0.71	0.68	0.67	0.54	
10	0.86	1.79	0.93	0.88	0.83	0.78	0.86	0.74	0.71	0.68	0.67	0.53	
11	0.85	1.22	0.88	0.86	0.80	0.82	0.84	0.74	0.71	0.68	0.67	0.05	
12	0.85	1.07	0.88	0.85	0.79	0.85	0.83	0.73	0.71	0.68	0.67	0.05	
13	0.85	1.30	0.86	0.83	0.78	0.80	0.86	0.73	0.71	0.68	0.67	0.05	
14	0.84	1.11	0.85	0.82	0.77	1.04	0.84	0.73	0.71	0.67	0.67	0.05	
15	0.84	1.10	0.84	0.82	0.76	0.86	0.82	0.73	0.70	0.67	0.67	0.05	
16	0.85	1.29	0.83	0.82	0.76	0.79	0.81	0.73	0.70	0.66	0.67	0.05	
17	0.85	1.16	0.82	0.82	0.77	0.85	0.84	0.73	0.70	0.66	0.67	0.05	
18	0.85	2.04	0.80	0.81	0.76	0.81	0.84	0.72	0.70	0.65	0.67	0.05	
19	0.86	1.15	0.79	0.81	0.76	0.78	0.82	0.72	0.70	0.65	0.67	0.05	
20	0.85	3.31	0.78	0.81	0.76	0.76	0.83	0.72	0.70	0.64	0.67	0.68	
21	1.14	1.22	0.85	0.80	0.76	0.75	0.78	0.72	0.70	0.64	0.67	0.67	
22	0.90	1.02	0.83	0.79	0.80	0.74	0.78	0.72	0.70	0.63	0.67	0.65	
23	0.87	1.00	0.82	0.78	0.78	0.94	0.78	0.72	0.70	0.63	0.67	0.63	
24	0.84	0.92	0.82	0.78	0.77	0.85	0.77	0.72	0.70	0.63	0.67	0.57	
25	0.84	0.95	0.81	0.78	1.21	0.79	0.78	0.72	0.69	0.63	0.67	0.54	
26	0.84	0.89	0.80	0.77	1.32	0.75	0.78	0.72	0.69	0.63	0.73	0.51	
27	0.84	0.86	0.80	0.77	0.88	1.08	0.78	0.72	0.69	0.68	0.69	0.05	
28	1.95	1.69	0.81	0.77	0.82	0.88	0.77	0.72	0.69	0.76	0.68	0.05	
29	1.08	1.52	1.03	0.77	0.80	0.92	0.76	0.72	0.69	0.73		0.05	
30	0.94	1.05	2.74	0.77	0.79	0.84	0.76	0.72	0.69	0.71		0.05	
31		1.25		0.77	0.78		0.76		0.69	0.70		0.05	
Mean	0.92	1.23	0.97	0.93	0.83	0.86	0.84	0.73	0.70	0.67	0.68	0.35	
Max	1.95	3.31	2.74	2.46	1.32	1.08	1.11	0.76	0.72	0.76	0.73	0.68	3.31
Min	0.84	0.86	0.78	0.77	0.76	0.74	0.76	0.72	0.69	0.63	0.67	0.05	0.05

Annual Max Momentary Gage Height 4.12 M (A.D), at 18.00 Hours, on May 18, 1994
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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.34	0.32	0.38	3.58	0.24	0.47	0.21	0.16	0.12	0.10	0.09	0.09	
2	0.28	0.31	0.49	0.80	0.24	0.32	0.21	0.16	0.12	0.10	0.09	0.09	
3	0.36	0.29	0.36	0.58	0.17	0.48	0.51	0.15	0.12	0.10	0.09	0.08	
4	0.29	0.28	1.04	0.45	0.17	0.45	0.35	0.15	0.12	0.10	0.09	0.07	
5	0.28	0.27	0.45	0.38	0.19	0.28	0.30	0.15	0.11	0.10	0.09	0.06	
6	0.28	0.26	0.37	0.63	0.19	0.24	0.45	0.14	0.11	0.10	0.09	0.04	
7	0.27	0.26	0.32	0.38	0.22	0.22	0.40	0.14	0.11	0.10	0.09	0.03	
8	0.26	1.87	0.29	0.35	0.34	0.20	0.30	0.14	0.11	0.10	0.09	0.03	
9	0.26	0.60	0.53	0.32	0.26	0.19	0.27	0.14	0.11	0.09	0.09	0.02	
10	0.26	1.58	0.33	0.28	0.23	0.18	0.26	0.14	0.11	0.09	0.09	0.01	
11	0.25	0.62	0.28	0.26	0.20	0.22	0.24	0.14	0.11	0.09	0.09	0.00	
12	0.25	0.47	0.28	0.25	0.19	0.25	0.23	0.13	0.11	0.09	0.09	0.00	
13	0.25	0.70	0.26	0.23	0.18	0.20	0.26	0.13	0.11	0.09	0.09	0.00	
14	0.24	0.51	0.25	0.22	0.17	0.44	0.24	0.13	0.11	0.09	0.09	0.00	
15	0.24	0.50	0.24	0.22	0.16	0.26	0.22	0.13	0.10	0.09	0.09	0.00	
16	0.25	0.69	0.23	0.22	0.16	0.19	0.21	0.13	0.10	0.08	0.09	0.00	
17	0.25	0.56	0.22	0.22	0.17	0.25	0.24	0.13	0.10	0.08	0.09	0.00	
18	0.25	2.32	0.20	0.21	0.16	0.21	0.24	0.12	0.10	0.08	0.09	0.00	
19	0.26	0.55	0.19	0.21	0.16	0.18	0.22	0.12	0.10	0.08	0.09	0.00	
20	0.25	6.34	0.18	0.21	0.16	0.16	0.23	0.12	0.10	0.07	0.09	0.09	
21	0.54	0.62	0.25	0.20	0.16	0.15	0.18	0.12	0.10	0.07	0.09	0.09	
22	0.30	0.42	0.23	0.19	0.20	0.14	0.18	0.12	0.10	0.07	0.09	0.08	
23	0.27	0.40	0.22	0.18	0.18	0.34	0.18	0.12	0.10	0.07	0.09	0.07	
24	0.24	0.32	0.22	0.18	0.17	0.25	0.17	0.12	0.10	0.07	0.09	0.04	
25	0.24	0.35	0.21	0.18	0.61	0.19	0.18	0.12	0.10	0.07	0.09	0.02	
26	0.24	0.29	0.20	0.17	0.72	0.15	0.18	0.12	0.10	0.07	0.13	0.00	
27	0.24	0.26	0.20	0.17	0.28	0.48	0.18	0.12	0.10	0.09	0.10	0.00	
28	2.05	1.38	0.21	0.17	0.22	0.28	0.17	0.12	0.10	0.16	0.09	0.00	
29	0.48	1.04	0.43	0.17	0.20	0.32	0.16	0.12	0.10	0.13		0.00	
30	0.34	0.45	4.42	0.17	0.19	0.24	0.16	0.12	0.10	0.11		0.00	
31		0.65		0.17	0.18		0.16		0.10	0.10		0.00	
Total	10.31	25.48	13.48	11.95	7.07	7.93	7.49	3.95	3.28	2.83	2.57	0.91	97.25 CMSDAY
Mean	0.34	0.82	0.45	0.39	0.23	0.26	0.24	0.13	0.11	0.09	0.09	0.03	0.27 CMS
Max	2.05	6.34	4.42	3.58	0.72	0.48	0.51	0.16	0.12	0.16	0.13	0.09	6.34 CMS
Min	0.24	0.26	0.18	0.17	0.16	0.14	0.16	0.12	0.10	0.07	0.09	0.00	0.00 CMS
Runoff	0.891	2.201	1.165	1.032	0.611	0.685	0.647	0.341	0.283	0.245	0.222	0.079	8.402 MCM

Momentary Peak 8.80 CMS, at 4.12 M (A.D), at 18.00 Hours, on May 18, 1994
Runoff Yield 5.55 Liters/Second/Square KM, Momentary Peak Yield 183.33 Liters/Second/Square KM

WATER YEAR 1994

MUN RIVER BASIN

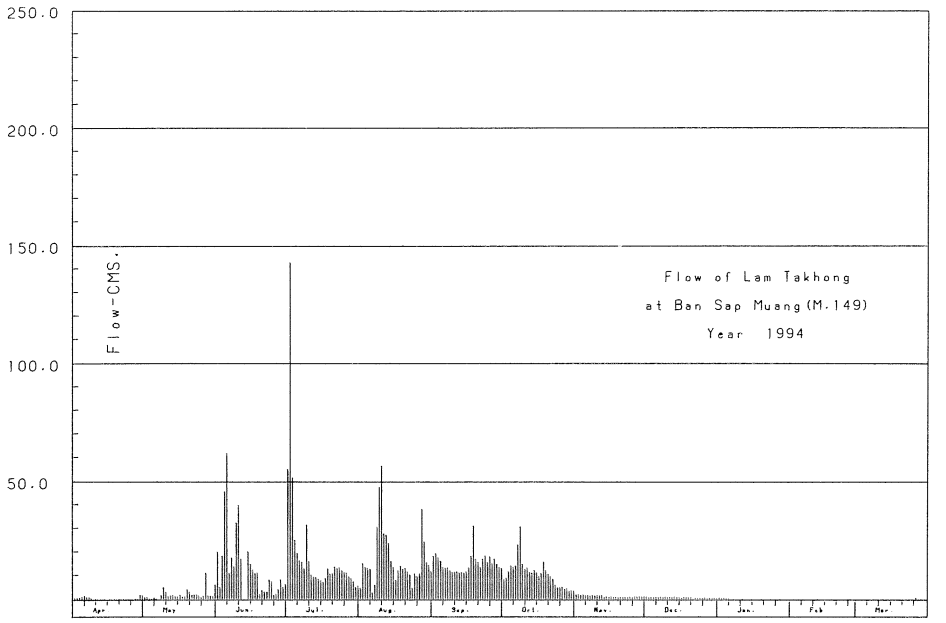
Lam Takhong at Ban Sap Muang, Nakhon Ratchasima (M.149)

Location	Lat. 14°45'28" N., Long. 101°27'38" E., on right bank at the bridge on road, Ban Sap Muang, Tambon Chan Tuk, 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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +5.76 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.44	1.49	2.32	3.58	1.69	2.23	1.77	1.60	1.49	1.45	1.39	1.38	
2	1.42	1.48	1.70	5.57	2.07	2.30	1.79	1.60	1.49	1.45	1.39	1.37	
3	1.47	1.43	2.23	3.47	2.00	2.20	1.90	1.58	1.49	1.45	1.39	1.37	
4	1.49	1.40	3.27	2.57	1.97	2.13	2.03	1.58	1.49	1.45	1.39	1.37	
5	1.55	1.46	3.77	2.30	1.96	1.99	1.99	1.57	1.49	1.45	1.39	1.36	
6	1.46	1.39	1.87	2.13	1.62	1.98	2.03	1.56	1.49	1.40	1.39	1.30	
7	1.49	1.40	2.20	2.10	1.72	1.98	2.47	1.56	1.49	1.40	1.39	1.33	
8	1.42	1.58	2.00	1.97	2.77	1.93	2.78	1.56	1.49	1.40	1.39	1.38	
9	1.39	1.70	2.83	2.80	3.33	1.89	2.06	1.56	1.49	1.40	1.39	1.38	
10	1.40	1.63	3.07	2.13	3.63	1.90	1.96	1.56	1.49	1.40	1.39	1.38	
11	1.39	1.52	2.17	1.83	2.67	1.90	1.98	1.56	1.49	1.40	1.39	1.40	
12	1.40	1.56	1.20	1.80	2.66	1.88	1.90	1.56	1.49	1.40	1.39	1.40	
13	1.39	1.56	1.17	1.79	2.50	1.88	1.87	1.50	1.49	1.39	1.39	1.40	
14	1.39	1.53	2.33	1.78	2.13	1.88	1.93	1.50	1.49	1.39	1.39	1.40	
15	1.38	1.50	2.07	1.76	1.99	1.90	1.89	1.50	1.46	1.39	1.39	1.40	
16	1.38	1.56	1.93	1.75	1.77	1.99	1.80	1.50	1.46	1.39	1.39	1.40	
17	1.38	1.50	1.87	1.78	1.92	2.23	1.87	1.50	1.49	1.39	1.39	1.40	
18	1.38	1.49	1.87	1.97	2.03	2.79	2.12	1.49	1.49	1.39	1.39	1.38	
19	1.39	1.67	1.60	1.85	1.95	2.17	1.93	1.49	1.47	1.39	1.39	1.37	
20	1.39	1.63	1.65	1.87	1.98	2.10	1.86	1.49	1.49	1.39	1.39	1.37	
21	1.39	1.58	1.63	2.00	1.90	2.00	1.80	1.49	1.45	1.39	1.39	1.37	
22	1.39	1.57	1.63	1.98	1.84	2.17	1.78	1.49	1.45	1.39	1.36	1.37	
23	1.39	1.60	1.77	1.98	1.69	2.25	1.72	1.49	1.45	1.39	1.36	1.37	
24	1.39	1.53	1.75	1.93	1.86	2.10	1.70	1.49	1.45	1.39	1.40	1.37	
25	1.39	1.48	1.57	1.89	1.81	2.23	1.70	1.49	1.45	1.39	1.40	1.37	
26	1.39	1.52	1.60	1.87	1.87	2.07	1.70	1.49	1.45	1.39	1.39	1.45	
27	1.42	1.88	1.67	1.80	3.02	2.17	1.68	1.49	1.45	1.39	1.38	1.40	
28	1.39	1.55	1.77	1.78	2.53	2.07	1.68	1.49	1.45	1.39	1.38	1.39	
29	1.57	1.52	1.70	1.75	2.10	1.99	1.65	1.49	1.45	1.39		1.40	
30	1.55	1.52	1.73	1.70	2.03	1.98	1.65	1.49	1.45	1.39		1.40	
31		1.72		1.71	1.90		1.65		1.45	1.39		1.39	
Mean	1.42	1.55	2.00	2.17	2.16	2.08	1.89	1.52	1.47	1.40	1.39	1.38	
Max	1.57	1.88	3.77	5.57	3.63	2.79	2.78	1.60	1.49	1.45	1.40	1.45	5.57
Min	1.38	1.39	1.17	1.70	1.62	1.88	1.65	1.49	1.45	1.39	1.36	1.30	1.17

Annual Max Momentary Gage Height 5.90 M (A.D), at 18.00 Hours, on Jul 2, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.38 M (A.D)
Left Bank Elevation 7.18 M (A.D)
Right Bank Elevation 5.75 M (A.D), Drainage Area 763 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.90	1.40	20.40	55.40	5.20	18.60	8.65	2.50	1.40	1.00	0.48	0.46	
2	0.70	1.30	5.50	143.20	15.40	20.00	9.55	2.50	1.40	1.00	0.48	0.44	
3	1.20	0.80	18.60	52.10	14.00	18.00	12.00	2.30	1.40	1.00	0.48	0.44	
4	1.40	0.50	46.10	25.40	13.40	16.60	14.60	2.30	1.40	1.00	0.48	0.44	
5	2.00	1.10	61.95	20.00	13.20	13.80	13.80	2.20	1.40	1.00	0.48	0.42	
6	1.10	0.48	11.40	16.60	3.10	13.60	14.60	2.10	1.40	0.50	0.48	0.30	
7	1.40	0.50	18.00	16.00	6.40	13.60	23.40	2.10	1.40	0.50	0.48	0.36	
8	0.70	2.30	14.00	13.40	31.10	12.60	31.40	2.10	1.40	0.50	0.48	0.46	
9	0.48	5.50	32.90	32.00	47.90	11.80	15.20	2.10	1.40	0.50	0.48	0.46	
10	0.50	3.40	40.10	16.60	57.05	12.00	13.20	2.10	1.40	0.50	0.48	0.46	
11	0.48	1.70	17.40	10.60	28.10	12.00	13.60	2.10	1.40	0.50	0.48	0.50	
12	0.50	2.10	0.20	10.00	27.80	11.60	12.00	2.10	1.40	0.50	0.48	0.50	
13	0.48	2.10	0.17	9.55	24.00	11.60	11.40	1.50	1.40	0.48	0.48	0.50	
14	0.48	1.80	20.60	9.10	16.60	11.60	12.60	1.50	1.40	0.48	0.48	0.50	
15	0.46	1.50	15.40	8.20	13.80	12.00	11.80	1.50	1.10	0.48	0.48	0.50	
16	0.46	2.10	12.60	7.75	8.65	13.80	10.00	1.50	1.10	0.48	0.48	0.50	
17	0.46	1.50	11.40	9.10	12.40	18.60	11.40	1.50	1.40	0.48	0.48	0.50	
18	0.46	1.40	11.40	13.40	14.60	31.70	16.40	1.40	1.40	0.48	0.48	0.46	
19	0.48	4.60	2.50	11.00	13.00	17.40	12.60	1.40	1.20	0.48	0.48	0.44	
20	0.48	3.40	4.00	11.40	13.60	16.00	11.20	1.40	1.40	0.48	0.48	0.44	
21	0.48	2.30	3.40	14.00	12.00	14.00	10.00	1.40	1.00	0.48	0.48	0.44	
22	0.48	2.20	3.40	13.60	10.80	17.40	9.10	1.40	1.00	0.48	0.42	0.44	
23	0.48	2.50	8.65	13.60	5.20	19.00	6.40	1.40	1.00	0.48	0.42	0.44	
24	0.48	1.80	7.75	12.60	11.20	16.00	5.50	1.40	1.00	0.48	0.50	0.44	
25	0.48	1.30	2.20	11.80	10.20	18.60	5.50	1.40	1.00	0.48	0.50	0.44	
26	0.48	1.70	2.50	11.40	11.40	15.40	5.50	1.40	1.00	0.48	0.48	1.00	
27	0.70	11.60	4.60	10.00	38.60	17.40	4.90	1.40	1.00	0.48	0.46	0.50	
28	0.48	2.00	8.65	9.10	24.60	15.40	4.90	1.40	1.00	0.48	0.46	0.48	
29	2.20	1.70	5.50	7.75	16.00	13.80	4.00	1.40	1.00	0.48		0.50	
30	2.00	1.70	6.85	5.50	14.60	13.60	4.00	1.40	1.00	0.48		0.50	
31		6.40		5.95	12.00		4.00		1.00	0.48		0.48	
Total	23.38	74.68	418.12	606.10	545.90	467.50	343.20	52.20	38.20	17.62	13.32	14.74	2614.96 CMSDAY
Mean	0.78	2.41	13.94	19.55	17.61	15.58	11.07	1.74	1.23	0.57	0.48	0.48	7.16 CMS
Max	2.20	11.60	61.95	143.20	57.05	31.70	31.40	2.50	1.40	1.00	0.50	1.00	143.20 CMS
Min	0.46	0.48	0.17	5.50	3.10	11.60	4.00	1.40	1.00	0.48	0.42	0.30	0.17 CMS
Runoff	2.020	6.452	36.126	52.367	47.166	40.392	29.652	4.510	3.300	1.522	1.151	1.274	225.933 MCM

Momentary Peak 163.00 CMS, at 5.90 M (A.D), at 18.00 Hours, on Jul 2, 1994

Runoff Yield 9.39 Liters/Second/Square KM, Momentary Peak Yield 213.63 Liters/Second/Square KM

WATER YEAR 1994

TONLE SAP BASIN

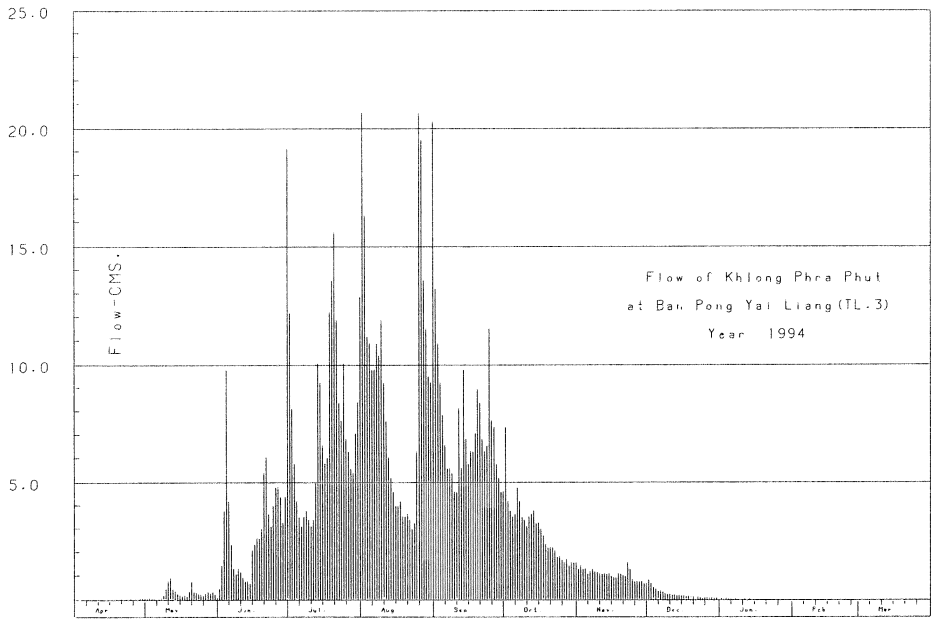
Khlong Phra Phut at Ban Pong Yai Liang, Chanthaburi (TL.3)

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 fair. Flow effected by the local weir during Apr.1-May2,94 and Dec.8,94-Mar.31,95,discharge estimated by recession equation. Stage-discharge relation defined by 36 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.96	190.93	191.01	191.63	191.87	191.66	191.46	191.11	191.06	191.04	191.03	191.13	
2	190.99	190.93	191.12	191.49	191.75	191.59	191.32	191.12	191.04	191.03	191.03	191.09	
3	190.99	190.92	191.30	191.40	191.60	191.53	191.30	191.11	191.02	191.02	191.02	191.06	
4	190.96	190.91	191.55	191.32	191.59	191.48	191.28	191.11	191.01	191.01	191.06	191.07	
5	190.95	190.89	191.32	191.28	191.55	191.43	191.29	191.09	191.00	191.00	191.05	191.13	
6	190.93	190.91	191.19	191.25	191.55	191.39	191.35	191.10	191.00	191.01	191.05	191.13	
7	190.92	190.92	191.11	191.28	191.59	191.39	191.32	191.11	190.99	191.03	191.04	191.13	
8	190.97	190.95	191.09	191.30	191.57	191.38	191.28	191.10	190.97	191.02	191.06	191.10	
9	190.95	191.01	191.11	191.27	191.62	191.34	191.27	191.10	190.98	191.01	191.05	191.07	
10	190.93	191.05	191.10	191.25	191.53	191.34	191.25	191.09	191.03	191.07	191.03	191.06	
11	190.93	191.07	191.07	191.27	191.47	191.49	191.28	191.09	191.05	191.08	191.04	191.05	
12	190.93	191.01	191.05	191.36	191.41	191.39	191.29	191.09	191.04	191.08	191.05	191.02	
13	191.07	190.99	191.05	191.56	191.37	191.55	191.30	191.09	191.05	191.08	191.06	191.02	
14	191.03	190.97	191.04	191.53	191.34	191.44	191.26	191.09	191.06	191.10	191.06	191.02	
15	190.96	190.95	191.17	191.43	191.31	191.40	191.26	191.08	191.08	191.09	191.07	191.01	
16	190.95	190.94	191.19	191.40	191.31	191.42	191.24	191.07	191.07	191.08	191.05	191.01	
17	190.94	190.95	191.21	191.41	191.32	191.42	191.22	191.07	191.07	191.09	191.05	191.01	
18	190.93	190.94	191.21	191.63	191.28	191.45	191.19	191.09	191.05	191.08	191.03	191.03	
19	190.94	190.99	191.24	191.67	191.28	191.52	191.18	191.09	191.05	191.08	191.06	191.13	
20	190.94	191.05	191.38	191.73	191.29	191.50	191.18	191.08	191.03	191.09	191.05	191.08	
21	190.98	190.99	191.41	191.62	191.27	191.44	191.18	191.08	191.03	191.09	191.06	191.05	
22	190.95	190.98	191.29	191.50	191.24	191.42	191.17	191.13	191.05	191.08	191.07	191.02	
23	190.96	190.97	191.25	191.47	191.26	191.43	191.15	191.11	191.05	191.07	191.10	191.01	
24	190.94	190.96	191.31	191.56	191.42	191.61	191.15	191.06	191.04	191.07	191.08	191.02	
25	190.93	190.95	191.35	191.44	191.87	191.47	191.14	191.05	191.04	191.07	191.09	191.01	
26	190.95	190.97	191.35	191.42	191.84	191.46	191.13	191.05	191.05	191.06	191.06	191.07	
27	190.94	190.99	191.33	191.39	191.67	191.40	191.14	191.05	191.05	191.07	191.07	191.06	
28	190.94	190.97	191.26	191.38	191.61	191.37	191.12	191.05	191.05	191.10	191.08	191.04	
29	190.94	190.99	191.33	191.45	191.54	191.34	191.13	191.04	191.07	191.10		191.04	
30	190.93	190.96	191.83	191.50	191.53	191.34	191.13	191.04	191.07	191.08		191.02	
31		190.93		191.65	191.86		191.13		191.06	191.06		190.99	
Mean	190.95	190.97	191.24	191.45	191.51	191.45	191.23	191.08	191.04	191.06	191.06	191.05	
Max	191.07	191.07	191.83	191.73	191.87	191.66	191.46	191.13	191.08	191.10	191.10	191.13	191.87
Min	190.92	190.89	191.01	191.25	191.24	191.34	191.12	191.04	190.97	191.00	191.02	190.99	190.89

Annual Max Momentary Gage Height 192.50 M (MSL), at 20.00 Hours, on Aug 1, 1994
Zero Gage at Bottom Elevation 190.67 M (MSL), River Bed 190.24 M (MSL)
Left Bank Elevation 195.34 M (MSL)
Right Bank Elevation 195.56 M (MSL), Drainage Area 79 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.07	0.48	12.22	20.66	13.24	7.36	1.33	0.88	0.08	0.02	0.00	
2	0.02	0.08	1.46	8.14	16.30	10.92	4.20	1.46	0.72	0.08	0.02	0.00	
3	0.02	0.08	3.80	5.80	11.20	9.24	3.80	1.33	0.56	0.08	0.02	0.00	
4	0.02	0.04	9.80	4.20	10.92	7.88	3.54	1.33	0.48	0.07	0.02	0.00	
5	0.02	0.00	4.20	3.54	9.80	6.58	3.67	1.12	0.40	0.07	0.01	0.00	
6	0.02	0.04	2.37	3.15	9.80	5.60	4.80	1.20	0.40	0.07	0.01	0.00	
7	0.02	0.08	1.33	3.54	10.92	5.60	4.20	1.33	0.36	0.06	0.01	0.00	
8	0.02	0.20	1.12	3.80	10.36	5.40	3.54	1.20	0.28	0.06	0.01	0.00	
9	0.02	0.48	1.33	3.41	11.88	4.60	3.41	1.20	0.27	0.06	0.01	0.00	
10	0.03	0.80	1.20	3.15	9.24	4.60	3.15	1.12	0.25	0.05	0.01	0.00	
11	0.03	0.96	0.96	3.41	7.62	8.14	3.54	1.12	0.24	0.05	0.01	0.00	
12	0.03	0.48	0.80	5.00	6.06	5.60	3.67	1.12	0.23	0.05	0.01	0.00	
13	0.03	0.36	0.80	10.08	5.20	9.80	3.80	1.12	0.22	0.05	0.01	0.00	
14	0.03	0.28	0.72	9.24	4.60	6.84	3.28	1.12	0.21	0.04	0.01	0.00	
15	0.03	0.20	2.11	6.58	4.00	5.80	3.28	1.04	0.20	0.04	0.01	0.00	
16	0.03	0.16	2.37	5.80	4.00	6.32	3.02	0.96	0.19	0.04	0.01	0.00	
17	0.04	0.20	2.63	6.06	4.20	6.32	2.76	0.96	0.18	0.04	0.01	0.00	
18	0.04	0.16	2.63	12.22	3.54	7.10	2.37	1.12	0.17	0.04	0.01	0.00	
19	0.04	0.36	3.02	13.58	3.54	8.96	2.24	1.12	0.16	0.03	0.01	0.00	
20	0.04	0.80	5.40	15.62	3.67	8.40	2.24	1.04	0.15	0.03	0.01	0.00	
21	0.04	0.36	6.06	11.88	3.41	6.84	2.24	1.04	0.15	0.03	0.01	0.00	
22	0.05	0.32	3.67	8.40	3.02	6.32	2.11	1.59	0.14	0.03	0.01	0.00	
23	0.05	0.28	3.15	7.62	3.28	6.58	1.85	1.33	0.13	0.03	0.01	0.00	
24	0.05	0.24	4.00	10.08	6.32	11.54	1.85	0.88	0.13	0.03	0.01	0.00	
25	0.05	0.20	4.80	6.84	20.66	7.62	1.72	0.80	0.12	0.03	0.01	0.00	
26	0.06	0.28	4.80	6.32	19.52	7.36	1.59	0.80	0.11	0.02	0.01	0.00	
27	0.06	0.36	4.40	5.60	13.58	5.80	1.72	0.80	0.11	0.02	0.00	0.00	
28	0.06	0.28	3.28	5.40	11.54	5.20	1.46	0.80	0.10	0.02	0.00	0.00	
29	0.07	0.36	4.40	7.10	9.52	4.60	1.59	0.72	0.10	0.02		0.00	
30	0.07	0.24	19.14	8.40	9.24	4.60	1.59	0.72	0.09	0.02		0.00	
31		0.12		12.90	20.28		1.59		0.09	0.02		0.00	
Total	1.11	8.87	106.23	229.08	287.88	213.40	91.18	32.82	7.82	1.36	0.30	0.00	980.05 CMSDAY
Mean	0.04	0.29	3.54	7.39	9.29	7.11	2.94	1.09	0.25	0.04	0.01	0.00	2.69 CMS
Max	0.07	0.96	19.14	15.62	20.66	13.24	7.36	1.59	0.88	0.08	0.02	0.00	20.66 CMS
Min	0.02	0.00	0.48	3.15	3.02	4.60	1.46	0.72	0.09	0.02	0.00	0.00	0.00 CMS
Runoff	0.096	0.766	9.178	19.793	24.873	18.438	7.878	2.836	0.676	0.118	0.026	0.000	84.676 MCM

Momentary Peak 51.50 CMS, at 192.50 M (MSL), at 20.00 Hours, on Aug 1, 1994

Runoff Yield 33.99 Liters/Second/Square KM, Momentary Peak Yield 651.90 Liters/Second/Square KM

WATER YEAR 1994

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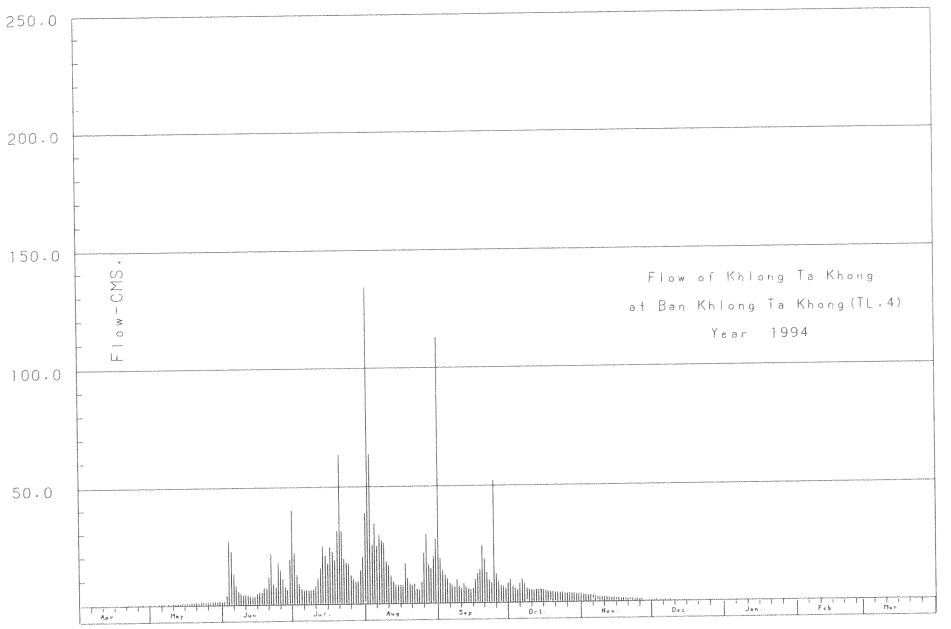
Khlong Ta Khong at Ban Khlong Ta Khong, Chanthaburi (TL.4)

Location	Lat. 12-54-57 N., Long. 102-19-30 E., on left bank downstream from the bridge of Amphoe Pong Nam Ron - Ban Pong Nam Ron Highway, Ban Khlong Ta Khong, Amphoe Pong Nam Ron, Chanthaburi.
Drainage Area	96 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+176.80 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 30 meters from the top staff gage.
Elevation	+186.762 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1986 to date.
Rated by Float	-
Rated by Current Meter	1986 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir during Apr.1-May31,94 and Nov.13,94-Mar.31,95,discharge estimated by recession equation. Stage-discharge relation defined by 28 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	178.59	178.56	178.33	179.73	182.88	179.60	179.14	178.62	178.64	178.40	177.38	177.03	
2	178.60	178.55	178.71	179.29	181.22	179.36	178.97	178.58	178.63	178.26	177.38	177.03	
3	178.58	178.52	179.96	179.08	179.88	179.26	178.90	178.57	178.47	178.17	177.37	177.03	
4	178.56	178.47	179.79	178.96	180.23	179.16	178.86	178.56	178.45	178.17	177.35	177.03	
5	178.54	178.44	179.31	178.90	179.85	179.06	179.03	178.53	178.65	178.28	177.32	177.03	
6	178.52	178.40	179.03	178.89	180.05	179.01	179.15	178.50	178.64	178.31	177.29	177.03	
7	178.51	178.37	178.87	178.88	179.95	178.97	179.03	178.46	178.64	178.31	177.27	177.00	
8	178.49	178.36	178.78	178.90	179.90	179.15	178.92	178.45	178.64	178.28	177.27	176.98	
9	178.47	178.38	178.72	178.92	179.55	178.98	178.85	178.45	178.64	178.28	177.26	176.98	
10	178.42	178.41	178.73	179.01	179.47	178.91	178.84	178.44	178.64	178.24	177.25	176.96	
11	178.40	178.56	178.71	179.20	179.24	179.05	178.81	178.43	178.64	178.24	177.22	176.95	
12	178.36	178.77	178.66	179.44	179.11	178.95	178.86	178.41	178.64	178.19	177.21	176.93	
13	178.32	178.71	178.64	179.86	179.03	178.90	178.83	178.40	178.64	178.16	177.20	176.91	
14	178.56	178.66	178.64	179.69	179.03	178.85	178.85	178.61	178.64	178.13	177.19	176.91	
15	178.56	178.56	178.76	179.52	179.02	178.92	178.82	178.65	178.61	178.07	177.17	176.90	
16	178.67	178.63	178.82	179.84	179.01	179.14	178.80	178.66	178.61	177.99	177.15	176.88	
17	178.64	178.66	178.81	179.76	179.51	179.28	178.77	178.68	178.61	177.89	177.14	176.86	
18	178.62	178.67	178.97	179.59	179.18	179.36	178.76	178.67	178.50	177.85	177.13	176.83	
19	178.61	178.67	178.97	180.12	179.06	179.84	178.74	178.67	178.50	177.81	177.12	176.82	
20	178.61	178.67	179.24	181.22	179.02	179.58	178.73	178.65	178.39	177.79	177.09	176.82	
21	178.62	178.78	179.73	180.11	179.04	179.30	178.73	178.65	178.39	177.78	177.08	176.82	
22	178.57	178.74	179.07	179.61	178.91	179.13	178.72	178.64	178.38	177.78	177.08	176.81	
23	178.57	178.74	179.00	179.54	178.88	179.07	178.71	178.65	178.61	177.78	177.07	176.81	
24	178.56	178.66	179.55	179.51	179.10	180.87	178.69	178.65	178.61	177.78	177.05	176.80	
25	178.55	178.60	179.38	179.27	179.72	179.28	178.68	178.65	178.61	177.77	177.04	176.80	
26	178.56	178.56	179.18	179.18	180.06	179.09	178.68	178.65	178.60	177.71	177.00	176.79	
27	178.55	178.55	179.00	179.11	179.48	179.00	178.68	178.65	178.60	177.65	177.00	176.79	
28	178.55	178.53	178.90	179.12	179.39	178.96	178.67	178.65	178.62	177.55	177.00	176.79	
29	178.56	178.52	179.61	179.38	179.66	178.91	178.66	178.64	178.62	177.49		176.79	
30	178.56	178.55	180.46	179.65	179.96	179.06	178.64	178.64	178.49	177.42		176.79	
31		178.51		180.41	182.44		178.64		178.42	177.37		176.79	
Mean	178.54	178.57	179.08	179.47	179.70	179.20	178.81	178.58	178.57	177.96	177.18	176.89	
Max	178.67	178.78	180.46	181.22	182.88	180.87	179.15	178.68	178.65	178.40	177.38	177.03	182.88
Min	178.32	178.36	178.33	178.88	178.88	178.85	178.64	178.40	178.38	177.37	177.00	176.79	176.79

Annual Max Momentary Gage Height 183.59 M (MSL), at 9.00 Hours, on Aug 31, 1994
Zero Gage at Bottom Elevation 176.80 M (MSL), River Bed 175.69 M (MSL)
Left Bank Elevation 184.81 M (MSL)
Right Bank Elevation 183.90 M (MSL), Drainage Area 96 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.16	0.51	1.71	21.76	134.50	19.00	10.02	3.38	0.95	0.28	0.09	0.03	
2	0.17	0.53	4.20	12.81	63.72	14.20	7.08	3.06	0.91	0.27	0.08	0.03	
3	0.17	0.56	27.30	8.94	25.30	12.24	6.10	2.99	0.88	0.26	0.08	0.03	
4	0.18	0.58	23.08	6.94	34.11	10.38	5.70	2.92	0.84	0.25	0.08	0.03	
5	0.19	0.60	13.20	6.10	24.55	8.58	8.04	2.71	0.81	0.24	0.07	0.02	
6	0.20	0.62	8.04	6.00	29.55	7.68	10.20	2.50	0.78	0.23	0.07	0.02	
7	0.20	0.65	5.80	5.90	27.05	7.08	8.04	2.26	0.75	0.23	0.07	0.02	
8	0.21	0.67	4.90	6.10	25.80	10.20	6.38	2.20	0.72	0.22	0.07	0.02	
9	0.22	0.70	4.30	6.38	18.00	7.22	5.60	2.20	0.69	0.21	0.06	0.02	
10	0.23	0.73	4.40	7.68	16.40	6.24	5.50	2.14	0.67	0.20	0.06	0.02	
11	0.24	0.76	4.20	11.10	11.86	8.40	5.20	2.08	0.64	0.19	0.06	0.02	
12	0.25	0.79	3.74	15.80	9.48	6.80	5.70	1.96	0.62	0.19	0.06	0.02	
13	0.26	0.82	3.56	24.80	8.04	6.10	5.40	1.90	0.59	0.18	0.05	0.02	
14	0.27	0.85	3.56	20.89	8.04	5.60	5.60	1.83	0.57	0.17	0.05	0.02	
15	0.28	0.89	4.70	17.40	7.86	6.38	5.30	1.76	0.55	0.17	0.05	0.02	
16	0.29	0.92	5.30	24.30	7.68	10.02	5.10	1.69	0.53	0.16	0.05	0.02	
17	0.30	0.96	5.20	22.42	17.20	12.62	4.80	1.63	0.51	0.15	0.05	0.02	
18	0.31	0.99	7.08	18.80	10.74	14.20	4.70	1.57	0.49	0.15	0.04	0.01	
19	0.32	1.03	7.08	31.30	8.58	24.30	4.50	1.51	0.47	0.14	0.04	0.01	
20	0.34	1.07	11.86	63.72	7.86	18.60	4.40	1.45	0.45	0.14	0.04	0.01	
21	0.35	1.12	21.76	31.05	8.22	13.00	4.40	1.39	0.44	0.13	0.04	0.01	
22	0.36	1.16	8.76	19.21	6.24	9.84	4.30	1.34	0.42	0.13	0.04	0.01	
23	0.38	1.21	7.50	17.80	5.90	8.76	4.20	1.29	0.40	0.12	0.04	0.01	
24	0.39	1.25	18.00	17.20	9.30	52.30	4.01	1.24	0.39	0.12	0.04	0.01	
25	0.41	1.30	14.60	12.43	21.54	12.62	3.92	1.19	0.37	0.11	0.03	0.01	
26	0.42	1.36	10.74	10.74	29.80	9.12	3.92	1.15	0.36	0.11	0.03	0.01	
27	0.44	1.41	7.50	9.48	16.60	7.50	3.92	1.10	0.35	0.10	0.03	0.01	
28	0.46	1.46	6.10	9.66	14.80	6.94	3.83	1.06	0.33	0.10	0.03	0.01	
29	0.48	1.52	19.21	14.60	20.26	6.24	3.74	1.02	0.32	0.10		0.01	
30	0.49	1.58	40.38	20.05	27.30	8.58	3.56	0.98	0.31	0.09		0.01	
31		1.65		38.98	113.30		3.56		0.30	0.09		0.01	
Total	8.97	30.25	307.76	540.34	769.58	350.74	166.72	55.50	17.41	5.23	1.50	0.52	2254.52 CMSDAY
Mean	0.30	0.98	10.26	17.43	24.83	11.69	5.38	1.85	0.56	0.17	0.05	0.02	6.18 CMS
Max	0.49	1.65	40.38	63.72	134.50	52.30	10.20	3.38	0.95	0.28	0.09	0.03	134.50 CMS
Min	0.16	0.51	1.71	5.90	5.90	5.60	3.56	0.98	0.30	0.09	0.03	0.01	0.01 CMS
Runoff	0.775	2.614	26.590	46.685	66.492	30.304	14.405	4.795	1.504	0.452	0.130	0.045	194.791 MCM

Momentary Peak 171.42 CMS, at 183.59 M (MSL), at 9.00 Hours, on Aug 31, 1994

Runoff Yield 64.34 Liters/Second/Square KM, Momentary Peak Yield 1785.63 Liters/Second/Square KM

WATER YEAR 1994

TONLE SAP BASIN

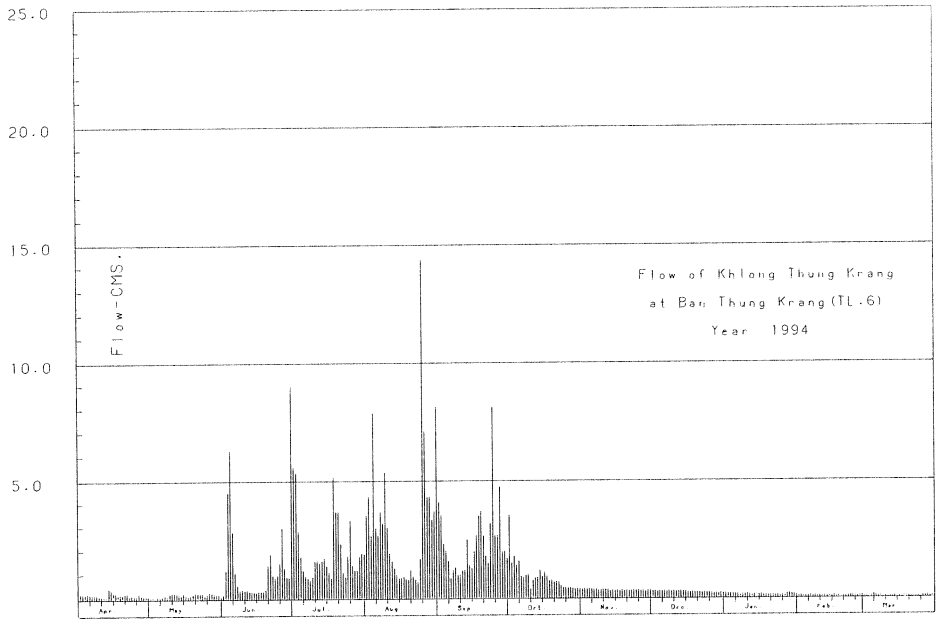
Khlong Thung Krang at Ban Thung Krang, Chanthaburi (TL.6)

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 fair. Stage-discharge relation defined by 37 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.92	183.74	183.87	184.39	184.29	184.32	184.29	184.00	183.96	183.90	183.80	183.78	
2	183.90	183.74	184.12	184.38	184.33	184.29	184.15	184.00	183.95	183.90	183.82	183.76	
3	183.90	183.74	184.34	184.25	184.24	184.22	184.18	184.00	183.95	183.90	183.80	183.74	
4	183.91	183.77	184.42	184.18	184.48	184.20	184.14	184.00	183.95	183.90	183.78	183.75	
5	183.90	183.74	184.25	184.12	184.26	184.16	184.16	184.00	183.95	183.89	183.79	183.85	
6	183.87	183.78	184.11	184.09	184.24	184.08	184.09	183.98	183.95	183.86	183.80	183.77	
7	183.88	183.84	184.03	184.08	184.30	184.12	184.08	184.00	183.95	183.83	183.79	183.74	
8	183.86	183.81	183.98	184.06	184.27	184.13	184.10	183.96	183.95	183.85	183.79	183.74	
9	183.84	183.91	183.99	184.09	184.38	184.10	184.10	183.98	183.95	183.87	183.78	183.72	
10	183.81	183.92	183.98	184.16	184.26	184.10	184.00	183.98	183.95	183.87	183.79	183.74	
11	183.79	183.93	183.98	184.16	184.19	184.12	184.06	183.99	183.95	183.86	183.77	183.73	
12	183.79	183.91	183.96	184.15	184.16	184.12	184.08	183.99	183.95	183.84	183.79	183.71	
13	184.01	183.90	183.95	184.16	184.13	184.23	184.08	183.96	183.95	183.86	183.78	183.71	
14	183.98	183.85	183.95	184.17	184.10	184.14	184.12	183.96	183.95	183.88	183.77	183.71	
15	183.94	183.91	183.94	184.14	184.08	184.13	184.09	183.96	183.94	183.85	183.74	183.71	
16	183.92	183.84	183.95	184.11	184.08	184.20	184.11	183.96	183.93	183.85	183.77	183.70	
17	183.87	183.81	183.96	184.08	184.09	184.24	184.09	183.96	183.93	183.83	183.77	183.70	
18	183.87	183.83	183.95	184.37	184.07	184.29	184.06	183.97	183.93	183.82	183.76	183.75	
19	183.88	183.90	184.00	184.30	184.07	184.30	184.06	183.96	183.93	183.82	183.75	183.78	
20	183.92	183.92	184.14	184.30	184.12	184.24	184.05	183.96	183.92	183.82	183.76	183.73	
21	183.91	183.92	184.19	184.22	184.09	184.18	184.05	183.97	183.93	183.82	183.77	183.71	
22	183.83	183.91	184.10	184.11	184.07	184.15	184.05	183.97	183.92	183.83	183.77	183.70	
23	183.84	183.91	184.08	184.09	184.05	184.27	184.02	183.97	183.92	183.82	183.81	183.71	
24	183.83	183.83	184.10	184.18	184.17	184.49	184.01	183.97	183.92	183.81	183.76	183.70	
25	183.82	183.89	184.15	184.28	184.66	184.24	184.01	183.97	183.92	183.81	183.77	183.73	
26	183.91	183.93	184.26	184.14	184.45	184.24	184.01	183.96	183.91	183.82	183.76	183.75	
27	183.85	183.92	184.13	184.12	184.33	184.35	184.01	183.96	183.90	183.89	183.77	183.78	
28	183.80	183.91	184.09	184.12	184.33	184.20	184.00	183.95	183.90	183.90	183.81	183.77	
29	183.80	183.90	184.08	184.18	184.28	184.20	184.00	183.96	183.90	183.88		183.75	
30	183.79	183.87	184.52	184.19	184.30	184.17	184.00	183.96	183.91	183.85		183.74	
31		183.79		184.19	184.49		184.00		183.91	183.83		183.72	
Mean	183.87	183.86	184.09	184.18	184.24	184.21	184.07	183.97	183.93	183.85	183.78	183.74	
Max	184.01	183.93	184.52	184.39	184.66	184.49	184.29	184.00	183.96	183.90	183.82	183.85	184.66
Min	183.79	183.74	183.87	184.06	184.05	184.08	184.00	183.95	183.90	183.81	183.74	183.70	183.70

Annual Max Momentary Gage Height 184.98 M (MSL), at 12.00 Hours, on Aug 4, 1994
Zero Gage at Bottom Elevation 183.10 M (MSL), River Bed 182.98 M (MSL)
Left Bank Elevation 186.45 M (MSL)
Right Bank Elevation 186.41 M (MSL), Drainage Area 42 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	0.07	0.17	5.59	3.53	4.12	3.53	0.40	0.32	0.20	0.10	0.09	
2	0.20	0.07	1.20	5.38	4.33	3.53	1.50	0.40	0.30	0.20	0.12	0.08	
3	0.20	0.07	4.54	2.85	2.68	2.34	1.80	0.40	0.30	0.20	0.10	0.07	
4	0.22	0.09	6.32	1.80	7.88	2.00	1.40	0.40	0.30	0.20	0.09	0.07	
5	0.20	0.07	2.85	1.20	3.02	1.60	1.60	0.40	0.30	0.19	0.09	0.15	
6	0.17	0.09	1.10	0.94	2.68	0.88	0.94	0.36	0.30	0.16	0.10	0.09	
7	0.18	0.14	0.58	0.88	3.70	1.20	0.88	0.40	0.30	0.13	0.09	0.07	
8	0.16	0.11	0.36	0.76	3.19	1.30	1.00	0.32	0.30	0.15	0.09	0.07	
9	0.14	0.22	0.38	0.94	5.38	1.00	1.00	0.36	0.30	0.17	0.09	0.06	
10	0.11	0.24	0.36	1.60	3.02	1.00	0.40	0.36	0.30	0.17	0.09	0.07	
11	0.09	0.26	0.36	1.60	1.90	1.20	0.76	0.38	0.30	0.16	0.09	0.06	
12	0.09	0.22	0.32	1.50	1.60	1.20	0.88	0.38	0.30	0.14	0.09	0.06	
13	0.46	0.20	0.30	1.60	1.30	2.51	0.88	0.32	0.30	0.16	0.09	0.06	
14	0.36	0.15	0.30	1.70	1.00	1.40	1.20	0.32	0.30	0.18	0.09	0.06	
15	0.28	0.22	0.28	1.40	0.88	1.30	0.94	0.32	0.28	0.15	0.07	0.06	
16	0.24	0.14	0.30	1.10	0.88	2.00	1.10	0.32	0.26	0.15	0.09	0.05	
17	0.17	0.11	0.32	0.88	0.94	2.68	0.94	0.32	0.26	0.13	0.09	0.05	
18	0.17	0.13	0.30	5.17	0.82	3.53	0.76	0.34	0.26	0.12	0.08	0.07	
19	0.18	0.20	0.40	3.70	0.82	3.70	0.76	0.32	0.26	0.12	0.07	0.09	
20	0.24	0.24	1.40	3.70	1.20	2.68	0.70	0.32	0.24	0.12	0.08	0.06	
21	0.22	0.24	1.90	2.34	0.94	1.80	0.70	0.34	0.26	0.12	0.09	0.06	
22	0.13	0.22	1.00	1.10	0.82	1.50	0.70	0.34	0.24	0.13	0.09	0.05	
23	0.14	0.22	0.88	0.94	0.70	3.19	0.52	0.34	0.24	0.12	0.11	0.06	
24	0.13	0.13	1.00	1.80	1.70	8.14	0.46	0.34	0.24	0.11	0.08	0.05	
25	0.12	0.19	1.50	3.36	14.40	2.68	0.46	0.34	0.24	0.11	0.09	0.06	
26	0.22	0.26	3.02	1.40	7.10	2.68	0.46	0.32	0.22	0.12	0.08	0.07	
27	0.15	0.24	1.30	1.20	4.33	4.75	0.46	0.32	0.20	0.19	0.09	0.09	
28	0.10	0.22	0.94	1.20	4.33	2.00	0.40	0.30	0.20	0.20	0.11	0.09	
29	0.10	0.20	0.88	1.80	3.36	2.00	0.40	0.32	0.20	0.18		0.07	
30	0.09	0.17	9.06	1.90	3.70	1.70	0.40	0.32	0.22	0.15		0.07	
31		0.09		1.90	8.14		0.40		0.22	0.13		0.06	
Total	5.50	5.22	43.62	63.23	100.27	71.61	28.33	10.42	8.26	4.76	2.54	2.17	345.93 CMSDAY
Mean	0.18	0.17	1.45	2.04	3.23	2.39	0.91	0.35	0.27	0.15	0.09	0.07	0.95 CMS
Max	0.46	0.26	9.06	5.59	14.40	8.14	3.53	0.40	0.32	0.20	0.12	0.15	14.40 CMS
Min	0.09	0.07	0.17	0.76	0.70	0.88	0.40	0.30	0.20	0.11	0.07	0.05	0.05 CMS
Runoff	0.475	0.451	3.769	5.463	8.663	6.187	2.448	0.900	0.714	0.411	0.219	0.187	29.888 MCM

Momentary Peak 37.12 CMS, at 184.98 M (MSL), at 12.00 Hours, on Aug 4, 1994

Runoff Yield 22.57 Liters/Second/Square KM, Momentary Peak Yield 883.81 Liters/Second/Square KM

WATER YEAR 1994

THA CHIN RIVER BASIN

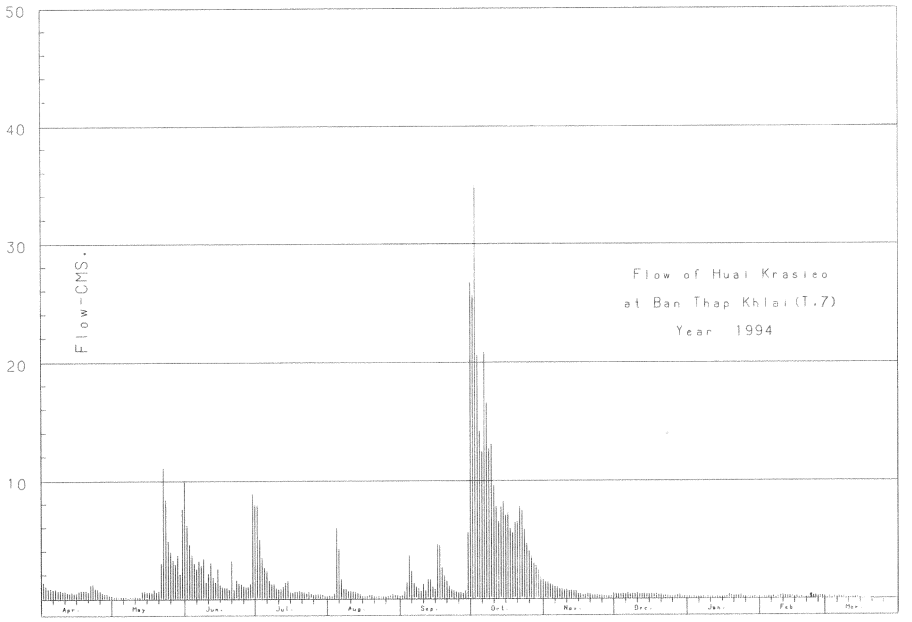
Huai Krasieo at Ban Thap Khlai, Uthai Thani (T.7)

Location	Lat. 15°03'06" N., Long. 99°35'18" E., on right bank in the vicinity of Wat Thap Khlai at Ban Thap Khlai, Amphoe Ban Rai, Uthai Thani.
Drainage Area	607 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank under the coconut tree and about 50 meters from the top staff gage.
Elevation	+3.689 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1982 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 104 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	-0.10	0.55	0.67	-0.09	-0.07	1.48	0.17	-0.03	-0.12	-0.13	-0.13	
2	0.12	-0.11	0.44	0.47	-0.10	0.01	1.80	0.16	-0.04	-0.12	-0.13	-0.13	
3	0.10	-0.12	0.37	0.35	-0.04	0.16	1.28	0.15	-0.04	-0.12	-0.12	-0.13	
4	0.09	-0.12	0.32	0.29	0.54	0.37	1.00	0.13	-0.04	-0.12	-0.12	-0.13	
5	0.08	-0.13	0.28	0.26	0.41	0.26	0.92	0.12	-0.04	-0.12	-0.12	-0.13	
6	0.07	-0.13	0.33	0.19	0.20	0.16	1.29	0.11	-0.03	-0.12	-0.12	-0.13	
7	0.05	-0.13	0.30	0.14	0.09	0.12	1.11	0.09	-0.05	-0.12	-0.13	-0.13	
8	0.04	-0.13	0.35	0.15	0.08	0.09	0.93	0.07	-0.05	-0.12	-0.13	-0.12	
9	0.03	-0.11	0.17	0.09	0.04	0.04	0.95	0.06	-0.04	-0.12	-0.08	-0.12	
10	0.02	-0.12	0.24	0.08	0.02	0.14	0.77	0.06	-0.03	-0.11	-0.08	-0.14	
11	0.01	-0.12	0.32	0.07	0.03	0.04	0.66	0.05	-0.04	-0.13	-0.09	-0.14	
12	-0.01	-0.12	0.21	0.12	0.01	0.20	0.57	0.04	-0.04	-0.12	-0.09	-0.14	
13	-0.01	0.03	0.17	0.16	-0.01	0.19	0.66	0.04	-0.05	-0.12	-0.09	-0.14	
14	-0.02	0.02	0.28	0.18	-0.05	0.12	0.69	0.03	-0.05	-0.12	-0.09	-0.14	
15	-0.03	0.01	0.14	0.00	-0.09	0.07	0.61	-0.03	-0.06	-0.12	-0.12	-0.14	
16	0.03	0.00	0.11	0.00	-0.10	0.44	0.62	-0.05	-0.05	-0.12	-0.12	-0.14	
17	0.04	0.00	0.11	0.01	-0.10	0.43	0.53	-0.06	-0.05	-0.12	-0.12	-0.17	
18	0.05	0.06	0.10	0.03	-0.06	0.29	0.51	-0.07	-0.05	-0.05	-0.13	-0.17	
19	0.04	0.01	0.08	0.03	-0.07	0.22	0.57	-0.03	-0.06	-0.09	-0.13	-0.21	
20	0.02	0.03	0.33	0.02	-0.09	0.18	0.57	-0.05	-0.07	-0.09	-0.13	-0.25	
21	0.14	0.32	0.06	0.00	-0.10	0.12	0.66	-0.06	-0.08	-0.09	-0.14	-0.27	
22	0.14	0.85	0.19	-0.02	-0.10	0.07	0.64	-0.07	-0.08	-0.09	-0.08	-0.26	
23	0.10	0.70	0.15	0.01	-0.10	0.03	0.53	-0.08	-0.10	-0.08	-0.09	-0.26	
24	0.07	0.46	0.15	-0.02	-0.10	0.02	0.44	-0.08	-0.11	-0.11	-0.09	-0.26	
25	0.04	0.39	0.12	-0.05	-0.10	0.00	0.40	-0.09	-0.10	-0.12	-0.10	-0.26	
26	-0.02	0.34	0.11	-0.06	-0.10	-0.01	0.36	-0.10	-0.10	-0.12	-0.10	-0.26	
27	-0.03	0.31	0.12	-0.04	-0.07	-0.02	0.32	-0.10	-0.07	-0.12	-0.09	-0.26	
28	-0.05	0.37	0.15	-0.05	-0.05	0.03	0.30	-0.11	-0.07	-0.13	-0.12	-0.26	
29	-0.07	0.24	0.73	-0.05	-0.06	0.51	0.27	-0.09	-0.11	-0.13		-0.26	
30	-0.09	0.65	0.67	-0.10	-0.08	1.52	0.21	-0.04	-0.11	-0.13		-0.26	
31		0.79		-0.10	-0.10		0.19		-0.11	-0.13		-0.26	
Mean	0.04	0.13	0.25	0.09	-0.01	0.19	0.70	0.01	-0.06	-0.11	-0.11	-0.19	
Max	0.17	0.85	0.73	0.67	0.54	1.52	1.80	0.17	-0.03	-0.05	-0.08	-0.12	1.80
Min	-0.09	-0.13	0.06	-0.10	-0.10	-0.07	0.19	-0.11	-0.11	-0.13	-0.14	-0.27	-0.27

Annual Max Momentary Gage Height 2.01 M (A.D), at 6.00 Hours, on Oct 2, 1994
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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.46	0.20	6.23	7.97	0.24	0.31	25.68	1.46	0.45	0.16	0.14	0.14	
2	1.06	0.18	4.66	5.08	0.20	0.58	34.90	1.38	0.41	0.16	0.14	0.14	
3	0.90	0.16	3.71	3.45	0.41	1.38	20.62	1.30	0.41	0.16	0.16	0.14	
4	0.87	0.16	3.06	2.69	6.08	3.71	14.20	1.14	0.41	0.16	0.16	0.14	
5	0.83	0.14	2.58	2.36	4.24	2.36	12.52	1.06	0.41	0.16	0.16	0.14	
6	0.80	0.14	3.19	1.62	1.70	1.38	20.86	0.98	0.45	0.16	0.16	0.14	
7	0.73	0.14	2.80	1.22	0.87	1.06	16.63	0.87	0.38	0.16	0.14	0.14	
8	0.69	0.14	3.45	1.30	0.83	0.87	12.73	0.80	0.38	0.16	0.14	0.16	
9	0.66	0.18	1.46	0.87	0.69	0.69	13.15	0.76	0.41	0.16	0.27	0.16	
10	0.62	0.16	2.14	0.83	0.62	1.22	9.66	0.76	0.45	0.18	0.27	0.12	
11	0.58	0.16	3.06	0.80	0.66	0.69	7.82	0.73	0.41	0.14	0.24	0.12	
12	0.52	0.16	1.81	1.06	0.58	1.70	6.52	0.69	0.41	0.16	0.24	0.12	
13	0.52	0.66	1.46	1.38	0.52	1.62	7.82	0.69	0.38	0.16	0.24	0.12	
14	0.48	0.62	2.58	1.54	0.38	1.06	8.26	0.66	0.38	0.16	0.24	0.12	
15	0.45	0.58	1.22	0.55	0.24	0.80	7.10	0.45	0.34	0.16	0.16	0.12	
16	0.66	0.55	0.98	0.55	0.20	4.66	7.24	0.38	0.38	0.16	0.16	0.12	
17	0.69	0.55	0.98	0.58	0.20	4.52	5.93	0.34	0.38	0.16	0.16	0.06	
18	0.73	0.76	0.90	0.66	0.34	2.69	5.65	0.31	0.38	0.38	0.14	0.06	
19	0.69	0.58	0.83	0.66	0.31	1.92	6.52	0.45	0.34	0.24	0.14	0.00	
20	0.62	0.66	3.19	0.62	0.24	1.54	6.52	0.38	0.31	0.24	0.14	0.00	
21	1.22	3.06	0.76	0.55	0.20	1.06	7.82	0.34	0.27	0.24	0.12	0.00	
22	1.22	11.15	1.62	0.48	0.20	0.80	7.53	0.31	0.27	0.24	0.27	0.00	
23	0.90	8.40	1.30	0.58	0.20	0.66	5.93	0.27	0.20	0.27	0.24	0.00	
24	0.80	4.94	1.30	0.48	0.20	0.62	4.66	0.27	0.18	0.18	0.24	0.00	
25	0.69	3.97	1.06	0.38	0.20	0.55	4.10	0.24	0.20	0.16	0.20	0.00	
26	0.48	3.32	0.98	0.34	0.20	0.52	3.58	0.20	0.20	0.16	0.20	0.00	
27	0.45	2.93	1.06	0.41	0.31	0.48	3.06	0.20	0.31	0.16	0.24	0.00	
28	0.38	3.71	1.30	0.38	0.38	0.66	2.80	0.18	0.31	0.14	0.16	0.00	
29	0.31	2.14	8.94	0.38	0.34	5.65	2.47	0.24	0.18	0.14		0.00	
30	0.24	7.67	7.97	0.20	0.27	26.76	1.81	0.41	0.18	0.14		0.00	
31		10.02		0.20	0.20		1.62		0.18	0.14		0.00	
Total	21.25	68.19	76.58	40.17	22.25	72.52	295.71	18.25	10.35	5.55	5.27	2.26	638.35 CMSDAY
Mean	0.71	2.20	2.55	1.30	0.72	2.42	9.54	0.61	0.33	0.18	0.19	0.07	1.75 CMS
Max	1.46	11.15	8.94	7.97	6.08	26.76	34.90	1.46	0.45	0.38	0.27	0.16	34.90 CMS
Min	0.24	0.14	0.76	0.20	0.20	0.31	1.62	0.18	0.18	0.14	0.12	0.00	0.00 CMS
Runoff	1.836	5.892	6.617	3.471	1.922	6.266	25.549	1.577	0.894	0.480	0.455	0.195	55.153 MCM

Momentary Peak 41.52 CMS, at 2.01 M (A.D), at 6.00 Hours, on Oct 2, 1994

Runoff Yield 2.88 Liters/Second/Square KM, Momentary Peak Yield 68.40 Liters/Second/Square KM

WATER YEAR 1994

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.

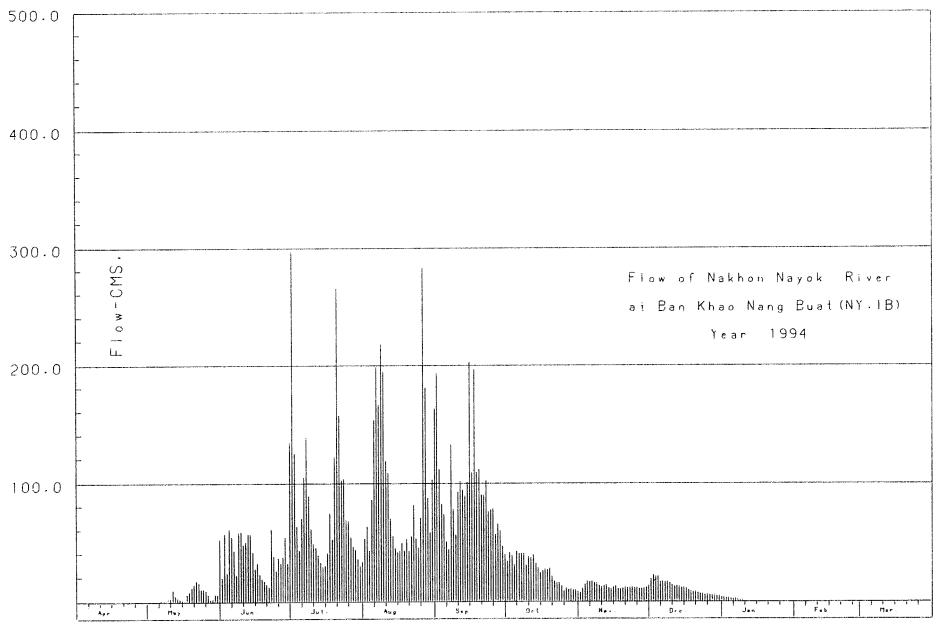
Overbank Flow Conditions — Overbank flow starts at elevation + 8.83 m.(M.S.L.) and is included.

General Description — Records fair. Stage-discharge relation defined by 51 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.49	3.50	4.60	9.60	5.48	8.09	4.99	4.10	4.57	3.81	3.41	3.37	
2	3.50	3.47	5.59	7.00	5.75	6.75	5.17	4.25	4.68	3.80	3.41	3.37	
3	3.48	3.46	4.72	5.74	5.21	6.16	5.11	4.43	4.63	3.78	3.41	3.37	
4	3.47	3.49	5.68	5.23	6.23	5.98	4.90	4.50	4.65	3.75	3.40	3.37	
5	3.45	3.50	5.53	5.91	7.49	5.42	5.20	4.50	4.50	3.71	3.40	3.37	
6	3.45	3.50	5.22	6.61	8.17	5.24	5.16	4.50	4.49	3.68	3.40	3.37	
7	3.45	3.47	4.68	7.24	7.68	7.13	5.16	4.47	4.49	3.64	3.39	3.37	
8	3.44	3.52	5.61	6.30	8.48	6.06	5.15	4.45	4.49	3.61	3.39	3.34	
9	3.43	3.66	5.64	5.70	8.12	5.57	4.90	4.39	4.47	3.58	3.39	3.34	
10	3.42	3.71	5.35	5.37	6.88	6.36	5.08	4.30	4.40	3.56	3.39	3.33	
11	3.41	4.19	5.40	5.29	6.68	6.54	5.06	4.39	4.35	3.54	3.38	3.36	
12	3.40	3.90	5.59	5.11	5.89	6.40	5.13	4.40	4.38	3.52	3.38	3.37	
13	3.40	3.73	5.57	4.96	5.54	6.29	4.94	4.29	4.33	3.50	3.38	3.37	
14	3.39	3.64	5.19	4.85	5.28	6.53	4.83	4.23	4.30	3.46	3.38	3.37	
15	3.39	3.55	4.82	4.89	5.19	8.24	4.72	4.31	4.29	3.44	3.38	3.36	
16	3.40	3.50	4.94	5.16	5.21	6.69	4.78	4.34	4.28	3.42	3.38	3.36	
17	3.40	3.97	4.70	6.01	5.38	8.15	4.80	4.25	4.21	3.42	3.37	3.35	
18	3.40	4.10	4.57	5.48	5.22	6.69	4.80	4.21	4.13	3.42	3.37	3.36	
19	3.41	4.31	4.52	6.94	5.47	6.75	4.82	4.27	4.10	3.42	3.37	3.37	
20	3.41	4.41	4.41	9.17	5.20	6.32	4.64	4.29	4.11	3.42	3.37	3.37	
21	3.42	4.51	4.33	7.55	5.54	6.30	4.52	4.29	4.09	3.42	3.37	3.37	
22	3.42	4.47	5.69	6.57	6.14	6.56	4.48	4.30	4.03	3.42	3.37	3.37	
23	3.42	4.22	5.09	6.58	5.48	6.02	4.46	4.30	3.98	3.42	3.37	3.38	
24	3.47	4.21	4.78	5.87	5.29	6.06	4.38	4.29	3.96	3.41	3.37	3.38	
25	3.44	4.18	5.05	5.85	5.90	6.07	4.14	4.28	3.96	3.41	3.38	3.40	
26	3.43	3.95	4.94	5.53	9.42	5.58	4.26	4.26	3.95	3.41	3.37	3.40	
27	3.43	3.62	5.07	5.31	7.91	5.80	4.22	4.25	3.94	3.41	3.37	3.40	
28	3.51	3.70	5.51	5.23	6.26	5.65	4.22	4.25	3.93	3.41	3.37	3.40	
29	3.49	3.98	4.94	5.04	5.61	5.32	4.20	4.31	3.90	3.41		3.45	
30	3.49	3.92	7.16	4.88	6.56	5.13	4.17	4.37	3.87	3.41		3.44	
31		5.46		4.96	7.64		4.12		3.85	3.41		3.43	
Mean	3.44	3.90	5.16	6.00	6.33	6.33	4.73	4.33	4.24	3.52	3.38	3.38	
Max	3.51	5.46	7.16	9.60	9.42	8.24	5.20	4.50	4.68	3.81	3.41	3.45	9.60
Min	3.39	3.46	4.33	4.85	5.19	5.13	4.12	4.10	3.85	3.41	3.37	3.33	3.33

Annual Max Momentary Gage Height 10.25 M (MSL), at 6.00 Hours, on Jul 1, 1994
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 2.73 M (MSL)
Left Bank Elevation 9.75 M (MSL)
Right Bank Elevation 8.82 M (MSL), Drainage Area 519 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.5	0.5	20.0	297.0	53.1	193.4	34.5	8.0	19.1	3.6	0.1	0.0	
2	0.5	0.4	57.5	126.0	64.0	112.5	41.4	11.0	22.8	3.5	0.1	0.0	
3	0.4	0.3	24.3	63.5	42.9	83.0	39.1	14.9	21.1	3.3	0.1	0.0	
4	0.4	0.5	61.1	43.6	86.5	74.1	31.1	17.0	21.8	3.0	0.0	0.0	
5	0.3	0.5	55.1	70.9	154.3	50.9	42.5	17.0	17.0	2.6	0.0	0.0	
6	0.3	0.5	43.3	105.5	198.6	44.0	41.0	17.0	16.7	2.3	0.0	0.0	
7	0.3	0.4	22.8	139.2	166.7	133.1	41.0	16.1	16.7	1.9	0.0	0.0	
8	0.2	0.7	58.3	90.0	218.7	78.0	40.6	15.5	16.7	1.6	0.0	0.0	
9	0.2	2.1	59.5	61.9	195.3	56.7	31.1	13.8	16.1	1.3	0.0	0.0	
10	0.1	2.6	48.2	49.0	119.4	93.0	37.9	12.0	14.0	1.1	0.0	0.0	
11	0.1	9.8	50.1	45.9	109.0	102.0	37.2	13.8	13.0	0.9	0.0	0.0	
12	0.0	5.0	57.5	39.1	70.0	95.0	39.8	14.0	13.6	0.7	0.0	0.0	
13	0.0	2.8	56.7	33.4	55.5	89.5	32.6	11.8	12.6	0.5	0.0	0.0	
14	0.0	1.9	42.1	29.2	45.5	101.5	28.4	10.6	12.0	0.3	0.0	0.0	
15	0.0	1.0	28.1	30.7	42.1	203.1	24.3	12.2	11.8	0.2	0.0	0.0	
16	0.0	0.5	32.6	41.0	42.9	109.5	26.5	12.8	11.6	0.1	0.0	0.0	
17	0.0	6.1	23.5	75.5	49.3	197.2	27.3	11.0	10.2	0.1	0.0	0.0	
18	0.0	8.0	19.1	53.1	43.3	109.5	27.3	10.2	8.6	0.1	0.0	0.0	
19	0.1	12.2	17.6	122.7	52.8	112.5	28.1	11.4	8.0	0.1	0.0	0.0	
20	0.1	14.3	14.3	265.9	42.5	91.0	21.4	11.8	8.2	0.1	0.0	0.0	
21	0.1	17.3	12.6	158.3	55.5	90.0	17.6	11.8	7.9	0.1	0.0	0.0	
22	0.1	16.1	61.5	103.5	82.0	103.0	16.4	12.0	7.0	0.1	0.0	0.0	
23	0.1	10.4	38.3	104.0	53.1	76.0	15.8	12.0	6.2	0.1	0.0	0.0	
24	0.4	10.2	26.5	69.1	45.9	78.0	13.6	11.8	5.9	0.1	0.0	0.0	
25	0.2	9.6	36.8	68.2	70.5	78.5	8.8	11.6	5.9	0.1	0.0	0.0	
26	0.2	5.8	32.6	55.1	283.5	57.1	11.2	11.2	5.8	0.1	0.0	0.0	
27	0.2	1.7	37.6	46.7	181.6	66.0	10.4	11.0	5.6	0.1	0.0	0.0	
28	0.6	2.5	54.3	43.6	88.0	59.9	10.4	11.0	5.5	0.1	0.0	0.0	
29	0.5	6.2	32.6	36.4	58.3	47.1	10.0	12.2	5.0	0.1		0.3	
30	0.5	5.3	134.8	30.3	103.0	39.8	9.4	13.4	4.5	0.1		0.2	
31		52.4		33.4	164.1		8.4		4.2	0.1		0.2	
Total	6.4	207.6	1259.3	2531.7	3037.9	2824.9	805.1	379.9	355.1	28.4	0.3	0.7	11437.3 CMSDAY
Mean	0.2	6.7	42.0	81.7	98.0	94.2	26.0	12.7	11.5	0.9	0.0	0.0	31.3 CMS
Max	0.6	52.4	134.8	297.0	283.5	203.1	42.5	17.0	22.8	3.6	0.1	0.3	297.0 CMS
Min	0.0	0.3	12.6	29.2	42.1	39.8	8.4	8.0	4.2	0.1	0.0	0.0	0.0 CMS
Runoff	0.55	17.94	108.80	218.74	262.47	244.07	69.56	32.82	30.68	2.45	0.03	0.06	988.18 MCM

Momentary Peak 345.75 CMS, at 10.25 M (MSL), at 6.00 Hours, on Jul 1, 1994

Runoff Yield 60.38 Liters/Second/Square KM, Momentary Peak Yield 666.18 Liters/Second/Square KM

WATER YEAR 1994

NAKHON NAYOK RIVER BASIN

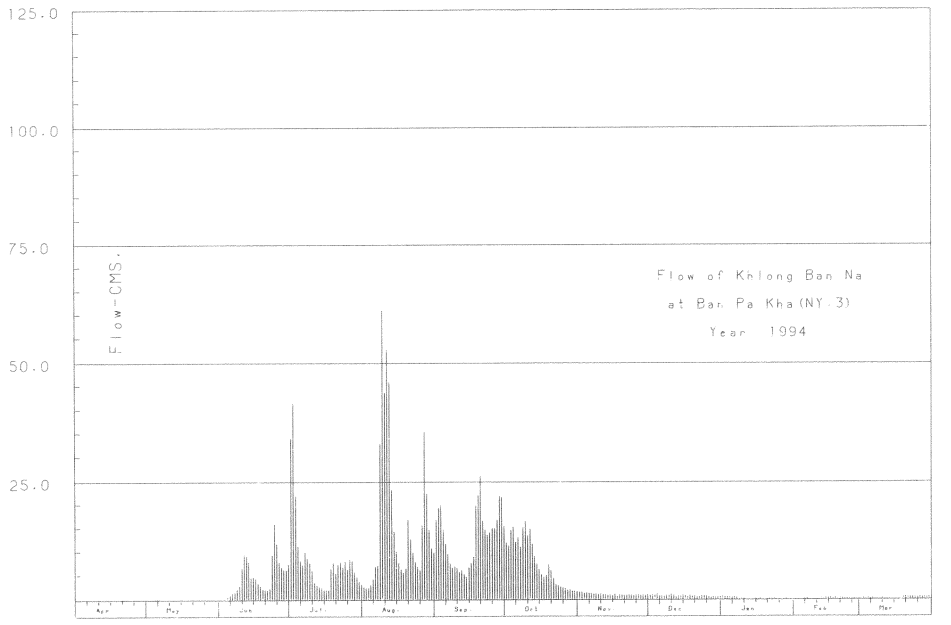
Khlong Ban Na at Ban Pa Kha, Nakhon Nayok (Ny.3)

Location	Lat. 14°17'07" N., Long. 101°04'26" E., on left bank near Wat Ban Pa Kha, Tambon Pa Kha, Amphoe Ban Na, Nakhon Nayok.
Drainage Area	203 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	About 10 meters from the top staff gage.
Elevation	+5.168 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1977 to date.
Rating Operation	
Period of Rating	1977 - 1978, 1980, 1988 to date.
Rated by Float	-
Rated by Current Meter	1977 - 1978, 1980, 1988 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +5.01 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.67	0.54	4.23	1.65	3.21	2.83	1.33	0.96	0.82	0.62	0.70	
2	0.50	0.64	0.62	4.56	1.57	3.40	2.79	1.28	1.01	0.81	0.61	0.70	
3	0.50	0.62	0.73	3.56	1.60	3.43	3.06	1.23	1.03	0.81	0.63	0.69	
4	0.47	0.54	0.85	2.76	1.74	3.07	3.11	1.23	1.08	0.82	0.61	0.68	
5	0.45	0.50	1.03	2.46	1.97	2.82	2.85	1.21	0.93	0.81	0.60	0.67	
6	0.42	0.48	1.18	2.33	2.30	2.60	2.92	1.18	0.88	0.77	0.59	0.63	
7	0.40	0.47	1.33	2.65	2.31	2.38	2.76	1.15	0.89	0.72	0.59	0.62	
8	0.38	0.50	1.49	2.51	4.17	2.26	3.10	1.13	0.96	0.67	0.59	0.61	
9	0.34	0.50	1.71	2.40	5.32	2.30	3.20	1.13	1.01	0.67	0.60	0.64	
10	0.34	0.50	2.26	2.18	4.66	2.25	2.96	1.14	1.06	0.67	0.63	0.68	
11	0.32	0.50	2.59	1.86	5.03	2.16	3.09	1.08	0.99	0.66	0.67	0.67	
12	0.29	0.49	2.57	1.72	4.75	2.19	2.82	1.03	0.84	0.65	0.69	0.63	
13	0.29	0.47	2.42	1.65	3.64	2.10	2.55	1.01	0.88	0.65	0.71	0.61	
14	0.30	0.47	2.00	1.58	3.04	2.02	2.37	1.00	0.90	0.65	0.70	0.58	
15	0.30	0.47	2.02	1.50	2.65	2.27	2.21	1.00	0.98	0.66	0.72	0.61	
16	0.30	0.47	1.97	1.47	2.39	2.38	2.09	1.07	0.96	0.65	0.72	0.65	
17	0.30	0.47	1.85	1.49	2.23	2.55	2.01	0.91	0.88	0.65	0.73	0.66	
18	0.30	0.47	1.67	2.23	2.13	3.43	2.07	1.02	0.95	0.66	0.73	0.69	
19	0.30	0.51	1.54	2.40	2.25	3.57	2.34	1.04	0.90	0.65	0.74	0.83	
20	0.30	0.52	1.47	2.13	3.22	3.81	2.19	0.97	0.89	0.64	0.75	0.83	
21	0.32	0.52	1.44	2.34	2.90	3.21	1.99	1.02	0.82	0.62	0.74	0.82	
22	0.35	0.49	1.59	2.41	2.63	3.07	1.79	1.03	0.84	0.64	0.70	0.82	
23	0.35	0.49	2.59	2.27	2.42	2.97	1.71	1.01	0.87	0.64	0.72	0.81	
24	0.37	0.47	3.16	2.43	2.29	3.01	1.65	0.98	0.97	0.63	0.59	0.79	
25	0.39	0.47	2.81	2.23	2.20	3.10	1.59	1.00	0.85	0.61	0.68	0.79	
26	0.39	0.46	2.41	2.47	3.13	3.10	1.54	1.00	0.81	0.61	0.65	0.81	
27	0.39	0.46	2.28	2.45	4.29	3.22	1.49	1.00	0.77	0.61	0.66	0.81	
28	0.39	0.46	2.20	2.15	3.59	3.56	1.47	1.00	0.79	0.65	0.70	0.79	
29	0.39	0.46	2.21	2.03	3.06	3.54	1.41	1.01	0.79	0.65		0.80	
30	0.64	0.46	2.35	1.89	2.73	3.12	1.37	1.01	0.79	0.62		0.81	
31		0.46		1.77	2.63		1.35		0.83	0.62		0.81	
Mean	0.38	0.50	1.83	2.33	2.92	2.87	2.28	1.07	0.91	0.68	0.67	0.72	
Max	0.64	0.67	3.16	4.56	5.32	3.81	3.20	1.33	1.08	0.82	0.75	0.83	5.32
Min	0.29	0.46	0.54	1.47	1.57	2.02	1.35	0.91	0.77	0.61	0.59	0.58	0.29

Annual Max Momentary Gage Height 5.45 M (A.D), at 18.00 Hours, on Aug 11, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.39 M (A.D)
Left Bank Elevation 5.01 M (A.D)
Right Bank Elevation 5.00 M (A.D), Drainage Area 203 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.27	0.14	34.20	2.70	16.74	11.96	1.59	0.82	0.54	0.22	0.30	
2	0.10	0.24	0.22	41.44	2.38	19.40	11.50	1.46	0.92	0.52	0.21	0.30	
3	0.10	0.22	0.36	21.96	2.50	19.88	14.72	1.36	0.96	0.52	0.23	0.29	
4	0.07	0.14	0.60	11.20	3.06	14.84	15.34	1.36	1.06	0.54	0.21	0.28	
5	0.05	0.10	0.96	8.28	4.36	11.84	12.20	1.32	0.76	0.52	0.20	0.27	
6	0.02	0.08	1.26	7.24	7.00	9.60	13.04	1.26	0.66	0.44	0.19	0.23	
7	0.00	0.07	1.59	10.10	7.08	7.64	11.20	1.20	0.68	0.34	0.19	0.22	
8	0.00	0.10	2.07	8.70	33.00	6.68	15.20	1.16	0.82	0.27	0.19	0.21	
9	0.00	0.10	2.94	7.80	61.20	7.00	16.60	1.16	0.92	0.27	0.20	0.24	
10	0.00	0.10	6.68	6.04	43.84	6.60	13.52	1.18	1.02	0.27	0.23	0.28	
11	0.00	0.10	9.50	3.60	52.78	5.88	15.08	1.06	0.88	0.26	0.27	0.27	
12	0.00	0.09	9.30	2.98	46.00	6.12	11.84	0.96	0.58	0.25	0.29	0.23	
13	0.00	0.07	7.96	2.70	23.24	5.40	9.10	0.92	0.66	0.25	0.32	0.21	
14	0.00	0.07	4.60	2.42	14.48	4.76	7.56	0.90	0.70	0.25	0.30	0.18	
15	0.00	0.07	4.76	2.10	10.10	6.76	6.28	0.90	0.86	0.26	0.34	0.21	
16	0.00	0.07	4.36	2.01	7.72	7.64	5.32	1.04	0.82	0.25	0.34	0.25	
17	0.00	0.07	3.55	2.07	6.44	9.10	4.68	0.72	0.66	0.25	0.36	0.26	
18	0.00	0.07	2.78	6.44	5.64	19.88	5.16	0.94	0.80	0.26	0.36	0.29	
19	0.00	0.11	2.26	7.80	6.60	22.12	7.32	0.98	0.70	0.25	0.38	0.56	
20	0.00	0.12	2.01	5.64	16.88	26.18	6.12	0.84	0.68	0.24	0.40	0.56	
21	0.00	0.12	1.92	7.32	12.80	16.74	4.52	0.94	0.54	0.22	0.38	0.54	
22	0.00	0.09	2.46	7.88	9.90	14.84	3.26	0.96	0.58	0.24	0.30	0.54	
23	0.00	0.09	9.50	6.76	7.96	13.64	2.94	0.92	0.64	0.24	0.34	0.52	
24	0.00	0.07	16.04	8.04	6.92	14.12	2.70	0.86	0.84	0.23	0.19	0.48	
25	0.00	0.07	11.72	6.44	6.20	15.20	2.46	0.90	0.60	0.21	0.28	0.48	
26	0.00	0.06	7.88	8.36	15.62	15.20	2.26	0.90	0.52	0.21	0.25	0.52	
27	0.00	0.06	6.84	8.20	35.40	16.88	2.07	0.90	0.44	0.21	0.26	0.52	
28	0.00	0.06	6.20	5.80	22.44	21.96	2.01	0.90	0.48	0.25	0.30	0.48	
29	0.00	0.06	6.28	4.84	14.72	21.64	1.83	0.92	0.48	0.25		0.50	
30	0.24	0.06	7.40	3.75	10.90	15.48	1.71	0.92	0.48	0.22		0.52	
31		0.06		3.18	9.90		1.65		0.56	0.22		0.52	
Total	0.68	3.06	144.14	265.29	509.76	399.76	241.15	31.43	22.12	9.25	7.73	11.26	1645.63 CMSDAY
Mean	0.02	0.10	4.80	8.56	16.44	13.33	7.78	1.05	0.71	0.30	0.28	0.36	4.51 CMS
Max	0.24	0.27	16.04	41.44	61.20	26.18	16.60	1.59	1.06	0.54	0.40	0.56	61.20 CMS
Min	0.00	0.06	0.14	2.01	2.38	4.76	1.65	0.72	0.44	0.21	0.19	0.18	0.00 CMS
Runoff	0.059	0.264	12.454	22.921	44.043	34.539	20.835	2.716	1.911	0.799	0.668	0.973	142.182 MCM

Momentary Peak 65.10 CMS, at 5.45 M (A.D), at 18.00 Hours, on Aug 11, 1994

Runoff Yield 22.21 Liters/Second/Square KM, Momentary Peak Yield 320.69 Liters/Second/Square KM

WATER YEAR 1994

NAKHON NAYOK RIVER BASIN

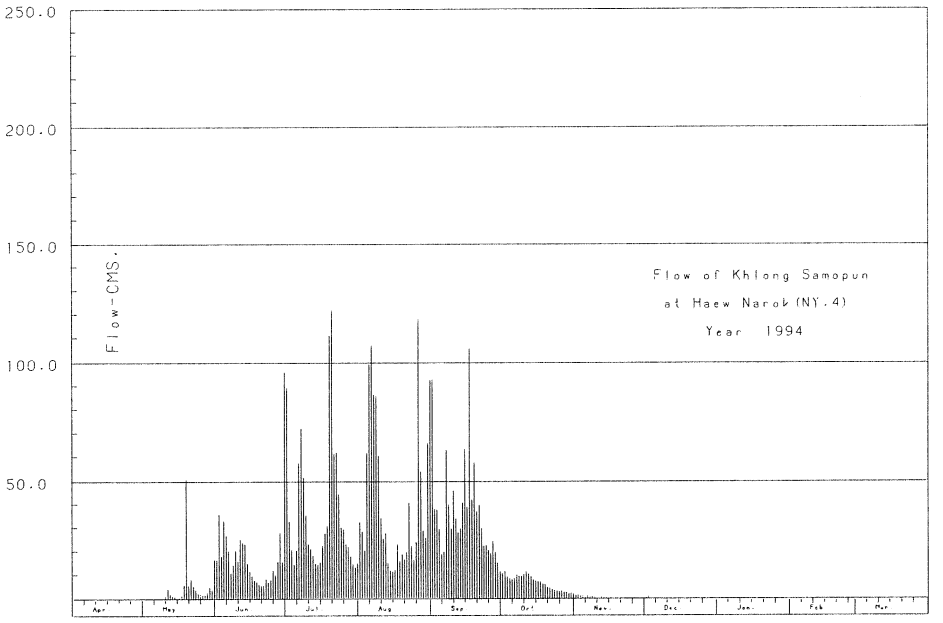
Khlong Samo Pun at Haew Narok, Prachin Buri (Ny.4)

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 66 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.43	376.37	377.37	378.56	377.73	378.60	377.22	376.76	376.65	376.46	376.41	376.31	
2	376.41	376.37	377.80	377.74	377.65	377.84	377.25	376.75	376.68	376.46	376.40	376.31	
3	376.40	376.37	377.42	377.48	377.48	377.84	377.17	376.74	376.64	376.45	376.40	376.30	
4	376.39	376.42	377.74	377.33	378.19	377.67	377.15	376.72	376.58	376.44	376.40	376.30	
5	376.39	376.41	377.62	377.48	378.66	377.44	377.13	376.72	376.60	376.43	376.39	376.30	
6	376.39	376.41	377.47	378.10	378.73	377.46	377.14	376.71	376.60	376.42	376.39	376.29	
7	376.38	376.41	377.23	378.37	378.53	378.22	377.21	376.70	376.59	376.42	376.38	376.29	
8	376.38	376.52	377.32	377.99	378.52	377.88	377.18	376.68	376.59	376.42	376.38	376.28	
9	376.37	376.61	377.48	377.79	378.17	377.68	377.19	376.67	376.58	376.42	376.37	376.28	
10	376.36	376.67	377.36	377.54	377.77	377.94	377.21	376.66	376.58	376.42	376.37	376.28	
11	376.36	376.95	377.58	377.49	377.59	377.76	377.24	376.65	376.57	376.42	376.37	376.27	
12	376.36	376.80	377.55	377.42	377.64	377.64	377.22	376.64	376.56	376.42	376.37	376.27	
13	376.36	376.70	377.54	377.34	377.34	377.68	377.18	376.64	376.55	376.42	376.36	376.26	
14	376.36	376.66	377.34	377.32	377.26	377.90	377.12	376.62	376.54	376.42	376.36	376.26	
15	376.36	376.62	377.25	377.35	377.25	378.23	377.10	376.61	376.54	376.42	376.36	376.25	
16	376.37	376.59	377.18	377.52	377.26	377.86	377.10	376.60	376.54	376.42	376.36	376.24	
17	376.37	376.74	377.12	377.64	377.54	378.72	377.09	376.60	376.53	376.41	376.35	376.23	
18	376.37	377.04	377.08	377.70	377.36	377.91	377.06	376.60	376.52	376.40	376.35	376.23	
19	376.36	377.98	377.05	378.77	377.44	378.10	377.04	376.60	376.50	376.40	376.34	376.25	
20	376.36	377.02	377.02	378.86	377.38	377.82	377.00	376.60	376.50	376.40	376.34	376.25	
21	376.36	377.14	377.02	378.18	377.46	377.88	376.97	376.59	376.50	376.40	376.33	376.25	
22	376.36	377.02	377.14	378.20	377.90	377.68	376.94	376.58	376.50	376.40	376.33	376.25	
23	376.36	376.91	377.08	377.93	377.52	377.52	376.90	376.58	376.49	376.40	376.33	376.25	
24	376.35	376.82	377.13	377.69	377.38	377.53	376.90	376.56	376.47	376.40	376.33	376.24	
25	376.35	376.77	377.26	377.67	377.56	377.48	376.88	376.56	376.46	376.39	376.32	376.24	
26	376.35	376.74	377.20	377.54	378.83	377.44	376.88	376.56	376.46	376.39	376.32	376.23	
27	376.35	376.77	377.36	377.51	378.03	377.56	376.86	376.55	376.46	376.39	376.32	376.21	
28	376.38	376.83	377.64	377.42	377.66	377.46	376.84	376.53	376.46	376.38	376.31	376.21	
29	376.37	377.00	377.35	377.33	377.60	377.34	376.82	376.56	376.46	376.42		376.31	
30	376.37	376.91	378.63	377.30	378.28	377.25	376.82	376.61	376.46	376.41		376.35	
31		377.38		377.34	378.60		376.80		376.46	376.41		376.34	
Mean	376.37	376.77	377.38	377.74	377.82	377.78	377.05	376.63	376.54	376.41	376.36	376.27	
Max	376.43	377.98	378.63	378.86	378.83	378.72	377.25	376.76	376.68	376.46	376.41	376.35	378.86
Min	376.35	376.37	377.02	377.30	377.25	377.25	376.80	376.53	376.46	376.38	376.31	376.21	376.21

Annual Max Momentary Gage Height 380.35 M (MSL), at 19.00 Hours, on Jul 19, 1994
Zero Gage at Bottom Elevation 376.10 M (MSL), River Bed 375.62 M (MSL)
Left Bank Elevation 381.51 M (MSL)
Right Bank Elevation 384.18 M (MSL), Drainage Area 128 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.07	16.30	89.40	32.50	93.00	10.70	1.60	0.75	0.16	0.11	0.01	
2	0.11	0.07	36.00	33.00	28.50	38.00	11.75	1.50	0.90	0.16	0.10	0.01	
3	0.10	0.07	18.30	20.70	20.70	38.00	9.25	1.40	0.70	0.15	0.10	0.00	
4	0.09	0.12	33.00	14.70	61.87	29.50	8.75	1.20	0.44	0.14	0.10	0.00	
5	0.09	0.11	27.00	20.70	99.60	19.10	8.25	1.20	0.50	0.13	0.09	0.00	
6	0.09	0.11	20.30	57.67	107.30	19.90	8.50	1.10	0.50	0.12	0.09	0.00	
7	0.08	0.11	11.05	72.60	86.70	63.27	10.35	1.00	0.47	0.12	0.08	0.00	
8	0.08	0.26	14.30	51.80	85.80	40.00	9.50	0.90	0.47	0.12	0.08	0.00	
9	0.07	0.55	20.70	35.50	60.93	30.00	9.75	0.85	0.44	0.12	0.07	0.00	
10	0.06	0.85	15.90	23.30	34.50	45.80	10.35	0.80	0.44	0.12	0.07	0.00	
11	0.06	4.25	25.10	21.10	25.55	34.00	11.40	0.75	0.41	0.12	0.07	0.00	
12	0.06	2.00	23.75	18.30	28.00	28.00	10.70	0.70	0.38	0.12	0.07	0.00	
13	0.06	1.00	23.30	15.10	15.10	30.00	9.50	0.70	0.35	0.12	0.06	0.00	
14	0.06	0.80	15.10	14.30	12.10	41.00	8.00	0.60	0.32	0.12	0.06	0.00	
15	0.06	0.60	11.75	15.50	11.75	63.73	7.50	0.55	0.32	0.12	0.06	0.00	
16	0.07	0.47	9.50	22.40	12.10	39.00	7.50	0.50	0.32	0.12	0.06	0.00	
17	0.07	1.40	8.00	28.00	23.30	106.20	7.25	0.50	0.29	0.11	0.05	0.00	
18	0.07	6.00	7.00	31.00	15.90	42.20	6.50	0.50	0.26	0.10	0.05	0.00	
19	0.06	50.60	6.25	111.70	19.10	57.67	6.00	0.50	0.20	0.10	0.04	0.00	
20	0.06	5.50	5.50	122.20	16.70	37.00	5.00	0.50	0.20	0.10	0.04	0.00	
21	0.06	8.50	5.50	61.40	19.90	40.00	4.55	0.47	0.20	0.10	0.03	0.00	
22	0.06	5.50	8.50	62.33	41.00	30.00	4.10	0.44	0.20	0.10	0.03	0.00	
23	0.06	3.65	7.00	44.60	22.40	22.40	3.50	0.44	0.19	0.10	0.03	0.00	
24	0.05	2.30	8.25	30.50	16.70	22.85	3.50	0.38	0.17	0.10	0.03	0.00	
25	0.05	1.70	12.10	29.50	24.20	20.70	3.20	0.38	0.16	0.09	0.02	0.00	
26	0.05	1.40	10.00	23.30	118.60	19.10	3.20	0.38	0.16	0.09	0.02	0.00	
27	0.05	1.70	15.90	21.95	54.40	24.20	2.90	0.35	0.16	0.09	0.02	0.00	
28	0.08	2.45	28.00	18.30	29.00	19.90	2.60	0.29	0.16	0.08	0.01	0.00	
29	0.07	5.00	15.50	14.70	26.00	15.10	2.30	0.38	0.16	0.12		0.01	
30	0.07	3.65	96.30	13.50	66.07	11.75	2.30	0.55	0.16	0.11		0.05	
31		16.70		15.10	93.00		2.00		0.16	0.11		0.04	
Total	2.13	127.49	555.15	1154.15	1309.27	1121.37	210.65	21.41	10.54	3.56	1.64	0.12	4517.48 CMSDAY
Mean	0.07	4.11	18.51	37.23	42.23	37.38	6.80	0.71	0.34	0.11	0.06	0.00	12.38 CMS
Max	0.13	50.60	96.30	122.20	118.60	106.20	11.75	1.60	0.90	0.16	0.11	0.05	122.20 CMS
Min	0.05	0.07	5.50	13.50	11.75	11.75	2.00	0.29	0.16	0.08	0.01	0.00	0.00 CMS
Runoff	0.184	11.015	47.965	99.719	113.121	96.886	18.200	1.850	0.911	0.308	0.142	0.010	390.310 MCM

Momentary Peak 389.50 CMS, at 380.35 M (MSL), at 19.00 Hours, on Jul 19, 1994

Runoff Yield 96.69 Liters/Second/Square KM, Momentary Peak Yield 3042.97 Liters/Second/Square KM

WATER YEAR 1994

NAKHON NAYOK RIVER BASIN

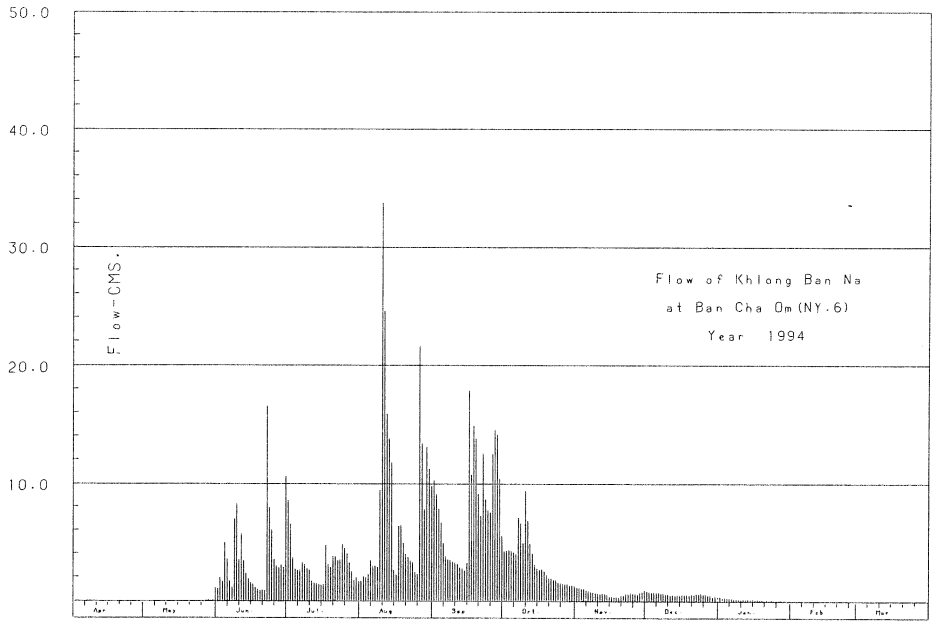
Khlong Ban Na at Ban Cha Om, Saraburi (Ny.6)

Location	Lat. 14°-24'-34" N., Long. 101°-07'-30" E., on right bank at the bridge of Ban Cha Om-Ban Kariang Kho Ma road, Tambon Cha Om, Amphoe Kaeng Khoi, Saraburi.
Drainage Area	116 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 50 meters from the top staff gage.
Elevation	+4.405 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00, and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1988 to date.
Rating Operation	
Period of Rating	1988 to date.
Rated by Float	-
Rated by Current Meter	1988 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 1.46 m.(A.D.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 50 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.68	1.47	0.80	1.58	1.13	0.70	0.63	0.49	0.20	0.09	
2	0.00	0.00	0.85	1.33	0.87	1.51	1.13	0.69	0.60	0.48	0.20	0.09	
3	0.00	0.00	0.80	1.07	0.85	1.42	1.14	0.68	0.60	0.46	0.20	0.09	
4	0.00	0.00	1.20	0.97	0.90	1.34	1.13	0.67	0.60	0.45	0.19	0.09	
5	0.00	0.00	1.06	0.95	1.05	1.20	1.12	0.65	0.60	0.44	0.19	0.09	
6	0.00	0.00	0.80	0.95	1.00	1.08	1.10	0.62	0.59	0.44	0.18	0.10	
7	0.00	0.00	0.70	1.03	1.00	1.06	1.37	0.61	0.58	0.40	0.18	0.10	
8	0.00	0.00	1.36	1.01	0.99	1.05	1.33	0.59	0.57	0.42	0.17	0.10	
9	0.00	0.01	1.45	0.97	1.53	1.04	1.20	0.59	0.56	0.40	0.15	0.10	
10	0.00	0.08	1.05	0.95	2.60	1.03	1.53	0.57	0.55	0.39	0.11	0.10	
11	0.00	0.05	1.26	0.80	2.27	1.02	1.35	0.57	0.54	0.39	0.10	0.10	
12	0.00	0.02	1.05	0.78	1.89	0.98	1.19	0.57	0.54	0.39	0.09	0.10	
13	0.00	0.01	0.91	0.76	1.78	0.97	1.11	0.57	0.53	0.39	0.09	0.10	
14	0.00	0.01	0.84	0.75	1.67	0.95	1.01	0.54	0.54	0.39	0.09	0.10	
15	0.00	0.00	0.78	0.74	0.95	1.03	0.97	0.51	0.54	0.35	0.09	0.10	
16	0.00	0.00	0.75	0.74	0.90	1.98	0.96	0.50	0.54	0.33	0.10	0.09	
17	0.00	0.00	0.70	1.18	1.32	1.61	0.96	0.50	0.55	0.33	0.10	0.09	
18	0.00	0.07	0.65	1.01	1.32	1.84	0.94	0.49	0.54	0.32	0.10	0.09	
19	0.00	0.10	0.63	0.99	1.20	1.78	0.89	0.48	0.54	0.30	0.10	0.10	
20	0.03	0.09	0.63	1.08	1.10	1.51	0.85	0.52	0.55	0.29	0.09	0.11	
21	0.03	0.07	0.63	1.08	1.08	1.38	0.84	0.53	0.55	0.28	0.09	0.11	
22	0.02	0.05	1.92	1.05	1.05	1.71	0.83	0.56	0.56	0.28	0.09	0.11	
23	0.01	0.05	1.43	1.05	1.03	1.48	0.82	0.57	0.57	0.25	0.09	0.12	
24	0.03	0.04	1.29	1.19	0.93	1.41	0.79	0.58	0.57	0.25	0.09	0.13	
25	0.00	0.04	1.06	1.15	0.90	1.40	0.78	0.58	0.56	0.20	0.09	0.13	
26	0.00	0.04	1.00	1.11	2.15	1.71	0.76	0.56	0.55	0.20	0.09	0.13	
27	0.00	0.25	0.98	1.03	1.76	1.82	0.76	0.56	0.54	0.20	0.09	0.13	
28	0.00	0.23	1.01	0.93	1.42	1.80	0.75	0.58	0.53	0.20	0.09	0.12	
29	0.00	0.22	0.99	0.82	1.74	1.59	0.74	0.61	0.50	0.21		0.10	
30	0.00	0.21	1.60	0.85	1.64	1.25	0.73	0.64	0.51	0.20		0.10	
31		0.69		0.80	1.55		0.72		0.50	0.20		0.10	
Mean	0.00	0.08	1.00	0.99	1.33	1.38	1.00	0.58	0.56	0.33	0.12	0.10	
Max	0.03	0.69	1.92	1.47	2.60	1.98	1.53	0.70	0.63	0.49	0.20	0.13	2.60
Min	0.00	0.00	0.63	0.74	0.80	0.95	0.72	0.48	0.50	0.20	0.09	0.09	0.00

Annual Max Momentary Gage Height 2.64 M (A.D), at 18.00 Hours, on Aug 9, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.03 M (A.D)
Left Bank Elevation 3.71 M (A.D)
Right Bank Elevation 1.45 M (A.D), Drainage Area 116 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.12	8.58	1.70	10.28	4.30	1.20	0.92	0.38	0.10	0.05	
2	0.00	0.00	2.00	6.62	2.12	9.16	4.30	1.16	0.80	0.36	0.10	0.05	
3	0.00	0.00	1.70	3.70	2.00	7.88	4.40	1.12	0.80	0.32	0.10	0.05	
4	0.00	0.00	5.00	2.79	2.30	6.76	4.30	1.08	0.80	0.30	0.10	0.05	
5	0.00	0.00	3.60	2.65	3.50	5.00	4.20	1.00	0.80	0.28	0.10	0.05	
6	0.00	0.00	1.70	2.65	3.00	3.80	4.00	0.88	0.76	0.28	0.09	0.05	
7	0.00	0.00	1.20	3.30	3.00	3.60	7.18	0.84	0.72	0.20	0.09	0.05	
8	0.00	0.00	7.04	3.10	2.93	3.50	6.62	0.76	0.68	0.24	0.09	0.05	
9	0.00	0.01	8.30	2.79	9.48	3.40	5.00	0.76	0.64	0.20	0.08	0.05	
10	0.00	0.04	3.50	2.65	33.80	3.30	9.48	0.68	0.60	0.19	0.06	0.05	
11	0.00	0.03	5.72	1.70	24.62	3.20	6.90	0.68	0.56	0.19	0.05	0.05	
12	0.00	0.01	3.50	1.60	16.00	2.86	4.90	0.68	0.56	0.19	0.05	0.05	
13	0.00	0.01	2.37	1.50	13.84	2.79	4.10	0.68	0.52	0.19	0.05	0.05	
14	0.00	0.01	1.94	1.45	11.86	2.65	3.10	0.56	0.56	0.19	0.05	0.05	
15	0.00	0.00	1.60	1.40	2.65	3.30	2.79	0.44	0.56	0.18	0.05	0.05	
16	0.00	0.00	1.45	1.40	2.30	17.96	2.72	0.40	0.56	0.17	0.05	0.05	
17	0.00	0.00	1.20	4.80	6.48	10.78	2.72	0.40	0.60	0.17	0.05	0.05	
18	0.00	0.04	1.00	3.10	6.48	15.00	2.58	0.38	0.56	0.16	0.05	0.05	
19	0.00	0.05	0.92	2.93	5.00	13.84	2.24	0.36	0.56	0.15	0.05	0.05	
20	0.02	0.05	0.92	3.80	4.00	9.16	2.00	0.48	0.60	0.14	0.05	0.06	
21	0.02	0.04	0.92	3.80	3.80	7.32	1.94	0.52	0.60	0.14	0.05	0.06	
22	0.01	0.03	16.64	3.50	3.50	12.58	1.88	0.64	0.64	0.14	0.05	0.06	
23	0.01	0.03	8.02	3.50	3.30	8.72	1.82	0.68	0.68	0.13	0.05	0.06	
24	0.02	0.02	6.08	4.90	2.51	7.74	1.65	0.72	0.68	0.13	0.05	0.07	
25	0.00	0.02	3.60	4.50	2.30	7.60	1.60	0.72	0.64	0.10	0.05	0.07	
26	0.00	0.02	3.00	4.10	21.70	12.58	1.50	0.64	0.60	0.10	0.05	0.07	
27	0.00	0.13	2.86	3.30	13.48	14.60	1.50	0.64	0.56	0.10	0.05	0.07	
28	0.00	0.12	3.10	2.51	7.88	14.20	1.45	0.72	0.52	0.10	0.05	0.06	
29	0.00	0.11	2.93	1.82	13.12	10.44	1.40	0.84	0.40	0.11		0.05	
30	0.00	0.11	10.60	2.00	11.32	5.60	1.35	0.96	0.44	0.10		0.05	
31		1.16		1.70	9.80		1.30		0.40	0.10		0.05	
Total	0.08	2.04	113.53	98.14	249.77	239.60	105.22	21.62	19.32	5.73	1.81	1.68	858.54 CMSDAY
Mean	0.00	0.07	3.78	3.17	8.06	7.99	3.39	0.72	0.62	0.18	0.06	0.05	2.35 CMS
Max	0.02	1.16	16.64	8.58	33.80	17.96	9.48	1.20	0.92	0.38	0.10	0.07	33.80 CMS
Min	0.00	0.00	0.92	1.40	1.70	2.65	1.30	0.36	0.40	0.10	0.05	0.05	0.00 CMS
Runoff	0.007	0.176	9.809	8.479	21.580	20.701	9.091	1.868	1.669	0.495	0.156	0.145	74.178 MCM

Momentary Peak 35.08 CMS, at 2.64 M (A.D), at 18.00 Hours, on Aug 9, 1994

Runoff Yield 20.28 Liters/Second/Square KM, Momentary Peak Yield 302.41 Liters/Second/Square KM

WATER YEAR 1994

LOPBURI RIVER BASIN

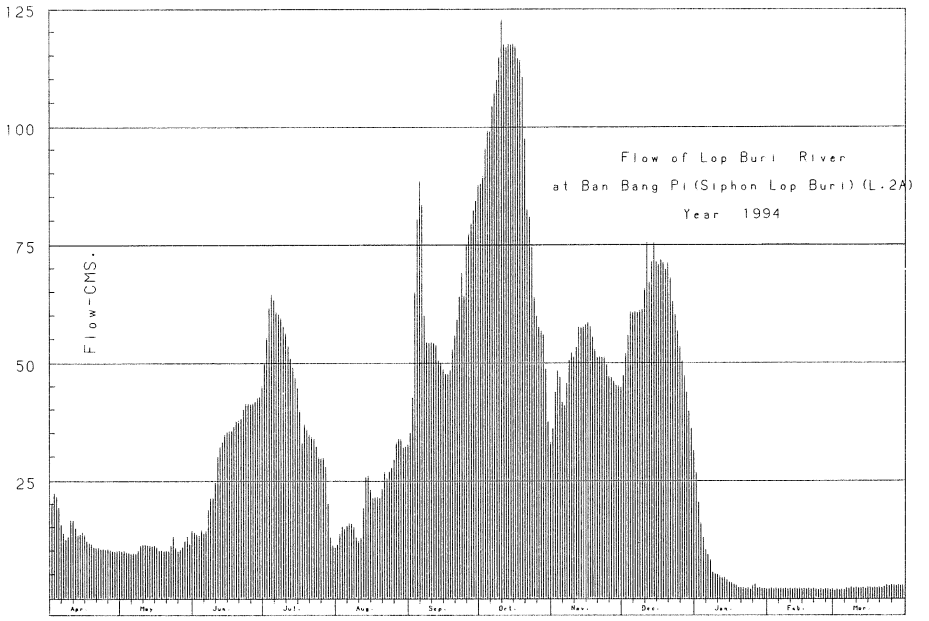
Lop Buri River at Siphon Lop Buri, Lop Buri (L.2A)

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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1962-1986, 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 16 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.91	3.10	3.50	5.16	3.25	4.63	6.15	4.67	5.07	4.24	1.81	1.72	
2	4.03	3.10	3.46	5.33	3.47	4.91	6.18	4.95	5.22	3.93	1.81	1.75	
3	4.00	3.08	3.45	5.53	3.61	5.62	6.30	5.10	5.35	3.65	1.81	1.75	
4	3.85	3.04	3.55	5.61	3.56	5.99	6.37	5.06	5.50	3.41	1.81	1.75	
5	3.63	3.04	3.49	5.58	3.62	6.16	6.37	4.87	5.50	3.15	1.81	1.77	
6	3.50	3.04	3.53	5.50	3.65	6.05	6.47	4.85	5.50	3.01	1.81	1.83	
7	3.37	3.04	3.83	5.49	3.65	5.48	6.52	5.01	5.50	2.89	1.81	1.83	
8	3.41	3.10	3.97	5.46	3.60	5.30	6.57	5.18	5.51	2.53	1.80	1.86	
9	3.70	3.25	3.98	5.41	3.41	5.30	6.65	5.23	5.52	2.50	1.80	1.85	
10	3.69	3.25	4.14	5.36	3.33	5.30	6.79	5.20	5.64	2.45	1.80	1.85	
11	3.59	3.26	4.41	5.28	3.39	5.30	6.70	5.27	5.88	2.38	1.80	1.85	
12	3.46	3.25	4.50	5.19	3.85	5.28	6.69	5.40	5.68	2.35	1.80	1.85	
13	3.46	3.23	4.55	5.13	4.20	5.18	6.70	5.40	5.79	2.32	1.80	1.84	
14	3.52	3.23	4.61	5.05	4.21	5.15	6.70	5.40	5.88	2.26	1.80	1.83	
15	3.45	3.23	4.64	4.98	4.07	5.11	6.70	5.42	5.79	2.16	1.80	1.86	
16	3.32	3.19	4.64	4.81	3.98	5.08	6.69	5.43	5.77	2.09	1.80	1.86	
17	3.30	3.12	4.65	4.54	3.98	5.08	6.65	5.41	5.80	2.05	1.80	1.86	
18	3.26	3.11	4.68	4.70	3.98	5.11	6.64	5.34	5.78	1.96	1.80	1.86	
19	3.21	3.11	4.73	4.66	3.98	5.25	6.58	5.25	5.75	1.88	1.80	1.86	
20	3.20	3.11	4.73	4.61	4.07	5.35	6.34	5.20	5.78	1.83	1.80	1.86	
21	3.18	3.11	4.75	4.59	4.25	5.45	6.03	5.20	5.70	1.83	1.79	1.87	
22	3.16	3.24	4.82	4.58	4.19	5.60	6.00	5.20	5.57	1.83	1.78	1.93	
23	3.15	3.41	4.86	4.51	4.26	5.73	5.86	5.20	5.48	1.83	1.78	1.97	
24	3.15	3.18	4.86	4.40	4.29	5.60	5.59	5.15	5.38	1.80	1.77	1.98	
25	3.15	3.11	4.86	4.40	4.38	5.87	5.48	5.06	5.27	1.95	1.77	1.98	
26	3.12	3.13	4.86	4.39	4.54	5.92	5.40	5.05	5.17	2.05	1.77	1.98	
27	3.11	3.21	4.88	4.31	4.58	5.97	5.38	5.03	5.07	1.85	1.77	1.98	
28	3.10	3.32	4.91	3.91	4.57	6.03	5.35	5.00	4.95	1.85	1.77	1.98	
29	3.10	3.43	4.91	3.41	4.50	6.07	5.12	4.99	4.80	1.83		1.98	
30	3.10	3.27	4.99	3.23	4.50	6.14	4.72	4.98	4.67	1.79		1.96	
31		3.53		3.20	4.52		4.54		4.46	1.76		1.96	
Mean	3.41	3.19	4.39	4.78	3.98	5.50	6.14	5.15	5.44	2.37	1.80	1.87	
Max	4.03	3.53	4.99	5.61	4.58	6.16	6.79	5.43	5.88	4.24	1.81	1.98	6.79
Min	3.10	3.04	3.45	3.20	3.25	4.63	4.54	4.67	4.46	1.76	1.77	1.72	1.72

Annual Max Momentary Gage Height 6.83 M (MSL), at 6.00 Hours, on Oct 10, 1994
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 0.82 M (MSL)
Left Bank Elevation 11.70 M (MSL)
Right Bank Elevation 9.02 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.30	10.07	14.00	50.12	11.40	35.25	88.10	36.25	47.47	26.67	2.18	1.81	
2	22.40	10.07	13.58	55.36	13.69	42.79	89.54	43.95	51.92	20.63	2.18	1.94	
3	21.80	9.91	13.48	61.82	15.36	64.96	95.50	48.35	56.00	16.00	2.18	1.94	
4	19.30	9.58	14.60	64.58	14.72	80.64	99.14	47.17	60.80	13.06	2.18	1.94	
5	15.68	9.58	13.90	63.52	15.52	88.58	99.14	41.66	60.80	10.49	2.18	2.02	
6	14.00	9.58	14.36	60.80	16.00	83.40	104.48	41.10	60.80	9.33	2.18	2.27	
7	12.63	9.58	18.97	60.48	16.00	60.16	107.24	45.70	60.80	8.34	2.18	2.27	
8	13.06	10.07	21.30	59.52	15.20	54.40	110.09	50.71	61.14	5.61	2.14	2.39	
9	16.80	11.40	21.47	57.92	13.06	54.40	114.68	52.23	61.48	5.40	2.14	2.35	
10	16.64	11.40	24.62	56.32	12.21	54.40	122.72	51.30	65.72	5.13	2.14	2.35	
11	15.08	11.50	30.26	53.78	12.85	54.40	117.55	53.47	75.60	4.76	2.14	2.35	
12	13.58	11.40	32.20	51.01	19.30	53.78	116.98	57.60	67.24	4.60	2.14	2.35	
13	13.58	11.20	33.35	49.24	25.85	50.71	117.55	57.60	71.60	4.44	2.14	2.31	
14	14.24	11.20	34.75	46.88	26.05	49.83	117.55	57.60	75.60	4.12	2.14	2.27	
15	13.48	11.20	35.50	44.82	23.20	48.65	117.55	58.24	71.60	3.63	2.14	2.39	
16	12.11	10.82	35.50	39.98	21.47	47.76	116.98	58.56	70.80	3.34	2.14	2.39	
17	11.90	10.24	35.75	33.12	21.47	47.76	114.68	57.92	72.00	3.18	2.14	2.39	
18	11.50	10.16	36.50	37.00	21.47	48.65	114.10	55.68	71.20	2.81	2.14	2.39	
19	11.00	10.16	37.81	36.00	21.47	52.85	110.66	52.85	70.00	2.47	2.14	2.39	
20	10.90	10.16	37.81	34.75	23.20	56.00	97.58	51.30	71.20	2.27	2.14	2.39	
21	10.73	10.16	38.35	34.27	26.87	59.20	82.48	51.30	68.00	2.27	2.10	2.43	
22	10.57	11.30	40.26	34.04	25.64	64.20	81.10	51.30	63.18	2.27	2.06	2.68	
23	10.49	13.06	41.38	32.43	27.08	69.20	74.70	51.30	60.16	2.27	2.06	2.85	
24	10.49	10.73	41.38	30.05	27.69	64.20	63.86	49.83	56.96	2.14	2.02	2.89	
25	10.49	10.16	41.38	30.05	29.62	75.15	60.16	47.17	53.47	2.76	2.02	2.89	
26	10.24	10.32	41.38	29.83	33.12	77.42	57.60	46.88	50.42	3.18	2.02	2.89	
27	10.16	11.00	41.94	28.11	34.04	79.72	56.96	46.29	47.47	2.35	2.02	2.89	
28	10.07	12.11	42.79	20.30	33.81	82.48	56.00	45.40	43.95	2.35	2.02	2.89	
29	10.07	13.27	42.79	13.06	32.20	84.32	48.94	45.11	39.70	2.27		2.89	
30	10.07	11.60	45.11	11.20	32.20	87.62	37.54	44.82	36.25	2.10		2.81	
31		14.36		10.90	32.66		33.12		31.34	1.98		2.81	
Total	403.36	337.35	936.47	1291.26	694.42	1872.88	2824.27	1498.64	1854.67	182.22	59.40	75.82	12030.76 CMSDAY
Mean	13.45	10.88	31.22	41.65	22.40	62.43	91.11	49.95	59.83	5.88	2.12	2.45	32.96 CMS
Max	22.40	14.36	45.11	64.58	34.04	88.58	122.72	58.56	75.60	26.67	2.18	2.89	122.72 CMS
Min	10.07	9.58	13.48	10.90	11.40	35.25	33.12	36.25	31.34	1.98	2.02	1.81	1.81 CMS
Runoff	34.850	29.147	80.911	111.565	59.998	161.817	244.017	129.482	160.243	15.744	5.132	6.551	1039.458 MCM

Momentary Peak 125.04 CMS, at 6.83 M (MSL), at 6.00 Hours, on Oct 10, 1994

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

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

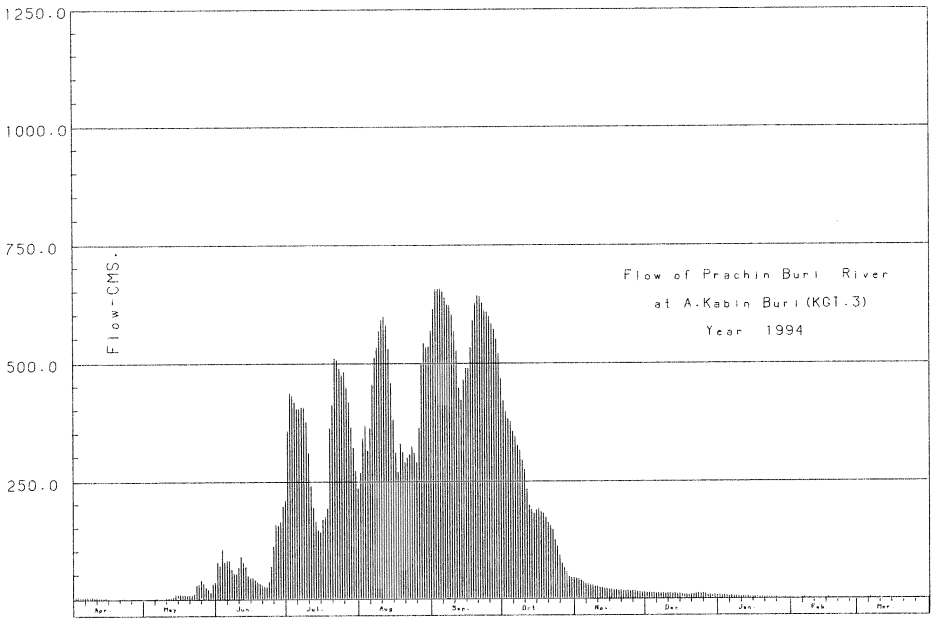
Prachin Buri River at Kabin Buri, Prachin Buri (Kgt.3)

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	-0.49 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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +9.47 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	0.30	2.90	7.41	6.21	9.67	8.11	2.03	1.08	0.74	0.39	0.32	
2	0.59	0.30	2.71	8.28	7.22	9.94	7.86	1.99	1.07	0.73	0.38	0.32	
3	0.54	0.32	3.45	8.20	7.53	9.95	7.70	1.93	1.05	0.71	0.38	0.35	
4	0.54	0.33	2.87	8.08	6.87	9.95	7.63	1.83	1.04	0.65	0.38	0.38	
5	0.54	0.33	2.97	7.94	7.49	9.92	7.41	1.75	1.03	0.61	0.38	0.39	
6	0.54	0.33	2.95	7.92	8.44	9.82	7.25	1.71	1.03	0.59	0.38	0.39	
7	0.54	0.33	2.54	7.97	8.93	9.73	7.03	1.64	1.02	0.59	0.38	0.39	
8	0.54	0.33	2.31	7.96	9.08	9.71	6.86	1.60	1.02	0.57	0.37	0.39	
9	0.54	0.33	2.31	7.64	9.35	9.59	6.58	1.55	1.01	0.55	0.37	0.38	
10	0.51	0.37	2.64	6.81	9.51	9.34	6.28	1.53	1.01	0.54	0.37	0.37	
11	0.49	0.45	3.14	5.78	9.56	9.03	5.67	1.46	1.00	0.53	0.36	0.36	
12	0.47	0.45	2.86	5.03	9.43	8.38	5.10	1.43	0.99	0.52	0.36	0.36	
13	0.44	0.60	2.68	4.51	9.07	8.12	4.93	1.40	0.98	0.51	0.36	0.36	
14	0.42	0.86	2.18	4.23	8.48	8.53	4.81	1.37	0.95	0.50	0.36	0.36	
15	0.38	0.93	2.10	4.13	7.69	8.75	4.90	1.34	0.91	0.48	0.36	0.35	
16	0.38	0.91	2.08	4.60	6.80	8.74	4.98	1.34	0.89	0.50	0.36	0.35	
17	0.37	0.88	1.98	4.68	6.23	9.09	4.86	1.30	0.86	0.48	0.36	0.35	
18	0.37	0.83	1.84	5.00	7.07	9.51	4.79	1.28	0.82	0.46	0.36	0.35	
19	0.36	0.81	1.81	7.48	6.83	9.74	4.66	1.26	0.80	0.45	0.34	0.35	
20	0.36	0.80	1.64	8.02	6.51	9.86	4.47	1.25	0.88	0.45	0.34	0.35	
21	0.36	0.80	1.52	8.92	6.65	9.84	4.36	1.24	0.93	0.45	0.34	0.35	
22	0.36	1.06	1.55	8.88	6.76	9.76	4.25	1.23	0.99	0.45	0.34	0.35	
23	0.36	1.68	1.90	8.75	6.99	9.65	3.84	1.22	1.00	0.43	0.34	0.35	
24	0.36	1.72	2.66	8.62	6.79	9.63	3.55	1.22	0.99	0.42	0.34	0.35	
25	0.34	1.97	3.57	8.69	6.52	9.56	3.16	1.21	0.99	0.42	0.33	0.36	
26	0.34	1.76	4.40	8.39	7.49	9.45	2.83	1.20	0.87	0.40	0.33	0.36	
27	0.33	1.52	4.39	8.08	8.83	9.38	2.60	1.18	0.80	0.38	0.33	0.36	
28	0.33	1.33	4.50	7.50	9.15	9.23	2.37	1.14	0.76	0.38	0.32	0.36	
29	0.31	1.16	5.07	6.96	9.08	8.98	2.13	1.13	0.75	0.38		0.36	
30	0.30	1.77	5.28	6.24	9.10	8.55	2.04	1.09	0.73	0.40		0.37	
31		1.83		5.69	9.35		2.04		0.74	0.40		0.36	
Mean	0.43	0.88	2.83	7.04	7.90	9.38	5.00	1.43	0.94	0.51	0.36	0.36	
Max	0.61	1.97	5.28	8.92	9.56	9.95	8.11	2.03	1.08	0.74	0.39	0.39	9.95
Min	0.30	0.30	1.52	4.13	6.21	8.12	2.04	1.09	0.73	0.38	0.32	0.32	0.30

Annual Max Momentary Gage Height 9.97 M (MSL), at 6.00 Hours, on Sep 3, 1994
Zero Gage at Bottom Elevation -0.49 M (MSL), River Bed -1.35 M (MSL)
Left Bank Elevation 9.85 M (MSL)
Right Bank Elevation 9.46 M (MSL), Drainage Area 7502 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.6	1.4	79.0	356.9	269.7	615.5	422.0	43.2	12.6	7.4	2.6	1.6	
2	5.4	1.4	70.4	439.0	341.6	656.0	397.4	41.6	12.4	7.3	2.5	1.6	
3	4.7	1.6	106.5	431.0	367.7	657.5	383.0	39.2	12.0	7.0	2.5	2.1	
4	4.7	1.8	77.5	419.0	315.9	657.5	376.7	35.2	11.8	6.2	2.5	2.5	
5	4.7	1.8	82.5	405.0	364.1	653.0	356.9	32.5	11.6	5.6	2.5	2.6	
6	4.7	1.8	81.5	403.0	455.4	638.0	344.0	31.3	11.6	5.4	2.5	2.6	
7	4.7	1.8	63.6	408.0	513.9	624.5	327.1	29.2	11.4	5.4	2.5	2.6	
8	4.7	1.8	54.4	407.0	533.4	621.5	315.2	28.0	11.4	5.1	2.3	2.6	
9	4.7	1.8	54.4	377.6	569.0	603.5	295.6	26.5	11.2	4.8	2.3	2.5	
10	4.3	2.3	67.6	311.7	591.5	567.6	274.6	25.9	11.2	4.7	2.3	2.3	
11	4.0	3.4	91.0	240.8	599.0	526.9	234.2	23.8	11.0	4.5	2.2	2.2	
12	3.7	3.4	77.0	195.8	580.2	449.0	200.0	22.9	10.9	4.4	2.2	2.2	
13	3.3	5.5	69.2	164.6	532.1	423.0	189.8	22.0	10.7	4.3	2.2	2.2	
14	3.0	9.1	49.2	147.8	459.8	465.3	182.6	21.1	10.3	4.1	2.2	2.2	
15	2.5	10.0	46.0	141.8	382.1	491.0	188.0	20.2	9.8	3.8	2.2	2.1	
16	2.5	9.8	45.2	170.0	311.0	489.8	192.8	20.2	9.5	4.1	2.2	2.1	
17	2.3	9.4	41.2	174.8	271.1	534.7	185.6	19.0	9.1	3.8	2.2	2.1	
18	2.3	8.7	35.6	194.0	329.9	591.5	181.4	18.4	8.5	3.6	2.2	2.1	
19	2.2	8.4	34.4	363.2	313.1	626.0	173.6	17.8	8.3	3.4	1.9	2.1	
20	2.2	8.3	29.2	413.0	290.7	644.0	162.2	17.5	9.4	3.4	1.9	2.1	
21	2.2	8.3	25.6	512.6	300.5	641.0	155.6	17.2	10.0	3.4	1.9	2.1	
22	2.2	12.2	26.5	507.4	308.2	629.0	149.0	16.9	10.9	3.4	1.9	2.1	
23	2.2	30.4	38.0	491.0	324.3	612.5	126.0	16.6	11.0	3.2	1.9	2.1	
24	2.2	31.6	68.4	475.4	310.3	609.5	111.5	16.6	10.9	3.0	1.9	2.1	
25	1.9	40.8	112.5	483.8	291.4	599.0	92.0	16.3	10.9	3.0	1.8	2.2	
26	1.9	32.8	158.0	450.0	364.1	583.0	75.5	16.0	9.2	2.7	1.8	2.2	
27	1.8	25.6	157.4	419.0	500.9	573.2	66.0	15.4	8.3	2.5	1.8	2.2	
28	1.8	19.9	164.0	365.0	542.5	552.9	56.8	14.2	7.7	2.5	1.6	2.2	
29	1.5	14.8	198.2	322.2	533.4	520.4	47.2	13.9	7.6	2.5		2.2	
30	1.4	33.1	210.8	271.8	536.0	467.5	43.6	12.8	7.3	2.7		2.3	
31		35.2		235.4	569.0		43.6		7.4	2.7		2.2	
Total	95.3	378.2	2414.8	10697.6	12971.8	17323.8	6349.5	691.4	315.9	129.9	60.5	68.3	51497.0 CMSDAY
Mean	3.2	12.2	80.5	345.1	418.4	577.5	204.8	23.0	10.2	4.2	2.2	2.2	141.1 CMS
Max	5.6	40.8	210.8	512.6	599.0	657.5	422.0	43.2	12.6	7.4	2.6	2.6	657.5 CMS
Min	1.4	1.4	25.6	141.8	269.7	423.0	43.6	12.8	7.3	2.5	1.6	1.6	1.4 CMS
Runoff	8.23	32.68	208.64	924.27	1120.76	1496.78	548.60	59.74	27.29	11.22	5.23	5.90	4449.34 MCM

Momentary Peak 660.50 CMS, at 9.97 M (MSL), at 6.00 Hours, on Sep 3, 1994
Runoff Yield 18.81 Liters/Second/Square KM, Momentary Peak Yield 88.04 Liters/Second/Square KM

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

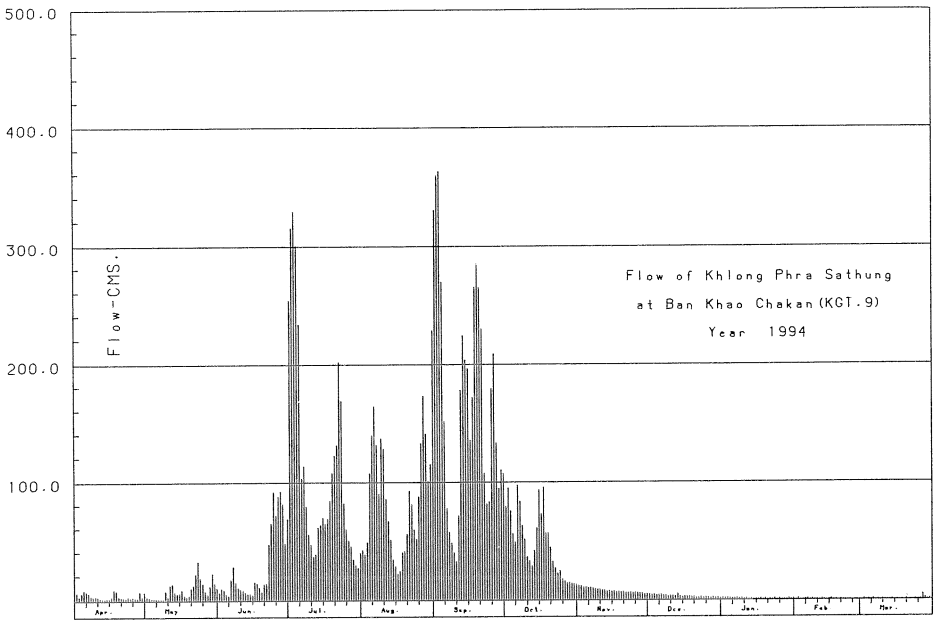
Khlong Phra Sathung at Ban Khao Chakan, Sa Kaeo (Kgt.9)

Location	Lat. 13°-40'-10" N., Long. 102°-04'-35" E., on right bank near Wat Khao Chakan, Tambon 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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +8.76 m.(A.D.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.69	0.48	0.69	7.21	2.09	8.76	3.22	0.96	0.58	0.35	0.23	0.13	
2	0.47	0.38	0.84	8.46	1.96	9.33	3.65	0.93	0.58	0.34	0.27	0.22	
3	0.65	0.36	0.80	8.73	2.34	9.41	3.13	0.90	0.57	0.33	0.26	0.20	
4	0.78	0.29	0.59	8.16	3.97	7.54	2.56	0.89	0.56	0.33	0.25	0.19	
5	0.73	0.25	0.54	6.80	4.75	5.01	2.34	0.88	0.56	0.32	0.24	0.18	
6	0.65	0.25	1.18	3.87	5.31	3.18	3.70	0.87	0.55	0.31	0.23	0.17	
7	0.54	0.24	1.63	4.12	4.56	2.62	3.35	0.86	0.54	0.30	0.22	0.16	
8	0.46	0.23	1.07	3.23	3.51	2.30	2.77	0.82	0.53	0.30	0.21	0.17	
9	0.52	0.76	0.89	2.56	4.68	2.03	2.42	0.82	0.50	0.29	0.20	0.16	
10	0.44	0.49	0.81	2.27	4.47	1.75	1.91	0.80	0.49	0.28	0.20	0.15	
11	0.38	0.96	0.77	1.92	3.41	3.02	1.77	0.79	0.49	0.26	0.20	0.20	
12	0.32	1.03	0.69	1.97	2.89	5.62	1.64	0.76	0.49	0.26	0.20	0.18	
13	0.30	0.68	0.64	2.72	2.41	6.60	2.07	0.74	0.62	0.25	0.20	0.17	
14	0.30	0.64	0.61	2.80	1.82	6.16	2.72	0.74	0.45	0.24	0.20	0.16	
15	0.33	0.64	0.57	2.97	1.64	6.02	3.59	0.72	0.45	0.23	0.20	0.16	
16	0.46	0.78	1.08	2.81	1.39	4.64	3.05	0.71	0.47	0.22	0.20	0.15	
17	0.82	0.56	1.05	2.95	1.46	5.49	3.67	0.70	0.46	0.25	0.20	0.15	
18	0.75	0.45	0.88	3.36	2.04	7.44	2.57	0.70	0.45	0.25	0.19	0.14	
19	0.51	0.54	0.72	3.98	2.06	7.85	2.60	0.70	0.44	0.24	0.18	0.14	
20	0.43	0.86	1.03	4.34	2.55	7.43	2.17	0.69	0.43	0.24	0.17	0.15	
21	0.37	0.98	1.03	4.56	3.59	6.71	1.76	0.67	0.40	0.23	0.16	0.15	
22	0.36	1.39	2.28	6.12	3.29	3.97	1.58	0.67	0.40	0.23	0.15	0.17	
23	0.45	1.78	2.82	5.43	2.67	3.29	1.40	0.66	0.39	0.23	0.15	0.16	
24	0.40	1.23	3.57	3.30	2.43	3.33	1.47	0.66	0.39	0.22	0.14	0.15	
25	0.43	1.05	3.03	2.68	3.45	5.65	1.18	0.65	0.38	0.22	0.17	0.15	
26	0.35	0.73	3.45	2.38	4.58	6.28	1.13	0.65	0.37	0.23	0.16	0.15	
27	0.37	0.59	3.58	2.22	5.52	4.59	1.05	0.64	0.37	0.23	0.15	0.59	
28	0.73	0.93	3.28	1.83	4.78	3.63	1.05	0.62	0.36	0.23	0.14	0.32	
29	0.49	1.41	2.29	1.65	3.79	4.04	1.03	0.60	0.36	0.24		0.23	
30	0.69	1.03	2.95	1.59	4.16	3.95	1.00	0.58	0.36	0.25		0.22	
31		0.86		2.01	6.68		0.98		0.35	0.23		0.20	
Mean	0.51	0.74	1.51	3.84	3.36	5.25	2.21	0.75	0.46	0.26	0.20	0.19	
Max	0.82	1.78	3.58	8.73	6.68	9.41	3.70	0.96	0.62	0.35	0.27	0.59	9.41
Min	0.30	0.23	0.54	1.59	1.39	1.75	0.98	0.58	0.35	0.22	0.14	0.13	0.13

Annual Max Momentary Gage Height 9.95 M (A.D), at 18.00 Hours, on Sep 2, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.33 M (A.D)
Left Bank Elevation 8.75 M (A.D)
Right Bank Elevation 11.11 M (A.D), Drainage Area 2279 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.92	3.28	6.92	254.38	42.31	331.00	79.44	12.68	4.94	2.00	1.18	0.65	
2	3.17	2.24	9.92	316.00	38.54	359.56	95.70	11.99	4.94	1.92	1.42	1.12	
3	6.20	2.08	9.00	329.50	49.56	363.72	76.18	11.30	4.76	1.84	1.36	1.00	
4	8.62	1.54	5.12	301.00	108.30	270.36	56.26	11.07	4.58	1.84	1.30	0.95	
5	7.67	1.30	4.22	234.70	140.55	151.73	49.56	10.84	4.58	1.76	1.24	0.90	
6	6.20	1.30	17.74	104.30	164.63	77.98	97.60	10.61	4.40	1.68	1.18	0.85	
7	4.22	1.24	28.97	114.30	132.38	58.20	84.30	10.38	4.22	1.60	1.12	0.80	
8	3.06	1.18	15.21	79.81	90.38	48.40	63.45	9.46	4.04	1.60	1.06	0.85	
9	3.86	8.24	11.07	56.26	137.54	40.57	51.92	9.46	3.50	1.54	1.00	0.80	
10	2.84	3.39	9.23	47.53	128.54	32.45	37.09	9.00	3.39	1.48	1.00	0.75	
11	2.24	12.68	8.43	37.38	86.58	72.22	33.03	8.81	3.39	1.36	1.00	1.00	
12	1.76	14.29	6.92	38.83	67.65	178.22	29.26	8.24	3.39	1.36	1.00	0.90	
13	1.60	6.74	6.02	61.70	51.61	225.10	41.73	7.86	5.66	1.30	1.00	0.85	
14	1.60	6.02	5.48	64.50	34.48	203.98	61.70	7.86	2.95	1.24	1.00	0.80	
15	1.84	6.02	4.76	70.45	29.26	197.26	93.42	7.48	2.95	1.18	1.00	0.80	
16	3.06	8.62	15.44	64.85	22.75	135.82	73.30	7.29	3.17	1.12	1.00	0.75	
17	9.46	4.58	14.75	69.75	24.50	172.46	96.46	7.10	3.06	1.30	1.00	0.75	
18	8.05	2.95	10.84	84.68	40.86	265.46	56.57	7.10	2.95	1.30	0.95	0.70	
19	3.68	4.22	7.48	108.70	41.44	285.55	57.50	7.10	2.84	1.24	0.90	0.70	
20	2.73	10.38	14.29	123.14	55.95	264.97	44.63	6.92	2.73	1.24	0.85	0.75	
21	2.16	13.14	14.29	132.38	93.42	230.38	32.74	6.56	2.40	1.18	0.80	0.75	
22	2.08	22.75	47.82	202.06	82.03	108.30	27.58	6.56	2.40	1.18	0.75	0.85	
23	2.95	33.32	65.20	169.82	59.95	82.03	23.00	6.38	2.32	1.18	0.75	0.80	
24	2.40	18.89	92.66	82.40	52.23	83.54	24.75	6.38	2.32	1.12	0.70	0.75	
25	2.73	14.75	72.58	60.30	88.10	179.60	17.74	6.20	2.24	1.12	0.85	0.75	
26	2.00	7.67	88.10	50.72	133.24	209.74	16.59	6.20	2.16	1.18	0.80	0.75	
27	2.16	5.12	93.04	46.08	173.78	133.67	14.75	6.02	2.16	1.18	0.75	5.12	
28	7.67	11.99	81.66	34.77	141.84	94.94	14.75	5.66	2.08	1.18	0.70	1.76	
29	3.39	23.25	48.11	29.55	101.11	111.10	14.29	5.30	2.08	1.24		1.18	
30	6.92	14.29	69.75	27.84	115.90	107.50	13.60	4.94	2.08	1.30		1.12	
31		10.38		39.99	228.94		13.14		2.00	1.18		1.00	
Total	123.24	277.84	885.02	3437.67	2758.35	5075.81	1492.03	242.75	100.68	42.94	27.66	31.50	14495.49 CMSDAY
Mean	4.11	8.96	29.50	110.89	88.98	169.19	48.13	8.09	3.25	1.39	0.99	1.02	39.71 CMS
Max	9.46	33.32	93.04	329.50	228.94	363.72	97.60	12.68	5.66	2.00	1.42	5.12	363.72 CMS
Min	1.60	1.18	4.22	27.84	22.75	32.45	13.14	4.94	2.00	1.12	0.70	0.65	0.65 CMS
Runoff	10.648	24.005	76.466	297.015	238.321	438.550	128.911	20.974	8.699	3.710	2.390	2.722	1252.411 MCM

Momentary Peak 391.80 CMS, at 9.95 M (A.D), at 18.00 Hours, on Sep 2, 1994

Runoff Yield 17.43 Liters/Second/Square KM, Momentary Peak Yield 171.92 Liters/Second/Square KM

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

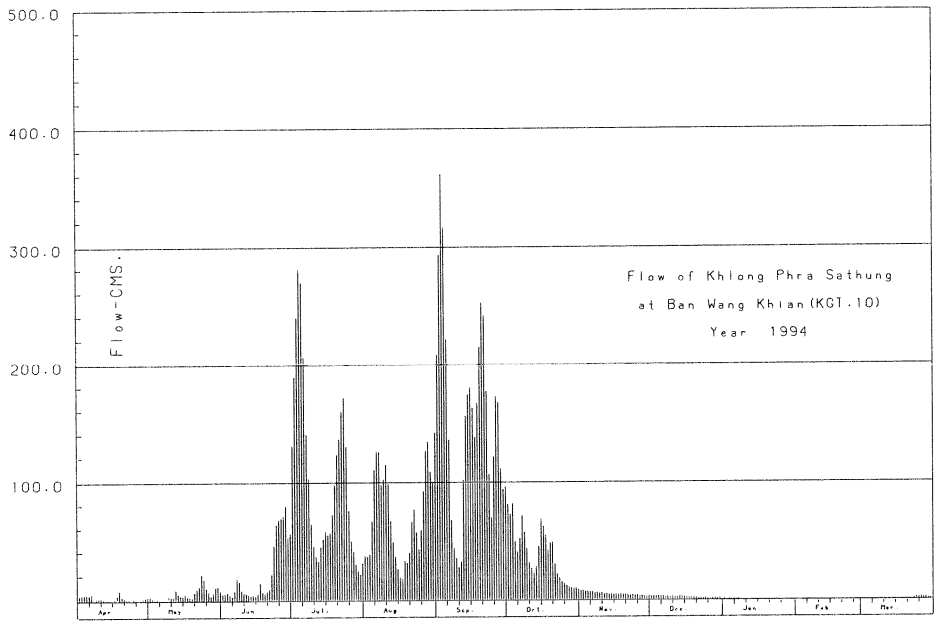
Khlong Phra Sathung at Ban Wang Khian, Sa Kaeo (Kgt.10)

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	Overbank flow starts at elevation +34.36 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 96 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.34	25.25	25.48	32.48	28.19	34.26	30.44	25.77	25.25	25.01	24.90	24.83	
2	25.38	25.05	25.46	33.98	28.19	35.02	30.04	25.74	25.25	25.01	24.90	24.83	
3	25.44	25.03	25.61	34.64	28.28	35.35	30.45	25.68	25.25	25.00	24.90	24.83	
4	25.40	24.92	25.38	34.94	29.80	35.15	28.91	25.67	25.25	24.99	24.89	24.83	
5	25.39	24.84	25.28	34.87	31.66	34.43	28.41	25.63	25.25	24.99	24.88	24.83	
6	25.47	24.84	25.74	34.23	32.30	32.65	29.03	25.62	25.23	24.96	24.87	24.83	
7	24.94	24.84	26.78	32.81	32.30	29.83	30.01	25.55	25.19	24.93	24.86	24.83	
8	25.16	24.84	26.57	31.34	31.11	28.58	29.34	25.54	25.19	24.94	24.84	24.84	
9	25.11	25.29	25.77	29.70	31.31	28.09	28.56	25.53	25.19	24.95	24.84	24.85	
10	25.11	25.17	25.57	28.69	31.85	27.57	27.83	25.52	25.19	24.96	24.84	24.86	
11	25.04	25.21	25.54	28.16	31.18	27.88	27.46	25.47	25.19	24.97	24.84	24.87	
12	24.99	25.85	25.40	27.94	29.79	31.31	27.20	25.45	25.19	24.95	24.84	24.87	
13	24.94	25.45	25.37	28.64	28.89	33.23	27.58	25.44	25.22	24.94	24.84	24.87	
14	24.92	25.34	25.37	29.02	28.14	33.68	28.66	25.43	25.23	24.93	24.84	24.87	
15	24.87	25.25	25.29	29.35	27.47	33.79	29.86	25.41	25.15	24.91	24.84	24.87	
16	25.01	25.45	25.48	29.19	26.89	33.42	29.60	25.41	25.15	24.89	24.84	24.87	
17	25.37	25.27	26.40	29.30	26.71	32.72	29.18	25.41	25.14	24.88	24.84	24.87	
18	25.73	25.16	25.65	30.02	27.91	33.50	28.47	25.41	25.11	24.93	24.84	24.87	
19	25.26	25.18	25.45	31.13	27.83	34.35	28.83	25.40	25.11	24.92	24.84	24.89	
20	25.09	25.61	25.65	32.20	28.35	34.74	28.84	25.38	25.09	24.91	24.84	24.91	
21	25.00	25.85	25.84	32.67	29.76	34.65	27.76	25.36	25.09	24.90	24.83	24.91	
22	24.97	26.10	27.13	33.33	30.25	33.73	27.13	25.34	25.06	24.90	24.83	24.93	
23	25.02	27.12	28.71	33.63	29.33	31.49	26.78	25.33	25.06	24.90	24.83	25.05	
24	25.06	26.69	29.67	32.46	28.52	29.92	26.50	25.33	25.06	24.90	24.83	25.09	
25	24.97	25.99	29.83	30.21	29.41	32.13	26.32	25.30	25.06	24.90	24.83	25.10	
26	25.05	25.63	29.92	28.91	30.91	33.63	26.18	25.30	25.06	24.90	24.83	25.10	
27	24.99	25.32	29.98	28.44	32.33	33.53	26.03	25.30	25.05	24.90	24.83	25.09	
28	25.12	25.55	30.38	27.76	32.59	31.68	25.92	25.24	25.05	24.90	24.83	25.09	
29	25.18	26.05	29.08	27.33	31.59	30.97	25.94	25.24	25.05	24.90		25.04	
30	25.16	26.07	29.26	27.13	31.20	31.04	25.91	25.24	25.03	24.90		24.94	
31		25.71		27.79	32.84		25.80		25.02	24.91		24.89	
Mean	25.15	25.48	26.77	30.72	29.90	32.41	28.03	25.45	25.14	24.93	24.85	24.91	
Max	25.73	27.12	30.38	34.94	32.84	35.35	30.45	25.77	25.25	25.01	24.90	25.10	35.35
Min	24.87	24.84	25.28	27.13	26.71	27.57	25.80	25.24	25.02	24.88	24.83	24.83	24.83

Annual Max Momentary Gage Height 35.37 M (MSL), at 15.00 Hours, on Sep 3, 1994
Zero Gage at Bottom Elevation 23.74 M (MSL), River Bed 23.99 M (MSL)
Left Bank Elevation 34.61 M (MSL)
Right Bank Elevation 34.35 M (MSL), Drainage Area 2523 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.20	3.30	5.60	131.04	37.64	208.20	81.56	8.50	3.30	1.28	0.60	0.18	
2	4.60	1.60	5.40	190.00	37.64	293.40	72.68	8.20	3.30	1.28	0.60	0.18	
3	5.20	1.44	6.90	240.40	39.08	362.00	81.80	7.60	3.30	1.20	0.60	0.18	
4	4.80	0.72	4.60	281.00	67.40	316.50	50.18	7.50	3.30	1.14	0.54	0.18	
5	4.70	0.24	3.60	270.50	110.84	221.83	41.18	7.10	3.30	1.14	0.48	0.18	
6	5.50	0.24	8.20	206.10	126.20	136.10	52.34	7.00	3.10	0.96	0.42	0.18	
7	0.84	0.24	18.60	141.12	126.20	68.06	72.02	6.30	2.72	0.78	0.36	0.18	
8	2.48	0.24	16.50	103.16	97.64	44.24	57.92	6.20	2.72	0.84	0.24	0.24	
9	2.08	3.70	8.50	65.20	102.44	36.04	43.88	6.10	2.72	0.90	0.24	0.30	
10	2.08	2.56	6.50	46.22	115.40	28.18	31.88	6.00	2.72	0.96	0.24	0.36	
11	1.52	2.90	6.20	37.16	99.32	32.68	26.64	5.50	2.72	1.02	0.24	0.42	
12	1.14	9.30	4.80	33.64	67.18	102.44	23.20	5.30	2.72	0.90	0.24	0.42	
13	0.84	5.30	4.50	45.32	49.82	156.20	28.32	5.20	3.00	0.84	0.24	0.42	
14	0.72	4.20	4.50	52.16	36.84	175.00	45.68	5.10	3.10	0.78	0.24	0.42	
15	0.42	3.30	3.70	58.10	26.78	180.50	68.72	4.90	2.40	0.66	0.24	0.42	
16	1.28	5.30	5.60	55.22	19.70	163.80	63.00	4.90	2.40	0.54	0.24	0.42	
17	4.50	3.50	14.80	57.20	17.90	138.24	55.04	4.90	2.32	0.48	0.24	0.42	
18	8.10	2.48	7.30	72.24	33.16	167.00	42.26	4.90	2.08	0.78	0.24	0.42	
19	3.40	2.64	5.30	98.12	31.88	215.17	48.74	4.80	2.08	0.72	0.24	0.54	
20	1.92	6.90	7.30	123.80	40.20	252.20	48.92	4.60	1.92	0.66	0.24	0.66	
21	1.20	9.30	9.20	136.70	66.52	241.50	30.84	4.40	1.92	0.60	0.18	0.66	
22	1.02	11.80	22.36	160.20	77.30	177.50	22.36	4.20	1.68	0.60	0.18	0.78	
23	1.36	22.24	46.58	172.50	57.74	106.76	18.60	4.10	1.68	0.60	0.18	1.60	
24	1.68	17.70	64.54	130.48	43.16	70.04	15.80	4.10	1.68	0.60	0.18	1.92	
25	1.02	10.70	68.06	76.42	59.20	122.12	14.00	3.80	1.68	0.60	0.18	2.00	
26	1.60	7.10	70.04	50.18	92.84	172.50	12.60	3.80	1.68	0.60	0.18	2.00	
27	1.14	4.00	71.36	41.72	126.98	168.20	11.10	3.80	1.60	0.60	0.18	1.92	
28	2.16	6.30	80.16	30.84	134.30	111.32	10.00	3.20	1.60	0.60	0.18	1.92	
29	2.64	11.30	53.24	24.82	109.16	94.28	10.20	3.20	1.60	0.60		1.52	
30	2.48	11.50	56.48	22.36	99.80	95.96	9.90	3.20	1.44	0.60		0.84	
31		7.90		31.26	142.08		8.80		1.36	0.66		0.54	
Total	76.62	179.94	690.42	3185.18	2292.34	4657.96	1200.16	158.40	73.14	24.52	8.16	22.42	12569.26 CMSDAY
Mean	2.55	5.80	23.01	102.75	73.95	155.27	38.71	5.28	2.36	0.79	0.29	0.72	34.44 CMS
Max	8.10	22.24	80.16	281.00	142.08	362.00	81.80	8.50	3.30	1.28	0.60	2.00	362.00 CMS
Min	0.42	0.24	3.60	22.36	17.90	28.18	8.80	3.20	1.36	0.48	0.18	0.18	0.18 CMS
Runoff	6.620	15.547	59.652	275.200	198.058	402.448	103.694	13.686	6.319	2.119	0.705	1.937	1085.984 MCM

Momentary Peak 366.80 CMS, at 35.37 M (MSL), at 15.00 Hours, on Sep 3, 1994

Runoff Yield 13.65 Liters/Second/Square KM, Momentary Peak Yield 145.38 Liters/Second/Square KM

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

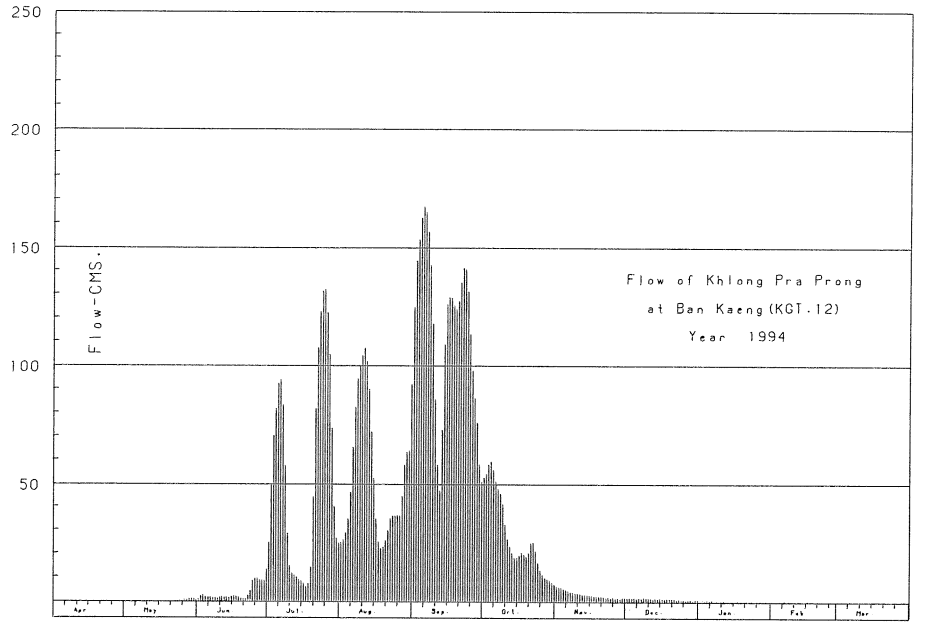
Khlong Phra Prong at Ban Kaeng, Sa Kaeo (Kgt.12)

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 +8.59 m.(A.D.) and is included.
General Description	Records good. Flow effected by the local weir during Apr.1-May 19,94. Stage-discharge relation defined by 72 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	0.76	0.44	2.89	2.89	7.27	4.45	1.34	0.64	0.31	0.12	0.03	
2	0.76	0.76	0.81	4.32	2.98	7.91	4.52	1.31	0.62	0.30	0.14	0.07	
3	0.75	0.77	0.84	5.26	3.20	8.21	4.72	1.29	0.65	0.30	0.15	0.07	
4	0.74	0.77	0.75	5.69	3.55	8.53	4.79	1.24	0.61	0.27	0.14	0.04	
5	0.73	0.76	0.71	6.11	4.14	8.68	4.62	1.21	0.60	0.26	0.14	0.03	
6	0.72	0.77	0.70	6.16	5.05	8.60	4.37	1.13	0.60	0.25	0.14	0.04	
7	0.71	0.78	0.64	5.76	5.72	8.33	4.20	1.09	0.60	0.25	0.13	0.01	
8	0.70	0.76	0.60	4.70	6.18	7.85	4.11	1.04	0.66	0.21	0.16	0.00	
9	0.70	0.75	0.61	3.19	6.39	7.03	3.87	1.01	0.67	0.22	0.18	-0.01	
10	0.70	0.79	0.67	2.18	6.55	5.85	3.41	0.96	0.59	0.22	0.19	-0.02	
11	0.69	0.79	0.72	1.91	6.67	4.71	3.01	0.93	0.58	0.19	0.18	-0.03	
12	0.68	0.91	0.71	1.80	6.46	4.17	2.78	0.90	0.56	0.20	0.16	-0.03	
13	0.66	0.98	0.68	1.75	6.01	5.35	2.57	0.86	0.57	0.20	0.14	-0.03	
14	0.65	0.92	0.67	1.62	5.32	6.73	2.43	0.89	0.59	0.18	0.13	-0.04	
15	0.64	0.84	0.73	1.58	4.43	7.31	2.42	0.87	0.58	0.17	0.13	-0.04	
16	0.65	0.83	0.77	1.47	3.55	7.40	2.50	0.82	0.58	0.17	0.12	-0.05	
17	0.65	0.80	0.77	1.34	2.93	7.39	2.58	0.80	0.56	0.17	0.12	-0.06	
18	0.65	0.81	0.67	1.46	2.72	7.29	2.53	0.78	0.55	0.16	0.10	-0.06	
19	0.65	0.80	0.59	2.15	2.75	7.23	2.45	0.77	0.57	0.16	0.09	-0.06	
20	0.66	0.85	0.50	4.03	2.95	7.35	2.58	0.74	0.52	0.16	0.08	-0.06	
21	0.77	0.89	0.51	5.70	3.25	7.61	2.88	0.71	0.49	0.16	0.06	-0.06	
22	0.78	0.92	0.83	6.67	3.57	7.82	2.90	0.69	0.46	0.14	0.04	-0.06	
23	0.86	1.04	1.16	7.20	3.62	7.79	2.63	0.70	0.43	0.14	0.05	-0.06	
24	0.92	1.07	1.57	7.49	3.63	7.49	2.28	0.64	0.41	0.14	0.05	-0.06	
25	0.87	0.95	1.68	7.51	3.63	6.87	2.02	0.65	0.39	0.14	0.06	-0.06	
26	0.83	0.75	1.68	7.19	3.62	6.32	1.83	0.62	0.37	0.14	0.06	-0.06	
27	0.82	0.57	1.62	6.56	4.05	5.86	1.71	0.61	0.37	0.14	0.03	-0.06	
28	0.82	0.46	1.59	5.37	4.72	5.47	1.64	0.60	0.36	0.14	0.03	-0.07	
29	0.80	0.56	1.59	3.83	4.96	4.72	1.61	0.64	0.36	0.13		-0.07	
30	0.76	0.48	2.06	3.04	5.00	4.35	1.50	0.64	0.35	0.13		-0.07	
31		0.38		2.88	6.09		1.43		0.33	0.13		-0.07	
Mean	0.74	0.78	0.93	4.16	4.41	6.92	2.95	0.88	0.52	0.19	0.11	-0.03	
Max	0.92	1.07	2.06	7.51	6.67	8.68	4.79	1.34	0.67	0.31	0.19	0.07	8.68
Min	0.64	0.38	0.44	1.34	2.72	4.17	1.43	0.60	0.33	0.13	0.03	-0.07	-0.07

Annual Max Momentary Gage Height 8.69 M (A.D), at 15.00 Hours, on Sep 5, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.30 M (A.D)
Left Bank Elevation 9.61 M (A.D)
Right Bank Elevation 8.58 M (A.D), Drainage Area 1540 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.88	25.06	25.06	125.10	52.85	6.40	1.56	0.62	0.24	0.06	
2	0.00	0.00	2.46	50.27	26.32	144.30	54.23	6.10	1.48	0.60	0.28	0.14	
3	0.00	0.00	2.64	70.76	29.40	153.30	58.24	5.90	1.60	0.60	0.30	0.14	
4	0.00	0.00	2.10	81.94	35.10	162.90	59.78	5.40	1.44	0.54	0.28	0.08	
5	0.00	0.00	1.86	92.86	46.70	167.56	56.21	5.10	1.40	0.52	0.28	0.06	
6	0.00	0.00	1.80	94.16	65.60	165.00	51.26	4.44	1.40	0.50	0.28	0.08	
7	0.00	0.00	1.56	83.76	82.72	156.90	47.89	4.14	1.40	0.50	0.26	0.02	
8	0.00	0.00	1.40	57.80	94.68	142.50	46.11	3.84	1.64	0.42	0.32	0.00	
9	0.00	0.00	1.44	29.26	100.14	117.90	41.35	3.66	1.68	0.44	0.36	0.00	
10	0.00	0.00	1.68	15.12	104.40	86.10	32.76	3.36	1.36	0.44	0.38	0.00	
11	0.00	0.00	1.92	12.10	107.76	58.02	26.74	3.18	1.32	0.38	0.36	0.00	
12	0.00	0.00	1.86	11.00	101.96	47.30	23.52	3.00	1.24	0.40	0.32	0.00	
13	0.00	0.00	1.72	10.50	90.26	73.10	20.58	2.76	1.28	0.40	0.28	0.00	
14	0.00	0.00	1.68	9.20	72.32	109.44	18.62	2.94	1.36	0.36	0.26	0.00	
15	0.00	0.00	1.98	8.80	52.45	126.30	18.48	2.82	1.32	0.34	0.26	0.00	
16	0.00	0.00	2.22	7.70	35.10	129.00	19.60	2.52	1.32	0.34	0.24	0.00	
17	0.00	0.00	2.22	6.40	25.62	128.70	20.72	2.40	1.24	0.34	0.24	0.00	
18	0.00	0.00	1.68	7.60	22.68	125.70	20.02	2.28	1.20	0.32	0.20	0.00	
19	0.00	0.00	1.36	14.70	23.10	123.90	18.90	2.22	1.28	0.32	0.18	0.00	
20	0.00	0.10	1.00	44.52	25.90	127.50	20.72	2.04	1.08	0.32	0.16	0.00	
21	0.00	0.20	1.04	82.20	30.20	135.30	24.92	1.86	0.98	0.32	0.12	0.00	
22	0.00	0.30	2.58	107.76	35.46	141.60	25.20	1.76	0.92	0.28	0.08	0.00	
23	0.00	0.40	4.68	123.00	36.40	140.70	21.42	1.80	0.86	0.28	0.10	0.00	
24	0.00	0.50	8.70	131.70	36.59	131.70	16.52	1.56	0.82	0.28	0.10	0.00	
25	0.00	0.60	9.80	132.30	36.59	113.36	13.20	1.60	0.78	0.28	0.12	0.00	
26	0.00	0.70	9.80	122.70	36.40	98.32	11.30	1.48	0.74	0.28	0.12	0.00	
27	0.00	0.80	9.20	104.68	44.92	86.36	10.10	1.44	0.74	0.28	0.06	0.00	
28	0.00	0.92	8.90	73.62	58.24	76.22	9.40	1.40	0.72	0.28	0.06	0.00	
29	0.00	1.24	8.90	40.56	63.52	58.24	9.10	1.56	0.72	0.26		0.00	
30	0.00	0.96	13.60	27.16	64.40	50.86	8.00	1.56	0.70	0.26		0.00	
31		0.76		24.92	92.34		7.30		0.66	0.26		0.00	
Total	0.00	7.48	112.66	1704.11	1702.33	3503.18	865.04	90.52	36.24	11.76	6.24	0.58	8040.14 CMSDAY
Mean	0.00	0.24	3.76	54.97	54.91	116.77	27.90	3.02	1.17	0.38	0.22	0.02	22.03 CMS
Max	0.00	1.24	13.60	132.30	107.76	167.56	59.78	6.40	1.68	0.62	0.38	0.14	167.56 CMS
Min	0.00	0.00	0.88	6.40	22.68	47.30	7.30	1.40	0.66	0.26	0.06	0.00	0.00 CMS
Runoff	0.000	0.646	9.734	147.235	147.081	302.675	74.739	7.821	3.131	1.016	0.539	0.050	694.668 MCM

Momentary Peak 167.88 CMS, at 8.69 M (A.D), at 15.00 Hours, on Sep 5, 1994

Runoff Yield 14.30 Liters/Second/Square KM, Momentary Peak Yield 109.01 Liters/Second/Square KM

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

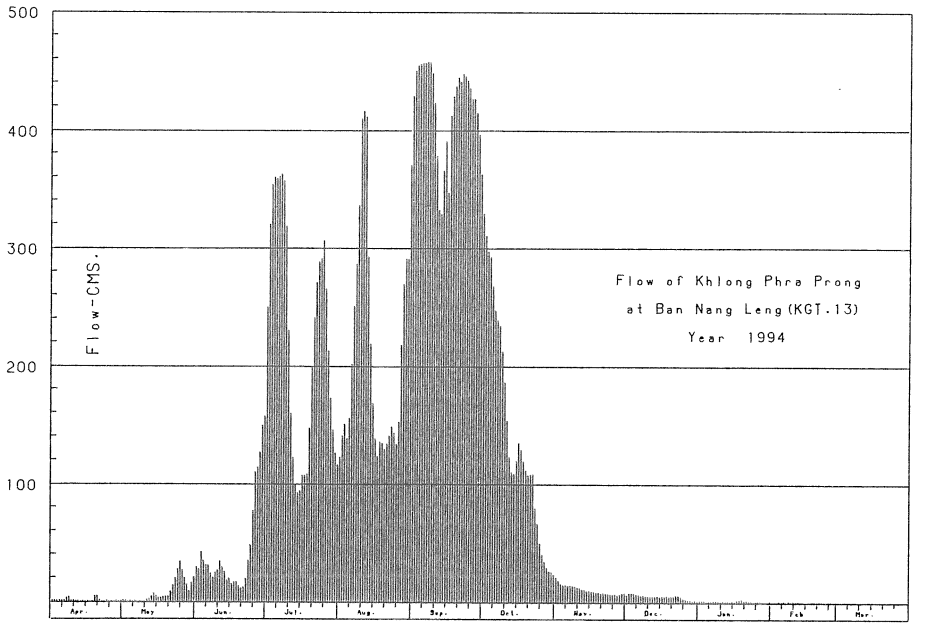
Khlong Phra Prong at Ban Nang Leng, Prachin Buri (Kgt.13)

Location	Lat. 13°58'04" N., Long. 101°44'20" E., on left bank about 40 meters upstream from the bridge on highway, at Ban Nang Leng, Amphoe Kabin Buri, Prachin Buri.
Drainage Area	5,347 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.17 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near the gage site.
Elevation	+10.712 m. (M.S.L.)
Gage Reading Frequency	5 time daily readings at 06.00, 09.00, 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 39 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.21	1.32	3.00	7.96	6.61	10.46	9.11	2.57	1.66	1.30	1.14	1.06	
2	1.22	1.26	2.91	8.98	7.50	10.73	8.85	2.46	1.74	1.29	1.13	1.05	
3	1.22	1.24	3.52	9.46	7.88	10.79	8.65	2.26	1.77	1.27	1.14	1.04	
4	1.22	1.20	3.23	9.54	7.41	10.80	8.59	2.22	1.73	1.26	1.14	1.03	
5	1.24	1.19	3.07	9.53	8.03	10.81	8.23	2.20	1.69	1.24	1.15	1.01	
6	1.26	1.18	3.07	9.55	9.08	10.82	7.92	2.19	1.64	1.24	1.16	0.97	
7	1.46	1.13	2.73	9.58	9.63	10.83	7.79	2.18	1.62	1.24	1.18	0.96	
8	1.47	1.08	2.58	9.50	9.85	10.82	7.72	2.18	1.61	1.23	1.18	0.97	
9	1.29	1.06	2.76	8.96	10.05	10.71	7.38	2.13	1.59	1.22	1.16	0.98	
10	1.23	1.05	2.88	7.66	10.20	10.38	6.95	2.09	1.56	1.22	1.15	0.97	
11	1.22	1.34	3.19	6.48	10.29	9.78	6.37	2.04	1.54	1.21	1.16	0.96	
12	1.21	1.37	3.00	5.73	10.22	9.16	5.74	1.98	1.52	1.20	1.16	0.95	
13	1.13	1.56	2.80	5.21	9.88	9.10	5.46	1.93	1.57	1.19	1.16	0.94	
14	1.12	1.71	2.44	5.02	9.32	9.62	5.43	1.90	1.56	1.17	1.15	0.93	
15	1.12	1.56	2.52	5.07	8.42	9.95	5.67	1.88	1.55	1.19	1.15	0.91	
16	1.12	1.47	2.26	5.39	7.40	10.08	5.99	1.85	1.55	1.24	1.14	0.89	
17	1.10	1.44	2.35	5.40	6.66	10.24	5.87	1.83	1.56	1.30	1.14	0.86	
18	1.04	1.53	2.38	5.66	7.28	10.45	5.67	1.79	1.57	1.35	1.12	0.86	
19	1.53	1.52	2.13	7.77	7.24	10.57	5.49	1.78	1.56	1.37	1.11	0.86	
20	1.56	1.55	1.99	9.04	6.99	10.66	5.41	1.75	1.54	1.32	1.09	0.85	
21	1.32	1.82	2.09	9.55	7.21	10.62	5.41	1.75	1.57	1.31	1.08	0.85	
22	1.15	2.19	2.52	9.77	7.50	10.70	5.43	1.75	1.59	1.26	1.07	0.85	
23	1.16	2.56	3.22	9.86	7.81	10.68	4.68	1.70	1.62	1.24	1.08	0.86	
24	1.15	2.90	3.72	9.87	7.58	10.63	4.32	1.71	1.52	1.23	1.08	0.85	
25	1.12	3.20	4.62	9.94	7.20	10.55	3.79	1.69	1.43	1.23	1.07	0.85	
26	1.09	2.87	5.46	9.73	7.94	10.42	3.42	1.67	1.35	1.22	1.06	0.85	
27	1.11	2.56	5.54	9.25	9.31	10.43	3.19	1.64	1.34	1.22	1.06	0.85	
28	1.19	2.22	5.83	8.54	9.76	10.27	2.98	1.66	1.32	1.21	1.06	0.85	
29	1.19	1.86	6.28	7.69	9.87	10.02	2.84	1.74	1.31	1.19		0.86	
30	1.16	2.31	6.44	6.84	9.87	9.58	2.79	1.74	1.30	1.18		0.89	
31		2.58		6.19	10.13		2.70		1.29	1.16		0.93	
Mean	1.22	1.74	3.35	8.02	8.52	10.36	5.80	1.94	1.54	1.24	1.12	0.92	
Max	1.56	3.20	6.44	9.94	10.29	10.83	9.11	2.57	1.77	1.37	1.18	1.06	10.83
Min	1.04	1.05	1.99	5.02	6.61	9.10	2.70	1.64	1.29	1.16	1.06	0.85	0.85

Annual Max Momentary Gage Height 10.83 M (MSL), at 7.00 Hours, on Sep 7, 1994
Zero Gage at Bottom Elevation 0.17 M (MSL), River Bed 0.39 M (MSL)
Left Bank Elevation 13.78 M (MSL)
Right Bank Elevation 14.02 M (MSL), Drainage Area 5347 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.6	2.3	30.0	250.4	123.2	429.5	329.7	21.4	7.0	2.0	1.4	1.0	
2	1.7	1.8	28.2	320.6	141.5	450.4	311.5	19.2	8.2	2.0	1.3	1.0	
3	1.7	1.8	43.0	354.5	151.4	455.2	297.5	15.9	8.6	1.9	1.4	1.0	
4	1.7	1.6	35.7	360.5	139.3	456.0	293.3	15.3	8.0	1.8	1.4	0.9	
5	1.8	1.6	31.7	359.7	155.9	456.8	268.1	15.0	7.5	1.8	1.4	0.8	
6	1.8	1.5	31.7	361.3	202.2	457.6	247.8	14.9	6.8	1.8	1.4	0.7	
7	4.2	1.3	24.6	363.5	251.3	458.4	239.4	14.7	6.5	1.8	1.5	0.6	
8	4.4	1.1	21.6	357.5	287.0	457.6	234.8	14.7	6.3	1.7	1.5	0.7	
9	2.0	1.0	25.2	319.2	337.0	448.8	212.8	14.0	6.1	1.7	1.4	0.7	
10	1.7	1.0	27.6	230.9	410.0	423.5	187.0	13.3	5.6	1.7	1.4	0.7	
11	1.7	2.6	34.8	160.4	416.7	378.5	154.5	12.6	5.4	1.6	1.4	0.6	
12	1.6	3.0	30.0	122.8	411.5	333.2	123.3	11.7	5.1	1.6	1.4	0.6	
13	1.3	5.6	26.0	100.4	293.6	329.0	110.7	11.0	5.8	1.6	1.4	0.6	
14	1.3	7.7	18.8	92.8	219.0	366.5	109.3	10.5	5.6	1.5	1.4	0.5	
15	1.3	5.6	20.4	94.8	168.8	391.2	120.1	10.2	5.5	1.6	1.4	0.4	
16	1.3	4.4	15.9	107.6	139.0	347.2	135.5	9.8	5.5	1.8	1.4	0.4	
17	1.2	4.0	17.2	108.0	124.0	413.0	129.5	9.5	5.6	2.0	1.4	0.2	
18	1.0	5.2	17.7	108.9	136.2	428.7	120.1	8.9	5.8	2.7	1.3	0.2	
19	5.2	5.1	14.0	148.3	135.3	437.7	112.0	8.7	5.6	3.0	1.2	0.2	
20	5.6	5.5	11.9	199.6	129.8	444.8	108.4	8.3	5.4	2.3	1.2	0.2	
21	2.3	9.3	13.3	241.5	134.6	441.6	108.4	8.3	5.8	2.1	1.1	0.2	
22	1.4	14.9	20.4	271.7	141.5	448.0	109.3	8.3	6.1	1.8	1.1	0.2	
23	1.4	21.2	35.5	289.2	149.3	446.4	79.8	7.6	6.5	1.8	1.1	0.2	
24	1.4	28.0	48.6	291.4	143.5	442.4	67.2	7.7	5.1	1.7	1.1	0.2	
25	1.3	35.0	77.7	306.8	134.4	436.2	50.7	7.5	3.8	1.7	1.1	0.2	
26	1.2	27.4	110.7	265.8	153.2	426.5	40.5	7.2	2.7	1.7	1.0	0.2	
27	1.2	21.2	114.3	213.8	218.3	427.2	34.8	6.8	2.6	1.7	1.0	0.2	
28	1.6	15.3	127.5	173.6	270.2	415.3	29.6	7.0	2.3	1.6	1.0	0.2	
29	1.6	9.9	150.0	146.3	291.4	396.5	26.8	8.2	2.1	1.6		0.2	
30	1.4	16.6	158.2	127.1	291.4	363.5	25.8	8.2	2.0	1.5		0.4	
31		21.6		116.9	370.8		24.0		2.0	1.4		0.5	
Total	58.9	284.1	1362.2	6965.8	6671.3	12607.2	4442.2	336.4	166.9	56.5	36.1	14.7	33002.3 CMSDAY
Mean	2.0	9.2	45.4	224.7	215.2	420.2	143.3	11.2	5.4	1.8	1.3	0.5	90.4 CMS
Max	5.6	35.0	158.2	363.5	416.7	458.4	329.7	21.4	8.6	3.0	1.5	1.0	458.4 CMS
Min	1.0	1.0	11.9	92.8	123.2	329.0	24.0	6.8	2.0	1.4	1.0	0.2	0.2 CMS
Runoff	5.09	24.55	117.69	601.85	576.40	1089.26	383.81	29.06	14.42	4.88	3.12	1.27	2851.40 MCM

Momentary Peak 458.40 CMS, at 10.83 M (MSL), at 7.00 Hours, on Sep 7, 1994

Runoff Yield 16.91 Liters/Second/Square KM, Momentary Peak Yield 85.73 Liters/Second/Square KM

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

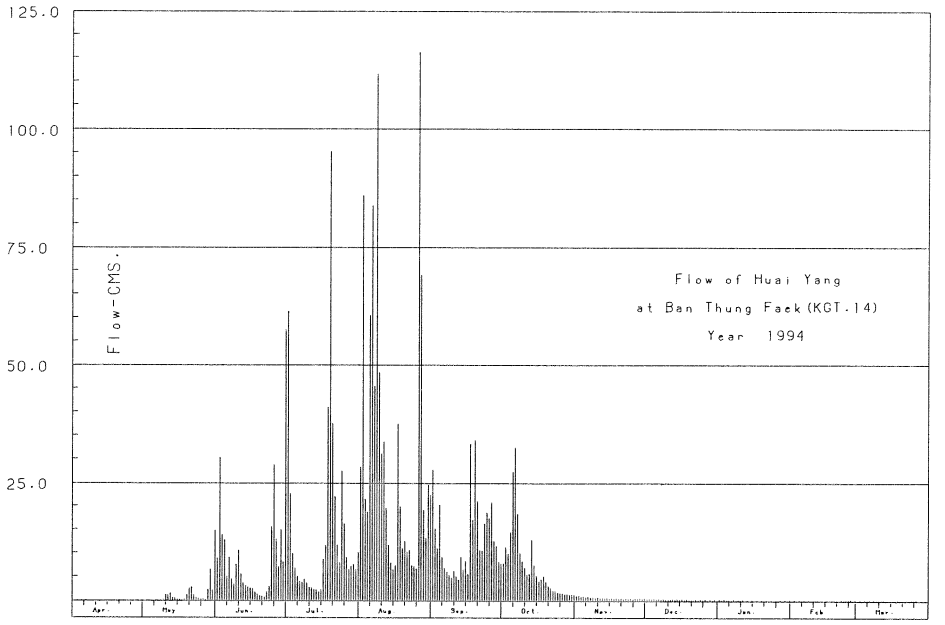
Huai Yang at Ban Thung Faek, Prachin Buri (Kgt.14)

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 72 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.81	34.79	35.75	37.44	36.48	36.46	35.68	35.13	34.95	34.89	34.85	34.84	
2	34.81	34.79	36.55	36.29	37.98	36.01	35.84	35.12	34.95	34.90	34.85	34.84	
3	34.79	34.78	35.95	35.79	36.25	35.83	35.78	35.10	34.96	34.90	34.84	34.84	
4	34.78	34.76	35.91	35.62	36.14	36.20	35.98	35.10	34.95	34.90	34.84	34.83	
5	34.78	34.76	35.51	35.52	37.42	35.75	36.45	35.08	34.94	34.90	34.84	34.83	
6	34.78	34.76	35.74	35.44	37.94	35.62	36.62	35.08	34.94	34.89	34.85	34.83	
7	34.77	34.76	35.48	35.43	37.01	35.58	36.13	35.06	34.93	34.89	34.85	34.84	
8	34.77	34.76	35.40	35.47	38.46	35.53	35.79	35.05	34.93	34.89	34.84	34.84	
9	34.76	34.89	35.66	35.42	37.10	35.50	35.70	35.04	34.93	34.88	34.84	34.83	
10	34.76	35.16	35.82	35.35	36.58	35.58	35.63	35.04	34.93	34.87	34.84	34.82	
11	34.76	35.13	35.55	35.33	36.66	35.51	35.53	35.03	34.93	34.86	34.83	34.82	
12	34.76	35.21	35.41	35.31	36.17	35.47	35.55	35.02	34.92	34.85	34.83	34.81	
13	34.75	35.04	35.38	35.29	35.86	35.75	35.91	35.02	34.92	34.84	34.83	34.81	
14	34.75	34.96	35.34	35.25	35.69	35.60	35.65	35.01	34.92	34.86	34.83	34.81	
15	34.75	34.92	35.33	35.30	35.60	35.70	35.52	35.00	34.92	34.85	34.83	34.80	
16	34.75	34.88	35.32	35.72	35.65	35.55	35.45	35.00	34.92	34.84	34.83	34.80	
17	34.75	34.86	35.24	35.86	36.78	36.65	35.47	34.99	34.91	34.84	34.84	34.80	
18	34.77	34.86	35.17	36.88	36.19	36.08	35.52	34.99	34.91	34.83	34.83	34.81	
19	34.84	35.16	35.13	38.17	35.83	36.67	35.43	34.99	34.90	34.83	34.83	34.82	
20	34.81	35.32	35.09	36.78	35.90	36.23	35.37	34.99	34.90	34.83	34.83	34.83	
21	34.80	35.35	35.07	36.27	35.80	35.82	35.33	34.98	34.90	34.83	34.83	34.83	
22	34.79	35.14	35.24	35.86	35.82	35.81	35.29	34.98	34.89	34.84	34.83	34.82	
23	34.78	35.05	35.36	35.69	35.66	36.05	35.26	34.98	34.89	34.84	34.86	34.82	
24	34.78	34.98	36.02	36.45	35.64	36.14	35.24	34.97	34.88	34.84	34.93	34.82	
25	34.77	34.94	36.50	36.05	35.62	36.09	35.22	34.96	34.88	34.84	34.88	34.82	
26	34.77	34.91	35.91	35.74	38.54	36.22	35.20	34.96	34.88	34.84	34.86	34.82	
27	34.77	34.87	35.64	35.61	37.62	35.90	35.19	34.96	34.88	34.84	34.84	34.81	
28	34.88	35.31	36.00	35.64	36.16	35.85	35.17	34.96	34.88	34.85	34.84	34.81	
29	34.82	35.61	35.69	35.67	35.92	35.70	35.17	34.96	34.88	34.85		34.81	
30	34.81	35.28	37.34	35.60	36.36	35.67	35.16	34.95	34.88	34.85		34.82	
31		35.99		35.80	36.28		35.15		34.88	34.85		34.83	
Mean	34.78	35.03	35.65	35.87	36.49	35.88	35.56	35.02	34.91	34.86	34.84	34.82	
Max	34.88	35.99	37.34	38.17	38.54	36.67	36.62	35.13	34.96	34.90	34.93	34.84	38.54
Min	34.75	34.76	35.07	35.25	35.60	35.47	35.15	34.95	34.88	34.83	34.83	34.80	34.75

Annual Max Momentary Gage Height 40.14 M (MSL), at 21.00 Hours, on Aug 26, 1994
Zero Gage at Bottom Elevation 34.60 M (MSL), River Bed 33.53 M (MSL)
Left Bank Elevation 41.28 M (MSL)
Right Bank Elevation 41.75 M (MSL), Drainage Area 366 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	0.18	9.00	61.60	28.40	27.80	8.04	1.18	0.50	0.38	0.30	0.28	
2	0.22	0.18	30.50	22.74	86.00	15.46	11.36	1.12	0.50	0.40	0.30	0.28	
3	0.18	0.16	14.00	10.20	21.70	11.12	10.00	1.00	0.52	0.40	0.28	0.28	
4	0.16	0.12	13.04	6.96	18.84	20.40	14.72	1.00	0.50	0.40	0.28	0.26	
5	0.16	0.12	5.16	5.32	60.80	9.40	27.50	0.92	0.48	0.40	0.28	0.26	
6	0.16	0.12	9.20	4.16	84.00	6.96	32.60	0.92	0.48	0.38	0.30	0.26	
7	0.14	0.12	4.72	4.02	45.54	6.28	18.58	0.84	0.46	0.38	0.30	0.28	
8	0.14	0.12	3.60	4.58	111.68	5.48	10.20	0.80	0.46	0.38	0.28	0.28	
9	0.12	0.38	7.68	3.88	48.60	5.00	8.40	0.76	0.46	0.36	0.28	0.26	
10	0.12	1.36	10.88	3.00	31.40	6.28	7.14	0.76	0.46	0.34	0.28	0.24	
11	0.12	1.18	5.80	2.76	33.80	5.16	5.48	0.72	0.46	0.32	0.26	0.24	
12	0.12	1.68	3.74	2.52	19.62	4.58	5.80	0.68	0.44	0.30	0.26	0.22	
13	0.10	0.76	3.36	2.32	11.84	9.40	13.04	0.68	0.44	0.28	0.26	0.22	
14	0.10	0.52	2.88	2.00	8.22	6.60	7.50	0.64	0.44	0.32	0.26	0.22	
15	0.10	0.44	2.76	2.40	6.60	8.40	5.32	0.60	0.44	0.30	0.26	0.20	
16	0.10	0.36	2.64	8.80	7.50	5.80	4.30	0.60	0.44	0.28	0.26	0.20	
17	0.10	0.32	1.92	11.84	37.72	33.50	4.58	0.58	0.42	0.28	0.28	0.20	
18	0.14	0.32	1.42	41.12	20.14	17.28	5.32	0.58	0.42	0.26	0.26	0.22	
19	0.28	1.36	1.18	95.50	11.12	34.10	4.02	0.58	0.40	0.26	0.26	0.24	
20	0.22	2.64	0.96	37.72	12.80	21.18	3.24	0.58	0.40	0.26	0.26	0.26	
21	0.20	3.00	0.88	22.22	10.40	10.88	2.76	0.56	0.40	0.26	0.26	0.26	
22	0.18	1.24	1.92	11.84	10.88	10.64	2.32	0.56	0.38	0.28	0.26	0.24	
23	0.16	0.80	3.12	8.22	7.68	16.50	2.08	0.56	0.38	0.28	0.32	0.24	
24	0.16	0.56	15.72	27.50	7.32	18.84	1.92	0.54	0.36	0.28	0.46	0.24	
25	0.14	0.48	29.00	16.50	6.96	17.54	1.76	0.52	0.36	0.28	0.36	0.24	
26	0.14	0.42	13.04	9.20	116.40	20.92	1.60	0.52	0.36	0.28	0.32	0.24	
27	0.14	0.34	7.32	6.78	69.12	12.80	1.54	0.52	0.36	0.28	0.28	0.22	
28	0.36	2.52	15.20	7.32	19.36	11.60	1.42	0.52	0.36	0.30	0.28	0.22	
29	0.24	6.78	8.22	7.86	13.28	8.40	1.42	0.52	0.36	0.30		0.22	
30	0.22	2.24	57.60	6.60	24.80	7.86	1.36	0.50	0.36	0.30		0.24	
31		14.96		10.40	22.48		1.30		0.36	0.30		0.26	
Total	4.94	45.78	286.46	467.88	1015.00	396.16	226.62	20.86	13.16	9.82	8.04	7.52	2502.24 CMSDAY
Mean	0.16	1.48	9.55	15.09	32.74	13.21	7.31	0.70	0.42	0.32	0.29	0.24	6.86 CMS
Max	0.36	14.96	57.60	95.50	116.40	34.10	32.60	1.18	0.52	0.40	0.46	0.28	116.40 CMS
Min	0.10	0.12	0.88	2.00	6.60	4.58	1.30	0.50	0.36	0.26	0.26	0.20	0.10 CMS
Runoff	0.427	3.955	24.750	40.425	87.696	34.228	19.580	1.802	1.137	0.848	0.695	0.650	216.194 MCM

Momentary Peak 237.60 CMS, at 40.14 M (MSL), at 21.00 Hours, on Aug 26, 1994
Runoff Yield 18.73 Liters/Second/Square KM, Momentary Peak Yield 649.18 Liters/Second/Square KM

WATER YEAR 1994

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.

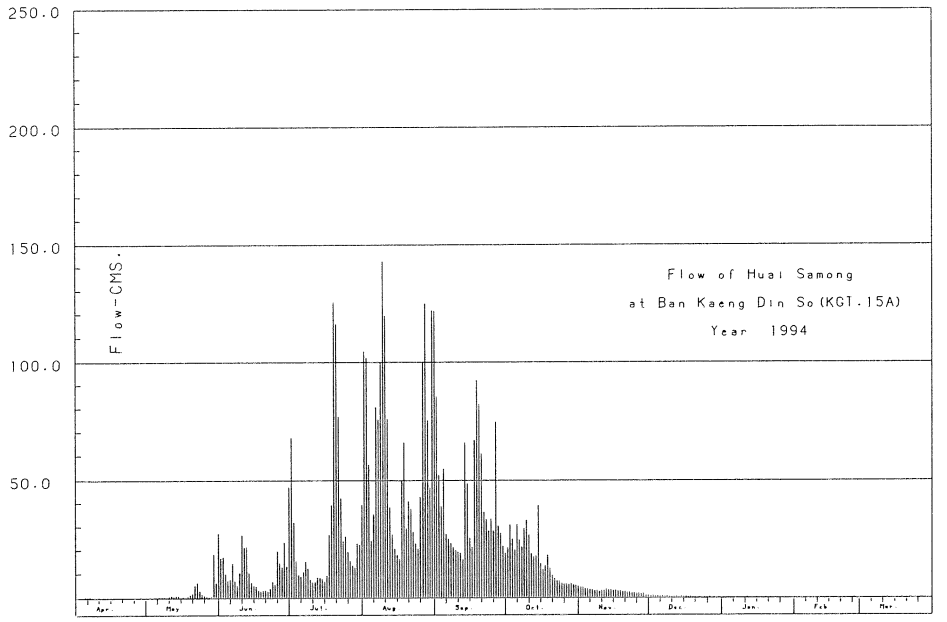
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 91 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.37	13.36	14.84	16.81	17.79	17.31	15.07	14.08	13.62	13.46	13.40	13.36	
2	13.37	13.36	14.88	15.55	17.73	16.28	15.51	14.06	13.61	13.45	13.40	13.36	
3	13.36	13.35	14.52	14.78	16.42	15.82	15.26	14.03	13.60	13.45	13.39	13.36	
4	13.43	13.35	14.29	14.50	15.21	16.36	15.03	14.01	13.59	13.45	13.39	13.36	
5	13.43	13.34	14.35	14.43	15.68	15.35	15.51	14.00	13.59	13.45	13.39	13.35	
6	13.41	13.34	14.73	14.56	17.19	15.25	15.23	13.96	13.59	13.44	13.38	13.35	
7	13.39	13.47	14.28	14.78	17.04	15.17	15.09	13.94	13.58	13.43	13.38	13.35	
8	13.37	13.43	14.13	14.62	17.67	15.07	15.44	13.92	13.57	13.43	13.38	13.35	
9	13.35	13.43	14.54	14.35	18.67	15.02	15.59	13.90	13.56	13.43	13.38	13.35	
10	13.35	13.49	15.34	14.23	18.15	14.97	15.34	13.92	13.55	13.43	13.38	13.35	
11	13.35	13.62	15.08	14.27	17.04	14.95	14.95	13.95	13.55	13.43	13.38	13.35	
12	13.35	13.53	15.08	14.40	15.81	14.83	14.87	13.99	13.55	13.43	13.37	13.35	
13	13.35	13.57	14.53	14.41	15.34	16.73	14.90	13.96	13.54	13.43	13.37	13.35	
14	13.35	13.58	14.24	14.36	15.05	16.16	15.84	13.95	13.55	13.43	13.37	13.34	
15	13.35	13.51	14.11	14.28	14.92	15.28	14.73	13.94	13.55	13.43	13.37	13.34	
16	13.35	13.47	14.09	14.46	14.82	15.07	14.61	13.94	13.55	13.42	13.37	13.34	
17	13.35	13.44	13.95	15.34	16.19	16.77	14.68	13.91	13.54	13.42	13.37	13.34	
18	13.35	13.55	13.87	15.84	16.73	17.49	14.92	13.90	13.53	13.42	13.36	13.34	
19	13.35	13.69	13.95	18.28	15.45	17.22	14.63	13.89	13.52	13.41	13.36	13.36	
20	13.35	13.74	13.94	18.08	15.90	16.57	14.49	13.87	13.51	13.41	13.36	13.36	
21	13.35	14.12	13.87	17.07	15.78	15.73	14.37	13.85	13.51	13.41	13.36	13.35	
22	13.35	14.24	14.03	15.95	15.38	15.60	14.31	13.84	13.50	13.41	13.36	13.35	
23	13.34	13.92	14.27	15.20	15.16	15.40	14.29	13.81	13.49	13.41	13.36	13.35	
24	13.33	13.69	14.15	15.31	15.04	15.60	14.22	13.79	13.48	13.41	13.36	13.35	
25	13.39	13.60	15.00	14.99	15.96	15.40	14.20	13.78	13.48	13.41	13.36	13.35	
26	13.36	13.55	14.74	14.79	17.68	17.01	14.18	13.77	13.48	13.41	13.36	13.35	
27	13.36	13.51	14.66	14.70	18.27	15.49	14.18	13.75	13.48	13.41	13.36	13.34	
28	13.40	13.52	15.18	14.64	17.03	15.36	14.19	13.74	13.47	13.41	13.36	13.34	
29	13.38	14.94	14.68	15.15	16.09	15.10	14.16	13.66	13.47	13.41		13.33	
30	13.36	14.23	16.10	15.14	18.20	14.96	14.13	13.62	13.47	13.41		13.33	
31		15.36		15.85	18.20		14.10		13.46	13.40		13.33	
Mean	13.37	13.69	14.51	15.20	16.50	15.78	14.77	13.89	13.53	13.42	13.37	13.35	
Max	13.43	15.36	16.10	18.28	18.67	17.49	15.84	14.08	13.62	13.46	13.40	13.36	18.67
Min	13.33	13.34	13.87	14.23	14.82	14.83	14.10	13.62	13.46	13.40	13.36	13.33	13.33

Annual Max Momentary Gage Height 18.84 M (MSL), at 16.00 Hours, on Aug 9, 1994
Zero Gage at Bottom Elevation 12.80 M (MSL), River Bed 12.29 M (MSL)
Left Bank Elevation 24.40 M (MSL)
Right Bank Elevation 22.25 M (MSL), Drainage Area 530 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.34	0.32	16.80	68.30	104.60	85.40	21.40	4.76	1.12	0.52	0.40	0.32	
2	0.34	0.32	17.60	32.25	102.20	52.40	31.25	4.52	1.06	0.50	0.40	0.32	
3	0.32	0.30	10.40	15.60	56.60	39.00	25.20	4.16	1.00	0.50	0.38	0.32	
4	0.46	0.30	7.28	10.00	24.20	54.80	20.60	3.92	0.96	0.50	0.38	0.32	
5	0.46	0.28	8.00	9.02	35.50	27.25	31.25	3.80	0.96	0.50	0.38	0.30	
6	0.42	0.28	14.60	11.20	81.15	25.00	24.60	3.48	0.96	0.48	0.36	0.30	
7	0.38	0.54	7.16	15.60	75.90	23.40	21.80	3.32	0.92	0.46	0.36	0.30	
8	0.34	0.46	5.36	12.40	99.80	21.40	29.50	3.16	0.88	0.46	0.36	0.30	
9	0.30	0.46	10.80	8.00	143.15	20.40	33.25	3.00	0.84	0.46	0.36	0.30	
10	0.30	0.58	27.00	6.56	119.75	19.40	27.00	3.16	0.80	0.46	0.36	0.30	
11	0.30	1.12	21.60	7.04	75.90	19.00	19.00	3.40	0.80	0.46	0.36	0.30	
12	0.30	0.72	21.60	8.60	38.75	16.60	17.40	3.72	0.80	0.46	0.34	0.30	
13	0.30	0.88	10.60	8.74	27.00	65.90	18.00	3.48	0.76	0.46	0.34	0.30	
14	0.30	0.92	6.68	8.12	21.00	48.80	39.50	3.40	0.80	0.46	0.34	0.28	
15	0.30	0.64	5.12	7.16	18.40	25.60	14.60	3.32	0.80	0.46	0.34	0.28	
16	0.30	0.54	4.88	9.44	16.40	21.40	12.20	3.32	0.80	0.44	0.34	0.28	
17	0.30	0.48	3.40	27.00	49.70	67.10	13.60	3.08	0.76	0.44	0.34	0.28	
18	0.30	0.80	2.76	39.50	65.90	92.60	18.40	3.00	0.72	0.44	0.32	0.28	
19	0.30	1.54	3.40	125.60	29.75	82.20	12.60	2.92	0.68	0.42	0.32	0.32	
20	0.30	1.84	3.32	116.60	41.00	61.10	9.86	2.76	0.64	0.42	0.32	0.32	
21	0.30	5.24	2.76	76.95	38.00	36.75	8.24	2.60	0.64	0.42	0.32	0.30	
22	0.30	6.68	4.16	42.50	28.00	33.50	7.52	2.52	0.60	0.42	0.32	0.30	
23	0.28	3.16	7.04	24.00	23.20	28.50	7.28	2.28	0.58	0.42	0.32	0.30	
24	0.26	1.54	5.60	26.25	20.80	33.50	6.44	2.14	0.56	0.42	0.32	0.30	
25	0.38	1.00	20.00	19.80	42.80	28.50	6.20	2.08	0.56	0.42	0.32	0.30	
26	0.32	0.80	14.80	15.80	100.20	74.85	5.96	2.02	0.56	0.42	0.32	0.30	
27	0.32	0.64	13.20	14.00	125.15	30.75	5.96	1.90	0.56	0.42	0.32	0.28	
28	0.40	0.68	23.60	12.80	75.55	27.50	6.08	1.84	0.54	0.42	0.32	0.28	
29	0.36	18.80	13.60	23.00	46.70	22.00	5.72	1.36	0.54	0.42		0.26	
30	0.32	6.56	47.00	22.80	122.00	19.20	5.36	1.12	0.54	0.42		0.26	
31		27.50		39.75	122.00		5.00		0.52	0.40		0.26	
Total	9.90	85.92	360.12	864.38	1971.05	1203.80	510.77	89.54	23.26	13.90	9.66	9.16	5151.46 CMSDAY
Mean	0.33	2.77	12.00	27.88	63.58	40.13	16.48	2.98	0.75	0.45	0.35	0.30	14.11 CMS
Max	0.46	27.50	47.00	125.60	143.15	92.60	39.50	4.76	1.12	0.52	0.40	0.32	143.15 CMS
Min	0.26	0.28	2.76	6.56	16.40	16.60	5.00	1.12	0.52	0.40	0.32	0.26	0.26 CMS
Runoff	0.855	7.423	31.114	74.682	170.299	104.008	44.131	7.736	2.010	1.201	0.835	0.791	445.086 MCM

Momentary Peak 150.80 CMS, at 18.84 M (MSL), at 16.00 Hours, on Aug 9, 1994

Runoff Yield 26.63 Liters/Second/Square KM, Momentary Peak Yield 284.53 Liters/Second/Square KM

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

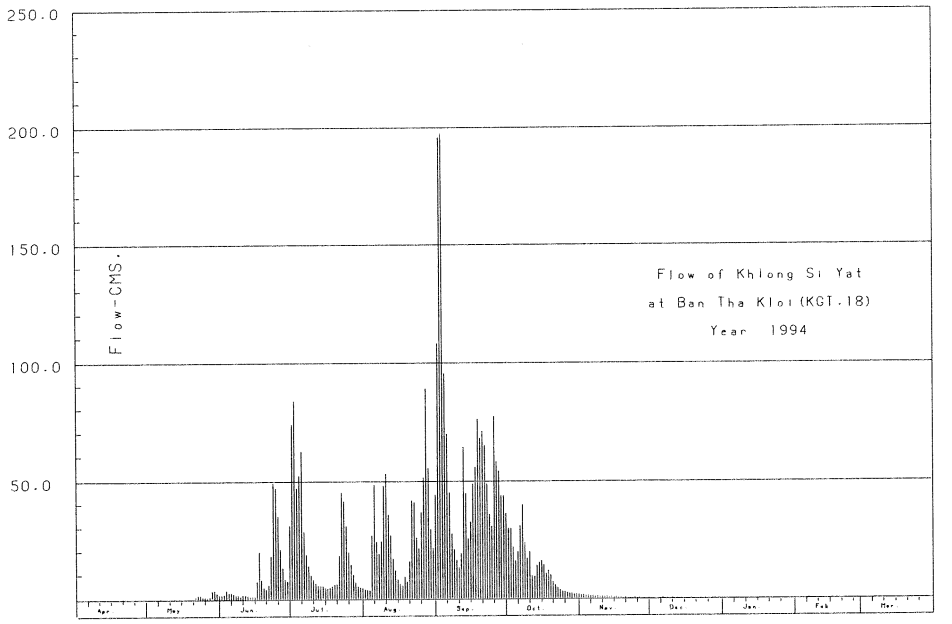
Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt.18)

Location	Lat. 13°-28'-29" N., Long. 101°-37'-44" E., on left bank at Ban Tha Kloi, King Amphoe Tha 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	Under the coconut tree infront of the station office.
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	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +41.02 m.(M.S.L.) and is included.
General Description	Records good. Stage-discharge relation defined by 77 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.13	35.08	35.80	39.55	36.29	40.30	38.02	35.78	35.37	35.22	35.16	35.12	
2	35.12	35.08	35.90	39.80	36.22	41.28	38.03	35.76	35.35	35.21	35.16	35.11	
3	35.13	35.07	36.19	38.73	36.22	41.29	37.60	35.73	35.35	35.21	35.16	35.11	
4	35.16	35.06	36.06	38.90	37.87	40.05	37.26	35.71	35.34	35.20	35.16	35.11	
5	35.17	35.06	36.05	39.23	38.78	39.43	37.50	35.70	35.34	35.20	35.16	35.11	
6	35.16	35.05	35.94	37.97	37.73	38.66	38.07	35.66	35.32	35.20	35.15	35.10	
7	35.15	35.08	35.84	37.43	37.45	37.92	38.47	35.64	35.33	35.18	35.15	35.10	
8	35.14	35.06	35.78	37.12	37.74	37.54	37.70	35.62	35.32	35.18	35.14	35.10	
9	35.13	35.05	35.70	36.87	38.76	37.28	37.31	35.60	35.31	35.18	35.14	35.10	
10	35.12	35.05	35.83	36.70	38.94	37.08	37.50	35.58	35.31	35.18	35.16	35.10	
11	35.12	35.06	35.85	36.57	38.30	37.44	36.82	35.56	35.30	35.18	35.16	35.10	
12	35.09	35.06	35.75	36.49	37.88	39.27	36.82	35.55	35.29	35.18	35.16	35.09	
13	35.08	35.06	35.68	36.45	37.32	38.65	37.13	35.52	35.28	35.18	35.16	35.09	
14	35.07	35.05	35.63	36.47	37.00	37.80	37.20	35.53	35.28	35.16	35.16	35.08	
15	35.07	35.06	35.62	36.38	36.72	38.16	37.26	35.51	35.26	35.16	35.16	35.08	
16	35.06	35.06	36.66	36.30	36.54	38.78	37.14	35.50	35.26	35.16	35.16	35.07	
17	35.07	35.06	37.50	36.39	36.49	39.02	36.91	35.48	35.25	35.16	35.15	35.08	
18	35.35	35.06	36.70	36.44	36.82	39.61	36.99	35.46	35.25	35.15	35.14	35.13	
19	35.38	35.36	36.40	36.54	36.63	39.38	36.86	35.45	35.24	35.13	35.14	35.13	
20	35.34	35.48	36.27	36.53	37.25	39.46	36.62	35.44	35.23	35.12	35.13	35.12	
21	35.25	35.60	36.52	37.39	38.53	39.30	36.47	35.43	35.23	35.11	35.12	35.12	
22	35.18	35.82	37.40	38.67	38.51	38.78	36.36	35.42	35.22	35.10	35.13	35.12	
23	35.15	35.77	38.80	38.52	37.82	38.30	36.22	35.41	35.24	35.12	35.13	35.12	
24	35.13	35.62	38.73	38.08	37.57	38.06	36.13	35.41	35.24	35.12	35.15	35.12	
25	35.17	35.55	38.26	37.48	38.34	39.64	36.07	35.39	35.24	35.12	35.15	35.12	
26	35.18	35.49	37.55	37.17	38.87	39.09	36.02	35.39	35.23	35.10	35.14	35.12	
27	35.14	35.62	37.08	36.88	39.92	38.97	35.97	35.39	35.23	35.11	35.14	35.12	
28	35.15	36.20	36.72	36.61	39.01	38.60	35.93	35.38	35.22	35.11	35.12	35.12	
29	35.12	36.20	36.67	36.45	38.02	38.61	35.89	35.38	35.22	35.18		35.12	
30	35.09	36.02	38.08	36.38	37.58	38.30	35.86	35.36	35.22	35.18		35.12	
31		35.80		36.34	38.62		35.82		35.22	35.17		35.13	
Mean	35.15	35.34	36.57	37.32	37.73	38.87	36.90	35.52	35.27	35.16	35.15	35.11	
Max	35.38	36.20	38.80	39.80	39.92	41.29	38.47	35.78	35.37	35.22	35.16	35.13	41.29
Min	35.06	35.05	35.62	36.30	36.22	37.08	35.82	35.36	35.22	35.10	35.12	35.07	35.05

Annual Max Momentary Gage Height 41.44 M (MSL), at 1.00 Hours, on Sep 3, 1994
Zero Gage at Bottom Elevation 34.20 M (MSL), River Bed 33.19 M (MSL)
Left Bank Elevation 41.63 M (MSL)
Right Bank Elevation 41.01 M (MSL), Drainage Area 951 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.08	1.70	74.25	4.33	108.50	29.92	1.62	0.44	0.22	0.16	0.12	
2	0.12	0.08	2.10	84.00	3.84	195.88	30.13	1.54	0.40	0.21	0.16	0.11	
3	0.13	0.07	3.64	47.27	3.84	197.44	22.00	1.42	0.40	0.21	0.16	0.11	
4	0.16	0.06	2.90	52.30	26.93	95.55	16.36	1.34	0.38	0.20	0.16	0.11	
5	0.17	0.06	2.85	62.85	48.72	69.88	20.20	1.30	0.38	0.20	0.16	0.11	
6	0.16	0.05	2.30	28.90	24.34	45.28	30.97	1.18	0.34	0.20	0.15	0.10	
7	0.15	0.08	1.86	19.08	19.40	27.90	40.25	1.12	0.36	0.18	0.15	0.10	
8	0.14	0.06	1.62	14.12	24.52	20.92	23.80	1.06	0.34	0.18	0.14	0.10	
9	0.13	0.05	1.30	10.38	48.14	16.68	17.16	1.00	0.32	0.18	0.14	0.10	
10	0.12	0.05	1.82	8.20	53.54	13.48	20.20	0.94	0.32	0.18	0.16	0.10	
11	0.12	0.06	1.90	6.72	36.10	19.24	9.68	0.88	0.30	0.18	0.16	0.10	
12	0.09	0.06	1.50	5.96	27.12	64.25	9.68	0.85	0.29	0.18	0.16	0.09	
13	0.08	0.06	1.24	5.57	17.32	45.00	14.28	0.76	0.28	0.18	0.16	0.09	
14	0.07	0.05	1.09	5.77	12.20	25.60	15.40	0.79	0.28	0.16	0.16	0.08	
15	0.07	0.06	1.06	4.96	8.44	32.92	16.36	0.73	0.26	0.16	0.16	0.08	
16	0.06	0.06	7.72	4.40	6.43	48.72	14.44	0.70	0.26	0.16	0.16	0.07	
17	0.07	0.06	20.20	5.03	5.96	56.04	10.94	0.66	0.25	0.16	0.15	0.08	
18	0.40	0.06	8.20	5.48	9.68	76.48	12.06	0.62	0.25	0.15	0.14	0.13	
19	0.46	0.42	5.10	6.43	7.36	68.10	10.24	0.60	0.24	0.13	0.14	0.13	
20	0.38	0.66	4.19	6.33	16.20	70.96	7.24	0.58	0.23	0.12	0.13	0.12	
21	0.25	1.00	6.24	18.44	41.78	65.30	5.77	0.56	0.23	0.11	0.12	0.12	
22	0.18	1.78	18.60	45.56	41.26	48.72	4.82	0.54	0.22	0.10	0.13	0.12	
23	0.15	1.58	49.30	41.52	25.98	36.10	3.84	0.52	0.24	0.12	0.13	0.12	
24	0.13	1.06	47.27	31.18	21.46	30.76	3.28	0.52	0.24	0.12	0.15	0.12	
25	0.17	0.85	35.18	19.88	37.06	77.62	2.95	0.48	0.24	0.12	0.15	0.12	
26	0.18	0.68	21.10	14.92	51.40	58.28	2.70	0.48	0.23	0.10	0.14	0.12	
27	0.14	1.06	13.48	10.52	89.34	54.47	2.45	0.48	0.23	0.11	0.14	0.12	
28	0.15	3.70	8.44	7.12	55.72	43.60	2.25	0.46	0.22	0.11	0.12	0.12	
29	0.12	3.70	7.84	5.57	29.92	43.88	2.06	0.46	0.22	0.18		0.12	
30	0.09	2.70	31.18	4.96	21.64	36.10	1.94	0.42	0.22	0.18		0.12	
31		1.70		4.68	44.16		1.78		0.22	0.17		0.13	
Total	4.77	22.00	312.92	662.35	864.13	1793.65	405.15	24.61	8.83	4.96	4.14	3.36	4110.87 CMSDAY
Mean	0.16	0.71	10.43	21.37	27.88	59.79	13.07	0.82	0.28	0.16	0.15	0.11	11.26 CMS
Max	0.46	3.70	49.30	84.00	89.34	197.44	40.25	1.62	0.44	0.22	0.16	0.13	197.44 CMS
Min	0.06	0.05	1.06	4.40	3.84	13.48	1.78	0.42	0.22	0.10	0.12	0.07	0.05 CMS
Runoff	0.412	1.901	27.036	57.227	74.661	154.971	35.005	2.126	0.763	0.429	0.358	0.290	355.179 MCM

Momentary Peak 222.60 CMS, at 41.44 M (MSL), at 1.00 Hours, on Sep 3, 1994

Runoff Yield 11.84 Liters/Second/Square KM, Momentary Peak Yield 234.07 Liters/Second/Square KM

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

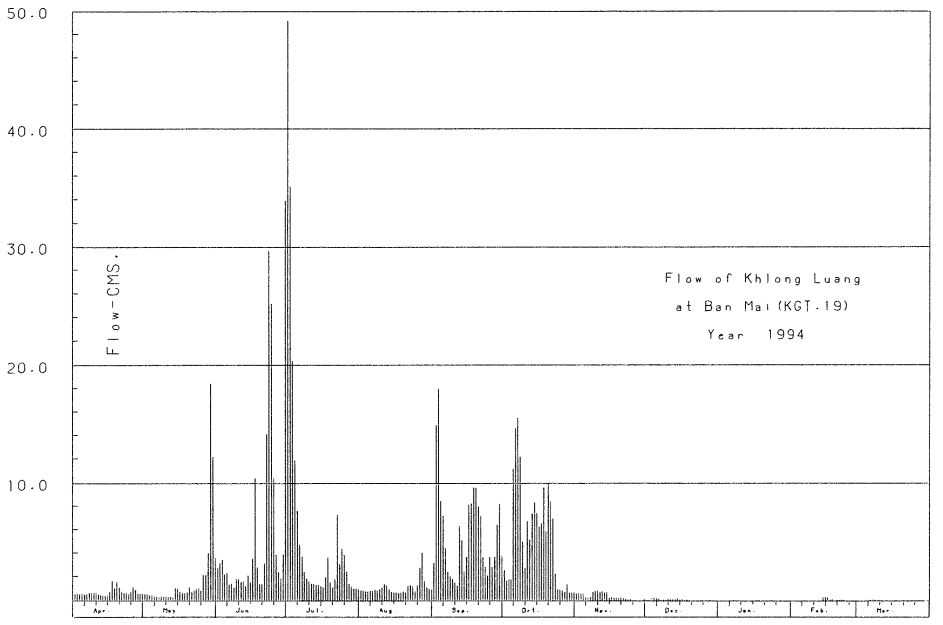
Khlong Luang at Ban Mai, Chon Buri (Kgt.19)

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	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +22.98 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 52 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.05	21.04	21.78	25.51	21.20	21.86	21.74	21.07	20.70	20.64	20.55	20.56	
2	21.05	21.01	21.85	25.05	21.18	23.40	21.52	21.06	20.76	20.64	20.54	20.56	
3	21.04	20.97	21.92	23.99	21.16	23.75	21.58	21.05	20.82	20.64	20.53	20.51	
4	21.03	20.96	21.66	23.05	21.12	22.62	21.56	21.04	20.84	20.64	20.52	20.51	
5	21.02	20.93	21.69	22.52	21.17	22.47	22.97	20.90	20.80	20.64	20.52	20.54	
6	21.01	20.90	21.42	22.12	21.15	22.08	23.38	20.82	20.74	20.64	20.49	20.67	
7	21.09	20.88	21.44	21.97	21.22	21.71	23.47	20.92	20.72	20.64	20.48	20.75	
8	21.07	20.92	21.31	21.70	21.16	21.63	23.09	21.13	20.71	20.64	20.48	20.68	
9	21.11	20.91	21.58	21.60	21.24	21.59	22.16	21.16	20.72	20.64	20.48	20.70	
10	21.08	20.91	21.56	21.50	21.29	21.47	21.78	21.16	20.74	20.64	20.48	20.62	
11	21.03	20.91	21.51	21.45	21.44	21.40	22.41	21.13	20.76	20.64	20.48	20.54	
12	20.99	20.89	21.51	21.44	21.38	22.35	22.18	21.12	20.74	20.64	20.49	20.51	
13	20.95	20.84	21.35	21.42	21.25	22.18	22.49	21.11	20.76	20.64	20.76	20.48	
14	20.96	21.29	21.65	21.40	21.11	21.71	22.61	21.09	20.76	20.64	20.88	20.48	
15	20.97	21.25	21.49	21.37	21.11	21.97	22.49	20.87	20.73	20.61	20.91	20.48	
16	21.12	21.13	21.93	21.30	21.08	22.58	22.34	20.87	20.69	20.60	20.82	20.48	
17	21.53	21.08	22.87	21.62	21.07	22.60	22.38	20.85	20.68	20.64	20.74	20.48	
18	21.28	21.06	21.78	21.95	21.07	22.77	22.77	20.83	20.69	20.64	20.70	20.48	
19	21.49	21.11	21.44	21.47	21.15	22.76	22.28	20.82	20.69	20.64	20.65	20.47	
20	21.32	21.30	21.43	21.33	21.08	22.57	22.81	20.82	20.68	20.64	20.71	20.44	
21	21.12	21.12	21.86	21.57	21.36	22.46	22.62	20.81	20.64	20.64	20.72	20.44	
22	21.08	21.18	23.32	22.48	21.41	21.96	22.44	20.78	20.64	20.64	20.72	20.44	
23	21.07	21.22	24.74	21.84	21.34	21.79	21.68	20.74	20.64	20.64	20.68	20.44	
24	21.04	21.29	24.40	22.07	21.15	21.65	21.24	20.70	20.64	20.64	20.64	20.42	
25	21.12	21.17	22.87	22.00	21.39	21.96	21.20	20.66	20.64	20.60	20.60	20.40	
26	21.31	21.66	22.00	21.72	21.78	21.79	21.16	20.64	20.64	20.61	20.58	20.40	
27	21.21	21.66	21.71	21.45	22.03	21.97	21.13	20.64	20.63	20.62	20.56	20.39	
28	21.06	22.02	21.59	21.33	21.52	22.37	21.43	20.64	20.63	20.62	20.56	20.38	
29	21.03	23.80	22.01	21.27	21.32	22.59	21.10	20.67	20.64	20.59		20.38	
30	21.03	23.09	24.98	21.25	21.24	21.97	21.08	20.69	20.65	20.58		20.39	
31		21.94		21.22	21.23		21.10		20.66	20.56		20.40	
Mean	21.11	21.30	22.09	22.00	21.27	22.20	22.07	20.89	20.70	20.63	20.62	20.50	
Max	21.53	23.80	24.98	25.51	22.03	23.75	23.47	21.16	20.84	20.64	20.91	20.75	25.51
Min	20.95	20.84	21.31	21.22	21.07	21.40	21.08	20.64	20.63	20.56	20.48	20.38	20.38

Annual Max Momentary Gage Height 25.62 M (MSL), at 23.00 Hours, on Jun 30, 1994
Zero Gage at Bottom Elevation 20.12 M (MSL), River Bed 20.65 M (MSL)
Left Bank Elevation 22.97 M (MSL)
Right Bank Elevation 23.60 M (MSL), Drainage Area 535 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.58	2.80	49.23	0.90	3.20	2.60	0.64	0.10	0.04	0.00	0.00	
2	0.60	0.52	3.15	35.20	0.86	14.90	1.66	0.62	0.16	0.04	0.00	0.00	
3	0.58	0.44	3.50	20.39	0.82	18.05	1.84	0.60	0.22	0.04	0.00	0.00	
4	0.56	0.42	2.20	11.90	0.74	8.46	1.78	0.58	0.24	0.04	0.00	0.00	
5	0.54	0.36	2.35	7.66	0.84	7.26	11.26	0.30	0.20	0.04	0.00	0.00	
6	0.52	0.30	1.36	4.74	0.80	4.46	14.72	0.22	0.14	0.04	0.00	0.07	
7	0.68	0.28	1.42	3.75	0.94	2.45	15.53	0.34	0.12	0.04	0.00	0.15	
8	0.64	0.34	1.12	2.40	0.82	2.05	12.22	0.76	0.11	0.04	0.00	0.08	
9	0.72	0.32	1.84	1.90	0.98	1.87	5.02	0.82	0.12	0.04	0.00	0.10	
10	0.66	0.32	1.78	1.60	1.08	1.51	2.80	0.82	0.14	0.04	0.00	0.02	
11	0.56	0.32	1.63	1.45	1.42	1.30	6.78	0.76	0.16	0.04	0.00	0.00	
12	0.48	0.29	1.63	1.42	1.26	6.35	5.16	0.74	0.14	0.04	0.00	0.00	
13	0.40	0.24	1.20	1.36	1.00	5.16	7.42	0.72	0.16	0.04	0.16	0.00	
14	0.42	1.08	2.15	1.30	0.72	2.45	8.38	0.68	0.16	0.04	0.28	0.00	
15	0.44	1.00	1.57	1.24	0.72	3.75	7.42	0.27	0.13	0.01	0.32	0.00	
16	0.74	0.76	3.55	1.10	0.66	8.14	6.28	0.27	0.09	0.00	0.22	0.00	
17	1.69	0.66	10.46	2.00	0.64	8.30	6.56	0.25	0.08	0.04	0.14	0.00	
18	1.06	0.62	2.80	3.65	0.64	9.66	9.66	0.23	0.09	0.04	0.10	0.00	
19	1.57	0.72	1.42	1.51	0.80	9.58	5.86	0.22	0.09	0.04	0.05	0.00	
20	1.14	1.10	1.39	1.16	0.66	8.06	9.98	0.22	0.08	0.04	0.11	0.00	
21	0.74	0.74	3.20	1.81	1.22	7.18	8.46	0.21	0.04	0.04	0.12	0.00	
22	0.66	0.86	14.18	7.34	1.33	3.70	7.02	0.18	0.04	0.04	0.12	0.00	
23	0.64	0.94	29.74	3.10	1.18	2.85	2.30	0.14	0.04	0.04	0.08	0.00	
24	0.58	1.08	25.30	4.39	0.80	2.15	0.98	0.10	0.04	0.04	0.04	0.00	
25	0.74	0.84	10.46	3.90	1.28	3.70	0.90	0.06	0.04	0.00	0.00	0.00	
26	1.12	2.20	3.90	2.50	2.80	2.85	0.82	0.04	0.04	0.01	0.00	0.00	
27	0.92	2.20	2.45	1.45	4.11	3.75	0.76	0.04	0.03	0.02	0.00	0.00	
28	0.62	4.04	1.87	1.16	1.66	6.49	1.39	0.04	0.03	0.02	0.00	0.00	
29	0.56	18.50	3.97	1.04	1.14	8.22	0.70	0.07	0.04	0.00		0.00	
30	0.56	12.22	33.94	1.00	0.98	3.75	0.66	0.09	0.05	0.00		0.00	
31		3.60		0.94	0.96		0.70		0.06	0.00		0.00	
Total	21.74	57.89	178.33	183.59	34.76	171.60	167.62	11.03	3.18	0.94	1.74	0.42	832.84 CMSDAY
Mean	0.72	1.87	5.94	5.92	1.12	5.72	5.41	0.37	0.10	0.03	0.06	0.01	2.28 CMS
Max	1.69	18.50	33.94	49.23	4.11	18.05	15.53	0.82	0.24	0.04	0.32	0.15	49.23 CMS
Min	0.40	0.24	1.12	0.94	0.64	1.30	0.66	0.04	0.03	0.00	0.00	0.00	0.00 CMS
Runoff	1.878	5.002	15.408	15.862	3.003	14.826	14.482	0.953	0.275	0.081	0.150	0.036	71.957 MCM

Momentary Peak 55.50 CMS, at 25.62 M (MSL), at 23.00 Hours, on Jun 30, 1994
Runoff Yield 4.26 Liters/Second/Square KM, Momentary Peak Yield 103.74 Liters/Second/Square KM

WATER YEAR 1994

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, Tambon Na Hin Lat, 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 — Stable.

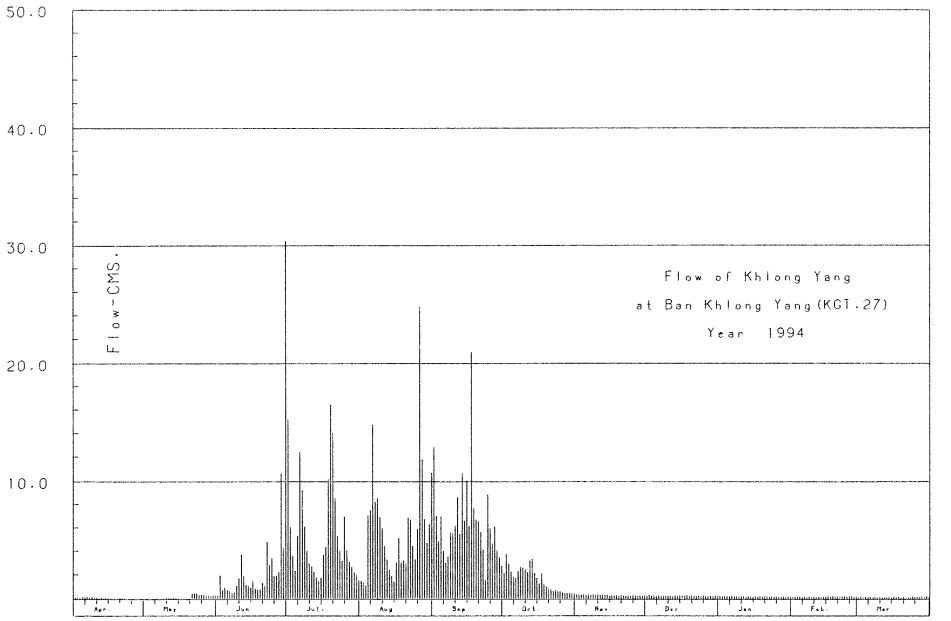
Overbank Flow Conditions — Overbank flow starts at elevation + 15.07 m.(M.S.L.),records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 57 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.67	11.48	11.77	13.44	12.22	13.27	12.29	11.90	11.78	11.76	11.70	11.70	
2	11.67	11.49	12.27	12.68	12.20	12.78	12.45	11.88	11.84	11.76	11.70	11.69	
3	11.67	11.50	12.06	12.44	12.16	12.56	12.37	11.89	11.80	11.76	11.70	11.69	
4	11.68	11.50	12.11	12.31	12.78	12.77	12.30	11.88	11.78	11.76	11.70	11.69	
5	11.67	11.49	12.07	12.61	12.83	12.48	12.26	11.86	11.76	11.76	11.69	11.68	
6	11.67	11.48	12.03	13.24	13.41	12.38	12.24	11.86	11.78	11.75	11.69	11.68	
7	11.67	11.47	11.96	12.98	12.90	12.43	12.31	11.87	11.77	11.74	11.69	11.68	
8	11.67	11.49	11.97	12.69	12.92	12.64	12.34	11.87	11.77	11.74	11.69	11.68	
9	11.65	11.54	12.15	12.48	12.77	12.63	12.34	11.86	11.77	11.73	11.69	11.68	
10	11.64	11.57	12.24	12.37	12.67	12.69	12.32	11.86	11.77	11.72	11.69	11.68	
11	11.63	11.61	12.45	12.35	12.52	12.93	12.30	11.86	11.77	11.71	11.69	11.68	
12	11.62	11.61	12.26	12.30	12.41	12.62	12.40	11.85	11.77	11.71	11.69	11.68	
13	11.61	11.60	12.17	12.25	12.32	13.10	12.41	11.85	11.77	11.72	11.68	11.68	
14	11.60	11.59	12.14	12.21	12.26	12.74	12.29	11.84	11.78	11.72	11.68	11.67	
15	11.59	11.58	12.12	12.25	12.21	13.05	12.24	11.79	11.79	11.72	11.71	11.67	
16	11.59	11.58	12.21	12.45	12.38	12.69	12:18	11.81	11.79	11.72	11.72	11.67	
17	11.58	11.57	12.10	12.51	12.59	13.85	12.29	11.80	11.80	11.72	11.73	11.67	
18	11.57	11.58	12.05	13.06	12.38	12.84	12.17	11.80	11.80	11.72	11.73	11.67	
19	11.57	11.62	12.08	13.53	12.40	12.75	12.14	11.78	11.78	11.72	11.72	11.67	
20	11.57	11.67	12.20	13.36	12.37	12.73	12.10	11.79	11.78	11.72	11.72	11.67	
21	11.56	11.95	12.14	12.92	12.76	12.64	12.07	11.79	11.78	11.71	11.73	11.67	
22	11.55	11.95	12.56	12.61	12.75	12.49	12.03	11.78	11.78	11.71	11.73	11.67	
23	11.54	11.92	12.36	12.48	12.52	12.22	12.04	11.78	11.76	11.71	11.72	11.67	
24	11.53	11.87	12.42	12.40	12.41	12.95	12.03	11.78	11.75	11.71	11.72	11.71	
25	11.54	11.84	12.26	12.77	12.67	12.67	12.01	11.78	11.76	11.71	11.72	11.71	
26	11.54	11.82	12.26	12.48	14.10	12.54	11.98	11.78	11.76	11.70	11.72	11.71	
27	11.54	11.79	12.30	12.39	13.20	12.69	11.97	11.78	11.76	11.71	11.71	11.71	
28	11.54	11.78	13.10	12.34	12.75	12.48	11.95	11.78	11.76	11.71	11.71	11.71	
29	11.54	11.77	12.50	12.30	12.55	12.43	11.96	11.78	11.76	11.71		11.71	
30	11.54	11.79	14.44	12.27	12.71	12.35	11.94	11.78	11.76	11.71		11.72	
31		11.83		12.22	13.10		11.92		11.76	11.71		11.75	
Mean	11.60	11.66	12.29	12.60	12.65	12.71	12.18	11.82	11.78	11.72	11.71	11.69	
Max	11.68	11.95	14.44	13.53	14.10	13.85	12.45	11.90	11.84	11.76	11.73	11.75	14.44
Min	11.53	11.47	11.77	12.21	12.16	12.22	11.92	11.78	11.75	11.70	11.68	11.67	11.47

Annual Max Momentary Gage Height 15.86 M (MSL), at 12.00 Hours, on Jun 30, 1994
Zero Gage at Bottom Elevation 11.50 M (MSL), River Bed 11.00 M (MSL)
Left Bank Elevation 16.09 M (MSL)
Right Bank Elevation 15.06 M (MSL), Drainage Area 45 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.00	0.27	15.26	1.58	12.88	2.21	0.40	0.28	0.26	0.20	0.20	
2	0.17	0.00	2.03	6.10	1.40	7.10	3.80	0.38	0.34	0.26	0.20	0.19	
3	0.17	0.00	0.78	3.70	1.20	4.90	3.00	0.39	0.30	0.26	0.20	0.19	
4	0.18	0.00	0.95	2.40	7.10	7.00	2.30	0.38	0.28	0.26	0.20	0.19	
5	0.17	0.00	0.81	5.40	7.60	4.10	1.94	0.36	0.26	0.26	0.19	0.18	
6	0.17	0.00	0.69	12.46	14.84	3.10	1.76	0.36	0.28	0.25	0.19	0.18	
7	0.17	0.00	0.52	9.26	8.30	3.60	2.40	0.37	0.27	0.24	0.19	0.18	
8	0.17	0.00	0.54	6.20	8.54	5.70	2.70	0.37	0.27	0.24	0.19	0.18	
9	0.15	0.04	1.15	4.10	7.00	5.60	2.70	0.36	0.27	0.23	0.19	0.18	
10	0.14	0.07	1.76	3.00	6.00	6.20	2.50	0.36	0.27	0.22	0.19	0.18	
11	0.13	0.11	3.80	2.80	4.50	8.66	2.30	0.36	0.27	0.21	0.19	0.18	
12	0.12	0.11	1.94	2.30	3.40	5.50	3.30	0.35	0.27	0.21	0.19	0.18	
13	0.11	0.10	1.25	1.85	2.50	10.70	3.40	0.35	0.27	0.22	0.18	0.18	
14	0.10	0.09	1.10	1.49	1.94	6.70	2.21	0.34	0.28	0.22	0.18	0.17	
15	0.09	0.08	1.00	1.85	1.49	10.10	1.76	0.29	0.29	0.22	0.21	0.17	
16	0.09	0.08	1.49	3.80	3.10	6.20	1.30	0.31	0.29	0.22	0.22	0.17	
17	0.08	0.07	0.90	4.40	5.20	21.00	2.21	0.30	0.30	0.22	0.23	0.17	
18	0.07	0.08	0.75	10.22	3.10	7.70	1.25	0.30	0.30	0.22	0.23	0.17	
19	0.07	0.12	0.84	16.52	3.30	6.80	1.10	0.28	0.28	0.22	0.22	0.17	
20	0.07	0.17	1.40	14.14	3.00	6.60	0.90	0.29	0.28	0.22	0.22	0.17	
21	0.06	0.50	1.10	8.54	6.90	5.70	0.81	0.29	0.28	0.21	0.23	0.17	
22	0.05	0.50	4.90	5.40	6.80	4.20	0.69	0.28	0.28	0.21	0.23	0.17	
23	0.04	0.44	2.90	4.10	4.50	1.58	0.72	0.28	0.26	0.21	0.22	0.17	
24	0.03	0.37	3.50	3.30	3.40	8.90	0.69	0.28	0.25	0.21	0.22	0.21	
25	0.04	0.34	1.94	7.00	6.00	6.00	0.63	0.28	0.26	0.21	0.22	0.21	
26	0.04	0.32	1.94	4.10	24.80	4.70	0.56	0.28	0.26	0.20	0.22	0.21	
27	0.04	0.29	2.30	3.20	11.90	6.20	0.54	0.28	0.26	0.21	0.21	0.21	
28	0.04	0.28	10.70	2.70	6.80	4.10	0.50	0.28	0.26	0.21	0.21	0.21	
29	0.04	0.27	4.30	2.30	4.80	3.60	0.52	0.28	0.26	0.21		0.21	
30	0.04	0.29	30.48	2.03	6.40	2.80	0.48	0.28	0.26	0.21		0.22	
31		0.33		1.58	10.70		0.44		0.26	0.21		0.25	
Total	3.01	5.05	88.03	171.50	188.09	197.92	51.62	9.71	8.54	6.96	5.77	5.82	742.02 CMSDAY
Mean	0.10	0.16	2.93	5.53	6.07	6.60	1.67	0.32	0.28	0.22	0.21	0.19	2.03 CMS
Max	0.18	0.50	30.48	16.52	24.80	21.00	3.80	0.40	0.34	0.26	0.23	0.25	30.48 CMS
Min	0.03	0.00	0.27	1.49	1.20	1.58	0.44	0.28	0.25	0.20	0.18	0.17	0.00 CMS
Runoff	0.260	0.436	7.606	14.818	16.251	17.100	4.460	0.839	0.738	0.601	0.499	0.503	64.111 MCM

Momentary Peak 57.56 CMS, at 15.86 M (MSL), at 12.00 Hours, on Jun 30, 1994
Runoff Yield 45.18 Liters/Second/Square KM, Momentary Peak Yield 1279.11 Liters/Second/Square KM

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

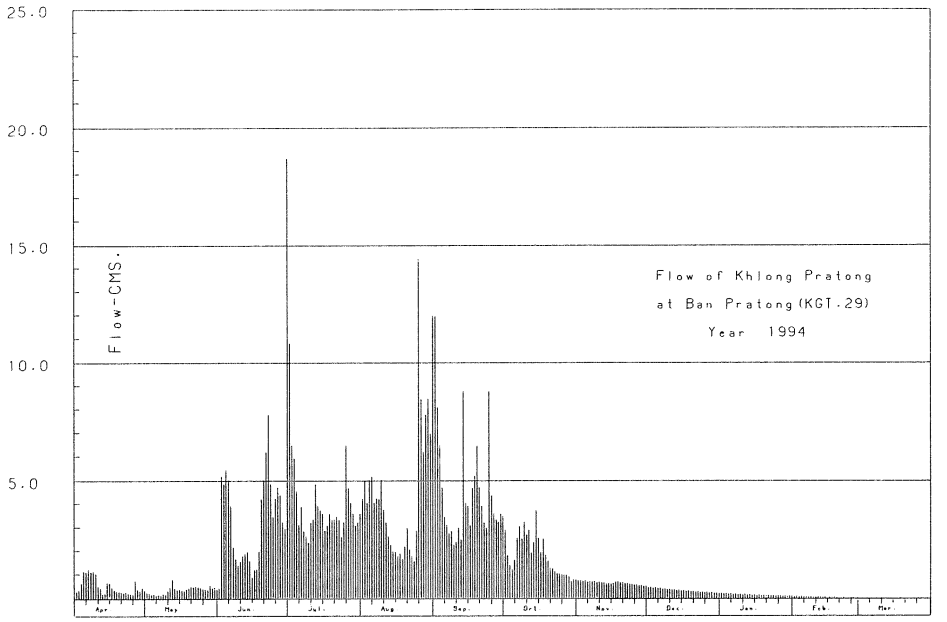
Khlong Pratong at Ban Pratong, Chanthaburi (Kgt.29)

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	Rather unstable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records poor. Flow effected by the local weir during Nov.18,94-Mar.31,95, discharge estimated by recession equation. Stage-discharge relation defined by 29 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.37	-0.38	-0.34	0.29	0.04	0.32	0.13	-0.10	0.67	0.31	0.22	0.17	
2	-0.36	-0.39	0.10	0.15	0.09	0.21	0.05	-0.11	0.67	0.27	0.18	0.17	
3	-0.29	-0.40	0.08	0.13	0.03	0.15	0.01	-0.11	0.66	0.25	0.17	0.15	
4	-0.23	-0.40	0.11	0.06	0.09	0.07	-0.01	-0.11	0.66	0.24	0.17	0.21	
5	-0.23	-0.41	0.09	-0.04	0.10	-0.01	0.03	-0.12	0.67	0.24	0.17	0.45	
6	-0.22	-0.41	0.02	0.02	0.03	-0.04	0.11	-0.12	0.66	0.23	0.16	0.36	
7	-0.23	-0.41	-0.12	-0.06	0.04	-0.07	0.14	-0.12	0.66	0.21	0.16	0.33	
8	-0.23	-0.40	-0.17	-0.08	0.04	-0.06	0.11	-0.12	0.66	0.21	0.17	0.33	
9	-0.24	-0.40	-0.20	-0.10	0.09	-0.11	0.15	-0.13	0.66	0.21	0.17	0.32	
10	-0.32	-0.36	-0.18	-0.03	0.01	-0.10	0.12	-0.13	0.66	0.21	0.17	0.31	
11	-0.33	-0.33	-0.16	-0.02	-0.03	-0.05	0.13	-0.13	0.65	0.22	0.18	0.30	
12	-0.40	-0.27	-0.15	0.08	-0.08	-0.09	0.06	-0.14	0.65	0.41	0.19	0.30	
13	-0.39	-0.34	-0.14	0.02	-0.11	0.23	0.10	-0.15	0.64	0.32	0.20	0.28	
14	-0.29	-0.35	-0.18	0.01	-0.14	0.03	0.18	-0.15	0.64	0.33	0.18	0.28	
15	-0.29	-0.35	-0.26	0.00	-0.14	0.02	0.11	-0.15	0.64	0.37	0.16	0.28	
16	-0.33	-0.36	-0.22	-0.06	-0.16	-0.04	0.06	-0.15	0.63	0.38	0.16	0.28	
17	-0.35	-0.36	-0.22	-0.04	-0.15	0.07	0.11	-0.12	0.62	0.36	0.15	0.27	
18	-0.37	-0.35	-0.14	0.00	-0.17	0.10	0.05	0.63	0.61	0.38	0.15	0.28	
19	-0.37	-0.33	0.04	-0.02	-0.12	0.15	0.03	0.63	0.61	0.37	0.13	0.52	
20	-0.38	-0.32	0.09	-0.02	-0.05	0.07	0.00	0.63	0.60	0.37	0.11	0.37	
21	-0.38	-0.32	0.14	-0.01	-0.13	0.02	0.00	0.69	0.60	0.36	0.11	0.20	
22	-0.38	-0.32	0.20	-0.02	-0.16	-0.03	-0.03	0.72	0.59	0.31	0.10	0.18	
23	-0.39	-0.32	0.08	-0.08	-0.18	-0.05	-0.04	0.71	0.58	0.35	0.09	0.18	
24	-0.40	-0.33	-0.01	-0.03	-0.06	0.23	-0.05	0.70	0.55	0.33	0.13	0.19	
25	-0.40	-0.34	0.04	0.15	0.38	0.05	-0.05	0.69	0.35	0.33	0.18	0.18	
26	-0.28	-0.35	0.07	0.07	0.22	0.00	-0.06	0.69	0.33	0.33	0.17	0.15	
27	-0.35	-0.35	0.05	0.03	0.14	-0.02	-0.06	0.68	0.33	0.32	0.17	0.19	
28	-0.37	-0.31	-0.03	0.00	0.20	-0.03	-0.07	0.67	0.33	0.31	0.19	0.26	
29	-0.33	-0.33	-0.05	-0.04	0.22	0.00	-0.12	0.68	0.32	0.27		0.34	
30	-0.36	-0.33	0.47	-0.03	0.17	-0.01	-0.10	0.68	0.31	0.23		0.31	
31		-0.35		0.00	0.32		-0.10		0.28	0.23		0.17	
Mean	-0.33	-0.35	-0.03	0.01	0.02	0.03	0.03	0.22	0.56	0.30	0.16	0.27	
Max	-0.22	-0.27	0.47	0.29	0.38	0.32	0.18	0.72	0.67	0.41	0.22	0.52	0.72
Min	-0.40	-0.41	-0.34	-0.10	-0.18	-0.11	-0.12	-0.15	0.28	0.21	0.09	0.15	-0.41

Annual Max Momentary Gage Height 0.73 M (A.D), at 6.00 Hours, on Nov 22, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.86 M (A.D)
Left Bank Elevation 4.71 M (A.D)
Right Bank Elevation 4.67 M (A.D), Drainage Area 52 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.28	0.44	10.86	4.24	12.00	2.91	0.80	0.51	0.24	0.11	0.06	
2	0.36	0.24	5.20	6.50	5.04	8.14	1.85	0.77	0.50	0.24	0.11	0.06	
3	0.68	0.20	4.88	5.98	4.08	6.50	1.41	0.77	0.49	0.23	0.11	0.05	
4	1.16	0.20	5.46	4.56	5.04	4.72	1.25	0.77	0.48	0.23	0.11	0.05	
5	1.16	0.16	5.04	3.12	5.20	3.48	1.63	0.74	0.47	0.22	0.10	0.05	
6	1.24	0.16	3.92	3.92	4.08	3.12	2.57	0.74	0.46	0.21	0.10	0.05	
7	1.16	0.16	2.20	2.88	4.24	2.76	3.08	0.74	0.44	0.21	0.10	0.05	
8	1.16	0.20	1.70	2.64	4.24	2.88	2.57	0.74	0.43	0.20	0.10	0.05	
9	1.08	0.20	1.40	2.40	5.04	2.30	3.25	0.71	0.42	0.20	0.09	0.05	
10	0.52	0.36	1.60	3.24	3.76	2.40	2.74	0.71	0.41	0.19	0.09	0.05	
11	0.48	0.48	1.80	3.36	3.24	3.00	2.91	0.71	0.40	0.19	0.09	0.05	
12	0.20	0.84	1.90	4.88	2.64	2.52	1.96	0.68	0.39	0.19	0.09	0.04	
13	0.24	0.44	2.00	3.92	2.30	8.82	2.40	0.65	0.38	0.18	0.09	0.04	
14	0.68	0.40	1.60	3.76	2.00	4.08	3.76	0.65	0.37	0.17	0.08	0.04	
15	0.68	0.40	0.92	3.60	2.00	3.92	2.57	0.65	0.37	0.17	0.08	0.04	
16	0.48	0.36	1.24	2.88	1.80	3.12	1.96	0.65	0.36	0.16	0.08	0.04	
17	0.40	0.36	1.24	3.12	1.90	4.72	2.57	0.74	0.35	0.16	0.08	0.04	
18	0.32	0.40	2.00	3.60	1.70	5.20	1.85	0.72	0.34	0.16	0.08	0.04	
19	0.32	0.48	4.24	3.36	2.20	6.50	1.63	0.70	0.33	0.15	0.07	0.04	
20	0.28	0.52	5.04	3.36	3.00	4.72	1.30	0.69	0.32	0.15	0.07	0.04	
21	0.28	0.52	6.24	3.48	2.10	3.92	1.30	0.67	0.32	0.15	0.07	0.04	
22	0.28	0.52	7.80	3.36	1.80	3.24	1.15	0.66	0.31	0.15	0.07	0.03	
23	0.24	0.52	4.88	2.64	1.60	3.00	1.10	0.64	0.30	0.14	0.07	0.03	
24	0.20	0.48	3.48	3.24	2.88	8.82	1.05	0.62	0.29	0.14	0.07	0.03	
25	0.20	0.44	4.24	6.50	14.40	4.40	1.05	0.61	0.29	0.14	0.06	0.03	
26	0.76	0.40	4.72	4.72	8.48	3.60	1.00	0.59	0.28	0.13	0.06	0.03	
27	0.40	0.40	4.40	4.08	6.24	3.36	1.00	0.58	0.27	0.13	0.06	0.03	
28	0.32	0.56	3.24	3.60	7.80	3.24	0.95	0.57	0.27	0.13	0.06	0.03	
29	0.48	0.48	3.00	3.12	8.48	3.60	0.74	0.55	0.26	0.12		0.03	
30	0.36	0.48	18.70	3.24	7.02	3.48	0.80	0.54	0.25	0.12		0.03	
31		0.40		3.60	12.00		0.80		0.25	0.12		0.03	
Total	16.44	12.04	114.52	123.52	140.54	135.56	57.11	20.36	11.31	5.32	2.35	1.27	640.34 CMSDAY
Mean	0.55	0.39	3.82	3.98	4.53	4.52	1.84	0.68	0.36	0.17	0.08	0.04	1.75 CMS
Max	1.24	0.84	18.70	10.86	14.40	12.00	3.76	0.80	0.51	0.24	0.11	0.06	18.70 CMS
Min	0.20	0.16	0.44	2.40	1.60	2.30	0.74	0.54	0.25	0.12	0.06	0.03	0.03 CMS
Runoff	1.420	1.040	9.895	10.672	12.143	11.712	4.934	1.759	0.977	0.460	0.203	0.110	55.325 MCM

Momentary Peak 36.71 CMS, at 0.73 M (A.D), at 6.00 Hours, on Nov 22, 1994

Runoff Yield 33.74 Liters/Second/Square KM, Momentary Peak Yield 705.96 Liters/Second/Square KM

WATER YEAR 1994

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,Tambon Prasae Bon, 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 — Stable.

Overbank Flow Conditions — Overbank flow starts at elevation + 7.95 m.(M.S.L.), records are channel flow only.

General Description — Records good. Stage-discharge relation defined by 93 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

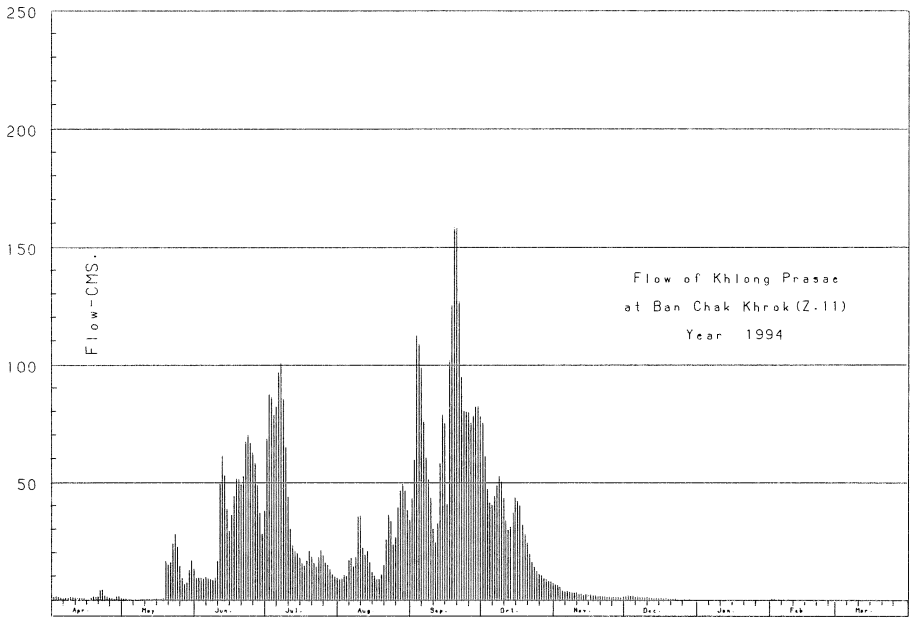
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.01	2.91	3.95	7.87	3.93	6.69	8.03	3.69	3.09	2.77	2.87	2.75	
2	3.02	2.86	3.99	8.24	3.93	7.60	7.66	3.64	3.12	2.77	2.84	2.74	
3	2.98	2.82	3.96	8.22	4.08	8.52	6.96	3.59	3.12	2.77	2.82	2.73	
4	2.90	2.79	3.95	8.10	4.06	8.49	6.59	3.41	3.09	2.76	2.81	2.75	
5	2.89	2.76	3.99	8.16	4.71	8.39	6.50	3.40	3.04	2.75	2.80	2.76	
6	2.89	2.73	3.93	8.36	4.84	8.05	6.76	3.40	3.02	2.74	2.81	2.78	
7	2.90	2.73	3.93	8.41	4.47	7.63	7.07	3.39	3.01	2.73	2.80	2.77	
8	2.99	2.77	3.89	8.21	4.85	7.24	7.32	3.34	2.99	2.71	2.80	2.77	
9	2.96	2.81	3.97	7.78	6.20	6.71	7.17	3.35	2.98	2.72	2.78	2.77	
10	2.92	2.83	4.70	6.75	6.20	5.84	6.71	3.34	3.00	2.72	2.78	2.76	
11	2.90	2.88	7.10	5.84	5.26	5.46	6.06	3.28	2.97	2.71	2.77	2.73	
12	2.89	2.84	7.67	5.33	4.94	5.98	5.81	3.26	2.92	2.71	2.76	2.71	
13	2.89	2.85	7.33	5.12	5.10	7.54	5.88	3.19	2.91	2.71	2.76	2.70	
14	2.88	2.85	6.39	4.99	4.65	8.10	6.29	3.24	2.91	2.71	2.76	2.72	
15	2.72	2.89	5.76	4.81	4.25	8.03	6.73	3.23	2.91	2.71	2.76	2.68	
16	2.71	2.83	6.25	4.61	4.05	6.54	6.61	3.19	2.93	2.71	2.76	2.68	
17	2.88	2.83	6.78	4.47	3.93	8.42	6.50	3.16	2.90	2.71	2.76	2.68	
18	3.05	2.92	7.25	4.71	3.91	8.61	5.96	3.12	2.90	2.71	2.75	2.68	
19	2.96	4.67	7.23	5.13	4.12	8.81	5.67	3.10	2.88	2.71	2.75	2.68	
20	3.04	4.53	7.10	4.86	4.51	8.81	5.45	3.09	2.88	2.71	2.75	2.69	
21	3.44	4.64	7.32	4.59	5.54	8.62	4.97	3.09	2.87	2.73	2.75	2.70	
22	3.48	5.43	7.84	4.46	6.23	8.34	4.65	3.07	2.85	2.78	2.75	2.69	
23	3.16	5.69	7.91	4.83	6.07	8.13	4.43	3.04	2.83	2.76	2.75	2.70	
24	3.04	5.27	7.83	5.15	5.38	8.12	4.27	3.03	2.81	2.74	2.75	2.70	
25	2.98	4.49	7.71	4.94	5.60	8.12	4.14	3.01	2.80	2.75	2.75	2.69	
26	2.91	3.97	7.53	4.60	6.45	8.03	4.05	3.00	2.80	2.81	2.75	2.68	
27	2.88	3.70	7.08	4.53	6.91	8.09	3.95	2.99	2.80	2.75	2.75	2.67	
28	3.06	3.78	6.30	4.33	7.10	8.16	3.90	2.99	2.79	2.78	2.76	2.67	
29	3.10	4.29	5.68	4.13	6.93	8.16	3.84	3.00	2.77	2.78		2.69	
30	2.92	4.72	6.34	4.01	6.36	8.09	3.79	3.02	2.77	2.78		2.70	
31		4.34		3.96	6.08		3.73		2.76	2.89		2.70	
Mean	2.98	3.56	6.02	5.79	5.18	7.78	5.72	3.22	2.92	2.74	2.77	2.71	
Max	3.48	5.69	7.91	8.41	7.10	8.81	8.03	3.69	3.12	2.89	2.87	2.78	8.81
Min	2.71	2.73	3.89	3.96	3.91	5.46	3.73	2.99	2.76	2.71	2.75	2.67	2.67

Annual Max Momentary Gage Height — 8.86 M (MSL), at 24.00 Hours, on Sep 19, 1994

Zero Gage at Bottom Elevation — 2.63 M (MSL), River Bed — 2.06 M (MSL)

Left Bank Elevation — 8.67 M (MSL)

Right Bank Elevation — 7.94 M (MSL), Drainage Area — 1280 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.55	1.05	9.50	68.80	9.30	43.35	75.50	6.90	1.95	0.35	0.85	0.25	
2	1.60	0.80	9.90	87.80	9.30	60.00	61.50	6.40	2.10	0.35	0.70	0.20	
3	1.40	0.60	9.60	86.40	10.80	112.80	47.40	5.90	2.10	0.35	0.60	0.15	
4	1.00	0.45	9.50	79.00	10.60	109.00	41.85	4.10	1.95	0.30	0.55	0.25	
5	0.95	0.30	9.90	82.60	17.10	99.20	40.50	4.00	1.70	0.25	0.50	0.30	
6	0.95	0.15	9.30	96.80	18.40	76.50	44.40	4.00	1.60	0.20	0.55	0.40	
7	1.00	0.15	9.30	101.00	14.70	60.75	49.05	3.90	1.55	0.15	0.50	0.35	
8	1.45	0.35	8.90	85.70	18.50	51.60	53.00	3.40	1.45	0.05	0.50	0.35	
9	1.30	0.55	9.70	65.30	36.00	43.65	50.55	3.50	1.40	0.10	0.40	0.35	
10	1.10	0.65	17.00	44.25	36.00	30.60	43.65	3.40	1.50	0.10	0.40	0.30	
11	1.00	0.90	49.50	30.60	22.60	24.90	33.90	2.90	1.35	0.05	0.35	0.15	
12	0.95	0.70	61.75	23.30	19.40	32.70	30.15	2.80	1.10	0.05	0.30	0.05	
13	0.95	0.75	53.25	21.20	21.00	58.50	31.20	2.45	1.05	0.05	0.30	0.00	
14	0.90	0.75	38.85	19.90	16.50	79.00	37.35	2.70	1.05	0.05	0.30	0.10	
15	0.10	0.95	29.40	18.10	12.50	75.50	43.95	2.65	1.05	0.05	0.30	0.00	
16	0.05	0.65	36.75	16.10	10.50	41.10	42.15	2.45	1.15	0.05	0.30	0.00	
17	0.90	0.65	44.70	14.70	9.30	102.00	40.50	2.30	1.00	0.05	0.30	0.00	
18	1.75	1.10	51.75	17.10	9.10	125.60	32.40	2.10	1.00	0.05	0.25	0.00	
19	1.30	16.70	51.45	21.30	11.20	158.40	28.05	2.00	0.90	0.05	0.25	0.00	
20	1.70	15.30	49.50	18.60	15.10	158.40	24.75	1.95	0.90	0.05	0.25	0.00	
21	4.40	16.40	53.00	15.90	26.10	127.20	19.70	1.95	0.85	0.15	0.25	0.00	
22	4.80	24.45	67.60	14.60	36.45	95.20	16.50	1.85	0.75	0.40	0.25	0.00	
23	2.30	28.35	70.40	18.30	34.05	80.80	14.30	1.70	0.65	0.30	0.25	0.00	
24	1.70	22.70	67.20	21.50	23.80	80.20	12.70	1.65	0.55	0.20	0.25	0.00	
25	1.40	14.90	62.85	19.40	27.00	80.20	11.40	1.55	0.50	0.25	0.25	0.00	
26	1.05	9.70	58.25	16.00	39.75	75.50	10.50	1.50	0.50	0.55	0.25	0.00	
27	0.90	7.00	49.20	15.30	46.65	78.50	9.50	1.45	0.50	0.25	0.25	0.00	
28	1.80	7.80	37.50	13.30	49.50	82.60	9.00	1.45	0.45	0.40	0.30	0.00	
29	2.00	12.90	28.20	11.30	46.95	82.60	8.40	1.50	0.35	0.40		0.00	
30	1.10	17.20	38.10	10.10	38.40	78.50	7.90	1.60	0.35	0.40		0.00	
31		13.40		9.60	34.20		7.30		0.30	0.95		0.00	
Total	43.35	218.30	1101.80	1163.85	730.75	2404.85	979.00	86.00	33.60	6.95	10.50	3.20	6782.15 CMSDAY
Mean	1.45	7.04	36.73	37.54	23.57	80.16	31.58	2.87	1.08	0.22	0.38	0.10	18.58 CMS
Max	4.80	28.35	70.40	101.00	49.50	158.40	75.50	6.90	2.10	0.95	0.85	0.40	158.40 CMS
Min	0.05	0.15	8.90	9.60	9.10	24.90	7.30	1.45	0.30	0.05	0.25	0.00	0.00 CMS
Runoff	3.745	18.861	95.196	100.557	63.137	207.779	84.586	7.430	2.903	0.600	0.907	0.276	585.978 MCM

Momentary Peak 170.40 CMS, at 8.86 M (MSL), at 24.00 Hours, on Sep 19, 1994

Runoff Yield 14.52 Liters/Second/Square KM, Momentary Peak Yield 133.13 Liters/Second/Square KM

WATER YEAR 1994

EAST COAST-GULF BASIN

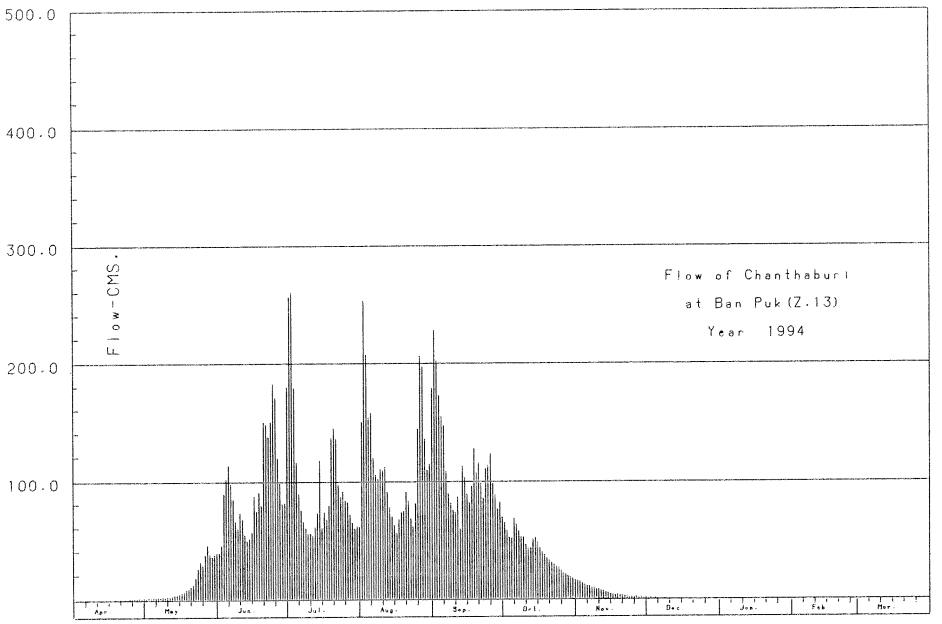
Chanthaburi River at Ban Puk, Chanthaburi (Z.13)

Location	Lat. 12-45-40 N., Long. 102-18-35 E., on left bank infront of Wat Ban Puk, Amphoe Makham, Chanthaburi.
Drainage Area	671 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+6.30 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 20 meters from the top staff gage.
Elevation	+14.374 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1968 to date.
Rating Operation	
Period of Rating	1973 to date.
Rated by Float	-
Rated by Current Meter	1973 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by the local weir during Apr.1-May 19, Nov.26,94-Mar.31,95,discharge estimated by recession equation. Stage-discharge relation defined by 37 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.32	7.81	7.69	12.57	10.38	12.00	8.35	6.98	7.70	6.93	7.03	5.84	
2	8.31	7.75	7.85	12.64	12.49	11.47	8.19	6.94	6.44	6.93	7.00	5.81	
3	8.30	7.68	8.98	11.02	11.58	10.88	8.05	6.91	6.43	6.92	6.94	5.77	
4	8.28	7.65	9.27	9.61	10.45	10.47	8.02	6.85	6.43	6.91	6.90	5.73	
5	8.27	7.58	9.56	8.98	10.55	10.31	8.46	6.83	6.41	6.90	6.85	5.75	
6	8.30	7.52	9.18	8.63	9.70	9.44	8.32	6.81	6.38	6.89	6.82	5.74	
7	8.37	7.48	8.86	8.38	9.37	8.98	8.19	6.78	6.40	7.10	6.73	5.72	
8	8.39	7.48	8.38	8.25	9.29	8.77	8.05	6.77	6.36	7.99	6.73	5.70	
9	8.37	7.50	8.24	8.12	9.48	8.63	8.06	6.73	6.34	7.98	6.67	5.65	
10	8.35	7.64	8.56	8.14	9.46	8.57	7.89	6.72	6.57	7.83	6.63	5.60	
11	8.29	7.97	8.44	8.08	9.52	8.90	7.78	6.70	6.37	7.81	6.59	5.60	
12	8.22	7.90	8.10	8.27	9.02	8.23	7.80	6.67	6.40	7.77	6.56	5.60	
13	8.23	8.06	7.98	8.56	8.68	9.54	8.00	6.65	6.78	7.63	6.51	5.60	
14	8.25	7.91	8.02	9.66	8.50	9.31	8.05	6.62	7.15	7.60	6.45	5.60	
15	8.22	7.78	8.16	8.24	8.30	8.96	7.93	6.60	7.19	7.53	6.39	5.60	
16	8.41	7.75	8.92	8.58	8.14	8.78	7.79	6.56	7.22	7.48	6.35	5.60	
17	8.41	7.73	8.60	8.43	8.42	9.14	7.71	6.56	7.21	7.42	6.33	5.60	
18	8.44	7.91	9.01	8.72	8.58	9.88	7.63	6.56	7.23	7.37	6.25	6.10	
19	8.46	7.71	8.73	10.08	8.60	9.42	7.56	6.56	7.23	7.29	6.19	7.41	
20	8.46	7.70	10.37	10.26	9.02	9.60	7.49	6.54	7.23	7.26	6.13	7.81	
21	8.45	7.75	10.32	10.05	8.82	9.19	7.44	6.53	7.21	7.22	6.07	7.84	
22	8.45	7.59	10.10	9.17	8.45	8.88	7.39	6.51	7.19	7.17	6.03	7.85	
23	8.51	7.35	10.38	8.92	8.27	9.50	7.35	6.50	7.17	7.09	6.00	7.86	
24	8.42	7.46	11.08	9.02	8.77	9.55	7.32	6.50	7.14	7.07	5.97	7.87	
25	8.40	7.38	10.84	8.83	10.25	9.78	7.26	6.49	7.11	7.06	5.97	7.88	
26	8.34	7.64	9.70	8.80	11.55	9.20	7.18	6.22	7.08	7.06	5.95	7.89	
27	7.99	7.88	9.23	8.54	11.38	8.95	7.14	6.43	7.04	7.04	5.91	7.87	
28	7.81	7.64	8.76	8.36	10.05	8.65	7.10	6.69	7.00	7.04	5.87	7.86	
29	7.95	7.60	8.77	8.24	9.47	8.79	7.06	7.36	6.97	7.04		7.86	
30	7.86	7.63	11.03	8.28	9.58	8.48	7.03	7.82	6.97	7.05		7.83	
31		7.67		8.27	11.01		6.99		6.95	7.05		7.73	
Mean	8.29	7.68	9.10	9.09	9.58	9.41	7.70	6.71	6.88	7.27	6.42	6.59	
Max	8.51	8.06	11.08	12.64	12.49	12.00	8.46	7.82	7.70	7.99	7.03	7.89	12.64
Min	7.81	7.35	7.69	8.08	8.14	8.23	6.99	6.22	6.34	6.89	5.87	5.60	5.60

Annual Max Momentary Gage Height 12.78 M (MSL), at 6.00 Hours, on Jul 2, 1994
Zero Gage at Bottom Elevation 6.30 M (MSL), River Bed 5.16 M (MSL)
Left Bank Elevation 14.36 M (MSL)
Right Bank Elevation 13.82 M (MSL), Drainage Area 671 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.00	40.15	257.50	151.10	229.00	65.00	16.40	1.73	0.36	0.08	0.02	
2	0.00	2.10	45.75	261.00	253.50	202.50	58.60	15.20	1.65	0.35	0.07	0.02	
3	0.00	2.20	90.20	180.00	208.00	173.60	53.00	14.30	1.57	0.33	0.07	0.02	
4	0.00	2.30	101.80	116.45	154.25	155.15	51.80	12.50	1.49	0.31	0.07	0.02	
5	0.00	2.40	114.20	90.20	158.75	147.95	69.40	11.90	1.42	0.30	0.06	0.02	
6	0.10	2.50	98.20	76.20	120.50	108.80	63.80	11.30	1.35	0.28	0.06	0.01	
7	0.20	2.60	85.40	66.20	105.80	90.20	58.60	10.40	1.28	0.27	0.06	0.01	
8	0.30	2.70	66.20	61.00	102.60	81.80	53.00	10.10	1.22	0.26	0.05	0.01	
9	0.40	2.80	60.60	55.80	110.60	76.20	53.40	8.90	1.16	0.24	0.05	0.01	
10	0.50	2.90	73.40	56.60	109.70	73.80	47.15	8.60	1.10	0.23	0.05	0.01	
11	0.55	3.00	68.60	54.20	112.40	87.00	43.30	8.00	1.05	0.22	0.05	0.01	
12	0.60	3.50	55.00	61.80	91.80	60.20	44.00	7.16	1.00	0.21	0.04	0.01	
13	0.65	4.00	50.30	73.40	78.20	113.30	51.00	6.60	0.95	0.20	0.04	0.01	
14	0.70	4.50	51.80	118.70	71.00	103.40	53.00	5.76	0.90	0.19	0.04	0.01	
15	0.75	5.00	57.40	60.60	63.00	89.40	48.55	5.20	0.86	0.18	0.04	0.01	
16	0.80	6.20	87.80	74.20	56.60	82.20	43.65	4.16	0.81	0.17	0.04	0.01	
17	0.85	7.40	75.00	68.20	67.80	96.60	40.85	4.16	0.77	0.16	0.03	0.01	
18	0.90	8.60	91.40	79.80	74.20	128.60	38.05	4.16	0.74	0.16	0.03	0.01	
19	0.95	9.80	80.20	137.60	75.00	107.90	35.60	4.16	0.70	0.15	0.03	0.01	
20	1.00	11.00	150.65	145.70	91.80	116.00	33.15	3.64	0.67	0.14	0.03	0.01	
21	1.10	13.00	148.40	136.25	83.80	98.60	31.40	3.38	0.63	0.13	0.03	0.01	
22	1.20	19.00	138.50	97.80	69.00	86.20	29.65	2.86	0.60	0.13	0.03	0.01	
23	1.30	27.00	151.10	87.80	61.80	111.50	28.25	2.60	0.57	0.12	0.03	0.01	
24	1.40	32.10	183.00	91.80	81.80	113.75	27.20	2.60	0.55	0.11	0.02	0.01	
25	1.50	29.30	171.80	84.20	145.25	124.10	25.10	2.34	0.52	0.11	0.02	0.01	
26	1.60	38.40	120.50	83.00	206.50	99.00	22.40	2.23	0.49	0.10	0.02	0.01	
27	1.70	46.80	100.20	72.60	198.00	89.00	21.20	2.12	0.47	0.10	0.02	0.01	
28	1.80	38.40	81.40	65.40	136.25	77.00	20.00	2.01	0.45	0.09	0.02	0.00	
29	1.90	37.00	81.80	60.60	110.15	82.60	18.80	1.91	0.42	0.09		0.00	
30	2.00	38.05	180.50	62.20	115.10	70.20	17.90	1.82	0.40	0.08		0.00	
31		39.45		61.80	179.50		16.70		0.38	0.08		0.00	
Total	24.75	446.00	2901.25	2998.60	3643.75	3275.55	1263.50	196.47	27.90	5.85	1.18	0.32	14785.12 CMSDAY
Mean	0.82	14.39	96.71	96.73	117.54	109.19	40.76	6.55	0.90	0.19	0.04	0.01	40.51 CMS
Max	2.00	46.80	183.00	261.00	253.50	229.00	69.40	16.40	1.73	0.36	0.08	0.02	261.00 CMS
Min	0.00	2.00	40.15	54.20	56.60	60.20	16.70	1.82	0.38	0.08	0.02	0.00	0.00 CMS
Runoff	2.138	38.534	250.668	259.079	314.820	283.008	109.166	16.975	2.411	0.505	0.102	0.028	1277.434 MCM

Momentary Peak 268.00 CMS, at 12.78 M (MSL), at 6.00 Hours, on Jul 2, 1994

Runoff Yield 60.37 Liters/Second/Square KM, Momentary Peak Yield 399.40 Liters/Second/Square KM

WATER YEAR 1994

EAST COAST-GULF BASIN

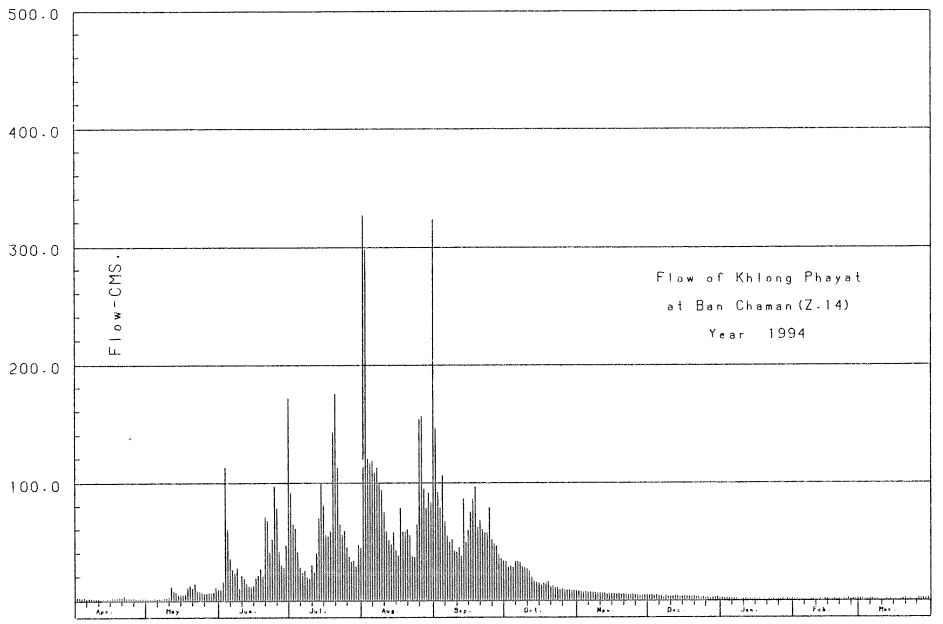
Khlong Phayat at Ban Chaman, Chanthaburi (Z.14)

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	Overbank flow starts at elevation +8.16 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.90	0.80	1.40	4.74	8.09	6.22	2.55	1.31	1.07	0.88	0.82	0.89	
2	0.88	0.78	1.73	3.77	7.92	4.72	2.34	1.28	1.06	0.88	0.82	0.85	
3	0.88	0.78	5.38	3.65	5.63	4.30	2.38	1.26	1.04	0.87	0.79	0.84	
4	0.89	0.80	3.62	2.87	5.47	5.17	2.34	1.26	1.05	0.87	0.78	0.72	
5	0.81	0.81	2.66	2.34	5.54	3.86	2.54	1.25	1.03	0.83	0.76	0.86	
6	0.83	0.79	2.26	2.12	5.24	3.42	2.57	1.22	1.03	0.85	0.74	0.80	
7	0.84	0.79	2.11	2.22	5.36	3.20	2.50	1.23	0.95	0.82	0.73	0.85	
8	0.80	0.85	2.30	1.92	4.96	3.28	2.39	1.20	1.02	0.83	0.73	0.82	
9	0.79	0.87	1.45	1.90	4.78	2.94	2.31	1.19	1.01	0.80	0.81	0.73	
10	0.78	0.92	2.00	2.42	4.16	2.88	2.30	1.20	0.96	0.82	0.71	0.73	
11	0.75	1.53	1.87	2.13	3.56	3.03	2.19	1.19	1.01	0.82	0.68	0.72	
12	0.75	1.27	1.65	2.85	3.27	2.77	1.96	1.16	1.01	0.82	0.80	0.80	
13	0.77	1.21	1.55	3.95	3.15	4.55	1.78	1.14	1.05	0.83	0.81	0.80	
14	0.79	1.08	1.49	4.97	3.51	3.22	1.70	1.15	0.95	0.81	0.80	0.80	
15	0.79	1.08	1.58	4.39	2.95	3.60	1.69	1.14	1.00	0.81	0.82	0.76	
16	0.85	1.05	1.89	3.44	2.76	4.16	1.61	1.14	0.99	0.79	0.77	0.73	
17	0.87	1.11	2.04	3.41	4.30	4.53	1.66	1.13	0.99	0.80	0.80	0.74	
18	0.85	1.46	2.28	3.56	3.53	4.88	1.69	1.14	0.97	0.76	0.81	0.74	
19	0.95	1.56	1.98	6.15	3.54	3.68	1.74	1.12	0.98	0.78	0.82	0.83	
20	0.91	1.42	4.00	6.79	3.62	3.89	1.53	1.11	0.98	0.76	0.81	0.86	
21	0.99	1.66	3.90	5.36	3.43	3.63	1.53	1.12	0.97	0.77	0.81	0.78	
22	0.86	1.33	2.89	3.78	2.75	3.52	1.48	1.06	0.95	0.77	0.81	0.78	
23	0.82	1.26	3.30	3.44	2.73	3.49	1.46	1.11	0.93	0.78	0.82	0.79	
24	0.85	1.22	4.90	3.56	3.75	4.31	1.40	1.10	0.92	0.80	0.86	0.79	
25	0.82	1.12	4.28	3.06	6.39	3.30	1.43	1.09	0.91	0.81	0.84	0.74	
26	0.80	1.17	2.89	2.72	6.44	3.16	1.37	1.08	0.90	0.82	0.84	0.89	
27	0.80	1.21	2.42	2.56	4.83	3.10	1.37	1.05	0.89	0.82	0.84	0.88	
28	0.83	1.17	2.31	2.57	4.29	2.80	1.35	1.04	0.90	0.82	0.85	0.89	
29	0.82	1.21	3.12	2.37	4.71	2.67	1.34	1.05	0.93	0.82		0.86	
30	0.81	1.46	6.72	3.11	4.45	2.57	1.31	1.07	0.95	0.80		0.87	
31		1.36		3.04	8.07		1.31		0.90	0.83		0.85	
Mean	0.84	1.13	2.73	3.39	4.62	3.69	1.84	1.15	0.98	0.82	0.80	0.81	
Max	0.99	1.66	6.72	6.79	8.09	6.22	2.57	1.31	1.07	0.88	0.86	0.89	8.09
Min	0.75	0.78	1.40	1.90	2.73	2.57	1.31	1.04	0.89	0.76	0.68	0.72	0.68

Annual Max Momentary Gage Height 9.23 M (A.D), at 18.00 Hours, on Aug 1, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.31 M (A.D)
Left Bank Elevation 8.72 M (A.D)
Right Bank Elevation 8.15 M (A.D), Drainage Area 245 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.80	1.80	10.00	92.88	327.38	146.84	33.57	8.56	5.18	2.60	2.00	2.70	
2	2.60	1.66	16.17	65.19	297.70	92.24	28.78	8.12	5.04	2.60	2.00	2.30	
3	2.60	1.66	113.94	61.95	121.29	79.50	29.69	7.84	4.76	2.50	1.73	2.20	
4	2.70	1.80	61.14	41.22	117.01	107.01	28.78	7.84	4.90	2.50	1.66	1.24	
5	1.90	1.90	36.09	28.78	119.43	67.62	33.35	7.70	4.62	2.10	1.52	2.40	
6	2.10	1.73	26.95	23.76	109.32	55.74	34.03	7.28	4.62	2.30	1.38	1.80	
7	2.20	1.73	23.53	26.04	113.28	49.80	32.43	7.42	3.50	2.00	1.31	2.30	
8	1.80	2.30	27.87	19.78	100.08	51.96	29.92	7.00	4.48	2.10	1.31	2.00	
9	1.73	2.50	10.90	19.40	94.16	43.04	28.09	6.86	4.34	1.80	1.90	1.31	
10	1.66	3.08	21.30	30.61	75.72	41.48	27.87	7.00	3.64	2.00	1.17	1.31	
11	1.45	12.37	18.83	23.99	59.52	45.38	25.36	6.86	4.34	2.00	0.98	1.24	
12	1.45	7.98	14.65	40.70	51.69	38.68	20.54	6.44	4.34	2.00	1.80	1.80	
13	1.59	7.14	12.75	70.05	48.50	86.95	17.12	6.16	4.90	2.10	1.90	1.80	
14	1.73	5.32	11.62	100.41	58.17	50.34	15.60	6.30	3.50	1.90	1.80	1.80	
15	1.73	5.32	13.32	82.11	43.30	60.60	15.41	6.16	4.20	1.90	2.00	1.52	
16	2.30	4.90	19.21	56.28	38.44	75.72	13.89	6.16	4.06	1.73	1.59	1.31	
17	2.50	5.74	22.10	55.47	79.50	86.33	14.84	6.02	4.06	1.80	1.80	1.38	
18	2.30	11.08	27.41	59.52	58.71	97.44	15.41	6.16	3.78	1.52	1.90	1.38	
19	3.50	12.94	20.92	143.75	58.98	62.76	16.36	5.88	3.92	1.66	2.00	2.10	
20	2.94	10.36	71.40	176.42	61.14	68.43	12.37	5.74	3.92	1.52	1.90	2.40	
21	4.06	14.84	68.70	113.28	56.01	61.41	12.37	5.88	3.78	1.59	1.90	1.66	
22	2.40	8.88	41.74	65.46	38.20	58.44	11.44	5.04	3.50	1.59	1.90	1.66	
23	2.00	7.84	52.50	56.28	37.72	57.63	11.08	5.74	3.22	1.66	2.00	1.73	
24	2.30	7.28	98.10	59.52	64.65	79.79	10.00	5.60	3.08	1.80	2.40	1.73	
25	2.00	5.88	78.96	46.16	154.83	52.50	10.54	5.46	2.94	1.90	2.20	1.38	
26	1.80	6.58	41.74	37.48	157.34	48.76	9.52	5.32	2.80	2.00	2.20	2.70	
27	1.80	7.14	30.61	33.80	95.79	47.20	9.52	4.90	2.70	2.00	2.20	2.60	
28	2.10	6.58	28.09	34.03	79.23	39.40	9.20	4.76	2.80	2.00	2.30	2.70	
29	2.00	7.14	47.72	29.46	91.92	36.32	9.04	4.90	3.22	2.00		2.40	
30	1.90	11.08	172.40	47.46	83.90	34.03	8.56	5.18	3.50	1.80		2.50	
31		9.36		45.64	323.62		8.56		2.80	2.10		2.30	
Total	65.94	195.91	1240.66	1786.88	3216.53	1923.34	583.24	190.28	120.44	61.07	50.75	59.65	9494.69 CMSDAY
Mean	2.20	6.32	41.36	57.64	103.76	64.11	18.81	6.34	3.89	1.97	1.81	1.92	26.01 CMS
Max	4.06	14.84	172.40	176.42	327.38	146.84	34.03	8.56	5.18	2.60	2.40	2.70	327.38 CMS
Min	1.45	1.66	10.00	19.40	37.72	34.03	8.56	4.76	2.70	1.52	0.98	1.24	0.98 CMS
Runoff	5.697	16.927	107.193	154.386	277.908	166.177	50.392	16.440	10.406	5.276	4.385	5.154	820.341 MCM

Momentary Peak 654.80 CMS, at 9.23 M (A.D), at 18.00 Hours, on Aug 1, 1994

Runoff Yield 106.17 Liters/Second/Square KM, Momentary Peak Yield 2672.65 Liters/Second/Square KM

WATER YEAR 1994

EAST COAST-GULF BASIN

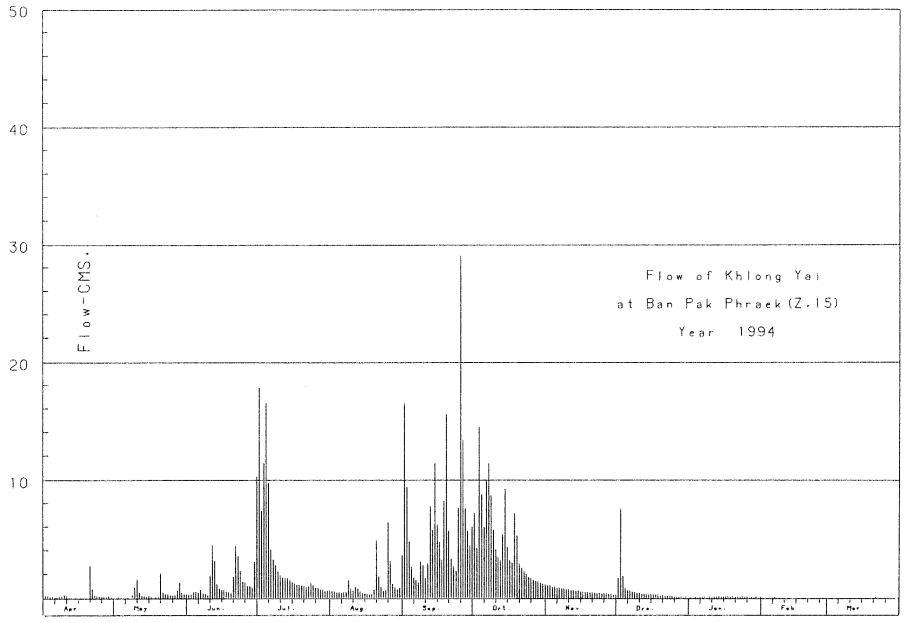
Khlong Yai at Ban Pak Phraek, Rayong (Z.15)

Location	Lat. 12°-55'-41" N., Long. 101°-19'-30" E., on right bank at Ban Pak Phraek, King Amphoe Pluak Daeng, Rayong.
Drainage Area	244 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +30.90 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 77 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.11	29.00	29.11	31.75	29.31	31.71	31.20	29.55	29.78	29.00	29.00	28.90	
2	29.07	28.98	29.15	31.22	29.28	31.41	30.57	29.54	31.25	29.00	28.99	28.90	
3	29.04	28.95	29.27	31.52	29.25	30.71	31.64	29.49	29.86	29.00	28.99	28.90	
4	29.03	28.94	29.27	31.71	29.25	30.10	31.36	29.48	29.42	29.01	28.98	28.89	
5	28.99	28.93	29.25	31.43	29.24	29.81	31.01	29.45	29.35	29.01	28.98	28.89	
6	28.98	28.92	29.35	30.53	29.24	29.71	31.44	29.44	29.32	29.01	28.97	28.89	
7	29.06	28.91	29.22	30.31	29.27	29.64	31.52	29.43	29.29	29.02	28.97	28.89	
8	29.04	29.11	29.15	30.14	29.72	30.24	31.35	29.40	29.25	29.02	28.96	28.89	
9	29.15	29.47	29.13	29.98	29.41	30.16	30.96	29.39	29.24	29.02	28.95	28.89	
10	29.06	29.75	29.87	29.86	29.31	29.77	30.54	29.37	29.22	29.03	28.94	28.89	
11	29.02	29.24	30.62	29.79	29.47	30.19	30.37	29.35	29.20	29.03	28.94	28.89	
12	29.00	29.10	30.28	29.78	29.43	31.27	30.30	29.34	29.19	29.06	28.94	28.89	
13	28.97	29.05	29.57	29.77	29.28	30.95	30.85	29.33	29.18	29.06	28.93	28.89	
14	28.95	29.02	29.42	29.72	29.23	31.52	31.40	29.33	29.17	29.06	28.93	28.89	
15	28.94	29.07	29.36	29.65	29.21	31.05	30.58	29.30	29.16	29.05	28.92	28.89	
16	28.94	29.02	29.34	29.59	29.19	30.70	30.28	29.28	29.16	29.05	28.91	28.89	
17	28.93	29.00	29.30	29.56	29.17	30.30	30.23	29.27	29.15	29.05	28.91	28.89	
18	28.92	29.00	29.25	29.55	29.16	31.31	31.20	29.26	29.15	29.04	28.90	28.89	
19	28.95	29.05	29.23	29.54	29.38	31.68	30.83	29.25	29.11	29.04	28.90	28.91	
20	30.15	29.96	29.83	29.50	30.72	30.93	30.19	29.24	29.10	29.04	28.90	28.99	
21	29.38	29.25	30.60	29.46	29.84	30.34	30.08	29.24	29.09	29.04	28.90	29.00	
22	29.11	29.19	30.40	29.51	29.47	30.12	29.98	29.22	29.08	29.04	28.90	28.98	
23	29.05	29.16	29.98	29.62	29.32	30.00	29.89	29.21	29.07	29.03	28.90	28.96	
24	29.04	29.12	29.66	29.53	29.35	31.25	29.82	29.21	29.06	29.03	28.90	28.94	
25	29.04	29.08	29.63	29.43	31.08	32.00	29.78	29.20	29.05	29.03	28.90	28.93	
26	29.03	29.10	29.52	29.44	30.26	31.60	29.73	29.20	29.04	29.02	28.90	28.92	
27	29.03	29.34	29.52	29.38	29.60	31.25	29.69	29.18	29.03	29.02	28.90	28.92	
28	29.03	29.64	29.45	29.35	29.45	30.93	29.66	29.17	29.02	29.02	28.90	28.91	
29	29.02	29.23	30.26	29.31	29.39	30.62	29.63	29.15	29.01	29.01		28.91	
30	29.02	29.19	31.46	29.31	29.43	31.01	29.58	29.14	29.01	29.01		28.91	
31		29.14		29.32	30.42		29.56		29.00	29.01		28.91	
Mean	29.07	29.16	29.65	29.95	29.52	30.74	30.49	29.31	29.26	29.03	28.93	28.91	
Max	30.15	29.96	31.46	31.75	31.08	32.00	31.64	29.55	31.25	29.06	29.00	29.00	32.00
Min	28.92	28.91	29.11	29.31	29.16	29.64	29.56	29.14	29.00	29.00	28.90	28.89	28.89

Annual Max Momentary Gage Height 32.08 M (MSL), at 9.00 Hours, on Sep 25, 1994
Zero Gage at Bottom Elevation 29.00 M (MSL), River Bed 28.74 M (MSL)
Left Bank Elevation 30.89 M (MSL)
Right Bank Elevation 31.98 M (MSL), Drainage Area 244 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.10	0.27	17.90	0.62	16.54	7.20	1.12	1.70	0.10	0.10	0.00	
2	0.20	0.08	0.32	7.38	0.56	9.47	4.28	1.10	7.65	0.10	0.09	0.00	
3	0.16	0.05	0.54	11.48	0.50	4.84	14.52	0.98	1.93	0.10	0.09	0.00	
4	0.15	0.04	0.54	16.54	0.50	2.65	8.82	0.96	0.84	0.12	0.08	0.00	
5	0.09	0.03	0.50	9.81	0.48	1.78	6.06	0.90	0.70	0.12	0.08	0.00	
6	0.08	0.02	0.70	4.12	0.48	1.52	9.98	0.88	0.64	0.12	0.07	0.00	
7	0.19	0.01	0.44	3.29	0.54	1.35	11.48	0.86	0.58	0.13	0.07	0.00	
8	0.16	0.27	0.32	2.77	1.55	3.07	8.70	0.80	0.50	0.13	0.06	0.00	
9	0.32	0.94	0.29	2.29	0.82	2.83	5.84	0.78	0.48	0.13	0.05	0.00	
10	0.19	1.63	1.96	1.93	0.62	1.68	4.16	0.74	0.44	0.15	0.04	0.00	
11	0.13	0.48	4.48	1.73	0.94	2.92	3.50	0.70	0.40	0.15	0.04	0.00	
12	0.10	0.25	3.19	1.70	0.86	7.83	3.25	0.68	0.38	0.19	0.04	0.00	
13	0.07	0.17	1.17	1.68	0.56	5.80	5.40	0.66	0.37	0.19	0.03	0.00	
14	0.05	0.13	0.84	1.55	0.46	11.48	9.30	0.66	0.35	0.19	0.03	0.00	
15	0.04	0.20	0.72	1.38	0.42	6.30	4.32	0.60	0.34	0.17	0.02	0.00	
16	0.04	0.13	0.68	1.23	0.38	4.80	3.19	0.56	0.34	0.17	0.01	0.00	
17	0.03	0.10	0.60	1.15	0.35	3.25	3.04	0.54	0.32	0.17	0.01	0.00	
18	0.02	0.10	0.50	1.12	0.34	8.22	7.20	0.52	0.32	0.16	0.00	0.00	
19	0.05	0.17	0.46	1.10	0.76	15.64	5.32	0.50	0.27	0.16	0.00	0.01	
20	2.80	2.23	1.84	1.00	4.88	5.72	2.92	0.48	0.25	0.16	0.00	0.09	
21	0.76	0.50	4.40	0.92	1.87	3.39	2.59	0.48	0.23	0.16	0.00	0.10	
22	0.27	0.38	3.60	1.03	0.94	2.71	2.29	0.44	0.22	0.16	0.00	0.08	
23	0.17	0.34	2.29	1.30	0.64	2.35	2.02	0.42	0.20	0.15	0.00	0.06	
24	0.16	0.28	1.40	1.08	0.70	7.65	1.81	0.42	0.19	0.15	0.00	0.04	
25	0.16	0.22	1.32	0.86	6.48	29.10	1.70	0.40	0.17	0.15	0.00	0.03	
26	0.15	0.25	1.05	0.88	3.13	13.40	1.58	0.40	0.16	0.13	0.00	0.02	
27	0.15	0.68	1.05	0.76	1.25	7.65	1.48	0.37	0.15	0.13	0.00	0.02	
28	0.15	1.35	0.90	0.70	0.90	5.72	1.40	0.35	0.13	0.13	0.00	0.01	
29	0.13	0.46	3.13	0.62	0.78	4.48	1.32	0.32	0.12	0.12		0.01	
30	0.13	0.38	10.32	0.62	0.86	6.06	1.20	0.31	0.12	0.12		0.01	
31		0.31		0.64	3.68		1.15		0.10	0.12		0.01	
Total	7.37	12.28	49.82	100.56	37.85	200.20	147.02	18.93	20.59	4.43	0.91	0.49	600.45 CMSDAY
Mean	0.25	0.40	1.66	3.24	1.22	6.67	4.74	0.63	0.66	0.14	0.03	0.02	1.65 CMS
Max	2.80	2.23	10.32	17.90	6.48	29.10	14.52	1.12	7.65	0.19	0.10	0.10	29.10 CMS
Min	0.02	0.01	0.27	0.62	0.34	1.35	1.15	0.31	0.10	0.10	0.00	0.00	0.00 CMS
Runoff	0.637	1.061	4.304	8.688	3.270	17.297	12.703	1.636	1.779	0.383	0.079	0.042	51.879 MCM

Momentary Peak 33.82 CMS, at 32.08 M (MSL), at 9.00 Hours, on Sep 25, 1994

Runoff Yield 6.74 Liters/Second/Square KM, Momentary Peak Yield 138.61 Liters/Second/Square KM

WATER YEAR 1994

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 — +28.15 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank vicinity of the station office.

Elevation — +33.965 m.(M.S.L.)

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

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

Period of Available Gage Records — 1982 to date.

Rating Operation

Period of Rating — 1983 to date.

Rated by Float — -

Rated by Current Meter — 1983 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Flow regulated by Rural Development Office weir during Apr.1-May 17, Nov.26,94-Mar.31,95,discharge estimated by recession equation. Stage-discharge relation defined by 63 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

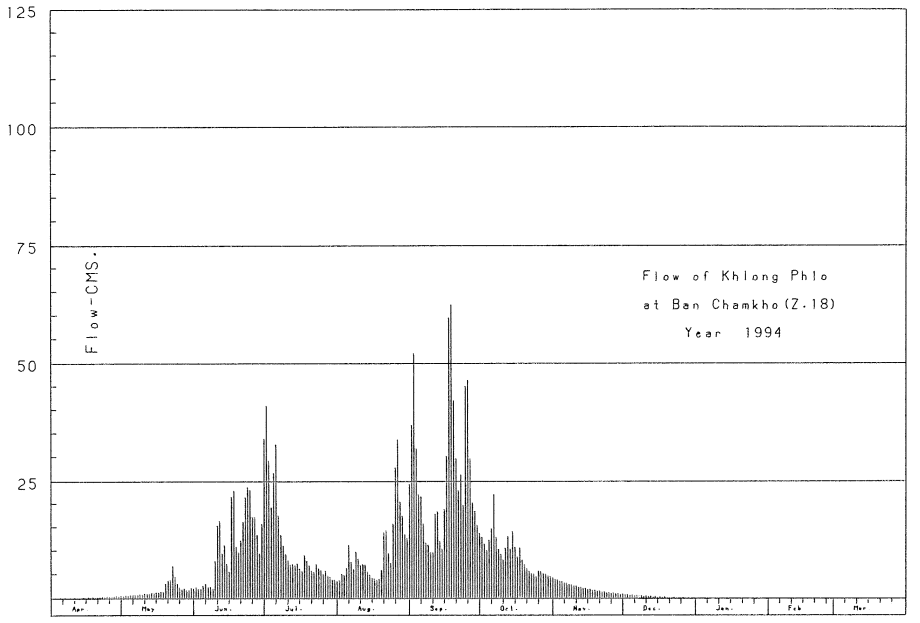
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.30	30.21	29.19	31.91	29.34	31.70	30.16	30.26	30.72	30.15	29.33	28.53	
2	29.23	30.17	29.11	31.28	29.49	32.38	30.05	30.26	30.77	30.13	29.28	28.53	
3	29.20	30.11	29.12	30.67	29.47	31.43	29.94	30.23	30.86	30.12	29.23	28.46	
4	29.19	30.04	29.21	31.13	29.62	30.84	30.11	30.24	30.75	30.05	29.18	28.45	
5	29.20	30.01	29.27	31.48	30.02	30.82	30.32	30.23	30.69	30.01	29.15	28.52	
6	29.22	29.97	29.19	30.53	29.72	30.40	30.85	30.23	30.69	30.00	29.10	28.54	
7	29.25	29.93	29.18	30.21	29.60	30.06	30.16	30.22	30.71	29.94	29.03	28.55	
8	29.25	30.00	29.13	30.01	29.91	30.03	29.96	30.20	30.70	29.91	28.98	28.56	
9	29.24	30.21	29.74	29.87	29.78	29.89	29.86	30.20	30.65	29.89	28.94	28.53	
10	29.22	30.29	30.37	29.76	29.66	29.90	29.77	30.19	30.59	29.87	28.90	28.45	
11	29.31	30.24	30.44	29.67	29.69	30.55	29.97	30.18	30.51	29.82	28.88	28.43	
12	29.37	30.21	29.88	29.68	29.67	30.60	30.19	30.19	30.46	29.80	28.98	28.39	
13	29.45	30.19	30.03	29.67	29.55	30.09	29.96	30.18	30.51	29.79	29.00	28.37	
14	29.46	29.52	29.69	29.69	29.47	29.96	30.26	30.17	30.55	29.76	29.00	28.32	
15	29.46	29.96	29.55	29.60	29.41	30.63	29.98	30.16	30.60	29.73	28.98	28.28	
16	29.46	29.30	30.81	29.56	29.38	31.33	29.81	30.20	30.63	29.69	28.93	28.18	
17	29.62	29.06	30.90	29.85	29.36	32.70	29.98	30.43	30.63	29.67	28.86	28.15	
18	30.01	29.02	29.99	29.74	29.37	32.81	29.77	30.78	30.63	29.65	28.82	28.15	
19	30.20	29.26	29.90	29.67	29.58	31.96	29.68	30.79	30.61	29.61	28.79	28.15	
20	30.31	29.35	30.10	29.56	30.25	31.31	29.62	30.79	30.55	29.59	28.76	28.15	
21	30.47	29.35	30.42	29.54	30.28	30.89	29.55	30.78	30.50	29.57	28.74	28.15	
22	30.51	29.66	30.81	29.68	29.88	31.11	29.52	30.77	30.44	29.53	28.72	28.15	
23	30.52	29.42	30.94	29.62	29.70	30.69	29.49	30.77	30.39	29.50	28.66	28.15	
24	30.51	29.27	30.90	29.57	30.40	32.09	29.45	30.76	30.35	29.48	28.65	28.15	
25	30.46	29.16	30.51	29.50	31.19	32.15	29.57	30.76	30.32	29.45	28.60	28.15	
26	30.44	29.10	30.50	29.56	31.53	31.30	30.34	30.77	30.27	29.42	28.56	28.15	
27	30.39	29.14	30.21	29.46	30.75	30.74	30.34	30.76	30.24	29.40	28.57	28.15	
28	30.33	29.06	29.88	29.42	30.52	30.60	30.33	30.75	30.21	29.38	28.58	28.15	
29	30.30	29.09	30.39	29.36	30.22	30.38	30.32	30.75	30.18	29.40		28.92	
30	30.26	29.14	31.54	29.35	30.14	30.23	30.31	30.73	30.17	29.40		28.67	
31		29.11		29.33	30.98		30.30		30.17	29.37		28.66	
Mean	29.77	29.63	30.03	29.93	29.93	30.99	30.00	30.46	30.52	29.71	28.90	28.36	
Max	30.52	30.29	31.54	31.91	31.53	32.81	30.85	30.79	30.86	30.15	29.33	28.92	32.81
Min	29.19	29.02	29.11	29.33	29.34	29.89	29.45	30.16	30.17	29.37	28.56	28.15	28.15

Annual Max Momentary Gage Height — 33.12 M (MSL), at 6.00 Hours, on Sep 17, 1994

Zero Gage at Bottom Elevation — 28.15 M (MSL), River Bed — 27.17 M (MSL)

Left Bank Elevation — 35.18 M (MSL)

Right Bank Elevation — 33.96 M (MSL), Drainage Area — 167 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.65	2.54	41.20	3.86	37.00	13.02	4.22	0.94	0.20	0.04	0.01	
2	0.15	0.68	2.06	29.36	5.21	52.12	11.70	4.01	0.89	0.19	0.04	0.01	
3	0.16	0.72	2.12	19.51	5.03	32.04	10.38	3.82	0.85	0.18	0.04	0.01	
4	0.17	0.75	2.69	26.81	6.54	22.14	12.42	3.63	0.80	0.17	0.04	0.01	
5	0.18	0.79	3.23	32.94	11.34	21.82	14.96	3.45	0.76	0.16	0.03	0.01	
6	0.18	0.83	2.54	17.69	7.74	16.00	22.30	3.28	0.73	0.15	0.03	0.01	
7	0.19	0.87	2.48	13.62	6.30	11.82	13.02	3.12	0.69	0.15	0.03	0.01	
8	0.20	0.92	2.18	11.22	10.02	11.46	10.62	2.97	0.66	0.14	0.03	0.01	
9	0.21	0.97	7.98	9.54	8.46	9.78	9.42	2.82	0.63	0.13	0.03	0.01	
10	0.23	1.02	15.61	8.22	7.02	9.90	8.34	2.69	0.59	0.13	0.03	0.01	
11	0.24	1.07	16.52	7.14	7.38	17.95	10.74	2.55	0.57	0.12	0.03	0.01	
12	0.25	1.12	9.66	7.26	7.14	18.60	13.38	2.43	0.54	0.11	0.02	0.01	
13	0.26	1.18	11.46	7.14	5.80	12.18	10.62	2.31	0.51	0.11	0.02	0.01	
14	0.28	1.24	7.38	7.38	5.03	10.62	14.22	2.20	0.49	0.10	0.02	0.01	
15	0.29	1.31	5.80	6.30	4.49	18.99	10.86	2.09	0.46	0.10	0.02	0.01	
16	0.30	1.37	21.66	5.90	4.22	30.24	8.82	1.99	0.44	0.09	0.02	0.00	
17	0.32	1.45	23.10	9.30	4.04	59.80	10.86	1.89	0.42	0.09	0.02	0.00	
18	0.34	1.52	10.98	7.98	4.13	62.44	8.34	1.80	0.40	0.08	0.02	0.00	
19	0.35	3.14	9.90	7.14	6.10	42.20	7.26	1.71	0.38	0.08	0.02	0.00	
20	0.37	3.95	12.30	5.90	14.10	29.88	6.54	1.62	0.36	0.08	0.02	0.00	
21	0.39	3.95	16.26	5.70	14.46	22.94	5.80	1.55	0.34	0.07	0.02	0.00	
22	0.41	7.02	21.66	7.26	9.66	26.47	5.50	1.47	0.33	0.07	0.01	0.00	
23	0.43	4.58	23.74	6.54	7.50	19.77	5.21	1.40	0.31	0.07	0.01	0.00	
24	0.46	3.23	23.10	6.00	16.00	45.16	4.85	1.33	0.29	0.06	0.01	0.00	
25	0.48	2.36	17.43	5.30	27.83	46.60	6.00	1.26	0.28	0.06	0.01	0.00	
26	0.50	2.00	17.30	5.90	33.84	29.70	5.71	1.20	0.27	0.06	0.01	0.00	
27	0.53	2.24	13.62	4.94	20.70	20.54	5.43	1.14	0.25	0.05	0.01	0.00	
28	0.56	1.76	9.66	4.58	17.56	18.60	5.16	1.09	0.24	0.05	0.01	0.00	
29	0.59	1.94	15.87	4.04	13.74	15.74	4.91	1.03	0.23	0.05		0.00	
30	0.62	2.24	34.02	3.95	12.78	13.86	4.67	0.98	0.22	0.05		0.00	
31		2.06		3.77	24.38		4.44		0.21	0.04		0.00	
Total	9.78	58.93	364.85	339.53	332.40	786.36	285.50	67.05	15.08	3.19	0.64	0.15	2263.46 CMSDAY
Mean	0.33	1.90	12.16	10.95	10.72	26.21	9.21	2.24	0.49	0.10	0.02	0.00	6.20 CMS
Max	0.62	7.02	34.02	41.20	33.84	62.44	22.30	4.22	0.94	0.20	0.04	0.01	62.44 CMS
Min	0.14	0.65	2.06	3.77	3.86	9.78	4.44	0.98	0.21	0.04	0.01	0.00	0.00 CMS
Runoff	0.845	5.092	31.523	29.335	28.719	67.941	24.667	5.793	1.303	0.276	0.055	0.013	195.563 MCM

Momentary Peak 70.12 CMS, at 33.12 M (MSL), at 6.00 Hours, on Sep 17, 1994
Runoff Yield 37.13 Liters/Second/Square KM, Momentary Peak Yield 419.88 Liters/Second/Square KM

WATER YEAR 1994

CHANTHABURI RIVER BASIN

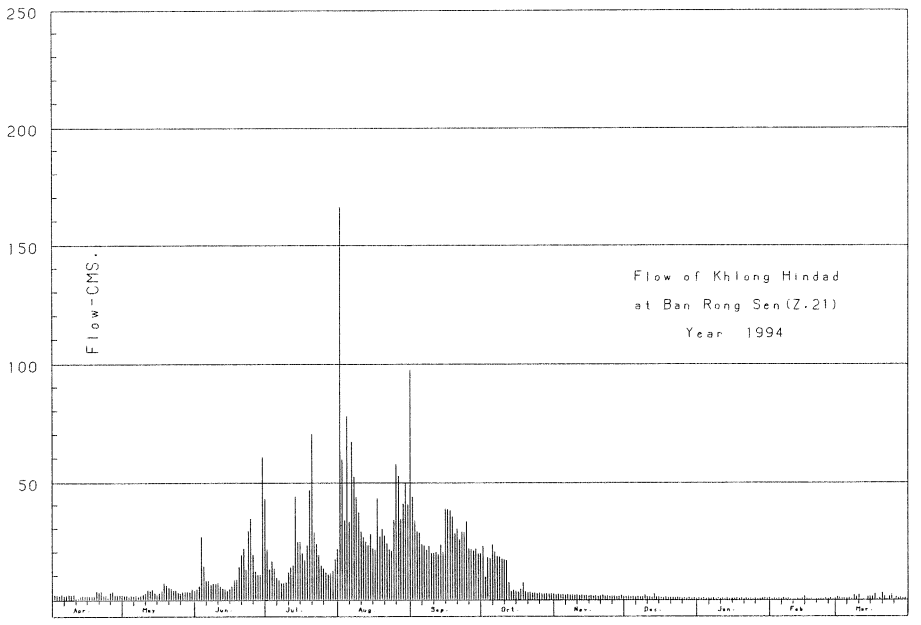
Khlong Hin Dat at Ban Rong Sen, Chanthaburi (Z.21)

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. Stage-discharge relation defined by 119 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.02	21.95	22.24	23.27	26.82	24.22	23.35	22.02	21.89	21.75	21.72	21.86	
2	21.97	21.93	22.38	22.84	24.75	23.83	22.66	22.02	21.88	21.75	21.73	21.77	
3	21.97	21.87	23.54	23.03	23.84	23.65	23.10	22.02	21.86	21.76	21.73	21.75	
4	22.01	21.92	22.92	22.86	25.24	23.61	23.09	22.01	21.87	21.74	21.72	21.74	
5	21.94	21.92	22.55	22.64	23.81	23.39	23.38	22.00	21.86	21.75	21.72	21.75	
6	21.94	21.92	22.54	22.56	24.96	23.35	23.22	22.00	21.86	21.74	21.74	21.74	
7	22.02	21.87	22.42	22.49	24.53	23.27	23.14	22.00	21.86	21.75	21.73	21.72	
8	21.96	21.91	22.45	22.47	24.21	23.34	23.11	21.99	21.83	21.74	21.72	22.00	
9	22.02	22.02	22.47	22.51	23.97	23.20	23.08	21.98	22.00	21.74	21.71	21.83	
10	21.69	22.06	22.48	22.78	23.65	23.19	23.05	21.98	21.84	21.73	21.58	22.02	
11	21.76	22.23	22.35	22.89	23.53	23.22	23.04	21.97	21.84	21.73	21.71	21.64	
12	21.88	22.19	22.30	22.94	23.44	23.16	22.51	21.96	21.83	21.73	21.70	21.69	
13	21.91	22.23	22.24	24.22	23.36	23.38	22.18	21.96	22.06	21.75	21.70	21.64	
14	21.92	22.11	22.20	23.44	23.60	23.21	22.21	21.95	21.81	21.73	21.71	21.89	
15	21.90	21.97	22.27	23.43	23.30	24.03	22.17	21.95	21.82	21.74	21.91	21.85	
16	21.89	22.07	22.35	23.19	23.26	24.01	22.15	21.93	21.82	21.74	21.69	21.86	
17	21.91	22.19	22.57	23.04	24.19	24.00	22.25	21.92	21.81	21.74	21.70	22.07	
18	21.91	22.48	22.57	23.37	23.55	23.89	22.51	21.93	21.82	21.73	21.69	21.65	
19	22.18	22.39	22.91	24.33	23.70	23.61	22.15	21.92	21.81	21.74	21.69	21.73	
20	22.13	22.33	23.15	25.05	23.56	23.69	22.13	21.92	21.78	21.72	21.70	22.11	
21	22.15	22.28	23.30	23.62	23.41	23.48	22.12	21.99	21.81	21.73	21.69	21.87	
22	21.94	22.21	22.83	23.40	23.28	23.64	22.10	21.92	21.80	21.72	21.70	21.68	
23	21.94	22.20	23.66	23.15	23.24	23.62	22.09	21.91	21.78	21.71	21.73	21.89	
24	21.74	22.12	23.86	22.94	23.85	23.82	22.08	21.90	21.76	21.71	21.73	22.00	
25	22.11	22.06	23.17	22.86	24.69	23.30	22.08	21.89	21.76	21.73	21.73	21.64	
26	22.14	22.13	22.80	22.76	24.54	23.27	22.06	21.88	21.75	21.72	21.72	21.87	
27	21.98	22.16	22.71	22.72	23.85	23.25	22.06	21.88	21.75	21.73	21.70	21.78	
28	21.95	22.13	22.70	22.74	24.11	23.28	22.05	21.86	21.76	21.76	21.73	21.78	
29	21.98	22.13	24.79	22.82	24.42	23.19	22.05	21.99	21.76	21.76		21.76	
30	21.96	22.24	24.19	23.07	24.09	23.18	22.04	21.87	21.76	21.76		21.76	
31		22.21		23.28	25.69		22.03		21.76	21.76		21.73	
Mean	21.96	22.11	22.83	23.12	24.08	23.51	22.49	21.95	21.83	21.74	21.72	21.81	
Max	22.18	22.48	24.79	25.05	26.82	24.22	23.38	22.02	22.06	21.76	21.91	22.11	26.82
Min	21.69	21.87	22.20	22.47	23.24	23.16	22.03	21.86	21.75	21.71	21.58	21.64	21.58

Annual Max Momentary Gage Height 28.25 M (MSL), at 12.00 Hours, on Aug 1, 1994
Zero Gage at Bottom Elevation 21.20 M (MSL), River Bed 21.04 M (MSL)
Left Bank Elevation 28.73 M (MSL)
Right Bank Elevation 28.70 M (MSL), Drainage Area 66 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.36	1.89	4.40	21.40	166.60	43.92	23.00	2.36	1.53	0.79	0.63	1.37	
2	2.01	1.77	5.96	12.92	59.60	33.78	9.96	2.36	1.47	0.79	0.68	0.90	
3	2.01	1.42	26.88	16.60	34.04	29.30	18.00	2.36	1.37	0.84	0.68	0.79	
4	2.28	1.70	14.40	13.28	77.92	28.42	17.80	2.28	1.42	0.74	0.63	0.74	
5	1.83	1.70	8.20	9.64	33.26	23.80	23.60	2.20	1.37	0.79	0.63	0.79	
6	1.83	1.70	8.04	8.36	67.28	23.00	20.40	2.20	1.37	0.74	0.74	0.74	
7	2.36	1.42	6.44	7.28	52.56	21.40	18.80	2.20	1.37	0.79	0.68	0.63	
8	1.95	1.64	6.80	7.04	43.66	22.80	18.20	2.14	1.21	0.74	0.63	2.20	
9	2.36	2.36	7.04	7.56	37.42	20.00	17.60	2.08	2.20	0.74	0.58	1.21	
10	0.47	2.68	7.16	11.88	29.30	19.80	17.00	2.08	1.26	0.68	0.00	2.36	
11	0.84	4.30	5.60	13.82	26.66	20.40	16.80	2.01	1.26	0.68	0.58	0.21	
12	1.47	3.90	5.00	14.80	24.80	19.20	7.56	1.95	1.21	0.68	0.53	0.47	
13	1.64	4.30	4.40	43.92	23.20	23.60	3.80	1.95	2.68	0.79	0.53	0.21	
14	1.70	3.10	4.00	24.80	28.20	20.20	4.10	1.89	1.11	0.68	0.58	1.53	
15	1.58	2.01	4.70	24.60	22.00	38.98	3.70	1.89	1.16	0.74	1.64	1.32	
16	1.53	2.76	5.60	19.80	21.20	38.46	3.50	1.77	1.16	0.74	0.47	1.37	
17	1.64	3.90	8.52	16.80	43.14	38.20	4.50	1.70	1.11	0.74	0.53	2.76	
18	1.64	7.16	8.52	23.40	27.10	35.34	7.56	1.77	1.16	0.68	0.47	0.26	
19	3.80	6.08	14.20	46.84	30.40	28.42	3.50	1.70	1.11	0.74	0.47	0.68	
20	3.30	5.36	19.00	70.70	27.32	30.18	3.30	1.70	0.95	0.63	0.53	3.10	
21	3.50	4.80	22.00	28.64	24.20	25.60	3.20	2.14	1.11	0.68	0.47	1.42	
22	1.83	4.10	12.74	24.00	21.60	29.08	3.00	1.70	1.05	0.63	0.53	0.42	
23	1.83	4.00	29.52	19.00	20.80	28.64	2.92	1.64	0.95	0.58	0.68	1.53	
24	0.74	3.20	34.56	14.80	34.30	33.52	2.84	1.58	0.84	0.58	0.68	2.20	
25	3.10	2.68	19.40	13.28	57.68	22.00	2.84	1.53	0.84	0.68	0.68	0.21	
26	3.40	3.30	12.20	11.56	52.88	21.40	2.68	1.47	0.79	0.63	0.63	1.42	
27	2.08	3.60	10.76	10.92	34.30	21.00	2.68	1.47	0.79	0.68	0.53	0.95	
28	1.89	3.30	10.60	11.24	41.06	21.60	2.60	1.37	0.84	0.84	0.68	0.95	
29	2.08	3.30	60.88	12.56	49.36	19.80	2.60	2.14	0.84	0.84		0.84	
30	1.95	4.40	43.14	17.40	40.54	19.60	2.52	1.42	0.84	0.84		0.84	
31		4.10		21.60	97.32		2.44		0.84	0.84		0.68	
Total	61.00	101.93	430.66	600.44	1349.70	801.44	273.00	57.05	37.21	22.56	17.09	35.10	3787.18 CMSDAY
Mean	2.03	3.29	14.36	19.37	43.54	26.71	8.81	1.90	1.20	0.73	0.61	1.13	10.38 CMS
Max	3.80	7.16	60.88	70.70	166.60	43.92	23.60	2.36	2.68	0.84	1.64	3.10	166.60 CMS
Min	0.47	1.42	4.00	7.04	20.80	19.20	2.44	1.37	0.79	0.58	0.00	0.21	0.00 CMS
Runoff	5.270	8.807	37.209	51.878	116.614	69.244	23.587	4.929	3.215	1.949	1.477	3.033	327.212 MCM

Momentary Peak 327.50 CMS, at 28.25 M (MSL), at 12.00 Hours, on Aug 1, 1994

Runoff Yield 157.21 Liters/Second/Square KM, Momentary Peak Yield 4962.12 Liters/Second/Square KM

WATER YEAR 1994

EAST COAST-GULF BASIN

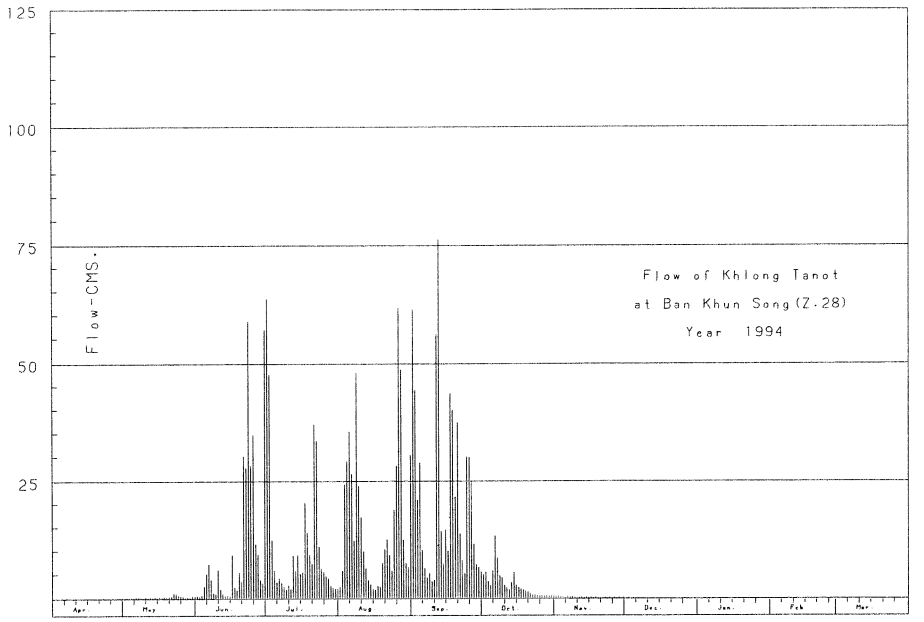
Khlong Tanot at Ban Khun Song, Chanthaburi (Z.28)

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	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 10 meters from the top staff gage.
Elevation	+7.655 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1986 to date.
Rating Operation	
Period of Rating	1986 to date.
Rated by Float	-
Rated by Current Meter	1986 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir during Apr.1-May 19, Nov.30,94-Mar.31,95,discharge estimated by recession equation. Stage-discharge relation defined by 55 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.14	0.79	0.72	5.82	1.24	5.70	1.66	0.71	0.66	0.94	0.75	0.49	
2	1.12	0.78	0.72	4.92	1.78	4.73	1.73	0.70	0.66	0.93	0.74	0.49	
3	1.11	0.79	0.78	2.50	3.45	3.22	1.46	0.69	0.71	0.93	0.72	0.48	
4	1.11	0.81	1.29	1.78	3.79	3.77	1.30	0.68	0.75	0.91	0.71	0.47	
5	1.16	0.79	1.70	1.44	4.19	2.28	1.77	0.67	0.82	0.91	0.69	0.54	
6	1.17	0.78	1.96	1.56	3.62	1.85	2.59	0.67	0.92	0.89	0.68	0.63	
7	1.15	0.77	1.50	1.41	2.47	1.60	2.12	0.66	0.92	0.88	0.67	0.91	
8	1.11	0.91	0.98	1.26	4.95	1.70	1.65	0.66	0.93	0.87	0.66	1.01	
9	1.04	1.02	0.89	1.16	3.43	1.46	1.58	0.66	0.93	0.86	0.65	1.03	
10	1.08	1.08	1.79	1.33	2.92	1.50	1.33	0.65	0.93	0.85	0.64	1.02	
11	1.07	1.41	1.17	1.16	2.26	5.39	1.22	0.64	0.92	0.85	0.63	1.01	
12	1.07	0.97	0.90	2.17	1.83	6.47	1.15	0.63	0.95	0.84	0.63	1.00	
13	1.06	0.81	0.78	1.77	1.51	2.67	1.41	0.63	0.96	0.84	0.63	0.98	
14	1.06	0.90	0.76	2.17	1.34	1.95	1.74	0.63	0.98	0.84	0.62	1.00	
15	1.18	0.80	0.77	1.70	1.20	2.69	1.32	0.62	1.04	0.83	0.61	0.99	
16	1.35	0.69	2.17	1.73	1.13	2.26	1.25	0.62	0.95	0.82	0.60	0.98	
17	1.01	0.68	1.25	3.18	1.30	4.70	1.17	0.62	1.01	0.81	0.59	0.97	
18	0.96	0.70	1.11	2.64	1.26	4.47	1.15	0.61	0.79	0.80	0.57	0.96	
19	0.95	0.67	1.74	2.17	1.97	3.27	1.06	0.61	0.76	0.79	0.55	0.99	
20	0.93	0.64	1.44	1.97	2.29	4.31	1.04	0.60	0.90	0.79	0.54	0.97	
21	0.92	0.74	3.86	4.28	2.51	2.63	0.94	0.60	0.98	0.79	0.54	0.97	
22	0.90	0.95	3.71	4.07	2.18	2.04	0.86	0.60	1.00	0.78	0.53	0.95	
23	0.86	0.91	5.56	2.36	1.78	1.71	0.84	0.60	1.00	0.77	0.51	0.94	
24	0.85	0.82	3.73	1.83	3.04	3.85	0.81	0.59	1.00	0.79	0.50	0.94	
25	0.83	0.73	4.15	1.75	3.74	3.85	0.79	0.59	1.00	0.77	0.49	0.93	
26	0.82	0.67	2.41	1.63	5.71	3.50	0.78	0.58	1.00	0.78	0.50	0.92	
27	0.81	0.62	2.18	1.55	4.99	2.40	0.76	0.58	1.00	0.78	0.49	0.89	
28	0.79	0.60	1.52	1.31	2.49	1.95	0.75	0.58	1.00	0.78	0.49	0.88	
29	0.79	0.62	1.38	1.21	1.98	1.86	0.75	0.58	0.97	0.78		0.88	
30	0.79	0.74	5.45	1.20	1.86	1.75	0.73	0.63	0.95	0.77		0.87	
31		0.73		1.18	3.87		0.72		0.95	0.76		0.85	
Mean	1.01	0.80	1.95	2.14	2.65	3.05	1.24	0.63	0.91	0.83	0.60	0.87	
Max	1.35	1.41	5.56	5.82	5.71	6.47	2.59	0.71	1.04	0.94	0.75	1.03	6.47
Min	0.79	0.60	0.72	1.16	1.13	1.46	0.72	0.58	0.66	0.76	0.49	0.47	0.47

Annual Max Momentary Gage Height 6.67 M (A.D), at 12.00 Hours, on Sep 12, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.01 M (A.D)
Left Bank Elevation 8.38 M (A.D)
Right Bank Elevation 6.68 M (A.D), Drainage Area 267 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.24	0.54	63.76	2.44	61.60	5.08	0.52	0.25	0.12	0.06	0.03	
2	0.12	0.25	0.54	47.56	6.04	44.28	5.64	0.50	0.24	0.12	0.06	0.03	
3	0.13	0.26	0.66	12.60	24.30	21.08	3.76	0.48	0.24	0.12	0.06	0.03	
4	0.13	0.26	2.74	6.04	29.24	28.92	2.80	0.46	0.23	0.11	0.05	0.03	
5	0.13	0.27	5.40	3.64	35.64	10.40	5.96	0.44	0.23	0.11	0.05	0.03	
6	0.14	0.27	7.48	4.36	26.68	6.60	13.50	0.44	0.22	0.11	0.05	0.03	
7	0.14	0.28	4.00	3.46	12.30	4.60	8.80	0.42	0.22	0.10	0.05	0.03	
8	0.14	0.29	1.32	2.56	48.10	5.40	5.00	0.42	0.21	0.10	0.05	0.03	
9	0.15	0.29	0.97	2.04	24.02	3.76	4.48	0.42	0.21	0.10	0.05	0.03	
10	0.15	0.30	6.12	2.98	17.44	4.00	2.98	0.40	0.20	0.10	0.05	0.02	
11	0.15	0.31	2.08	2.04	10.20	56.02	2.32	0.38	0.20	0.10	0.05	0.02	
12	0.16	0.32	1.00	9.30	6.44	76.20	2.00	0.36	0.19	0.09	0.05	0.02	
13	0.16	0.32	0.66	5.96	4.06	14.44	3.46	0.36	0.19	0.09	0.04	0.02	
14	0.16	0.33	0.62	9.30	3.04	7.40	5.72	0.36	0.18	0.09	0.04	0.02	
15	0.17	0.34	0.64	5.40	2.20	14.68	2.92	0.34	0.18	0.09	0.04	0.02	
16	0.17	0.35	9.30	5.64	1.92	10.20	2.50	0.34	0.18	0.09	0.04	0.02	
17	0.18	0.35	2.50	20.56	2.80	43.80	2.08	0.34	0.17	0.08	0.04	0.02	
18	0.18	0.36	1.84	14.08	2.56	40.12	2.00	0.32	0.17	0.08	0.04	0.02	
19	0.18	0.37	5.72	9.30	7.56	21.78	1.64	0.32	0.16	0.08	0.04	0.02	
20	0.19	0.38	3.64	7.56	10.50	37.56	1.56	0.30	0.16	0.08	0.04	0.02	
21	0.19	0.58	30.36	37.08	12.70	13.96	1.16	0.30	0.16	0.08	0.04	0.02	
22	0.20	1.20	27.96	33.72	9.40	8.12	0.88	0.30	0.15	0.07	0.04	0.02	
23	0.20	1.04	59.08	11.20	6.04	5.48	0.82	0.30	0.15	0.07	0.04	0.02	
24	0.21	0.76	28.28	6.44	18.88	30.20	0.73	0.28	0.15	0.07	0.03	0.02	
25	0.21	0.56	35.00	5.80	28.44	30.20	0.68	0.28	0.14	0.07	0.03	0.02	
26	0.22	0.44	11.70	4.84	61.78	25.00	0.66	0.26	0.14	0.07	0.03	0.02	
27	0.22	0.34	9.40	4.30	48.82	11.60	0.62	0.26	0.14	0.07	0.03	0.02	
28	0.23	0.30	4.12	2.86	12.50	7.40	0.60	0.26	0.13	0.06	0.03	0.02	
29	0.23	0.34	3.28	2.26	7.64	6.68	0.60	0.26	0.13	0.06		0.02	
30	0.24	0.58	57.10	2.20	6.68	5.80	0.56	0.25	0.13	0.06		0.02	
31		0.56		2.12	30.52		0.54		0.12	0.06		0.02	
Total	5.20	12.84	324.05	350.96	520.88	657.28	92.05	10.67	5.57	2.70	1.22	0.71	1984.13 CMSDAY
Mean	0.17	0.41	10.80	11.32	16.80	21.91	2.97	0.36	0.18	0.09	0.04	0.02	5.44 CMS
Max	0.24	1.20	59.08	63.76	61.78	76.20	13.50	0.52	0.25	0.12	0.06	0.03	76.20 CMS
Min	0.12	0.24	0.54	2.04	1.92	3.76	0.54	0.25	0.12	0.06	0.03	0.02	0.02 CMS
Runoff	0.449	1.109	27.998	30.323	45.004	56.789	7.953	0.922	0.481	0.233	0.105	0.061	171.429 MCM

Momentary Peak 80.20 CMS, at 6.67 M (A.D), at 12.00 Hours, on Sep 12, 1994

Runoff Yield 20.36 Liters/Second/Square KM, Momentary Peak Yield 300.37 Liters/Second/Square KM

WATER YEAR 1994

EAST COAST-GULF BASIN

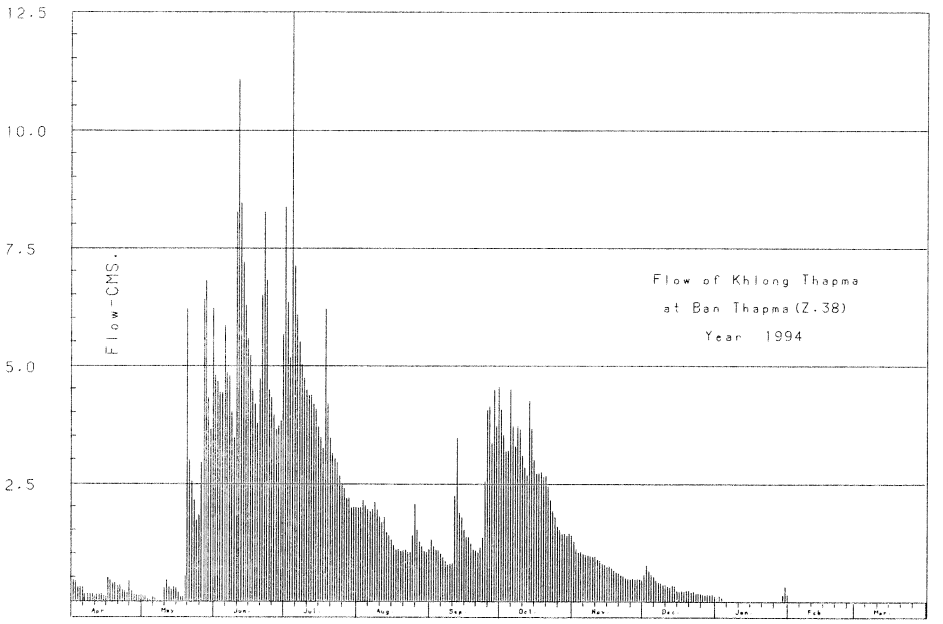
Khlong Thap Ma at Ban Thap Ma, Rayong (Z.38)

Location	Lat. 12°-44'-11" N., Long. 100°-46'-05" E., on left bank at the bridge on road, near Wat Khao Bot, Tambon Thap Ma, 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 fair. Stage-discharge relation defined by 25 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	0.44	1.55	2.03	1.00	0.83	1.43	0.82	0.59	0.43	0.39	0.30	
2	0.54	0.44	1.53	1.78	1.00	0.79	1.34	0.77	0.66	0.44	0.38	0.29	
3	0.50	0.42	1.49	1.61	1.04	0.77	1.28	0.75	0.62	0.43	0.36	0.29	
4	0.50	0.41	1.49	2.57	1.01	0.76	1.28	0.75	0.59	0.41	0.36	0.29	
5	0.50	0.43	1.71	1.88	0.99	0.74	1.50	0.74	0.58	0.40	0.35	0.31	
6	0.45	0.42	1.56	1.74	0.98	0.71	1.37	0.73	0.55	0.39	0.34	0.35	
7	0.45	0.39	1.55	1.66	0.99	0.69	1.30	0.73	0.54	0.39	0.33	0.32	
8	0.45	0.38	1.42	1.59	1.03	0.66	1.37	0.72	0.53	0.39	0.32	0.29	
9	0.45	0.41	1.33	1.54	0.99	0.67	1.36	0.72	0.52	0.39	0.31	0.30	
10	0.44	0.49	2.02	1.50	0.95	0.67	1.26	0.72	0.52	0.39	0.31	0.30	
11	0.45	0.55	2.33	1.48	0.92	1.06	1.21	0.70	0.51	0.39	0.33	0.35	
12	0.45	0.50	2.04	1.48	0.95	1.33	1.17	0.69	0.50	0.38	0.33	0.31	
13	0.45	0.48	1.89	1.45	0.87	0.97	1.46	0.67	0.52	0.37	0.35	0.29	
14	0.44	0.50	1.77	1.43	0.85	0.95	1.36	0.66	0.51	0.35	0.35	0.28	
15	0.43	0.49	1.67	1.37	0.83	0.88	1.24	0.65	0.48	0.35	0.35	0.28	
16	0.57	0.46	1.62	1.33	0.80	0.84	1.18	0.65	0.47	0.35	0.35	0.28	
17	0.55	0.43	1.50	1.29	0.77	0.84	1.18	0.64	0.48	0.35	0.34	0.28	
18	0.53	0.43	1.45	1.76	0.77	0.81	1.19	0.62	0.47	0.33	0.33	0.28	
19	0.53	0.58	1.38	1.45	0.76	0.77	1.16	0.61	0.48	0.32	0.32	0.28	
20	0.51	1.76	1.54	1.33	0.76	0.76	1.17	0.60	0.48	0.32	0.30	0.28	
21	0.51	1.24	1.80	1.27	0.77	0.75	1.11	0.59	0.47	0.31	0.29	0.28	
22	0.48	1.14	2.02	1.25	0.75	0.78	1.04	0.58	0.47	0.31	0.30	0.28	
23	0.47	1.04	1.84	1.23	0.75	0.84	0.98	0.57	0.46	0.30	0.30	0.28	
24	0.46	0.93	1.50	1.17	0.85	1.14	0.95	0.56	0.46	0.30	0.30	0.28	
25	0.55	0.96	1.47	1.13	1.02	1.43	0.90	0.56	0.46	0.30	0.30	0.28	
26	0.47	1.23	1.41	1.10	0.88	1.44	0.88	0.56	0.45	0.30	0.30	0.28	
27	0.45	1.79	1.36	1.05	0.82	1.31	0.86	0.56	0.45	0.32	0.30	0.28	
28	0.44	1.84	1.37	1.05	0.79	1.50	0.86	0.56	0.45	0.38	0.30	0.27	
29	0.44	1.47	1.39	1.00	0.76	1.37	0.85	0.56	0.45	0.45		0.27	
30	0.44	1.36	1.68	1.00	0.75	1.51	0.86	0.55	0.45	0.51		0.27	
31		1.76		1.00	0.77		0.85		0.44	0.45		0.27	
Mean	0.48	0.81	1.62	1.44	0.88	0.95	1.16	0.65	0.50	0.37	0.33	0.29	
Max	0.57	1.84	2.33	2.57	1.04	1.51	1.50	0.82	0.66	0.51	0.39	0.35	2.57
Min	0.43	0.38	1.33	1.00	0.75	0.66	0.85	0.55	0.44	0.30	0.29	0.27	0.27

Annual Max Momentary Gage Height 2.68 M (A.D), at 9.00 Hours, on Jul 4, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.33 M (A.D)
Left Bank Elevation 2.66 M (A.D)
Right Bank Elevation 3.33 M (A.D), Drainage Area 151 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.12	4.80	8.37	2.00	1.32	4.08	1.28	0.57	0.09	0.00	0.00	
2	0.42	0.12	4.68	6.36	2.00	1.17	3.54	1.11	0.78	0.12	0.00	0.00	
3	0.30	0.06	4.44	5.17	2.16	1.11	3.20	1.05	0.66	0.09	0.00	0.00	
4	0.30	0.03	4.44	13.23	2.04	1.08	3.20	1.05	0.57	0.03	0.00	0.00	
5	0.30	0.09	5.87	7.14	1.96	1.02	4.50	1.02	0.54	0.00	0.00	0.00	
6	0.15	0.06	4.86	6.08	1.92	0.93	3.72	0.99	0.45	0.00	0.00	0.00	
7	0.15	0.00	4.80	5.52	1.96	0.87	3.30	0.99	0.42	0.00	0.00	0.00	
8	0.15	0.00	4.02	5.04	2.12	0.78	3.72	0.96	0.39	0.00	0.00	0.00	
9	0.15	0.03	3.48	4.74	1.96	0.81	3.66	0.96	0.36	0.00	0.00	0.00	
10	0.12	0.27	8.28	4.50	1.80	0.81	3.10	0.96	0.36	0.00	0.00	0.00	
11	0.15	0.45	11.07	4.38	1.68	2.24	2.85	0.90	0.33	0.00	0.00	0.00	
12	0.15	0.30	8.46	4.38	1.80	3.48	2.68	0.87	0.30	0.00	0.00	0.00	
13	0.15	0.24	7.22	4.20	1.48	1.88	4.26	0.81	0.36	0.00	0.00	0.00	
14	0.12	0.30	6.29	4.08	1.40	1.80	3.66	0.78	0.33	0.00	0.00	0.00	
15	0.09	0.27	5.59	3.72	1.32	1.52	3.00	0.75	0.24	0.00	0.00	0.00	
16	0.51	0.18	5.24	3.48	1.20	1.36	2.72	0.75	0.21	0.00	0.00	0.00	
17	0.45	0.09	4.50	3.25	1.11	1.36	2.72	0.72	0.24	0.00	0.00	0.00	
18	0.39	0.09	4.20	6.22	1.11	1.24	2.76	0.66	0.21	0.00	0.00	0.00	
19	0.39	0.54	3.78	4.20	1.08	1.11	2.64	0.63	0.24	0.00	0.00	0.00	
20	0.33	6.22	4.74	3.48	1.08	1.08	2.68	0.60	0.24	0.00	0.00	0.00	
21	0.33	3.00	6.50	3.15	1.11	1.05	2.44	0.57	0.21	0.00	0.00	0.00	
22	0.24	2.56	8.28	3.05	1.05	1.14	2.16	0.54	0.21	0.00	0.00	0.00	
23	0.21	2.16	6.82	2.95	1.05	1.36	1.92	0.51	0.18	0.00	0.00	0.00	
24	0.18	1.72	4.50	2.68	1.40	2.56	1.80	0.48	0.18	0.00	0.00	0.00	
25	0.45	1.84	4.32	2.52	2.08	4.08	1.60	0.48	0.18	0.00	0.00	0.00	
26	0.21	2.95	3.96	2.40	1.52	4.14	1.52	0.48	0.15	0.00	0.00	0.00	
27	0.15	6.43	3.66	2.20	1.28	3.36	1.44	0.48	0.15	0.00	0.00	0.00	
28	0.12	6.82	3.72	2.20	1.17	4.50	1.44	0.48	0.15	0.00	0.00	0.00	
29	0.12	4.32	3.84	2.00	1.08	3.72	1.40	0.48	0.15	0.15		0.00	
30	0.12	3.66	5.66	2.00	1.05	4.56	1.44	0.45	0.15	0.33		0.00	
31		6.22		2.00	1.11		1.40		0.12	0.15		0.00	
Total	7.35	51.14	162.02	134.69	47.08	57.44	84.55	22.79	9.63	0.96	0.00	0.00	577.65 CMSDAY
Mean	0.24	1.65	5.40	4.34	1.52	1.91	2.73	0.76	0.31	0.03	0.00	0.00	1.58 CMS
Max	0.51	6.82	11.07	13.23	2.16	4.56	4.50	1.28	0.78	0.33	0.00	0.00	13.23 CMS
Min	0.09	0.00	3.48	2.00	1.05	0.78	1.40	0.45	0.12	0.00	0.00	0.00	0.00 CMS
Runoff	0.635	4.418	13.999	11.637	4.068	4.963	7.305	1.969	0.832	0.083	0.000	0.000	49.909 MCM

Momentary Peak 14.30 CMS, at 2.68 M (A.D), at 9.00 Hours, on Jul 4, 1994

Runoff Yield 10.48 Liters/Second/Square KM, Momentary Peak Yield 94.70 Liters/Second/Square KM

WATER YEAR 1994

MAE KLONG RIVER BASIN

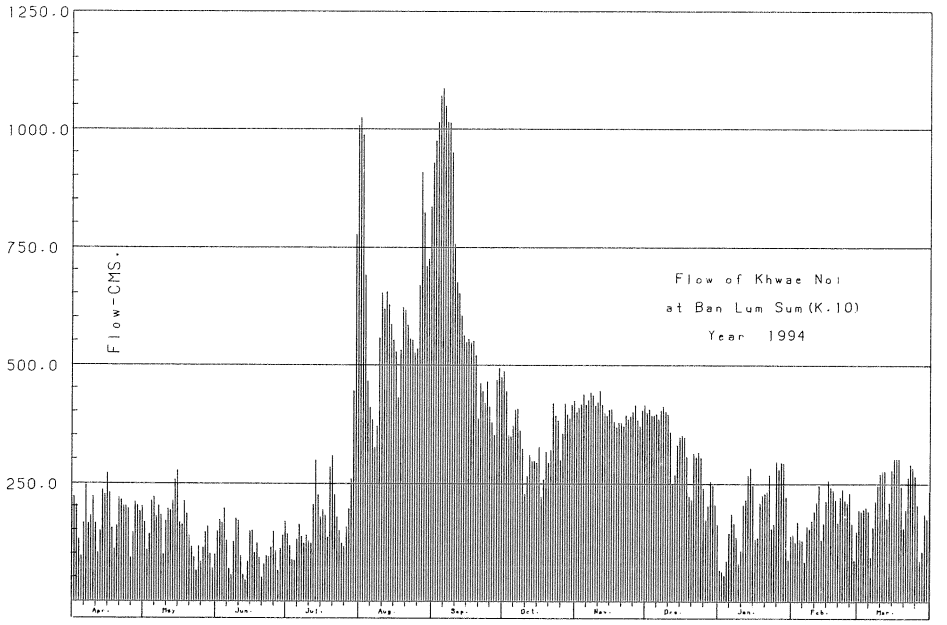
Khwae Noi River at Ban Lum Sum, Kanchanaburi (K.10)

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 271 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.47	32.79	32.57	32.48	40.48	39.82	36.38	35.51	35.48	31.54	32.47	33.14	
2	33.27	32.06	32.86	32.19	40.23	40.14	35.97	35.60	35.57	31.48	32.28	33.08	
3	32.34	32.49	32.78	31.79	38.11	40.41	34.95	35.68	35.43	31.40	32.82	33.16	
4	31.91	33.36	33.18	31.79	36.17	40.77	34.94	35.91	35.41	31.77	32.34	33.19	
5	32.77	33.48	32.32	32.35	35.62	40.88	35.18	35.69	35.46	32.52	32.33	33.11	
6	33.79	32.94	31.58	32.75	35.31	40.63	35.55	35.77	35.33	33.01	31.76	31.88	
7	32.78	33.24	31.39	32.41	34.68	40.40	35.59	35.95	35.55	32.78	32.69	32.69	
8	32.96	32.98	32.27	32.25	35.16	40.40	35.08	35.87	35.63	32.39	32.64	33.36	
9	33.47	31.95	32.90	32.45	37.04	39.97	34.64	35.67	35.52	31.71	32.84	33.79	
10	32.78	32.84	32.83	32.29	37.81	38.61	33.56	35.73	35.44	32.04	33.10	34.05	
11	32.00	33.14	31.90	32.25	37.54	37.99	34.01	35.96	35.03	33.28	33.33	34.11	
12	32.58	33.12	31.42	33.26	37.84	37.80	34.49	35.69	33.81	33.39	33.79	34.13	
13	33.64	33.38	31.24	34.38	37.63	37.43	34.34	35.47	34.02	34.01	32.34	32.90	
14	33.52	33.90	31.77	33.54	37.27	37.07	34.36	35.43	34.73	34.20	32.78	33.34	
15	34.07	34.13	32.57	32.94	36.99	36.96	34.31	35.57	34.91	33.79	33.36	34.16	
16	33.59	32.78	32.57	33.12	36.78	37.01	34.69	35.56	34.94	32.34	33.90	34.41	
17	32.63	32.74	32.00	32.98	35.83	36.95	33.47	35.28	34.92	32.40	33.74	34.41	
18	32.08	33.35	32.26	32.41	36.80	36.97	33.93	35.14	34.46	33.32	33.65	34.42	
19	32.71	33.03	31.85	34.20	37.57	36.71	34.57	35.24	33.50	33.50	33.41	33.76	
20	33.45	32.43	31.33	34.49	37.53	35.36	34.32	35.24	33.39	33.57	32.79	32.66	
21	33.40	32.15	31.70	33.54	37.26	36.13	34.61	35.18	34.53	33.60	33.47	33.13	
22	33.22	31.88	31.92	32.93	37.03	35.97	35.72	35.43	34.45	34.02	33.70	33.97	
23	33.24	31.53	31.87	32.57	36.99	35.71	35.43	35.32	34.55	32.64	33.40	34.29	
24	33.17	32.16	32.14	32.25	36.74	36.18	35.30	35.41	34.44	32.74	33.31	34.20	
25	31.87	31.74	32.55	32.14	36.84	35.64	34.38	35.50	33.69	34.34	33.58	34.01	
26	32.52	32.14	32.03	32.67	37.94	35.26	34.99	35.68	32.87	34.17	32.78	33.27	
27	33.33	32.54	31.52	33.16	39.70	34.97	35.70	35.32	33.24	34.33	31.81	31.78	
28	33.25	32.68	32.09	33.92	39.09	36.20	35.46	35.16	33.86	34.29	32.55	32.04	
29	33.09	31.97	32.46	35.97	38.24	36.46	35.35	35.55	33.79	33.48		33.01	
30	33.21	31.57	32.82	38.75	38.36	36.25	35.68	35.66	33.26	31.81		32.90	
31		31.93		40.35	39.17		35.76		32.74	32.44		33.60	
Mean	33.00	32.66	32.16	33.37	37.41	37.70	34.93	35.54	34.51	32.98	32.96	33.42	
Max	34.07	34.13	33.18	40.35	40.48	40.88	36.38	35.96	35.63	34.34	33.90	34.42	40.88
Min	31.87	31.53	31.24	31.79	34.68	34.97	33.47	35.14	32.74	31.40	31.76	31.78	31.24

Annual Max Momentary Gage Height 40.93 M (MSL), at 6.00 Hours, on Sep 5, 1994
Zero Gage at Bottom Elevation 30.40 M (MSL), River Bed 29.96 M (MSL)
Left Bank Elevation 51.66 M (MSL)
Right Bank Elevation 46.66 M (MSL), Drainage Area 7008 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	221.6	167.2	149.6	142.4	1027.0	928.0	487.0	401.9	399.2	67.2	141.6	195.2	
2	205.6	108.8	172.8	119.2	989.5	976.0	446.0	410.0	407.3	62.4	126.4	190.4	
3	131.2	143.2	166.4	87.2	692.3	1016.5	351.5	417.2	394.7	56.0	169.6	196.8	
4	96.8	212.8	198.4	87.2	466.0	1070.5	350.6	440.0	392.9	85.6	131.2	199.2	
5	165.6	222.4	129.6	132.0	411.8	1087.8	372.2	418.1	397.4	145.6	130.4	192.8	
6	247.2	179.2	70.4	164.0	383.9	1049.5	405.5	426.0	385.7	184.8	84.8	94.4	
7	166.4	203.2	55.3	136.8	327.2	1015.0	409.1	444.0	405.5	166.4	159.2	159.2	
8	180.8	182.4	125.6	124.0	370.4	1015.0	363.2	436.0	412.7	135.2	155.2	212.8	
9	221.6	100.0	176.0	140.0	558.8	950.5	323.6	416.3	402.8	80.8	171.2	247.2	
10	166.4	171.2	170.4	127.2	653.3	757.4	228.8	422.0	395.6	107.2	192.0	270.5	
11	104.0	195.2	96.0	124.0	618.8	676.7	266.9	445.0	358.7	206.4	210.4	275.9	
12	150.4	193.6	57.6	204.8	657.2	652.0	310.1	418.1	248.9	215.2	247.2	277.7	
13	235.2	214.4	44.8	300.2	629.9	605.6	296.6	398.3	267.8	266.9	131.2	176.0	
14	225.6	257.0	85.6	227.2	586.4	562.4	298.4	394.7	331.7	284.0	166.4	211.2	
15	272.3	277.7	149.6	179.2	552.9	549.6	293.9	407.3	347.9	247.2	212.8	280.4	
16	231.2	166.4	149.6	193.6	529.8	555.2	328.1	406.4	350.6	131.2	257.0	302.9	
17	154.4	163.2	104.0	182.4	432.0	548.5	221.6	381.2	348.8	136.0	243.2	302.9	
18	110.4	212.0	124.8	136.8	532.0	550.7	259.7	368.6	307.4	209.6	236.0	303.8	
19	160.8	186.4	92.0	284.0	622.4	522.1	317.3	377.6	224.0	224.0	216.8	244.8	
20	220.0	138.4	51.1	310.1	617.6	388.4	294.8	377.6	215.2	229.6	167.2	156.8	
21	216.0	116.0	80.0	227.2	585.2	462.0	320.9	372.2	313.7	232.0	221.6	194.4	
22	201.6	94.4	97.6	178.4	557.6	446.0	421.0	394.7	306.5	267.8	240.0	263.3	
23	203.2	66.4	93.6	149.6	552.9	420.0	394.7	384.8	315.5	155.2	216.0	292.1	
24	197.6	116.8	115.2	124.0	525.4	467.0	383.0	392.9	305.6	163.2	208.8	284.0	
25	93.6	83.2	148.0	115.2	536.4	413.6	300.2	401.0	239.2	296.6	230.4	266.9	
26	145.6	115.2	106.4	157.6	670.2	379.4	355.1	417.2	173.6	281.3	166.4	205.6	
27	210.4	147.2	65.6	196.8	910.0	353.3	419.0	384.8	203.2	295.7	88.8	86.4	
28	204.0	158.4	111.2	258.8	824.6	469.0	397.4	370.4	253.4	292.1	148.0	107.2	
29	191.2	101.6	140.8	446.0	709.2	495.0	387.5	405.5	247.2	222.4		184.8	
30	200.8	69.6	169.6	777.0	724.8	474.0	417.2	415.4	204.8	88.8		176.0	
31		98.4		1007.5	835.8		425.0		163.2	139.2		232.0	
Total	5531.5	4861.9	3497.6	7040.4	19091.3	19856.7	10845.9	12145.2	9720.7	5675.6	5069.8	6783.6	110120.2 CMSDAY
Mean	184.4	156.8	116.6	227.1	615.8	661.9	349.9	404.8	313.6	183.1	181.1	218.8	301.7 CMS
Max	272.3	277.7	198.4	1007.5	1027.0	1087.8	487.0	445.0	412.7	296.6	257.0	303.8	1087.8 CMS
Min	93.6	66.4	44.8	87.2	327.2	353.3	221.6	368.6	163.2	56.0	84.8	86.4	44.8 CMS
Runoff	477.92	420.07	302.19	608.29	1649.49	1715.62	937.09	1049.35	839.87	490.37	438.03	586.10	9514.39 MCM

Momentary Peak 1095.80 CMS, at 40.93 M (MSL), at 6.00 Hours, on Sep 5, 1994

Runoff Yield 43.05 Liters/Second/Square KM, Momentary Peak Yield 156.36 Liters/Second/Square KM

WATER YEAR 1994

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 — +21.985 m. (M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1965 to date.

Rating Operation

Period of Rating — 1965-1969, 1972 to date.

Rated by Float — -

Rated by Current Meter — 1965-1969, 1972 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Flow regulated by Vachiralongkorn Diversion Dam. Stage-discharge relation defined by 55 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

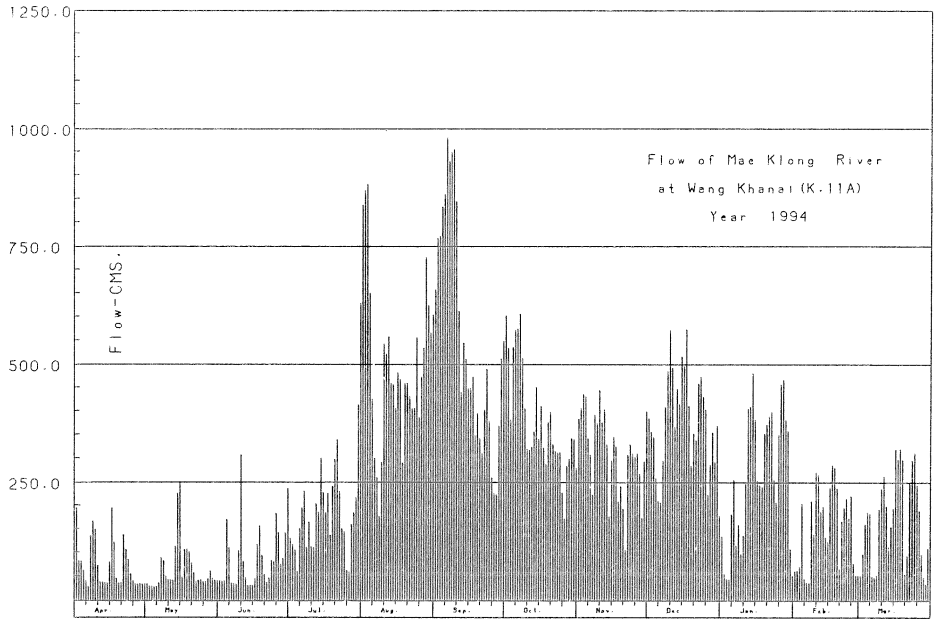
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.21	11.15	11.21	11.86	14.47	13.94	13.77	13.00	13.00	11.89	11.39	11.31	
2	11.56	11.11	11.21	11.78	14.55	14.27	13.53	13.08	12.89	11.34	11.40	11.66	
3	11.55	11.10	11.21	11.71	14.59	14.28	12.99	13.19	12.85	11.25	11.47	12.03	
4	11.41	11.09	12.08	11.39	13.92	14.46	13.54	13.17	12.49	11.24	12.25	12.16	
5	11.21	11.09	11.74	11.98	13.15	14.53	13.66	12.84	12.28	12.14	11.26	12.15	
6	11.10	11.18	11.17	12.21	12.67	14.85	13.67	12.70	12.26	12.48	11.18	11.30	
7	11.90	11.60	11.16	12.37	12.50	14.72	13.78	12.34	12.65	11.77	11.18	11.28	
8	12.06	11.56	11.15	11.75	12.12	14.77	13.46	13.03	13.09	12.02	12.28	11.32	
9	11.97	11.30	11.70	12.05	12.63	14.79	13.08	12.96	13.36	11.66	11.91	12.19	
10	11.49	11.24	12.70	11.76	13.56	14.49	12.75	13.22	13.66	11.90	12.55	12.40	
11	11.19	11.23	11.55	11.74	13.49	13.80	12.74	12.97	13.39	12.46	12.52	12.51	
12	11.19	11.23	11.27	12.25	13.62	13.20	12.77	13.07	12.93	13.08	12.17	12.23	
13	11.18	11.76	11.12	12.16	13.27	13.57	12.89	12.79	13.23	13.09	12.22	11.75	
14	11.17	12.35	11.12	12.67	13.26	13.45	13.24	12.11	13.11	13.35	11.88	12.00	
15	11.54	12.46	11.12	12.36	13.08	13.23	12.83	12.65	13.47	12.99	11.82	12.20	
16	12.21	11.28	11.25	12.16	13.35	13.23	13.10	12.85	13.40	12.47	12.41	12.75	
17	11.81	11.72	11.78	12.35	13.30	13.32	12.76	12.77	13.67	12.43	12.61	12.66	
18	11.26	11.72	12.01	11.90	12.63	12.86	12.62	12.27	13.10	12.41	12.59	12.75	
19	11.17	11.69	11.64	12.42	13.27	13.04	12.97	12.42	12.60	12.88	12.40	12.66	
20	11.18	11.52	11.34	12.66	13.27	12.84	13.05	12.20	12.88	12.95	11.43	11.34	
21	11.91	11.37	11.18	12.83	13.17	12.71	12.79	11.71	12.82	13.02	12.06	11.63	
22	11.72	11.19	11.27	12.37	13.08	13.07	12.73	12.70	13.27	13.05	12.21	12.45	
23	11.57	11.23	11.56	11.98	13.08	13.38	12.72	12.79	13.32	12.48	12.30	12.65	
24	11.35	11.23	11.54	11.94	13.61	12.98	12.72	12.71	13.17	12.26	12.10	12.72	
25	11.22	11.20	12.15	11.41	13.01	12.50	12.36	12.68	13.07	12.87	12.33	12.43	
26	11.15	11.20	11.93	11.37	13.32	12.35	12.09	12.71	12.34	13.26	11.52	12.18	
27	11.15	11.26	11.51	12.03	13.53	12.34	12.60	12.53	12.61	13.30	11.32	11.65	
28	11.15	11.40	11.59	12.15	14.15	12.94	12.66	12.10	12.89	12.99	11.31	11.28	
29	11.15	11.26	11.93	12.31	13.84	13.45	12.84	12.64	12.64	12.90		11.15	
30	11.15	11.23	12.40	13.11	13.64	13.58	12.83	13.06	12.94	11.73		11.73	
31		11.21		13.85	13.77		12.58		12.12	11.31		11.63	
Mean	11.46	11.39	11.55	12.16	13.38	13.56	12.97	12.71	12.95	12.42	11.93	12.00	
Max	12.21	12.46	12.70	13.85	14.59	14.85	13.78	13.22	13.67	13.35	12.61	12.75	14.85
Min	11.10	11.09	11.12	11.37	12.12	12.34	12.09	11.71	12.12	11.24	11.18	11.15	11.09

Annual Max Momentary Gage Height — 15.07 M (MSL), at 10.00 Hours, on Oct 3, 1994

Zero Gage at Bottom Elevation — 10.00 M (MSL), River Bed 9.19 M (MSL)

Left Bank Elevation — 16.33 M (MSL)

Right Bank Elevation — 14.97 M (MSL), Drainage Area 26449 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	197.1	35.0	41.1	131.2	839.2	658.8	605.0	386.0	386.0	136.3	61.8	52.2	
2	84.4	31.0	41.1	117.8	868.5	768.5	534.7	407.6	357.4	55.8	63.0	99.0	
3	83.0	30.0	41.1	106.6	883.3	772.0	383.4	438.2	347.0	45.5	72.1	161.7	
4	64.3	29.1	171.2	61.8	652.4	835.6	537.6	432.6	258.7	44.4	205.5	187.0	
5	41.1	29.1	111.4	152.4	427.0	861.1	572.4	344.4	211.8	183.0	46.6	185.0	
6	30.0	38.0	37.0	197.1	301.8	981.0	575.3	309.0	207.6	256.4	38.0	51.0	
7	138.0	90.0	36.0	231.4	261.0	931.4	608.0	224.8	297.0	116.2	38.0	48.8	
8	167.4	84.4	35.0	113.0	179.0	949.9	514.4	394.1	410.3	159.8	211.8	53.4	
9	150.6	51.0	105.0	165.5	292.2	957.3	407.6	375.6	485.8	99.0	139.8	193.0	
10	74.7	44.4	309.0	114.6	543.4	846.4	321.5	446.6	572.4	138.0	273.0	238.0	
11	39.0	43.3	83.0	111.4	523.1	614.0	319.0	378.2	494.2	251.8	265.8	263.4	
12	39.0	43.3	47.7	205.5	560.8	441.0	326.5	404.9	367.8	407.6	189.0	201.3	
13	38.0	114.6	32.0	187.0	460.6	546.3	357.4	331.5	449.4	410.3	199.2	113.0	
14	37.0	227.0	32.0	301.8	457.8	511.5	452.2	177.0	415.8	483.0	134.6	156.0	
15	81.6	251.8	32.0	229.2	407.6	449.4	341.8	297.0	517.3	383.4	124.4	195.0	
16	197.1	48.8	45.5	187.0	483.0	449.4	413.0	347.0	497.0	254.1	240.3	321.5	
17	122.7	108.2	117.8	227.0	469.0	474.6	324.0	326.5	575.3	244.9	287.4	299.4	
18	46.6	108.2	157.9	138.0	292.2	349.6	289.8	209.7	413.0	240.3	282.6	321.5	
19	37.0	103.5	96.0	242.6	460.6	396.8	378.2	242.6	285.0	354.8	238.0	299.4	
20	38.0	78.8	55.8	299.4	460.6	344.4	399.5	195.0	354.8	373.0	66.9	55.8	
21	139.8	59.4	38.0	341.8	432.6	311.5	331.5	106.6	339.2	391.4	167.4	94.5	
22	108.2	39.0	47.7	231.4	407.6	404.9	316.5	309.0	460.6	399.5	197.1	249.5	
23	85.8	43.3	84.4	152.4	407.6	491.4	314.0	331.5	474.6	256.4	216.0	297.0	
24	57.0	43.3	81.6	145.2	557.9	380.8	314.0	311.5	432.6	207.6	175.0	314.0	
25	42.2	40.0	185.0	64.3	388.7	261.0	229.2	304.2	404.9	352.2	222.6	244.9	
26	35.0	40.0	143.4	59.4	474.6	227.0	173.1	311.5	224.8	457.8	78.8	191.0	
27	35.0	46.6	77.4	161.7	534.7	224.8	285.0	268.2	287.4	469.0	53.4	97.5	
28	35.0	63.0	88.6	185.0	727.0	370.4	299.4	175.0	357.4	383.4	52.2	48.8	
29	35.0	46.6	143.4	218.2	626.8	511.5	344.4	294.6	294.6	360.0		35.0	
30	35.0	43.3	238.0	415.8	566.6	549.2	341.8	402.2	370.4	109.8		109.8	
31		41.1		630.0	605.0		280.2		179.0	52.2		94.5	
Total	2314.6	2095.1	2755.1	6125.5	15552.2	16871.5	11890.4	9482.6	11729.1	8076.9	4340.3	5271.9	96505.2 CMSDAY
Mean	77.2	67.6	91.8	197.6	501.7	562.4	383.6	316.1	378.4	260.5	155.0	170.1	264.4 CMS
Max	197.1	251.8	309.0	630.0	883.3	981.0	608.0	446.6	575.3	483.0	287.4	321.5	981.0 CMS
Min	30.0	29.1	32.0	59.4	179.0	224.8	173.1	106.6	179.0	44.4	38.0	35.0	29.1 CMS
Runoff	199.98	181.02	238.04	529.24	1343.71	1457.70	1027.33	819.30	1013.39	697.84	375.00	455.49	8338.05 MCM

Momentary Peak 1069.00 CMS, at 15.07 M (MSL), at 10.00 Hours, on Oct 3, 1994

Runoff Yield 10.00 Liters/Second/Square KM, Momentary Peak Yield 40.42 Liters/Second/Square KM

WATER YEAR 1994

MAE KLONG RIVER BASIN

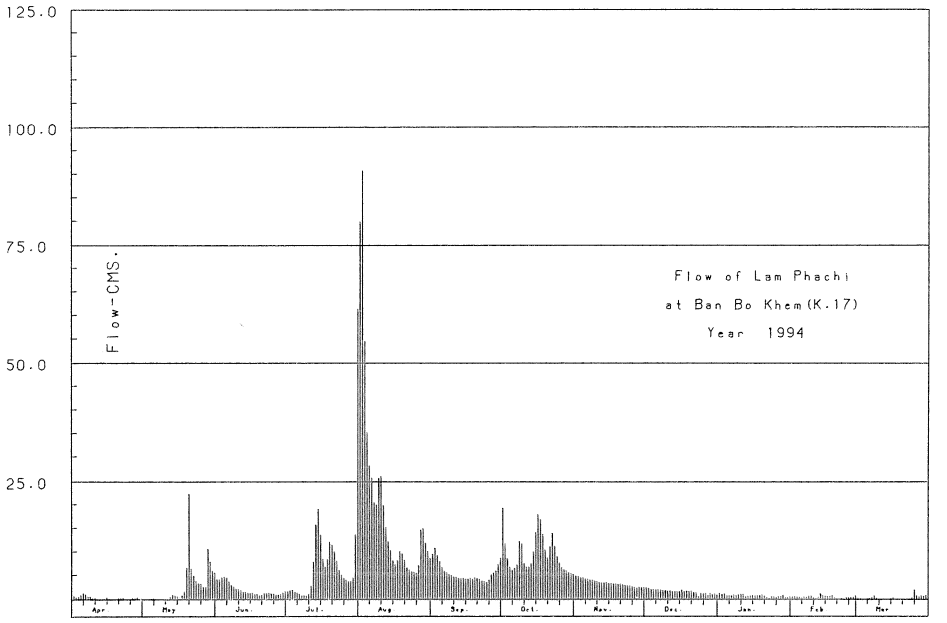
Lam Phachi at Ban Bo Khem, Ratchaburi (K.17)

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 166 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.16	-0.03	0.53	0.27	2.90	0.93	1.35	0.61	0.36	0.23	0.13	0.08	
2	0.08	-0.02	0.52	0.30	3.12	1.00	1.04	0.59	0.34	0.22	0.13	0.03	
3	0.13	0.00	0.57	0.30	2.37	0.92	0.89	0.57	0.33	0.22	0.12	0.00	
4	0.19	0.00	0.58	0.27	1.88	0.86	0.79	0.56	0.32	0.17	0.11	-0.02	
5	0.24	0.05	0.56	0.25	1.65	0.78	0.73	0.54	0.32	0.17	0.10	0.03	
6	0.21	-0.02	0.48	0.21	1.56	0.71	0.76	0.53	0.31	0.18	0.11	0.04	
7	0.15	-0.04	0.41	0.18	1.39	0.67	0.82	0.52	0.31	0.20	0.12	0.11	
8	0.12	-0.04	0.37	0.16	1.37	0.64	1.07	0.51	0.29	0.19	0.14	0.16	
9	0.10	-0.01	0.33	0.17	1.56	0.61	1.04	0.50	0.30	0.20	0.17	0.08	
10	0.07	0.00	0.32	0.21	1.57	0.59	0.84	0.48	0.28	0.22	0.09	0.02	
11	0.01	0.02	0.30	0.39	1.37	0.57	0.79	0.47	0.29	0.21	0.04	0.00	
12	-0.01	0.13	0.27	0.85	1.21	0.56	0.80	0.45	0.27	0.13	0.11	-0.02	
13	0.00	0.19	0.26	1.23	1.07	0.54	0.83	0.46	0.28	0.14	0.23	-0.03	
14	0.01	0.18	0.25	1.34	0.97	0.56	0.96	0.46	0.27	0.17	0.18	-0.02	
15	0.08	0.13	0.24	1.14	0.87	0.53	1.16	0.45	0.28	0.17	0.16	0.06	
16	0.01	0.11	0.24	0.88	0.82	0.54	1.30	0.44	0.30	0.17	0.13	0.15	
17	-0.02	0.20	0.22	0.80	0.87	0.55	1.27	0.44	0.28	0.17	0.16	0.07	
18	-0.01	0.27	0.21	0.88	0.96	0.54	1.14	0.43	0.28	0.18	0.17	0.01	
19	0.01	0.78	0.18	1.06	0.94	0.56	0.98	0.43	0.28	0.20	0.11	-0.02	
20	0.04	1.45	0.17	1.03	0.87	0.55	0.89	0.43	0.28	0.17	0.04	-0.02	
21	0.08	0.75	0.23	0.96	0.79	0.53	1.01	0.42	0.26	0.09	0.02	-0.02	
22	0.06	0.61	0.24	0.86	0.73	0.50	1.16	0.40	0.25	0.08	0.07	-0.02	
23	0.01	0.49	0.24	0.73	0.70	0.48	1.02	0.40	0.15	0.13	0.07	0.07	
24	-0.01	0.45	0.23	0.62	0.68	0.47	0.91	0.39	0.23	0.13	0.08	0.14	
25	0.03	0.43	0.22	0.56	0.67	0.51	0.84	0.38	0.23	0.12	0.09	0.31	
26	0.07	0.36	0.21	0.51	0.81	0.63	0.78	0.36	0.23	0.12	0.08	0.15	
27	0.07	0.37	0.20	0.49	1.19	0.66	0.74	0.35	0.20	0.15	0.11	0.14	
28	0.08	0.99	0.21	0.48	1.20	0.71	0.71	0.36	0.23	0.18	0.16	0.16	
29	0.05	0.85	0.25	0.56	1.05	0.82	0.68	0.36	0.21	0.11		0.15	
30	-0.01	0.71	0.27	1.14	0.96	0.89	0.65	0.36	0.22	0.07		0.17	
31		0.67		2.53	0.89		0.63		0.20	0.12		0.15	
Mean	0.07	0.32	0.31	0.69	1.26	0.65	0.92	0.45	0.27	0.16	0.12	0.07	
Max	0.24	1.45	0.58	2.53	3.12	1.00	1.35	0.61	0.36	0.23	0.23	0.31	3.12
Min	-0.02	-0.04	0.17	0.16	0.67	0.47	0.63	0.35	0.15	0.07	0.02	-0.03	-0.04

Annual Max Momentary Gage Height 3.36 M (A.D), at 11.00 Hours, on Aug 2, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.10 M (A.D)
Left Bank Elevation 6.56 M (A.D)
Right Bank Elevation 6.72 M (A.D), Drainage Area 1355 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.14	4.30	1.70	80.00	9.60	19.50	5.10	2.60	1.30	0.65	0.44	
2	0.44	0.16	4.20	2.00	91.00	11.00	11.80	4.90	2.40	1.20	0.65	0.29	
3	0.65	0.20	4.70	2.00	54.80	9.40	8.80	4.70	2.30	1.20	0.60	0.20	
4	0.95	0.20	4.80	1.70	35.40	8.20	6.90	4.60	2.20	0.85	0.55	0.16	
5	1.40	0.35	4.60	1.50	28.50	6.80	6.30	4.40	2.20	0.85	0.50	0.29	
6	1.10	0.16	3.80	1.10	25.80	6.10	6.60	4.30	2.10	0.90	0.55	0.32	
7	0.75	0.12	3.10	0.90	20.70	5.70	7.40	4.20	2.10	1.00	0.60	0.55	
8	0.60	0.12	2.70	0.80	20.10	5.40	12.40	4.10	1.90	0.95	0.70	0.80	
9	0.50	0.18	2.30	0.85	25.80	5.10	11.80	4.00	2.00	1.00	0.85	0.44	
10	0.41	0.20	2.20	1.10	26.10	4.90	7.80	3.80	1.80	1.20	0.47	0.26	
11	0.23	0.26	2.00	2.90	20.10	4.70	6.90	3.70	1.90	1.10	0.32	0.20	
12	0.18	0.65	1.70	8.00	15.30	4.60	7.00	3.50	1.70	0.65	0.55	0.16	
13	0.20	0.95	1.60	15.90	12.40	4.40	7.60	3.60	1.80	0.70	1.30	0.14	
14	0.23	0.90	1.50	19.20	10.40	4.60	10.20	3.60	1.70	0.85	0.90	0.16	
15	0.44	0.65	1.40	13.80	8.40	4.30	14.20	3.50	1.80	0.85	0.80	0.38	
16	0.23	0.55	1.40	8.60	7.40	4.40	18.00	3.40	2.00	0.85	0.65	0.75	
17	0.16	1.00	1.20	7.00	8.40	4.50	17.10	3.40	1.80	0.85	0.80	0.41	
18	0.18	1.70	1.10	8.60	10.20	4.40	13.80	3.30	1.80	0.90	0.85	0.23	
19	0.23	6.80	0.90	12.20	9.80	4.60	10.60	3.30	1.80	1.00	0.55	0.16	
20	0.32	22.50	0.85	11.60	8.40	4.50	8.80	3.30	1.80	0.85	0.32	0.16	
21	0.44	6.50	1.30	10.20	6.90	4.30	11.20	3.20	1.60	0.47	0.26	0.16	
22	0.38	5.10	1.40	8.20	6.30	4.00	14.20	3.00	1.50	0.44	0.41	0.16	
23	0.23	3.90	1.40	6.30	6.00	3.80	11.40	3.00	0.75	0.65	0.41	0.41	
24	0.18	3.50	1.30	5.20	5.80	3.70	9.20	2.90	1.30	0.65	0.44	0.70	
25	0.29	3.30	1.20	4.60	5.70	4.10	7.80	2.80	1.30	0.60	0.47	2.10	
26	0.41	2.60	1.10	4.10	7.20	5.30	6.80	2.60	1.30	0.60	0.44	0.75	
27	0.41	2.70	1.00	3.90	14.80	5.60	6.40	2.50	1.00	0.75	0.55	0.70	
28	0.44	10.80	1.10	3.80	15.00	6.10	6.10	2.60	1.30	0.90	0.80	0.80	
29	0.35	8.00	1.50	4.60	12.00	7.40	5.80	2.60	1.10	0.55		0.75	
30	0.18	6.10	1.70	13.80	10.20	8.80	5.50	2.60	1.20	0.41		0.85	
31		5.70		61.50	8.80		5.30		1.00	0.60		0.75	
Total	13.31	95.99	63.35	247.65	617.70	170.30	303.20	106.50	53.05	25.67	16.94	14.63	1728.29 CMSDAY
Mean	0.44	3.10	2.11	7.99	19.93	5.68	9.78	3.55	1.71	0.83	0.60	0.47	4.74 CMS
Max	1.40	22.50	4.80	61.50	91.00	11.00	19.50	5.10	2.60	1.30	1.30	2.10	91.00 CMS
Min	0.16	0.12	0.85	0.80	5.70	3.70	5.30	2.50	0.75	0.41	0.26	0.14	0.12 CMS
Runoff	1.150	8.294	5.473	21.397	53.369	14.714	26.196	9.202	4.584	2.218	1.464	1.264	149.324 MCM

Momentary Peak 103.60 CMS, at 3.36 M (A.D), at 11.00 Hours, on Aug 2, 1994
Runoff Yield 3.49 Liters/Second/Square KM, Momentary Peak Yield 76.46 Liters/Second/Square KM

WATER YEAR 1994

MAE KLONG RIVER BASIN

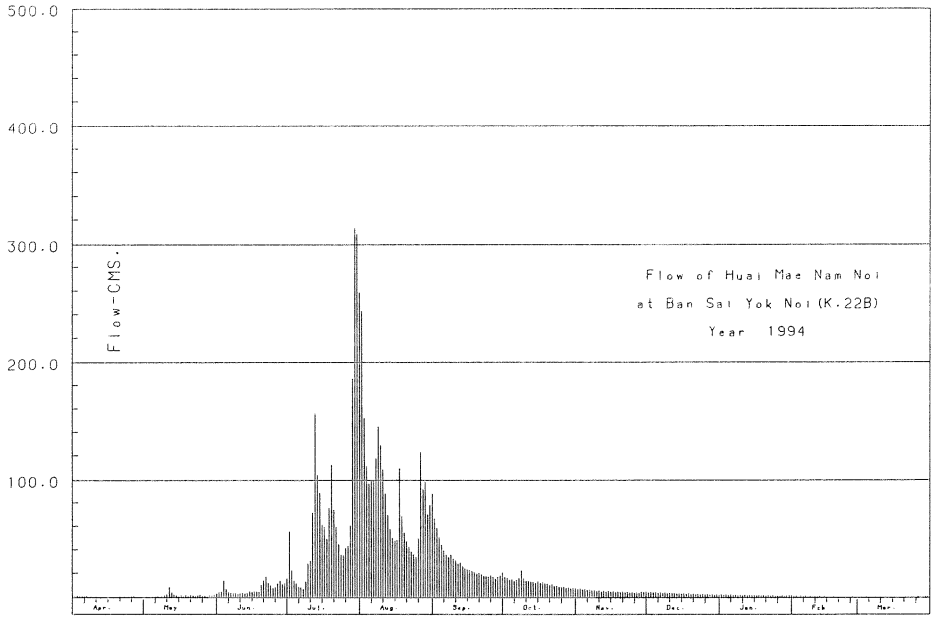
Huai Mae Nam Noi at Ban Sai Yok Noi, Kanchanaburi (K.22B)

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 good. Stage-discharge relation defined by 131 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.05	67.95	68.29	70.09	73.02	70.33	68.98	68.48	68.31	68.16	68.07	67.96	
2	68.03	67.95	68.32	69.17	71.81	70.16	68.92	68.47	68.32	68.16	68.06	67.96	
3	68.05	67.95	68.84	68.83	71.14	69.95	68.87	68.46	68.32	68.15	68.06	67.96	
4	68.02	67.95	68.48	68.69	70.90	69.80	68.86	68.45	68.30	68.15	68.06	67.96	
5	68.02	67.96	68.32	68.57	70.94	69.67	68.81	68.44	68.29	68.15	68.05	67.95	
6	68.01	67.95	68.25	68.51	70.93	69.58	68.83	68.43	68.29	68.14	68.05	67.95	
7	68.01	67.95	68.25	68.48	71.26	69.53	68.93	68.42	68.28	68.13	68.04	67.95	
8	68.00	68.06	68.23	68.79	71.69	69.59	69.18	68.41	68.28	68.13	68.04	67.95	
9	68.00	68.10	68.21	69.36	71.45	69.48	68.90	68.40	68.27	68.13	68.04	67.95	
10	67.98	68.14	68.22	69.44	71.09	69.44	68.82	68.39	68.26	68.12	68.03	67.95	
11	67.97	68.56	68.25	70.43	70.75	69.37	68.79	68.38	68.26	68.12	68.03	67.94	
12	67.97	68.28	68.26	71.87	70.40	69.39	68.79	68.38	68.25	68.12	68.03	67.93	
13	67.96	68.13	68.23	71.02	70.14	69.30	68.75	68.37	68.25	68.11	68.03	67.93	
14	67.96	68.07	68.37	70.77	69.94	69.22	68.74	68.36	68.24	68.11	68.02	67.93	
15	67.99	68.04	68.31	70.23	69.89	69.21	68.79	68.35	68.24	68.11	68.01	67.93	
16	68.02	68.07	68.34	70.17	69.89	69.17	68.74	68.35	68.23	68.11	68.01	67.92	
17	67.99	68.06	68.36	69.93	71.12	69.16	68.76	68.34	68.23	68.10	68.01	67.92	
18	67.98	68.08	68.31	70.51	70.37	69.11	68.72	68.33	68.23	68.10	68.00	67.92	
19	67.98	68.03	68.65	71.17	70.06	69.08	68.68	68.33	68.22	68.09	68.00	67.92	
20	67.96	68.11	68.81	70.48	69.87	69.09	68.65	68.33	68.21	68.09	67.99	67.92	
21	67.96	68.10	68.97	70.17	69.75	69.04	68.66	68.32	68.21	68.09	67.99	67.92	
22	67.96	68.05	68.73	69.82	69.66	69.01	68.61	68.32	68.20	68.09	67.98	67.93	
23	67.95	68.10	68.60	69.58	69.59	69.00	68.59	68.31	68.20	68.09	67.98	67.92	
24	68.00	68.12	68.52	69.58	69.54	68.96	68.57	68.29	68.19	68.08	67.98	67.97	
25	68.03	68.08	68.53	69.72	69.94	69.03	68.56	68.29	68.19	68.08	67.97	67.95	
26	67.99	68.04	68.68	69.77	71.34	68.95	68.55	68.29	68.18	68.08	67.97	67.99	
27	67.98	68.03	68.83	70.21	70.82	68.91	68.53	68.29	68.18	68.08	67.97	67.96	
28	67.96	68.07	68.67	72.28	70.92	68.95	68.52	68.32	68.17	68.08	67.97	68.05	
29	67.97	68.09	68.69	73.86	70.41	69.01	68.51	68.33	68.17	68.07		68.07	
30	67.96	68.12	68.90	73.79	70.56	69.10	68.50	68.33	68.16	68.12		67.99	
31		68.25		73.22	70.76		68.49		68.16	68.08		67.96	
Mean	67.99	68.08	68.48	70.27	70.64	69.32	68.73	68.37	68.24	68.11	68.02	67.95	
Max	68.05	68.56	68.97	73.86	73.02	70.33	69.18	68.48	68.32	68.16	68.07	68.07	73.86
Min	67.95	67.95	68.21	68.48	69.54	68.91	68.49	68.29	68.16	68.07	67.97	67.92	67.92

Annual Max Momentary Gage Height 74.90 M (MSL), at 18.00 Hours, on Jul 30, 1994
Zero Gage at Bottom Elevation 67.00 M (MSL), River Bed 67.40 M (MSL)
Left Bank Elevation 77.43 M (MSL)
Right Bank Elevation 77.05 M (MSL), Drainage Area 320 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	0.75	4.35	56.60	243.60	67.00	18.00	7.60	4.65	2.60	1.70	0.80	
2	1.30	0.75	4.80	23.10	153.15	59.40	16.50	7.40	4.80	2.60	1.60	0.80	
3	1.50	0.75	14.80	14.60	111.40	51.00	15.40	7.20	4.80	2.50	1.60	0.80	
4	1.20	0.75	7.60	11.80	97.00	45.00	15.20	7.00	4.50	2.50	1.60	0.80	
5	1.20	0.80	4.80	9.40	99.40	39.80	14.20	6.80	4.35	2.50	1.50	0.75	
6	1.10	0.75	3.75	8.20	98.80	36.30	14.60	6.60	4.35	2.40	1.50	0.75	
7	1.10	0.75	3.75	7.60	118.60	34.55	16.75	6.40	4.20	2.30	1.40	0.75	
8	1.00	1.60	3.45	13.80	145.35	36.65	23.40	6.20	4.20	2.30	1.40	0.75	
9	1.00	2.00	3.15	28.80	130.00	32.80	16.00	6.00	4.05	2.30	1.40	0.75	
10	0.90	2.40	3.30	31.40	108.40	31.40	14.40	5.85	3.90	2.20	1.30	0.75	
11	0.85	9.20	3.75	72.00	88.25	29.10	13.80	5.70	3.90	2.20	1.30	0.70	
12	0.85	4.20	3.90	157.05	70.50	29.70	13.80	5.70	3.75	2.20	1.30	0.65	
13	0.80	2.30	3.45	104.20	58.60	27.00	13.00	5.55	3.75	2.10	1.30	0.65	
14	0.80	1.70	5.55	89.35	50.60	24.60	12.80	5.40	3.60	2.10	1.20	0.65	
15	0.95	1.40	4.65	62.35	48.60	24.30	13.80	5.25	3.60	2.10	1.10	0.65	
16	1.20	1.70	5.10	59.80	48.60	23.10	12.80	5.25	3.45	2.10	1.10	0.60	
17	0.95	1.60	5.40	50.20	110.20	22.80	13.20	5.10	3.45	2.00	1.10	0.60	
18	0.90	1.80	4.65	76.00	69.00	21.30	12.40	4.95	3.45	2.00	1.00	0.60	
19	0.90	1.30	11.00	113.20	55.40	20.50	11.60	4.95	3.30	1.90	1.00	0.60	
20	0.80	2.10	14.20	74.50	47.80	20.75	11.00	4.95	3.15	1.90	0.95	0.60	
21	0.80	2.00	17.75	59.80	43.00	19.50	11.20	4.80	3.15	1.90	0.95	0.60	
22	0.80	1.50	12.60	45.80	39.40	18.75	10.20	4.80	3.00	1.90	0.90	0.65	
23	0.75	2.00	10.00	36.30	36.65	18.50	9.80	4.65	3.00	1.90	0.90	0.60	
24	1.00	2.20	8.40	36.30	34.90	17.50	9.40	4.35	2.90	1.80	0.90	0.85	
25	1.30	1.80	8.60	41.80	50.60	19.25	9.20	4.35	2.90	1.80	0.85	0.75	
26	0.95	1.40	11.60	43.80	123.40	17.25	9.00	4.35	2.80	1.80	0.85	0.95	
27	0.90	1.30	14.60	61.45	92.20	16.25	8.60	4.35	2.80	1.80	0.85	0.80	
28	0.80	1.70	11.40	186.00	98.20	17.25	8.40	4.80	2.70	1.80	0.85	1.50	
29	0.85	1.90	11.80	314.10	71.00	18.75	8.20	4.95	2.70	1.70		1.70	
30	0.80	2.20	16.00	308.15	78.50	21.00	8.00	4.95	2.60	2.20		0.95	
31		3.75		259.70	88.80		7.80		2.60	1.80		0.80	
Total	29.75	60.35	238.15	2457.15	2709.90	861.05	392.45	166.20	110.35	65.20	33.40	24.15	7148.10 CMSDAY
Mean	0.99	1.95	7.94	79.26	87.42	28.70	12.66	5.54	3.56	2.10	1.19	0.78	19.58 CMS
Max	1.50	9.20	17.75	314.10	243.60	67.00	23.40	7.60	4.80	2.60	1.70	1.70	314.10 CMS
Min	0.75	0.75	3.15	7.60	34.90	16.25	7.80	4.35	2.60	1.70	0.85	0.60	0.60 CMS
Runoff	2.570	5.214	20.576	212.298	234.135	74.395	33.908	14.360	9.534	5.633	2.886	2.087	617.596 MCM

Momentary Peak 406.10 CMS, at 74.90 M (MSL), at 18.00 Hours, on Jul 30, 1994

Runoff Yield 61.20 Liters/Second/Square KM, Momentary Peak Yield 1269.06 Liters/Second/Square KM

WATER YEAR 1994

MAE KHLONG RIVER BASIN

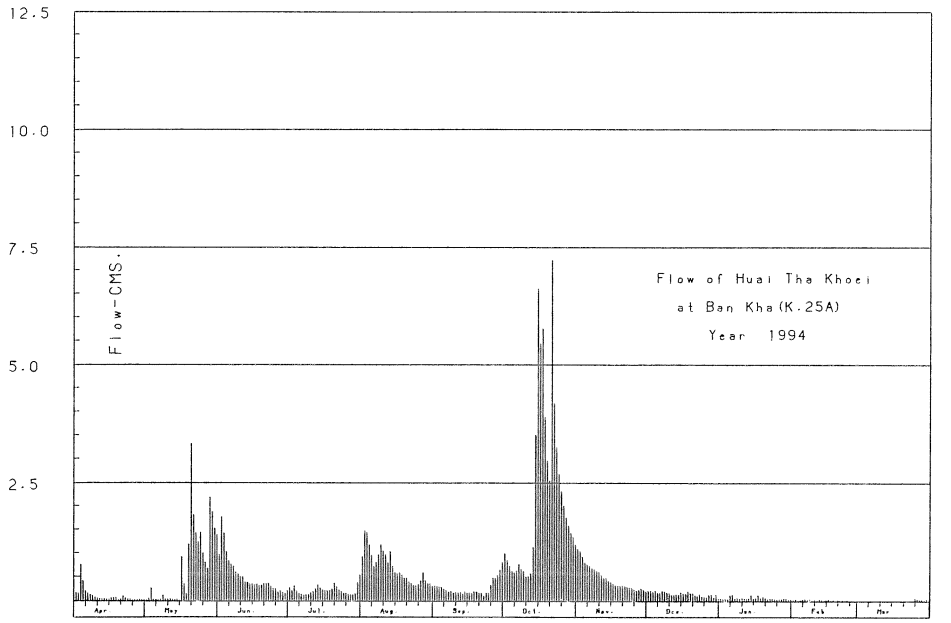
Huai Tha Khoei at Ban Kha, Ratchaburi (K.25A)

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 good. K.25 is located at K.25A one kilometer upstream from the previous station. Stage-discharge relation defined by 149 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.29	0.19	0.57	0.34	0.56	0.36	0.58	0.60	0.31	0.21	0.17	0.13	
2	0.27	0.21	0.73	0.31	0.68	0.36	0.54	0.59	0.31	0.20	0.17	0.13	
3	0.52	0.34	0.67	0.36	0.67	0.35	0.51	0.56	0.30	0.20	0.17	0.14	
4	0.41	0.17	0.59	0.31	0.62	0.35	0.48	0.53	0.31	0.20	0.16	0.13	
5	0.31	0.16	0.54	0.28	0.57	0.33	0.47	0.52	0.29	0.25	0.18	0.13	
6	0.27	0.16	0.52	0.26	0.51	0.31	0.48	0.51	0.28	0.25	0.19	0.13	
7	0.26	0.17	0.51	0.25	0.53	0.30	0.52	0.50	0.31	0.21	0.18	0.12	
8	0.24	0.25	0.47	0.25	0.57	0.30	0.49	0.49	0.30	0.21	0.17	0.13	
9	0.22	0.18	0.46	0.26	0.62	0.29	0.48	0.48	0.29	0.20	0.17	0.14	
10	0.21	0.18	0.44	0.28	0.59	0.29	0.44	0.47	0.28	0.22	0.17	0.14	
11	0.21	0.20	0.44	0.30	0.57	0.29	0.44	0.45	0.26	0.21	0.16	0.14	
12	0.20	0.19	0.40	0.33	0.53	0.29	0.46	0.43	0.25	0.21	0.18	0.13	
13	0.20	0.18	0.40	0.37	0.59	0.27	0.61	0.43	0.26	0.21	0.18	0.13	
14	0.19	0.17	0.38	0.34	0.51	0.30	0.97	0.41	0.26	0.26	0.16	0.12	
15	0.20	0.16	0.38	0.32	0.47	0.29	1.26	0.40	0.29	0.21	0.16	0.12	
16	0.21	0.56	0.37	0.31	0.46	0.28	1.16	0.38	0.27	0.21	0.15	0.12	
17	0.22	0.38	0.38	0.31	0.47	0.28	1.19	0.37	0.27	0.25	0.15	0.12	
18	0.22	0.27	0.36	0.31	0.45	0.30	1.01	0.36	0.30	0.21	0.14	0.12	
19	0.19	0.62	0.37	0.33	0.43	0.30	0.91	0.36	0.28	0.23	0.14	0.12	
20	0.19	0.95	0.38	0.39	0.43	0.28	0.85	0.36	0.27	0.21	0.16	0.13	
21	0.24	0.74	0.38	0.35	0.40	0.28	1.31	0.36	0.25	0.20	0.14	0.13	
22	0.21	0.67	0.39	0.32	0.39	0.24	1.04	0.35	0.24	0.21	0.15	0.13	
23	0.20	0.63	0.36	0.30	0.37	0.29	0.94	0.34	0.26	0.20	0.14	0.12	
24	0.18	0.67	0.33	0.28	0.36	0.28	0.87	0.34	0.23	0.20	0.14	0.13	
25	0.18	0.58	0.33	0.27	0.38	0.37	0.82	0.32	0.22	0.19	0.14	0.21	
26	0.17	0.53	0.30	0.26	0.41	0.43	0.77	0.31	0.22	0.20	0.14	0.18	
27	0.17	0.50	0.31	0.26	0.47	0.43	0.73	0.32	0.25	0.20	0.13	0.17	
28	0.16	0.80	0.29	0.25	0.41	0.45	0.70	0.33	0.25	0.21	0.13	0.16	
29	0.16	0.75	0.28	0.27	0.39	0.49	0.67	0.32	0.22	0.20		0.15	
30	0.16	0.69	0.31	0.40	0.38	0.53	0.65	0.30	0.25	0.19		0.18	
31		0.66		0.45	0.36		0.62		0.21	0.18		0.17	
Mean	0.23	0.42	0.42	0.31	0.49	0.33	0.74	0.42	0.27	0.21	0.16	0.14	
Max	0.52	0.95	0.73	0.45	0.68	0.53	1.31	0.60	0.31	0.26	0.19	0.21	1.31
Min	0.16	0.16	0.28	0.25	0.36	0.24	0.44	0.30	0.21	0.18	0.13	0.12	0.12

Annual Max Momentary Gage Height 1.59 M (A.D), at 6.00 Hours, on Oct 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.02 M (A.D)
Left Bank Elevation 4.71 M (A.D)
Right Bank Elevation 4.72 M (A.D), Drainage Area 250 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.04	0.98	0.28	0.94	0.32	1.02	1.10	0.22	0.06	0.04	0.01	
2	0.16	0.06	1.78	0.22	1.50	0.32	0.86	1.06	0.22	0.05	0.04	0.01	
3	0.78	0.28	1.45	0.32	1.45	0.30	0.74	0.94	0.20	0.05	0.04	0.02	
4	0.43	0.04	1.06	0.22	1.20	0.30	0.64	0.82	0.22	0.05	0.03	0.01	
5	0.22	0.03	0.86	0.17	0.98	0.26	0.61	0.78	0.18	0.13	0.04	0.01	
6	0.16	0.03	0.78	0.14	0.74	0.22	0.64	0.74	0.17	0.13	0.04	0.01	
7	0.14	0.04	0.74	0.13	0.82	0.20	0.78	0.70	0.22	0.06	0.04	0.01	
8	0.11	0.13	0.61	0.13	0.98	0.20	0.67	0.67	0.20	0.06	0.04	0.01	
9	0.08	0.04	0.58	0.14	1.20	0.18	0.64	0.64	0.18	0.05	0.04	0.02	
10	0.06	0.04	0.52	0.17	1.06	0.18	0.52	0.61	0.17	0.08	0.04	0.02	
11	0.06	0.05	0.52	0.20	0.98	0.18	0.52	0.55	0.14	0.06	0.03	0.02	
12	0.05	0.04	0.40	0.26	0.82	0.18	0.58	0.49	0.13	0.06	0.04	0.01	
13	0.05	0.04	0.40	0.34	1.06	0.16	1.15	0.49	0.14	0.06	0.04	0.01	
14	0.04	0.04	0.36	0.28	0.74	0.20	3.53	0.43	0.14	0.14	0.03	0.01	
15	0.05	0.03	0.36	0.24	0.61	0.18	6.62	0.40	0.18	0.06	0.03	0.01	
16	0.06	0.94	0.34	0.22	0.58	0.17	5.46	0.36	0.16	0.06	0.03	0.01	
17	0.08	0.36	0.36	0.22	0.61	0.17	5.79	0.34	0.16	0.13	0.03	0.01	
18	0.08	0.16	0.32	0.22	0.55	0.20	3.90	0.32	0.20	0.06	0.02	0.01	
19	0.04	1.20	0.34	0.26	0.49	0.20	2.99	0.32	0.17	0.10	0.02	0.01	
20	0.04	3.35	0.36	0.38	0.49	0.17	2.55	0.32	0.16	0.06	0.03	0.01	
21	0.11	1.84	0.36	0.30	0.40	0.17	7.24	0.32	0.13	0.05	0.02	0.01	
22	0.06	1.45	0.38	0.24	0.38	0.11	4.20	0.30	0.11	0.06	0.03	0.01	
23	0.05	1.25	0.32	0.20	0.34	0.18	3.26	0.28	0.14	0.05	0.02	0.01	
24	0.04	1.45	0.26	0.17	0.32	0.17	2.69	0.28	0.10	0.05	0.02	0.01	
25	0.04	1.02	0.26	0.16	0.36	0.34	2.34	0.24	0.08	0.04	0.02	0.06	
26	0.04	0.82	0.20	0.14	0.43	0.49	2.02	0.22	0.08	0.05	0.02	0.04	
27	0.04	0.70	0.22	0.14	0.61	0.49	1.78	0.24	0.13	0.05	0.01	0.04	
28	0.03	2.20	0.18	0.13	0.43	0.55	1.60	0.26	0.13	0.06	0.01	0.03	
29	0.03	1.90	0.17	0.16	0.38	0.67	1.45	0.24	0.08	0.05		0.03	
30	0.03	1.55	0.22	0.40	0.36	0.82	1.35	0.20	0.13	0.04		0.04	
31		1.40		0.55	0.32		1.20		0.06	0.04		0.04	
Total	3.34	22.52	15.69	7.13	22.13	8.28	69.34	14.66	4.73	2.05	0.84	0.56	171.27 CMSDAY
Mean	0.11	0.73	0.52	0.23	0.71	0.28	2.24	0.49	0.15	0.07	0.03	0.02	0.47 CMS
Max	0.78	3.35	1.78	0.55	1.50	0.82	7.24	1.10	0.22	0.14	0.04	0.06	7.24 CMS
Min	0.03	0.03	0.17	0.13	0.32	0.11	0.52	0.20	0.06	0.04	0.01	0.01	0.01 CMS
Runoff	0.289	1.946	1.356	0.616	1.912	0.715	5.991	1.267	0.409	0.177	0.073	0.048	14.798 MCM

Momentary Peak 11.53 CMS, at 1.59 M (A.D), at 6.00 Hours, on Oct 21, 1994

Runoff Yield 1.88 Liters/Second/Square KM, Momentary Peak Yield 46.12 Liters/Second/Square KM

WATER YEAR 1994

MAE KLONG RIVER BASIN

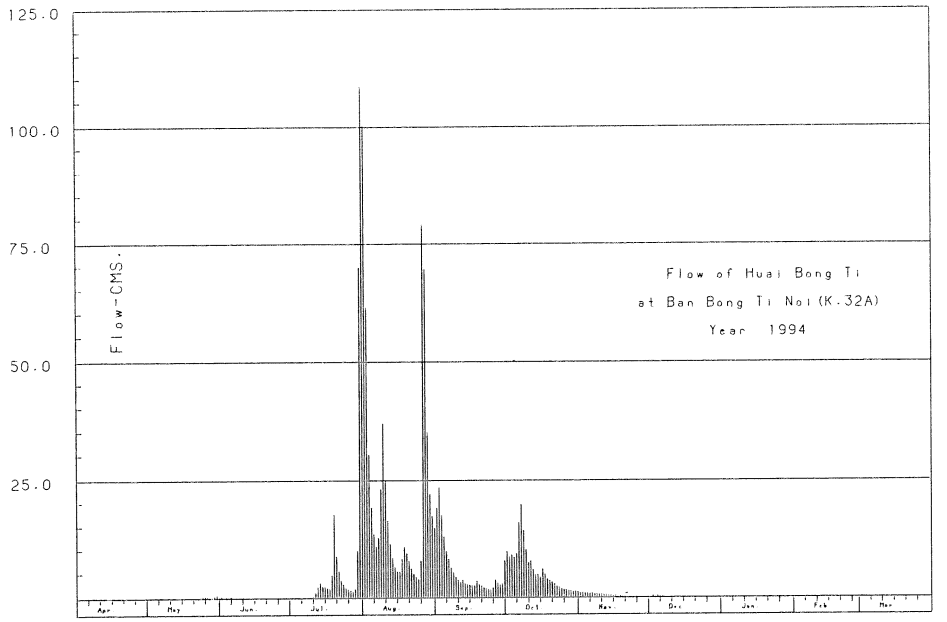
Huai Bong Ti at Ban Bong Ti Noi, Kanchanaburi (K.32A)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 169 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.71	0.70	0.95	0.86	4.97	2.66	2.13	1.21	0.90	0.76	0.69	0.67	
2	0.71	0.70	0.94	0.90	4.09	2.86	2.04	1.19	0.97	0.76	0.69	0.66	
3	0.71	0.70	0.93	0.90	3.15	2.59	2.08	1.18	1.04	0.75	0.69	0.66	
4	0.71	0.71	0.93	0.89	2.67	2.33	2.03	1.17	0.98	0.75	0.69	0.66	
5	0.71	0.71	0.93	0.87	2.36	2.14	2.10	1.16	0.95	0.74	0.69	0.66	
6	0.71	0.71	0.91	0.85	2.20	2.01	2.50	1.14	0.94	0.73	0.69	0.66	
7	0.71	0.71	0.90	0.84	2.32	1.87	2.70	1.12	0.92	0.72	0.69	0.66	
8	0.71	0.72	0.88	0.85	2.85	1.78	2.41	1.10	0.90	0.72	0.69	0.66	
9	0.70	0.72	0.87	0.89	3.39	1.70	2.16	1.09	0.88	0.72	0.69	0.66	
10	0.70	0.73	0.85	0.96	2.92	1.63	1.96	1.08	0.88	0.72	0.69	0.66	
11	0.71	0.74	0.85	1.21	2.52	1.58	1.98	1.06	0.88	0.72	0.68	0.66	
12	0.70	0.74	0.84	1.44	2.24	1.63	1.84	1.05	0.87	0.72	0.68	0.66	
13	0.70	0.87	0.83	1.55	2.03	1.54	1.73	1.03	0.85	0.72	0.68	0.65	
14	0.70	0.85	0.83	1.45	1.88	1.50	1.74	1.01	0.84	0.72	0.67	0.65	
15	0.70	0.82	0.83	1.43	1.80	1.50	1.69	1.00	0.84	0.72	0.67	0.65	
16	0.69	0.81	0.82	1.40	1.80	1.47	1.85	0.99	0.84	0.71	0.67	0.65	
17	0.69	0.80	0.82	1.38	2.01	1.48	1.75	0.97	0.82	0.71	0.67	0.65	
18	0.69	0.80	0.82	1.73	2.20	1.61	1.66	0.96	0.82	0.71	0.67	0.65	
19	0.69	0.80	0.82	2.59	2.11	1.51	1.61	0.96	0.82	0.71	0.67	0.65	
20	0.69	0.78	0.83	2.06	1.98	1.46	1.58	0.95	0.81	0.70	0.67	0.65	
21	0.69	0.79	0.83	1.81	1.85	1.42	1.52	0.94	0.81	0.70	0.67	0.65	
22	0.69	0.80	0.84	1.63	1.76	1.39	1.46	0.93	0.80	0.70	0.67	0.65	
23	0.69	0.97	0.83	1.51	1.69	1.36	1.42	0.92	0.79	0.70	0.67	0.65	
24	0.69	0.95	0.82	1.41	1.65	1.33	1.38	0.91	0.79	0.70	0.67	0.66	
25	0.70	0.97	0.81	1.35	1.99	1.42	1.36	0.91	0.78	0.70	0.67	0.66	
26	0.71	0.93	0.81	1.31	4.51	1.63	1.33	0.90	0.78	0.69	0.67	0.65	
27	0.70	0.90	0.80	1.27	4.29	1.54	1.32	0.89	0.78	0.65	0.66	0.65	
28	0.70	0.88	0.82	1.37	3.32	1.49	1.29	0.91	0.77	0.69	0.66	0.65	
29	0.70	0.99	0.82	2.14	2.80	1.52	1.27	0.92	0.77	0.69		0.65	
30	0.71	1.03	0.83	4.30	2.57	1.98	1.25	0.92	0.76	0.65		0.65	
31		0.97		5.14	2.44		1.24		0.76	0.69		0.65	
Mean	0.70	0.82	0.85	1.56	2.59	1.73	1.75	1.02	0.85	0.71	0.68	0.65	
Max	0.71	1.03	0.95	5.14	4.97	2.86	2.70	1.21	1.04	0.76	0.69	0.67	5.14
Min	0.69	0.70	0.80	0.84	1.65	1.33	1.24	0.89	0.76	0.65	0.66	0.65	0.65

Annual Max Momentary Gage Height 5.74 M (A.D), at 18.00 Hours, on Jul 31, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.55 M (A.D)
Left Bank Elevation 6.22 M (A.D)
Right Bank Elevation 10.38 M (A.D), Drainage Area 512 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.35	0.13	100.26	19.10	9.85	1.14	0.20	0.01	0.00	0.00	
2	0.00	0.00	0.32	0.20	61.61	23.42	8.62	1.07	0.41	0.01	0.00	0.00	
3	0.00	0.00	0.29	0.20	30.50	17.71	9.14	1.04	0.62	0.01	0.00	0.00	
4	0.00	0.00	0.29	0.18	19.30	13.01	8.49	1.01	0.44	0.01	0.00	0.00	
5	0.00	0.00	0.29	0.15	13.52	10.00	9.40	0.98	0.35	0.01	0.00	0.00	
6	0.00	0.00	0.23	0.11	10.90	8.23	16.00	0.92	0.32	0.01	0.00	0.00	
7	0.00	0.00	0.20	0.09	12.84	6.44	19.90	0.86	0.26	0.00	0.00	0.00	
8	0.00	0.00	0.16	0.11	23.20	5.38	14.38	0.80	0.20	0.00	0.00	0.00	
9	0.00	0.00	0.15	0.18	37.11	4.50	10.30	0.77	0.16	0.00	0.00	0.00	
10	0.00	0.01	0.11	0.38	24.76	3.80	7.58	0.74	0.16	0.00	0.00	0.00	
11	0.00	0.01	0.11	1.14	16.38	3.36	7.84	0.68	0.16	0.00	0.00	0.00	
12	0.00	0.01	0.09	2.38	11.54	3.80	6.08	0.65	0.15	0.00	0.00	0.00	
13	0.00	0.15	0.07	3.15	8.49	3.08	4.83	0.59	0.11	0.00	0.00	0.00	
14	0.00	0.11	0.07	2.45	6.56	2.80	4.94	0.53	0.09	0.00	0.00	0.00	
15	0.00	0.06	0.07	2.31	5.60	2.80	4.40	0.50	0.09	0.00	0.00	0.00	
16	0.00	0.04	0.06	2.10	5.60	2.59	6.20	0.47	0.09	0.00	0.00	0.00	
17	0.00	0.02	0.06	1.98	8.23	2.66	5.05	0.41	0.06	0.00	0.00	0.00	
18	0.00	0.02	0.06	4.83	10.90	3.60	4.10	0.38	0.06	0.00	0.00	0.00	
19	0.00	0.02	0.06	17.71	9.55	2.87	3.60	0.38	0.06	0.00	0.00	0.00	
20	0.00	0.02	0.07	8.88	7.84	2.52	3.36	0.35	0.04	0.00	0.00	0.00	
21	0.00	0.02	0.07	5.72	6.20	2.24	2.94	0.32	0.04	0.00	0.00	0.00	
22	0.00	0.02	0.09	3.80	5.16	2.04	2.52	0.29	0.02	0.00	0.00	0.00	
23	0.00	0.41	0.07	2.87	4.40	1.86	2.24	0.26	0.02	0.00	0.00	0.00	
24	0.00	0.35	0.06	2.17	4.00	1.68	1.98	0.23	0.02	0.00	0.00	0.00	
25	0.00	0.41	0.04	1.80	7.97	2.24	1.86	0.23	0.02	0.00	0.00	0.00	
26	0.00	0.29	0.04	1.56	79.24	3.80	1.68	0.20	0.02	0.00	0.00	0.00	
27	0.00	0.20	0.02	1.38	69.78	3.08	1.62	0.18	0.02	0.00	0.00	0.00	
28	0.00	0.16	0.06	1.92	35.08	2.73	1.46	0.23	0.01	0.00	0.00	0.00	
29	0.00	0.47	0.06	10.00	22.10	2.94	1.38	0.26	0.01	0.00		0.00	
30	0.00	0.59	0.07	70.20	17.33	7.84	1.30	0.26	0.01	0.00		0.00	
31		0.41		108.60	14.92		1.26		0.01	0.00		0.00	
Total	0.00	3.80	3.69	258.68	690.87	172.12	184.30	16.73	4.23	0.06	0.00	0.00	1334.48 CMSDAY
Mean	0.00	0.12	0.12	8.34	22.29	5.74	5.95	0.56	0.14	0.00	0.00	0.00	3.66 CMS
Max	0.00	0.59	0.35	108.60	100.26	23.42	19.90	1.14	0.62	0.01	0.00	0.00	108.60 CMS
Min	0.00	0.00	0.02	0.09	4.00	1.68	1.26	0.18	0.01	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.328	0.319	22.350	59.691	14.871	15.924	1.445	0.365	0.005	0.000	0.000	115.299 MCM

Momentary Peak 143.20 CMS, at 5.74 M (A.D), at 18.00 Hours, on Jul 31, 1994

Runoff Yield 7.14 Liters/Second/Square KM, Momentary Peak Yield 279.69 Liters/Second/Square KM

WATER YEAR 1994

MAE KLONG RIVER BASIN

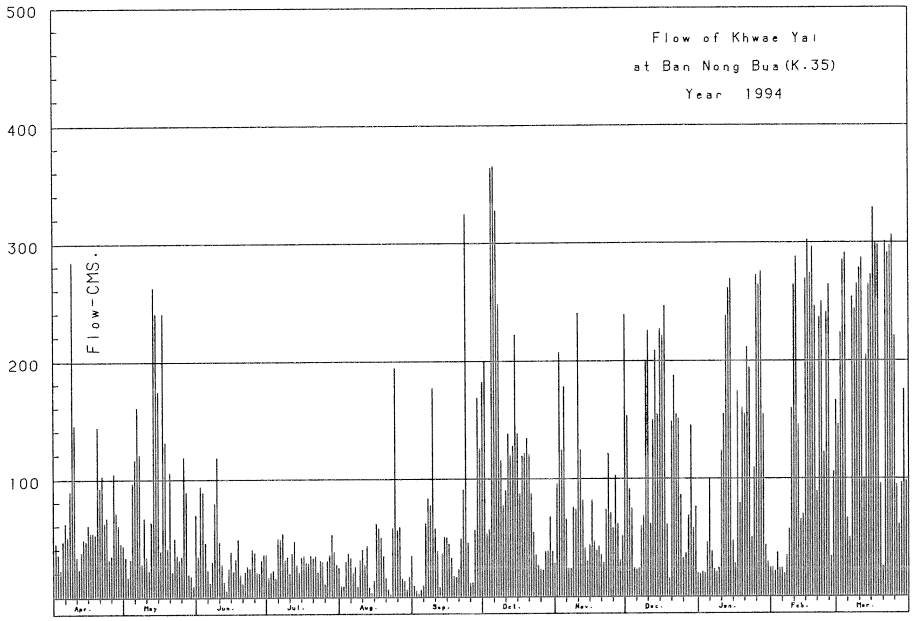
Khwae Yai River at Ban Nong Bua, Kanchanaburi (K.35)

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 good. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 49 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.29	2.08	2.09	1.70	1.48	1.50	3.81	2.92	3.46	1.76	1.90	3.40	
2	2.13	1.71	2.90	1.80	1.49	1.28	2.42	3.86	2.87	1.81	1.82	3.98	
3	1.85	2.04	2.85	1.85	2.01	1.16	2.47	3.21	2.69	1.78	2.15	4.39	
4	2.33	2.93	2.31	1.68	2.14	1.31	4.86	3.65	1.89	2.31	1.88	4.43	
5	2.54	3.13	1.86	2.37	2.07	1.51	4.87	2.58	1.85	2.95	1.89	2.59	
6	2.38	3.52	1.58	2.35	1.79	2.53	4.65	1.88	1.88	2.17	1.77	2.37	
7	2.86	3.17	2.00	2.43	1.91	2.79	4.15	1.88	2.50	1.87	2.10	4.19	
8	4.39	1.97	2.74	2.03	1.46	2.72	3.12	2.70	2.61	1.80	2.47	4.12	
9	3.40	2.59	3.15	2.09	2.03	3.64	2.72	2.68	3.80	1.89	3.51	4.26	
10	2.08	2.08	2.32	1.79	2.21	2.48	2.86	4.10	3.99	3.20	4.26	4.35	
11	1.87	1.85	1.96	2.14	1.95	2.18	3.34	3.21	2.53	3.47	4.41	4.40	
12	2.17	2.55	1.60	2.32	2.26	1.43	3.16	2.77	3.43	4.08	3.40	2.97	
13	2.35	4.25	1.28	1.95	1.42	2.14	3.24	2.22	3.87	4.24	2.57	3.84	
14	2.33	4.10	1.88	1.80	1.20	2.38	3.97	2.01	3.47	4.29	2.63	4.26	
15	2.52	3.62	2.17	2.08	1.63	2.38	3.34	2.27	4.00	2.33	4.29	4.31	
16	2.43	2.18	1.83	2.10	2.53	2.29	2.83	2.77	3.96	1.96	4.50	4.66	
17	2.43	4.10	2.05	1.99	2.48	2.06	3.16	2.32	4.14	3.62	4.32	4.48	
18	2.42	3.28	2.36	1.97	2.38	1.72	3.18	2.19	2.52	2.74	4.46	4.47	
19	3.39	2.22	1.75	2.11	2.10	1.70	3.31	2.25	1.67	3.51	4.14	2.92	
20	2.89	3.02	1.56	2.06	1.69	1.87	3.17	2.12	3.42	3.47	2.85	1.92	
21	2.99	1.82	1.81	2.10	1.34	2.36	2.83	1.99	3.72	3.89	4.07	4.49	
22	2.54	2.37	1.92	1.81	1.14	2.87	2.44	2.68	3.47	3.77	4.16	4.43	
23	2.59	2.11	1.89	2.03	2.48	4.63	2.11	3.18	3.44	2.38	3.19	4.47	
24	2.04	2.03	2.21	2.00	3.77	2.30	1.94	2.64	2.82	3.06	4.10	4.52	
25	2.10	2.09	2.16	1.55	2.46	1.55	1.86	2.48	2.06	4.31	4.26	3.96	
26	3.01	3.15	1.80	2.02	2.50	1.58	1.85	2.99	2.14	4.26	2.09	2.91	
27	2.65	2.85	1.79	2.12	1.67	2.46	2.17	2.53	2.61	4.33	3.02	2.52	
28	2.51	1.77	2.02	2.42	1.63	3.58	2.18	2.02	3.40	3.47	3.56	2.93	
29	2.30	1.72	2.13	2.17	1.32	3.22	2.60	2.40	2.48	2.26		3.64	
30	2.26	1.49	2.12	1.96	1.72	3.68	2.17	4.09	2.71	1.99		2.94	
31		2.63		1.90	2.10		1.97		1.78	1.90		3.61	
Mean	2.53	2.59	2.07	2.02	1.95	2.31	2.99	2.69	2.94	2.93	3.21	3.77	
Max	4.39	4.25	3.15	2.43	3.77	4.63	4.87	4.10	4.14	4.33	4.50	4.66	4.87
Min	1.85	1.49	1.28	1.55	1.14	1.16	1.85	1.88	1.67	1.76	1.77	1.92	1.14

Annual Max Momentary Gage Height 5.35 M (A.D), at 6.00 Hours, on Oct 5, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.47 M (A.D)
Left Bank Elevation 7.11 M (A.D)
Right Bank Elevation 10.62 M (A.D), Drainage Area 14528 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.40	34.00	34.50	17.00	9.60	10.00	200.40	96.00	153.80	19.40	25.00	146.00	
2	36.50	17.40	94.00	21.00	9.80	5.60	53.60	207.40	91.30	21.40	21.80	224.20	
3	23.00	32.00	89.50	23.00	30.50	3.20	57.60	125.00	75.20	20.20	37.50	285.40	
4	47.80	97.00	46.60	16.20	37.00	6.20	364.20	178.50	24.60	46.60	24.20	291.80	
5	63.20	117.00	23.40	50.20	33.50	10.30	365.90	66.40	23.00	99.00	24.60	67.20	
6	50.80	161.60	12.40	49.00	20.60	62.40	328.50	24.20	24.20	38.50	19.80	50.20	
7	90.40	121.00	30.00	54.40	25.50	84.10	248.50	24.20	60.00	23.80	35.00	254.50	
8	285.40	28.50	79.60	31.50	9.20	77.80	116.00	76.00	68.80	21.00	57.60	244.00	
9	146.00	67.20	119.00	34.50	31.50	177.20	77.80	74.40	199.00	24.60	100.00	265.00	
10	34.00	34.00	47.20	20.60	40.60	58.40	90.40	241.00	225.60	124.00	265.00	279.00	
11	23.80	23.00	28.00	37.00	27.50	39.00	138.80	125.00	62.40	155.10	288.60	287.00	
12	38.50	64.00	13.00	47.20	43.60	8.60	120.00	82.30	149.90	238.20	146.00	101.00	
13	49.00	263.50	5.60	27.50	8.40	37.00	128.00	41.20	208.80	262.00	65.60	204.60	
14	47.80	241.00	24.20	21.00	4.00	50.80	222.80	30.50	155.10	269.50	70.40	265.00	
15	61.60	174.60	38.50	34.00	14.20	50.80	138.80	44.20	227.00	47.80	269.50	272.60	
16	54.40	39.00	22.20	35.00	62.40	45.40	87.70	82.30	221.40	28.00	303.00	330.20	
17	54.40	241.00	32.50	29.50	58.40	33.00	120.00	47.20	247.00	174.60	274.20	299.80	
18	53.60	132.00	49.60	28.50	50.80	17.80	122.00	39.50	61.60	79.60	296.60	298.20	
19	144.80	41.20	19.00	35.50	35.00	17.00	135.20	43.00	15.80	160.30	247.00	96.00	
20	93.10	106.00	11.80	33.00	16.60	23.80	121.00	36.00	148.60	155.10	89.50	26.00	
21	103.00	21.80	21.40	35.00	6.80	49.60	87.70	29.50	187.80	211.60	236.80	301.40	
22	63.20	50.20	26.00	21.40	2.80	91.30	55.20	74.40	155.10	194.80	250.00	291.80	
23	67.20	35.50	24.60	31.50	58.40	325.10	35.50	122.00	151.20	50.80	123.00	298.20	
24	32.00	31.50	40.60	30.00	194.80	46.00	27.00	71.20	86.80	110.00	241.00	306.40	
25	35.00	34.50	38.00	11.50	56.80	11.50	23.40	58.40	33.00	272.60	265.00	221.40	
26	105.00	119.00	21.00	31.00	60.00	12.40	23.00	103.00	37.00	265.00	34.50	95.00	
27	72.00	89.50	20.60	36.00	15.80	56.80	38.50	62.40	68.80	275.80	106.00	61.60	
28	60.80	19.80	31.00	53.60	14.20	169.40	39.00	31.00	146.00	155.10	166.80	97.00	
29	46.00	17.80	36.50	38.50	6.40	126.00	68.00	52.00	58.40	43.60		177.20	
30	43.60	9.80	36.00	28.00	17.80	182.40	38.50	239.60	76.90	29.50		98.00	
31		70.40		25.00	35.00		28.50		20.20	25.00		173.30	
Total	2071.30	2534.80	1116.30	987.10	1037.50	1888.90	3701.50	2527.80	3464.30	3642.50	4084.00	6409.00	33465.00 CMSDAY
Mean	69.04	81.77	37.21	31.84	33.47	62.96	119.40	84.26	111.75	117.50	145.86	206.74	91.68 CMS
Max	285.40	263.50	119.00	54.40	194.80	325.10	365.90	241.00	247.00	275.80	303.00	330.20	365.90 CMS
Min	23.00	9.80	5.60	11.50	2.80	3.20	23.00	24.20	15.80	19.40	19.80	26.00	2.80 CMS
Runoff	178.960	219.007	96.448	85.285	89.640	163.201	319.810	218.402	299.316	314.712	352.858	553.738	2891.376 MCM

Momentary Peak 454.00 CMS, at 5.35 M (A.D), at 6.00 Hours, on Oct 5, 1994
Runoff Yield 6.31 Liters/Second/Square KM, Momentary Peak Yield 31.25 Liters/Second/Square KM

WATER YEAR 1994

MAE KLONG RIVER BASIN

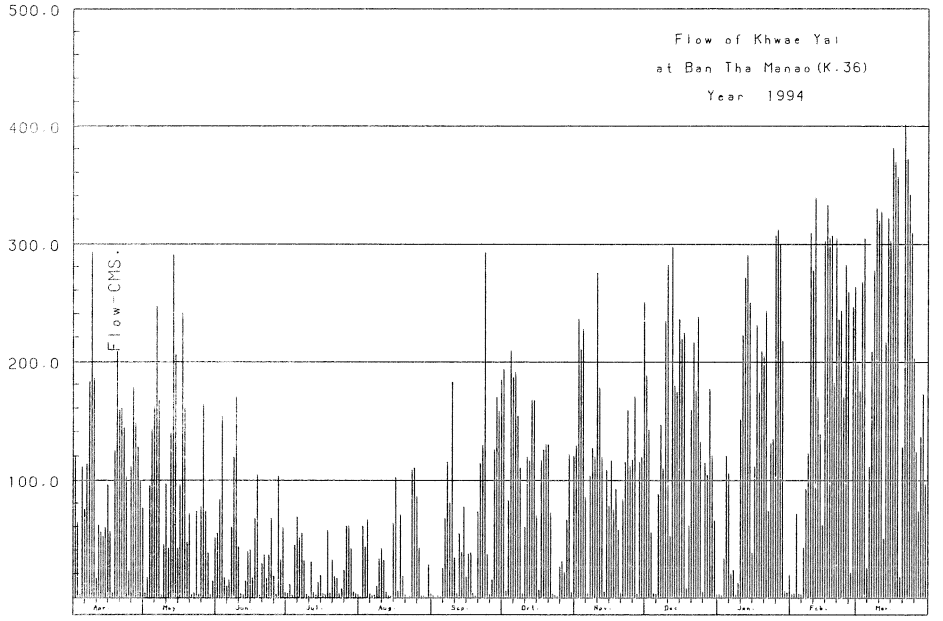
Khwae Yai River at Ban Tha Manao, Kanchanaburi (K.36)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 38 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.18	1.69	2.45	1.67	1.58	1.60	3.81	3.27	3.77	1.65	1.65	3.85	
2	2.57	1.93	2.80	1.83	2.53	1.59	1.73	4.08	3.39	1.62	1.67	3.67	
3	1.66	2.93	3.49	1.62	2.31	1.59	2.79	3.92	2.46	2.17	2.66	4.25	
4	3.10	3.39	1.93	2.33	2.60	1.59	3.91	4.03	1.67	3.19	1.67	4.42	
5	2.71	3.56	1.81	2.63	1.67	2.05	3.76	2.82	1.65	3.04	1.64	2.05	
6	3.12	4.14	1.89	2.40	1.60	2.61	3.79	1.68	2.85	1.98	2.30	3.10	
7	3.73	3.61	2.52	2.46	1.63	3.14	3.50	3.02	3.43	2.03	2.90	3.91	
8	4.37	1.64	3.18	2.14	1.80	2.77	3.09	3.25	3.08	1.64	3.21	4.30	
9	3.75	2.33	3.63	1.66	2.16	3.73	1.67	3.18	4.07	1.85	4.44	4.52	
10	1.92	2.95	2.31	1.60	2.29	2.18	2.52	4.29	4.32	3.47	4.30	4.48	
11	2.54	2.29	1.66	2.13	2.15	1.66	3.18	3.69	2.42	4.00	4.55	4.51	
12	2.47	3.37	1.64	1.70	1.70	2.45	3.15	3.18	4.39	4.27	3.63	2.40	
13	2.42	4.36	1.88	1.64	1.61	2.24	3.61	1.71	3.70	4.36	3.36	3.96	
14	2.51	3.89	2.25	1.86	1.58	2.73	3.61	3.07	3.66	4.16	2.54	4.49	
15	2.94	2.29	2.27	1.96	2.56	1.94	2.64	2.74	4.08	2.23	4.41	4.41	
16	2.47	2.94	1.92	1.66	3.01	2.22	1.74	3.15	3.98	3.10	4.53	4.69	
17	1.70	4.11	2.61	1.64	1.72	2.24	3.15	2.70	4.01	4.05	4.42	4.65	
18	3.23	3.55	3.03	2.48	2.65	1.66	3.24	2.90	1.77	3.66	4.43	4.61	
19	3.91	2.36	1.63	1.68	1.95	1.59	3.28	2.49	2.53	3.91	3.72	1.94	
20	3.54	2.66	2.11	2.15	1.64	2.68	3.28	1.69	3.54	3.88	4.42	3.26	
21	3.55	1.64	2.21	1.94	1.59	3.13	2.67	2.80	3.96	4.12	4.08	4.75	
22	3.41	1.69	1.91	1.92	1.58	3.27	1.66	3.14	3.67	2.69	4.12	4.66	
23	3.01	2.69	2.22	1.66	3.07	4.37	1.61	3.54	4.09	3.29	3.63	4.56	
24	2.02	1.66	2.61	1.76	3.09	2.22	1.60	3.10	3.30	3.32	4.32	4.44	
25	3.10	2.73	1.95	2.03	2.83	1.63	2.07	3.16	1.71	4.43	4.21	3.87	
26	3.69	3.58	1.65	2.53	2.30	1.90	2.13	3.63	3.13	4.45	2.00	3.22	
27	3.44	2.69	3.02	2.53	1.61	3.24	2.00	1.66	3.03	4.40	4.14	2.69	
28	3.26	2.24	2.15	2.29	1.60	3.63	2.60	3.14	3.68	3.97	4.23	3.35	
29	2.97	1.63	2.51	1.71	1.59	3.53	3.20	3.18	3.19	1.72		3.65	
30	2.72	1.88	1.70	1.66	2.09	3.74	1.69	4.16	2.59	1.70		2.94	
31		2.40		1.64	1.66		3.19		1.64	1.97		3.30	
Mean	2.97	2.74	2.30	1.96	2.06	2.50	2.77	3.08	3.19	3.11	3.47	3.84	
Max	4.37	4.36	3.63	2.63	3.09	4.37	3.91	4.29	4.39	4.45	4.55	4.75	4.75
Min	1.66	1.63	1.63	1.60	1.58	1.59	1.60	1.66	1.64	1.62	1.64	1.94	1.58

Annual Max Momentary Gage Height 4.91 M (A.D), at 18.00 Hours, on Mar 24, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.55 M (A.D)
Left Bank Elevation 8.89 M (A.D)
Right Bank Elevation 7.11 M (A.D), Drainage Area 11787 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	120.00	4.70	55.00	4.10	1.70	2.00	194.50	129.70	189.10	3.50	3.50	200.50	
2	64.60	17.80	84.00	11.80	61.40	1.85	6.50	236.60	142.90	2.60	4.10	176.10	
3	3.80	95.70	153.90	2.60	43.80	1.85	83.10	211.00	55.80	33.90	71.80	268.00	
4	112.00	142.90	17.80	45.40	67.00	1.85	209.50	228.10	4.10	121.00	4.10	305.00	
5	75.90	162.20	10.60	69.40	4.10	25.50	187.80	85.80	3.50	106.00	3.20	25.50	
6	114.00	247.20	15.40	51.00	2.00	67.80	191.70	4.40	88.50	20.80	43.00	112.00	
7	183.90	168.30	60.60	55.80	2.90	116.00	155.00	104.00	147.30	24.10	93.00	209.50	
8	293.40	3.20	120.00	31.80	10.00	81.30	111.00	127.50	110.00	3.20	123.10	278.00	
9	186.50	45.40	170.90	3.80	33.20	183.90	4.10	120.00	234.90	13.00	310.00	330.80	
10	17.20	97.50	43.80	2.00	42.30	34.60	60.60	276.00	282.40	151.70	278.00	320.00	
11	62.20	42.30	3.80	31.10	32.50	3.80	120.00	178.70	52.60	223.00	339.50	327.90	
12	56.60	140.70	3.20	5.00	5.00	55.00	117.00	120.00	297.80	272.00	170.90	51.00	
13	52.60	291.20	14.80	3.20	2.30	38.80	168.30	5.50	180.00	291.20	139.60	217.00	
14	59.80	206.50	39.50	13.60	1.70	77.70	168.30	109.00	174.80	250.80	62.20	322.50	
15	96.60	42.30	40.90	19.60	63.80	18.40	70.20	78.60	236.60	38.10	302.50	302.50	
16	56.60	96.60	17.20	3.80	103.00	37.40	7.00	117.00	220.00	112.00	333.70	381.90	
17	5.00	241.80	67.80	3.20	6.00	38.80	117.00	75.00	224.70	231.50	305.00	369.50	
18	125.30	161.00	105.00	57.40	71.00	3.80	126.40	93.00	8.50	174.80	307.50	357.10	
19	209.50	47.80	2.90	4.40	19.00	1.85	130.80	58.20	61.40	209.50	182.60	18.40	
20	159.80	71.80	29.70	32.50	3.20	73.40	130.80	4.70	159.80	205.00	305.00	128.60	
21	161.00	3.20	36.70	18.40	1.85	115.00	72.60	84.00	217.00	243.60	236.60	401.50	
22	145.10	4.70	16.60	17.20	1.70	129.70	3.80	116.00	176.10	74.20	243.60	372.60	
23	103.00	74.20	37.40	3.80	109.00	293.40	2.30	159.80	238.30	131.90	170.90	342.40	
24	23.40	3.80	67.80	8.00	111.00	37.40	2.00	112.00	133.00	135.20	282.40	310.00	
25	112.00	77.70	19.00	24.10	86.70	2.90	26.90	118.00	5.50	307.50	260.00	203.50	
26	178.70	164.60	3.50	61.40	43.00	16.00	31.10	170.90	115.00	312.50	22.00	124.20	
27	148.40	74.20	104.00	61.40	2.30	126.40	22.00	3.80	105.00	300.00	247.20	74.20	
28	128.60	38.80	32.50	42.30	2.00	170.90	67.00	116.00	177.40	218.50	264.00	138.50	
29	99.30	2.90	59.80	5.50	1.85	158.60	122.00	120.00	121.00	6.00		173.50	
30	76.80	14.80	5.00	3.80	28.30	185.20	4.70	250.80	66.20	5.00		96.60	
31		51.00		3.20	3.80		121.00		3.20	20.20		133.00	
Total	3231.60	2836.80	1439.10	700.60	967.40	2101.10	2835.00	3614.10	4232.40	4242.30	5109.00	7071.80	38381.20 CMSDAY
Mean	107.72	91.51	47.97	22.60	31.21	70.04	91.45	120.47	136.53	136.85	182.46	228.12	105.15 CMS
Max	293.40	291.20	170.90	69.40	111.00	293.40	209.50	276.00	297.80	312.50	339.50	401.50	401.50 CMS
Min	3.80	2.90	2.90	2.00	1.70	1.85	2.00	3.80	3.20	2.60	3.20	18.40	1.70 CMS
Runoff	279.210	245.100	124.338	60.532	83.583	181.535	244.944	312.258	365.679	366.535	441.418	611.004	3316.136 MCM

Momentary Peak 457.80 CMS, at 4.91 M (A.D), at 18.00 Hours, on Mar 24, 1994

Runoff Yield 8.92 Liters/Second/Square KM, Momentary Peak Yield 38.84 Liters/Second/Square KM

WATER YEAR 1994

MAE KLONG RIVER BASIN

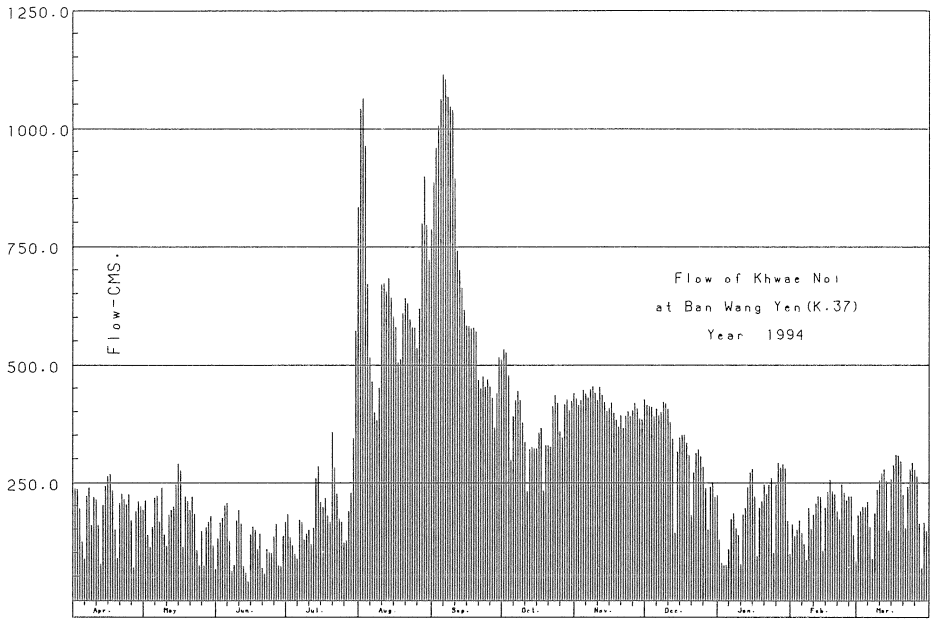
Khwae Noi River at Ban Wang Yen, Kanchanaburi (K.37)

Location	Lat. 13°55'57" N., Long. 99°25'37" E., on left bank at Ban Wang Yen, Amphoe Muang, Kanchanaburi.
Drainage Area	10,603 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 10 meters from the top staff gage.
Elevation	+9.150 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Float	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +7.56 m.(A.D.),records are channel flow only.
General Description	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 48 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.21	4.04	3.47	3.84	8.14	7.56	5.87	5.31	5.24	3.45	3.68	3.82	
2	4.19	3.52	3.71	3.49	8.22	7.85	5.84	5.24	5.22	3.05	3.51	3.88	
3	3.93	3.34	3.79	3.37	7.86	8.02	5.58	5.29	5.22	3.01	3.60	3.95	
4	3.42	3.64	3.96	3.21	6.57	8.21	4.57	5.42	5.10	3.01	3.75	3.94	
5	3.13	4.08	4.01	3.14	5.78	8.39	5.11	5.37	5.20	3.30	3.55	4.01	
6	4.10	4.10	3.44	3.76	5.52	8.35	5.29	5.33	5.12	3.77	3.38	3.65	
7	4.22	3.73	2.89	3.72	5.15	8.23	5.41	5.42	5.15	3.85	3.12	3.13	
8	3.67	4.22	3.02	3.46	5.06	8.16	5.30	5.46	5.27	3.63	3.93	3.86	
9	4.09	3.53	3.74	3.54	5.44	8.13	5.03	5.38	5.26	3.52	3.62	4.18	
10	4.05	3.36	3.91	3.61	6.56	7.60	4.80	5.29	5.19	3.02	3.84	4.31	
11	3.68	3.83	3.70	3.38	6.57	6.91	4.17	5.45	5.04	3.84	3.99	4.40	
12	3.03	3.91	2.99	3.64	6.49	6.71	4.70	5.36	4.84	3.93	4.10	4.46	
13	3.98	3.95	2.86	4.34	6.63	6.53	4.73	5.27	3.56	4.22	4.08	4.30	
14	4.23	4.25	2.67	4.49	6.42	6.29	4.72	5.17	4.67	4.41	3.27	3.59	
15	4.37	4.53	3.53	4.02	6.22	6.13	4.71	5.20	4.85	4.46	3.94	4.33	
16	4.39	4.44	3.66	3.94	6.11	6.12	4.91	5.27	4.88	4.09	4.15	4.50	
17	4.18	3.34	3.60	4.07	5.73	6.10	4.97	5.15	4.89	3.18	4.32	4.64	
18	3.61	4.10	3.30	3.82	5.76	6.10	4.17	5.06	4.79	3.94	4.16	4.62	
19	3.15	4.03	3.55	3.72	6.26	6.07	4.76	4.98	4.63	4.02	4.13	4.55	
20	4.00	3.90	2.95	4.92	6.42	5.53	4.75	5.12	3.82	4.25	3.88	4.12	
21	4.13	4.10	2.84	4.48	6.36	5.44	4.74	4.97	4.42	4.13	3.76	3.63	
22	4.06	3.85	3.31	4.13	6.19	5.57	5.22	5.11	4.66	4.25	4.26	4.22	
23	3.98	3.28	3.24	3.77	6.11	5.45	5.36	5.16	4.70	4.34	4.14	4.45	
24	4.13	3.01	3.24	3.73	6.10	5.54	5.26	5.11	4.62	3.24	4.04	4.54	
25	3.74	3.58	3.50	3.41	5.89	5.46	4.93	5.18	4.48	4.26	4.10	4.45	
26	2.96	3.00	3.69	3.44	6.31	5.32	4.85	5.26	4.20	4.54	4.09	4.36	
27	3.89	3.65	3.01	3.89	7.18	4.97	5.25	5.19	3.61	4.47	3.53	3.70	
28	4.02	3.72	2.98	4.15	7.61	5.38	5.30	5.08	4.23	4.52	3.08	2.96	
29	3.95	3.82	3.52	4.84	7.17	5.78	5.18	5.06	4.26	4.46		3.71	
30	3.91	3.36	3.73	6.07	6.81	5.76	5.28	5.30	4.09	3.74		3.59	
31		2.94		7.34	7.12		5.38		4.11	3.21		3.91	
Mean	3.88	3.75	3.39	4.02	6.44	6.59	5.04	5.23	4.69	3.84	3.82	4.06	
Max	4.39	4.53	4.01	7.34	8.22	8.39	5.87	5.46	5.27	4.54	4.32	4.64	8.39
Min	2.96	2.94	2.67	3.14	5.06	4.97	4.17	4.97	3.56	3.01	3.08	2.96	2.67

Annual Max Momentary Gage Height 8.40 M (A.D), at 12.00 Hours, on Sep 5, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.14 M (A.D)
Left Bank Elevation 7.55 M (A.D)
Right Bank Elevation 9.13 M (A.D), Drainage Area 10603 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.6	213.0	131.8	183.6	1041.6	886.4	533.3	428.8	416.2	129.0	161.2	180.8	
2	236.4	138.8	165.4	134.6	1065.0	960.5	527.6	416.2	412.6	79.5	137.4	189.2	
3	196.5	114.2	176.6	118.1	963.2	1007.6	478.2	425.2	412.6	75.1	150.0	199.5	
4	124.8	155.6	201.0	98.2	673.0	1062.0	298.9	448.6	391.0	75.1	171.0	198.0	
5	88.6	219.0	208.5	89.8	516.2	1116.0	392.8	439.6	409.0	109.0	143.0	208.5	
6	222.0	222.0	127.6	172.4	466.8	1104.0	425.2	432.4	394.6	173.8	119.4	157.0	
7	241.2	168.2	62.0	166.8	400.0	1068.0	446.8	448.6	400.0	185.0	87.4	88.6	
8	159.8	241.2	76.2	130.4	383.8	1047.4	427.0	455.8	421.6	154.2	196.5	186.4	
9	220.5	140.2	169.6	141.6	452.2	1038.7	378.4	441.4	419.8	138.8	152.8	234.8	
10	214.5	116.8	193.5	151.4	671.0	896.0	338.0	425.2	407.2	76.2	183.6	255.6	
11	161.2	182.2	164.0	119.4	673.0	743.1	233.2	454.0	380.2	183.6	205.5	270.0	
12	77.3	193.5	72.9	155.6	657.0	701.1	321.0	437.8	344.8	196.5	222.0	280.2	
13	204.0	199.5	59.0	260.4	685.0	665.0	326.1	421.6	144.4	241.2	219.0	254.0	
14	242.8	246.0	40.0	285.3	643.0	617.0	324.4	403.6	315.9	271.7	105.4	148.6	
15	265.2	292.1	140.2	210.0	603.0	585.0	322.7	409.0	346.5	280.2	198.0	258.8	
16	268.4	276.8	158.4	198.0	581.0	583.0	356.8	421.6	351.6	220.5	230.0	287.0	
17	234.8	114.2	150.0	217.5	506.7	579.0	367.6	400.0	353.3	94.6	257.2	310.8	
18	151.4	222.0	109.0	180.8	512.4	579.0	233.2	383.8	336.3	198.0	231.6	307.4	
19	91.0	211.5	143.0	166.8	611.0	573.0	331.2	369.4	309.1	210.0	226.8	295.5	
20	207.0	192.0	68.5	358.6	643.0	468.7	329.5	394.6	180.8	246.0	189.2	225.2	
21	226.8	222.0	57.0	283.6	631.0	452.2	327.8	367.6	273.4	226.8	172.4	154.2	
22	216.0	185.0	110.3	226.8	597.0	476.3	412.6	392.8	314.2	246.0	247.6	241.2	
23	204.0	106.6	101.8	173.8	581.0	454.0	437.8	401.8	321.0	260.4	228.4	278.5	
24	226.8	75.1	101.8	168.2	579.0	470.6	419.8	392.8	307.4	101.8	213.0	293.8	
25	169.6	147.2	136.0	123.4	537.1	455.8	360.4	405.4	283.6	247.6	222.0	278.5	
26	69.6	74.0	162.6	127.6	621.0	430.6	346.5	419.8	238.0	293.8	220.5	263.6	
27	190.6	157.0	75.1	190.6	799.8	367.6	418.0	407.2	151.4	281.9	140.2	164.0	
28	210.0	166.8	71.8	230.0	898.5	441.4	427.0	387.4	242.8	290.4	82.8	69.6	
29	199.5	180.8	138.8	344.8	797.7	516.2	405.4	383.8	247.6	280.2		165.4	
30	193.5	116.8	168.2	573.0	722.1	512.4	423.4	427.0	220.5	169.6		148.6	
31		67.4		835.2	787.2		441.4		223.6	98.2		193.5	
Total	5753.4	5357.5	3740.6	6816.3	20299.3	20857.6	11812.0	12442.8	9971.0	5834.7	5113.9	6786.8	114785.9 CMSDAY
Mean	191.8	172.8	124.7	219.9	654.8	695.3	381.0	414.8	321.6	188.2	182.6	218.9	314.5 CMS
Max	268.4	292.1	208.5	835.2	1065.0	1116.0	533.3	455.8	421.6	293.8	257.2	310.8	1116.0 CMS
Min	69.6	67.4	40.0	89.8	383.8	367.6	233.2	367.6	144.4	75.1	82.8	69.6	40.0 CMS
Runoff	497.09	462.89	323.19	588.93	1753.86	1802.10	1020.56	1075.06	861.49	504.12	441.84	586.38	9917.50 MCM

Momentary Peak 1119.00 CMS, at 8.40 M (A.D), at 12.00 Hours, on Sep 5, 1994

Runoff Yield 29.66 Liters/Second/Square KM, Momentary Peak Yield 105.54 Liters/Second/Square KM

WATER YEAR 1994

MAE KLONG RIVER BASIN

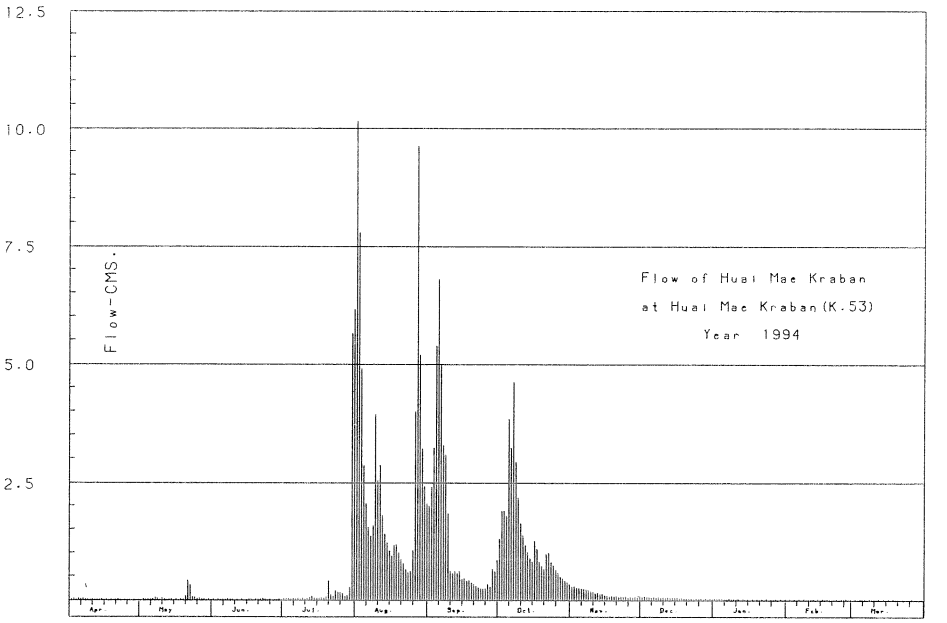
Huai Mae Kraban at Ban Si Mong Khon, Kanchanaburi (K.53)

Location	Lat. 14°-01-39″ N., Long. 99°-13-31″ E., on right bank at the bridge on road, Ban Nong Chik, Tambon Si Mong Khon, 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 70 diacharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.54	0.53	0.53	0.54	2.36	1.10	0.95	0.70	0.58	0.54	0.53	0.53	
2	0.54	0.53	0.53	0.55	2.10	1.17	1.08	0.70	0.58	0.54	0.53	0.53	
3	0.54	0.54	0.53	0.54	1.49	1.29	1.08	0.69	0.58	0.54	0.53	0.53	
4	0.54	0.53	0.53	0.54	1.24	1.54	1.06	0.68	0.57	0.54	0.53	0.53	
5	0.54	0.53	0.53	0.54	1.11	1.68	1.37	0.68	0.57	0.54	0.53	0.53	
6	0.54	0.53	0.53	0.54	1.01	1.50	1.29	0.67	0.57	0.54	0.53	0.53	
7	0.53	0.57	0.53	0.54	0.97	1.30	1.46	0.67	0.57	0.54	0.53	0.53	
8	0.53	0.54	0.53	0.54	1.02	1.27	1.25	0.66	0.57	0.54	0.53	0.53	
9	0.53	0.53	0.53	0.54	1.38	1.07	1.13	0.65	0.56	0.54	0.53	0.53	
10	0.53	0.55	0.53	0.54	1.19	0.78	1.03	0.64	0.56	0.54	0.53	0.53	
11	0.53	0.54	0.53	0.54	1.24	0.77	0.97	0.63	0.56	0.53	0.53	0.53	
12	0.53	0.53	0.53	0.57	1.06	0.78	0.92	0.63	0.56	0.53	0.53	0.53	
13	0.53	0.53	0.53	0.59	0.98	0.77	0.88	0.62	0.56	0.53	0.53	0.53	
14	0.53	0.53	0.53	0.56	0.93	0.78	0.85	0.62	0.56	0.53	0.53	0.53	
15	0.53	0.53	0.53	0.55	0.89	0.74	0.83	0.61	0.56	0.53	0.53	0.53	
16	0.53	0.53	0.53	0.55	0.86	0.74	0.94	0.60	0.56	0.53	0.53	0.53	
17	0.53	0.53	0.53	0.55	0.92	0.73	0.90	0.59	0.55	0.53	0.53	0.53	
18	0.53	0.53	0.53	0.55	0.92	0.73	0.83	0.59	0.55	0.53	0.53	0.53	
19	0.53	0.54	0.53	0.57	0.88	0.72	0.81	0.59	0.55	0.53	0.53	0.53	
20	0.53	0.60	0.54	0.73	0.84	0.71	0.79	0.59	0.55	0.53	0.53	0.53	
21	0.53	0.73	0.54	0.61	0.82	0.70	0.87	0.58	0.55	0.53	0.53	0.52	
22	0.52	0.71	0.54	0.59	0.79	0.69	0.88	0.58	0.54	0.53	0.53	0.52	
23	0.52	0.58	0.53	0.65	0.77	0.68	0.83	0.58	0.54	0.53	0.53	0.52	
24	0.52	0.56	0.53	0.64	0.78	0.67	0.81	0.58	0.54	0.53	0.53	0.52	
25	0.52	0.55	0.53	0.63	0.89	0.68	0.79	0.57	0.54	0.53	0.53	0.52	
26	0.52	0.55	0.53	0.62	1.39	0.71	0.77	0.57	0.54	0.53	0.53	0.52	
27	0.52	0.54	0.53	0.59	1.91	0.70	0.75	0.57	0.54	0.53	0.53	0.52	
28	0.52	0.53	0.53	0.60	1.52	0.79	0.74	0.57	0.54	0.53	0.53	0.52	
29	0.52	0.53	0.53	0.69	1.29	0.78	0.73	0.57	0.54	0.53		0.52	
30	0.52	0.53	0.53	1.63	1.17	0.84	0.72	0.59	0.54	0.53		0.52	
31		0.53		1.79	1.11		0.71		0.54	0.53		0.52	
Mean	0.53	0.55	0.53	0.65	1.16	0.91	0.94	0.62	0.56	0.53	0.53	0.53	
Max	0.54	0.73	0.54	1.79	2.36	1.68	1.46	0.70	0.58	0.54	0.53	0.53	2.36
Min	0.52	0.53	0.53	0.54	0.77	0.67	0.71	0.57	0.54	0.53	0.53	0.52	0.52

Annual Max Momentary Gage Height 2.65 M (A.D), at 21.00 Hours, on Aug 1, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.44 M (A.D)
Left Bank Elevation 3.25 M (A.D)
Right Bank Elevation 3.69 M (A.D), Drainage Area 299 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.03	0.03	0.04	10.16	2.00	1.30	0.30	0.08	0.04	0.03	0.03	
2	0.04	0.03	0.03	0.05	7.80	2.42	1.90	0.30	0.08	0.04	0.03	0.03	
3	0.04	0.04	0.03	0.04	4.91	3.23	1.90	0.28	0.08	0.04	0.03	0.03	
4	0.04	0.03	0.03	0.04	2.88	5.40	1.80	0.26	0.07	0.04	0.03	0.03	
5	0.04	0.03	0.03	0.04	2.06	6.80	3.86	0.26	0.07	0.04	0.03	0.03	
6	0.04	0.03	0.03	0.04	1.55	5.00	3.23	0.24	0.07	0.04	0.03	0.03	
7	0.03	0.07	0.03	0.04	1.38	3.30	4.64	0.24	0.07	0.04	0.03	0.03	
8	0.03	0.04	0.03	0.04	1.60	3.09	2.95	0.22	0.07	0.04	0.03	0.03	
9	0.03	0.03	0.03	0.04	3.94	1.85	2.18	0.20	0.06	0.04	0.03	0.03	
10	0.03	0.05	0.03	0.04	2.54	0.62	1.65	0.18	0.06	0.04	0.03	0.03	
11	0.03	0.04	0.03	0.04	2.88	0.58	1.38	0.16	0.06	0.03	0.03	0.03	
12	0.03	0.03	0.03	0.07	1.80	0.62	1.18	0.16	0.06	0.03	0.03	0.03	
13	0.03	0.03	0.03	0.09	1.42	0.58	1.02	0.14	0.06	0.03	0.03	0.03	
14	0.03	0.03	0.03	0.06	1.22	0.62	0.90	0.14	0.06	0.03	0.03	0.03	
15	0.03	0.03	0.03	0.05	1.06	0.46	0.82	0.12	0.06	0.03	0.03	0.03	
16	0.03	0.03	0.03	0.05	0.94	0.46	1.26	0.10	0.06	0.03	0.03	0.03	
17	0.03	0.03	0.03	0.05	1.18	0.42	1.10	0.09	0.05	0.03	0.03	0.03	
18	0.03	0.03	0.03	0.05	1.18	0.42	0.82	0.09	0.05	0.03	0.03	0.03	
19	0.03	0.04	0.03	0.07	1.02	0.38	0.74	0.09	0.05	0.03	0.03	0.03	
20	0.03	0.10	0.04	0.42	0.86	0.34	0.66	0.09	0.05	0.03	0.03	0.03	
21	0.03	0.42	0.04	0.12	0.78	0.30	0.98	0.08	0.05	0.03	0.03	0.02	
22	0.02	0.34	0.04	0.09	0.66	0.28	1.02	0.08	0.04	0.03	0.03	0.02	
23	0.02	0.08	0.03	0.20	0.58	0.26	0.82	0.08	0.04	0.03	0.03	0.02	
24	0.02	0.06	0.03	0.18	0.62	0.24	0.74	0.08	0.04	0.03	0.03	0.02	
25	0.02	0.05	0.03	0.16	1.06	0.26	0.66	0.07	0.04	0.03	0.03	0.02	
26	0.02	0.05	0.03	0.14	4.02	0.34	0.58	0.07	0.04	0.03	0.03	0.02	
27	0.02	0.04	0.03	0.09	9.63	0.30	0.50	0.07	0.04	0.03	0.03	0.02	
28	0.02	0.03	0.03	0.10	5.20	0.66	0.46	0.07	0.04	0.03	0.03	0.02	
29	0.02	0.03	0.03	0.28	3.23	0.62	0.42	0.07	0.04	0.03		0.02	
30	0.02	0.03	0.03	5.66	2.42	0.86	0.38	0.09	0.04	0.03		0.02	
31		0.03		6.16	2.06		0.34		0.04	0.03		0.02	
Total	0.87	1.93	0.93	14.54	82.64	42.71	42.19	4.42	1.72	1.03	0.84	0.82	194.64 CMSDAY
Mean	0.03	0.06	0.03	0.47	2.67	1.42	1.36	0.15	0.06	0.03	0.03	0.03	0.53 CMS
Max	0.04	0.42	0.04	6.16	10.16	6.80	4.64	0.30	0.08	0.04	0.03	0.03	10.16 CMS
Min	0.02	0.03	0.03	0.04	0.58	0.24	0.34	0.07	0.04	0.03	0.03	0.02	0.02 CMS
Runoff	0.075	0.167	0.080	1.256	7.140	3.690	3.645	0.382	0.149	0.089	0.073	0.071	16.817 MCM

Momentary Peak 13.85 CMS, at 2.65 M (A.D), at 21.00 Hours, on Aug 1, 1994

Runoff Yield 1.78 Liters/Second/Square KM, Momentary Peak Yield 46.32 Liters/Second/Square KM

WATER YEAR 1994

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Rai Phaniat, Phetchaburi (B.1A)

Location — Lat. 13°-04'-22" N., Long. 99°-56'-37" E., on left bank, next to Muang Thamon Regulator, Ban Rai Phaniat, Tambon Ban Mo, Amphoe Muang, Phetchaburi.

Drainage Area — 4,188 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — -0.060 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank along the gage line.

Elevation — +6.692 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 because of tidal effect.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Flow regulated by Kaeng Krachan Reservoir and Phet Diversion Dam. Stage-discharge relation defined by 53 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

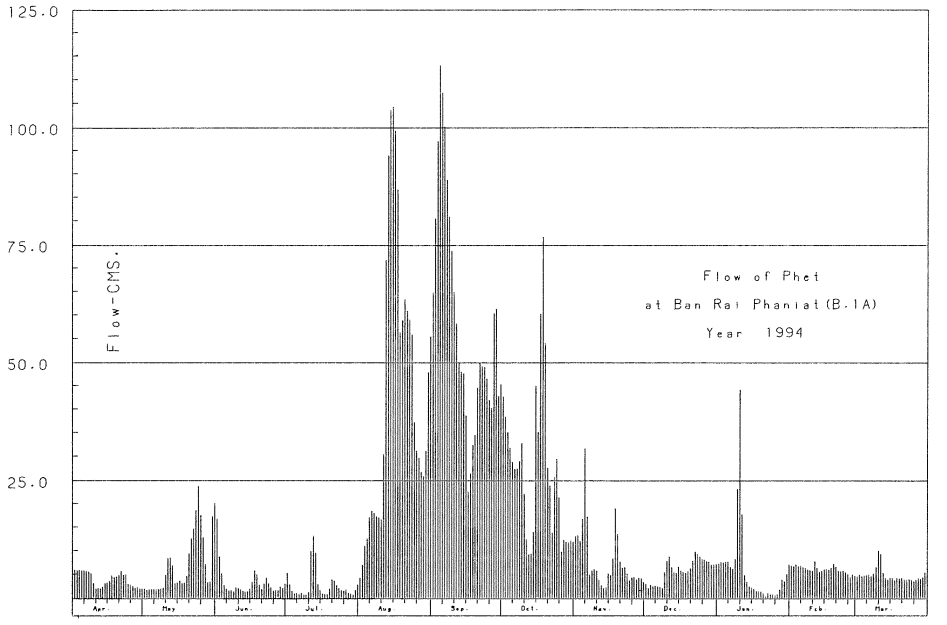
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.06	0.87	1.46	1.04	0.99	2.82	2.24	1.34	0.93	1.12	1.10	1.01	
2	1.06	0.86	1.18	0.93	1.11	3.20	2.12	1.34	0.89	1.13	1.10	1.02	
3	1.06	0.86	1.03	0.84	1.26	3.59	2.03	1.30	0.92	1.13	1.11	1.01	
4	1.06	0.87	0.92	0.81	1.32	3.96	1.93	1.46	0.91	1.13	1.10	1.01	
5	1.06	0.87	0.87	0.81	1.47	3.83	1.84	1.93	0.91	1.13	1.10	1.02	
6	1.05	0.86	0.85	0.80	1.52	3.66	1.80	1.48	0.91	1.09	1.09	1.02	
7	1.05	0.87	0.85	0.81	1.50	3.40	1.80	1.02	0.90	1.07	1.08	1.01	
8	1.03	0.87	0.84	0.79	1.48	3.21	1.85	1.06	0.89	1.16	1.07	1.03	
9	0.94	0.89	0.89	0.78	1.47	3.04	1.96	1.07	1.04	1.67	1.06	1.09	
10	0.88	1.02	0.89	0.83	1.46	2.82	1.64	1.06	1.14	2.28	1.06	1.23	
11	0.88	1.16	0.86	1.22	1.89	2.65	1.31	0.97	1.18	1.49	1.14	1.20	
12	0.88	1.17	0.85	1.34	2.99	2.44	1.20	0.92	1.09	1.02	1.08	1.04	
13	0.90	1.10	0.83	1.21	3.52	2.38	1.20	0.88	1.04	0.95	1.05	0.99	
14	0.94	0.94	0.84	0.93	3.74	2.37	1.37	0.90	1.04	0.91	1.05	0.98	
15	0.94	0.94	0.87	0.85	3.76	2.13	2.30	1.03	1.09	0.89	1.07	0.99	
16	0.96	0.96	0.95	0.81	3.64	1.65	2.03	1.02	1.06	0.87	1.07	0.99	
17	1.01	0.94	1.06	0.79	3.35	1.77	2.70	1.16	1.04	0.85	1.07	0.97	
18	1.00	0.94	1.02	0.80	2.60	1.95	3.11	1.54	1.04	0.84	1.08	0.99	
19	1.00	1.01	0.92	0.87	2.67	2.01	2.54	1.35	1.05	0.84	1.12	0.99	
20	1.02	1.20	0.87	0.98	2.78	2.29	1.81	1.14	1.08	0.81	1.09	0.99	
21	1.05	1.32	0.93	0.96	2.72	2.43	1.69	1.08	1.14	0.76	1.06	0.98	
22	1.02	1.39	1.00	0.92	2.67	2.41	1.36	1.09	1.22	0.81	1.05	0.97	
23	1.02	1.52	0.94	0.88	2.59	2.41	1.75	1.03	1.20	0.80	1.06	0.98	
24	0.93	1.69	0.89	0.86	2.09	2.34	1.86	0.97	1.18	0.79	1.04	0.97	
25	0.92	1.49	0.85	0.85	1.91	2.22	1.61	1.00	1.16	0.78	1.03	0.96	
26	0.91	1.33	0.85	0.86	1.87	2.17	1.22	1.00	1.15	0.79	1.00	0.97	
27	0.89	1.11	0.86	0.82	1.78	2.71	1.31	0.98	1.14	0.87	1.02	0.99	
28	0.89	0.95	0.90	0.80	1.75	2.73	1.29	0.99	1.13	0.97	1.01	0.98	
29	0.88	0.95	0.89	0.79	1.91	2.24	1.29	0.99	1.11	0.96		1.00	
30	0.87	1.48	0.93	0.86	2.38	2.31	1.30	0.95	1.11	1.03		1.04	
31		1.57		0.92	2.58		1.29		1.11	1.11		1.04	
Mean	0.97	1.10	0.93	0.90	2.22	2.64	1.77	1.14	1.06	1.03	1.07	1.01	
Max	1.06	1.69	1.46	1.34	3.76	3.96	3.11	1.93	1.22	2.28	1.14	1.23	3.96
Min	0.87	0.86	0.83	0.78	0.99	1.65	1.20	0.88	0.89	0.76	1.00	0.96	0.76

Annual Max Momentary Gage Height — 4.00 M (MSL), at 18.00 Hours, on Sep 4, 1994

Zero Gage at Bottom Elevation — -0.06 M (MSL), River Bed -0.99 M (MSL)

Left Bank Elevation — 5.02 M (MSL)

Right Bank Elevation — 4.99 M (MSL), Drainage Area 4188 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.04	2.05	16.90	5.56	4.39	65.00	42.98	13.42	3.13	7.50	7.00	4.84	
2	6.04	1.90	9.00	3.13	7.25	80.60	38.62	13.42	2.35	7.75	7.00	5.08	
3	6.04	1.90	5.32	1.60	11.18	97.17	35.45	12.30	2.92	7.75	7.25	4.84	
4	6.04	2.05	2.92	1.15	12.86	113.14	32.02	16.90	2.71	7.75	7.00	4.84	
5	6.04	2.05	2.05	1.15	17.20	107.49	28.96	32.02	2.71	7.75	7.00	5.08	
6	5.80	1.90	1.75	1.00	18.70	100.18	27.60	17.50	2.71	6.76	6.76	5.08	
7	5.80	2.05	1.75	1.15	18.10	89.00	27.60	5.08	2.50	6.28	6.52	4.84	
8	5.32	2.05	1.60	0.90	17.50	81.02	29.30	6.04	2.35	8.50	6.28	5.32	
9	3.34	2.35	2.35	0.80	17.20	73.88	33.04	6.28	5.56	23.34	6.04	6.76	
10	2.20	5.08	2.35	1.45	16.90	65.00	22.38	6.04	8.00	44.46	6.04	10.34	
11	2.20	8.50	1.90	10.06	30.66	58.35	12.58	3.97	9.00	17.80	8.00	9.50	
12	2.20	8.75	1.75	13.42	71.80	50.38	9.50	2.92	6.76	5.08	6.52	5.56	
13	2.50	7.00	1.45	9.78	94.16	48.16	9.50	2.20	5.56	3.55	5.80	4.39	
14	3.34	3.34	1.60	3.13	103.62	47.79	14.26	2.50	5.56	2.71	5.80	4.18	
15	3.34	3.34	2.05	1.75	104.48	38.98	45.20	5.32	6.76	2.35	6.28	4.39	
16	3.76	3.76	3.55	1.15	99.32	22.70	35.45	5.08	6.04	2.05	6.28	4.39	
17	4.84	3.34	6.04	0.90	86.90	26.61	60.30	8.50	5.56	1.75	6.28	3.97	
18	4.60	3.34	5.08	1.00	56.40	32.70	76.82	19.30	5.56	1.60	6.52	4.39	
19	4.60	4.84	2.92	2.05	59.13	34.75	54.12	13.70	5.80	1.60	7.50	4.39	
20	5.08	9.50	2.05	4.18	63.42	44.83	27.94	8.00	6.52	1.15	6.76	4.39	
21	5.80	12.86	3.13	3.76	61.08	50.01	23.98	6.52	8.00	0.60	6.04	4.18	
22	5.08	14.82	4.60	2.92	59.13	49.27	13.98	6.76	10.06	1.15	5.80	3.97	
23	5.08	18.70	3.34	2.20	56.02	49.27	25.95	5.32	9.50	1.00	6.04	4.18	
24	3.13	23.98	2.35	1.90	37.55	46.68	29.64	3.97	9.00	0.90	5.56	3.97	
25	2.92	17.80	1.75	1.75	31.34	42.24	21.42	4.60	8.50	0.80	5.32	3.76	
26	2.71	13.14	1.75	1.90	29.98	40.42	10.06	4.60	8.25	0.90	4.60	3.97	
27	2.35	7.25	1.90	1.30	26.94	60.69	12.58	4.18	8.00	2.05	5.08	4.39	
28	2.35	3.55	2.50	1.00	25.95	61.47	12.02	4.39	7.75	3.97	4.84	4.18	
29	2.20	3.55	2.35	0.90	31.34	42.98	12.02	4.39	7.25	3.76		4.60	
30	2.05	17.50	3.13	1.90	48.16	45.57	12.30	3.55	7.25	5.32		5.56	
31		20.20		2.92	55.64		12.02		7.25	7.25		5.56	
Total	122.79	232.44	101.18	87.76	1374.30	1766.33	849.59	248.77	188.87	195.18	175.91	154.89	5498.01 CMSDAY
Mean	4.09	7.50	3.37	2.83	44.33	58.88	27.41	8.29	6.09	6.30	6.28	5.00	15.06 CMS
Max	6.04	23.98	16.90	13.42	104.48	113.14	76.82	32.02	10.06	44.46	8.00	10.34	113.14 CMS
Min	2.05	1.90	1.45	0.80	4.39	22.70	9.50	2.20	2.35	0.60	4.60	3.76	0.60 CMS
Runoff	10.609	20.083	8.742	7.582	118.740	152.611	73.405	21.494	16.318	16.864	15.199	13.382	475.028 MCM

Momentary Peak 114.90 CMS, at 4.00 M (MSL), at 18.00 Hours, on Sep 4, 1994

Runoff Yield 3.60 Liters/Second/Square KM, Momentary Peak Yield 27.44 Liters/Second/Square KM

WATER YEAR 1994

PHETCHABURI RIVER BASIN

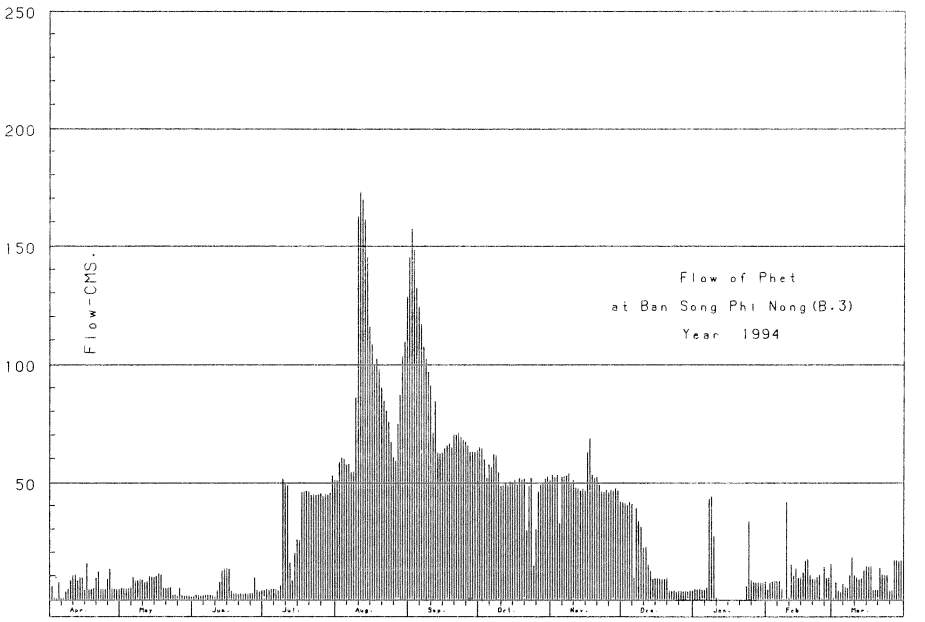
Phetchaburi River at Ban Song Phi Nong, Phetchaburi (B.3)

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	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Kaeng Krachan Reservoir. Stage-discharge relation defined by 49 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.03	42.00	41.84	41.97	42.90	44.01	43.10	42.93	42.75	41.98	41.98	41.81	
2	41.79	41.99	41.87	41.98	43.01	44.13	43.09	42.92	42.74	41.98	42.07	42.08	
3	41.80	41.99	41.85	41.97	43.04	44.04	43.03	42.93	42.73	41.98	42.09	41.95	
4	42.07	41.99	41.85	41.98	43.03	43.88	42.91	42.60	42.75	41.97	42.09	41.93	
5	41.80	42.01	41.85	41.99	43.00	43.80	43.00	42.92	42.74	41.97	42.09	42.05	
6	41.79	42.14	41.87	41.97	43.00	43.72	42.98	42.92	42.12	42.00	42.09	42.01	
7	41.93	42.09	41.86	41.96	42.95	43.62	43.06	42.93	42.71	42.77	41.99	42.01	
8	41.98	42.10	41.87	42.03	42.95	43.56	43.05	42.94	42.61	42.79	41.72	42.16	
9	42.10	42.11	41.85	42.91	43.37	43.50	42.95	42.87	42.57	42.50	42.75	42.32	
10	42.15	42.11	41.83	42.88	44.18	43.43	42.86	42.90	42.40	41.81	41.81	42.16	
11	42.16	42.07	41.95	42.86	44.28	43.18	42.86	42.85	42.41	41.71	42.26	42.13	
12	42.10	42.09	42.08	42.27	44.25	43.35	42.88	42.84	42.26	41.69	42.15	42.11	
13	42.13	42.14	42.20	42.10	44.17	43.07	42.86	42.83	42.20	41.65	42.22	42.12	
14	42.13	42.14	42.22	42.36	44.01	43.06	42.89	42.84	42.12	41.65	42.13	42.21	
15	41.97	42.13	42.22	42.47	43.71	43.07	42.88	42.83	42.12	41.65	42.13	42.24	
16	42.27	42.15	42.22	42.46	43.63	43.09	42.90	43.07	42.12	41.63	42.19	42.24	
17	41.97	42.17	41.94	42.82	43.53	43.11	42.87	43.15	42.12	41.61	42.29	42.24	
18	41.98	42.16	41.90	42.82	43.56	43.12	42.91	42.93	42.11	41.60	42.31	41.97	
19	41.99	42.00	41.90	42.83	43.51	43.10	42.90	42.91	42.12	41.60	42.16	41.96	
20	42.12	42.00	41.89	42.82	43.42	43.17	42.91	42.92	42.12	41.61	42.12	41.96	
21	42.20	42.00	41.89	42.80	43.35	43.17	42.54	42.87	41.96	41.61	42.11	42.23	
22	41.98	42.01	41.89	42.80	43.30	43.18	42.86	42.82	41.95	41.60	42.14	42.16	
23	41.98	41.87	41.89	42.80	43.24	43.16	42.91	42.82	41.95	42.03	42.16	42.16	
24	41.98	41.86	41.89	42.80	43.13	43.14	42.25	42.83	41.93	42.61	41.77	42.17	
25	42.11	41.85	41.91	42.81	43.04	43.13	42.55	42.82	41.94	42.10	42.24	41.95	
26	42.22	42.00	41.90	42.79	43.02	43.11	42.82	42.83	41.94	42.08	42.13	41.95	
27	41.99	41.86	42.13	42.80	43.23	43.07	42.87	42.83	41.94	42.08	42.13	42.30	
28	41.99	41.84	41.96	42.80	43.38	43.07	42.88	42.84	41.94	42.07	42.26	42.29	
29	41.97	41.85	41.94	42.81	43.57	43.07	42.91	42.83	41.94	42.07		42.29	
30	41.97	41.84	41.95	42.93	43.64	43.08	42.92	42.75	41.95	42.07		42.29	
31		41.83		42.90	43.84		42.90		41.96	42.08		42.23	
Mean	42.02	42.01	41.95	42.53	43.43	43.34	42.88	42.88	42.23	41.95	42.13	42.12	
Max	42.27	42.17	42.22	42.93	44.28	44.13	43.10	43.15	42.75	42.79	42.75	42.32	44.28
Min	41.79	41.83	41.83	41.96	42.90	43.06	42.25	42.60	41.93	41.60	41.72	41.81	41.60

Annual Max Momentary Gage Height 44.30 M (MSL), at 12.00 Hours, on Aug 11, 1994
Zero Gage at Bottom Elevation 41.00 M (MSL), River Bed 40.18 M (MSL)
Left Bank Elevation 47.87 M (MSL)
Right Bank Elevation 47.88 M (MSL), Drainage Area 2244 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.19	5.20	1.80	4.54	51.30	145.60	65.20	53.31	41.90	4.76	4.76	1.20	
2	0.94	4.98	2.40	4.76	58.72	157.66	64.48	52.64	41.28	4.76	7.51	7.84	
3	1.00	4.98	2.00	4.54	60.88	148.60	60.16	53.31	40.66	4.76	8.17	4.10	
4	7.51	4.98	2.00	4.76	60.16	132.72	51.97	33.00	41.90	4.54	8.17	3.66	
5	1.00	5.53	2.00	4.98	58.00	124.80	58.00	52.64	41.28	4.54	8.17	6.85	
6	0.94	10.10	2.40	4.54	58.00	117.20	56.66	52.64	9.30	5.20	8.17	5.53	
7	3.66	8.17	2.20	4.32	54.65	107.94	62.32	53.31	39.42	43.14	4.98	5.53	
8	4.76	8.50	2.40	6.19	54.65	102.58	61.60	53.98	33.58	44.38	0.52	10.90	
9	8.50	8.90	2.00	51.97	86.37	97.30	54.65	49.41	31.35	27.50	41.90	18.30	
10	10.50	8.90	1.60	50.04	162.76	91.35	48.78	51.30	22.30	1.20	1.20	10.90	
11	10.90	7.51	4.10	48.78	173.20	71.28	48.78	48.15	22.82	0.46	15.38	9.70	
12	8.50	8.17	7.84	15.86	170.05	84.75	50.04	47.52	15.38	0.36	10.50	8.90	
13	9.70	10.10	12.50	8.50	161.74	63.04	48.78	46.89	12.50	0.20	13.46	9.30	
14	9.70	10.10	13.46	20.30	145.60	62.32	50.67	47.52	9.30	0.20	9.70	12.98	
15	4.54	9.70	13.46	25.94	116.25	63.04	50.04	46.89	9.30	0.20	9.70	14.42	
16	15.86	10.50	13.46	25.42	108.86	64.48	51.30	63.04	9.30	0.12	12.10	14.42	
17	4.54	11.30	3.88	46.26	99.94	65.96	49.41	69.00	9.30	0.04	16.82	14.42	
18	4.76	10.90	3.00	46.26	102.58	66.72	51.97	53.31	8.90	0.00	17.80	4.54	
19	4.98	5.20	3.00	46.89	98.18	65.20	51.30	51.97	9.30	0.00	10.90	4.32	
20	9.30	5.20	2.80	46.26	90.50	70.52	51.97	52.64	9.30	0.04	9.30	4.32	
21	12.50	5.20	2.80	45.00	84.75	70.52	29.70	49.41	4.32	0.04	8.90	13.94	
22	4.76	5.53	2.80	45.00	80.70	71.28	48.78	46.26	4.10	0.00	10.10	10.90	
23	4.76	2.40	2.80	45.00	75.96	69.76	51.97	46.26	4.10	6.19	10.90	10.90	
24	4.76	2.20	2.80	45.00	67.48	68.24	14.90	46.89	3.66	33.58	0.82	11.30	
25	8.90	2.00	3.22	45.63	60.88	67.48	30.25	46.26	3.88	8.50	14.42	4.10	
26	13.46	5.20	3.00	44.38	59.44	65.96	46.26	46.89	3.88	7.84	9.70	4.10	
27	4.98	2.20	9.70	45.00	75.17	63.04	49.41	46.89	3.88	7.84	9.70	17.30	
28	4.98	1.80	4.32	45.00	87.18	63.04	50.04	47.52	3.88	7.51	15.38	16.82	
29	4.54	2.00	3.88	45.63	103.46	63.04	51.97	46.89	3.88	7.51		16.82	
30	4.54	1.80	4.10	53.31	109.78	63.76	52.64	41.90	4.10	7.51		16.82	
31		1.60		51.30	128.76		51.30		4.32	7.84		13.94	
Total	195.96	190.85	137.72	981.36	2905.95	2569.18	1565.30	1497.64	502.37	240.76	299.13	309.07	11395.29 CMSDAY
Mean	6.53	6.16	4.59	31.66	93.74	85.64	50.49	49.92	16.21	7.77	10.68	9.97	31.22 CMS
Max	15.86	11.30	13.46	53.31	173.20	157.66	65.20	69.00	41.90	44.38	41.90	18.30	173.20 CMS
Min	0.94	1.60	1.60	4.32	51.30	62.32	14.90	33.00	3.66	0.00	0.52	1.20	0.00 CMS
Runoff	16.931	16.489	11.899	84.790	251.074	221.977	135.242	129.396	43.405	20.802	25.845	26.704	984.553 MCM

Momentary Peak 175.30 CMS, at 44.30 M (MSL), at 12.00 Hours, on Aug 11, 1994

Runoff Yield 13.91 Liters/Second/Square KM, Momentary Peak Yield 78.12 Liters/Second/Square KM

WATER YEAR 1994

PHETCHABURI RIVER BASIN

Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B.6)

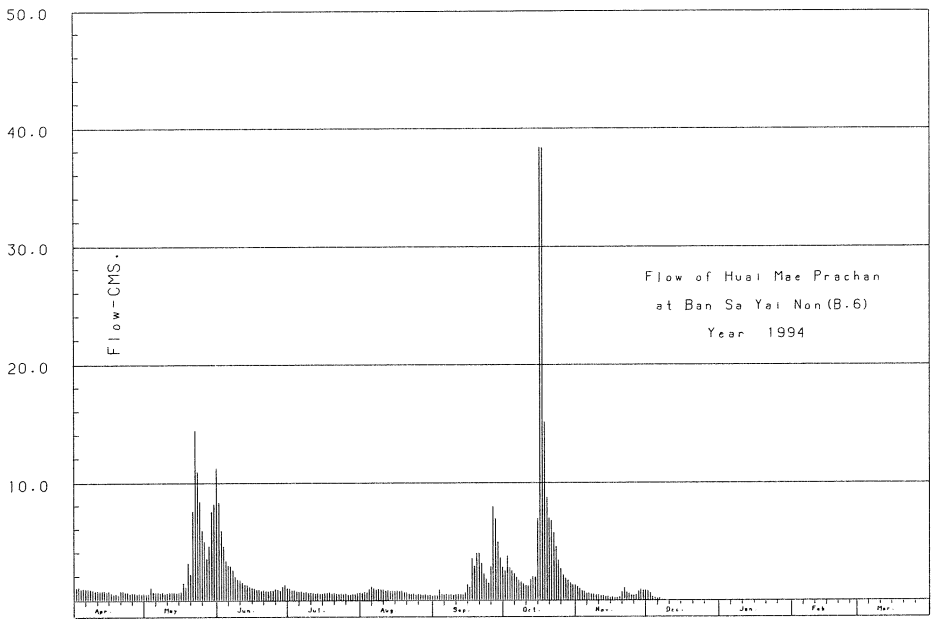
Location — Lat. 12°-55'-56" N., Long. 99°-47'-05" E., on left bank about 250 meters upstream from the bridge of Khuan Phet-Kaeng Krachan Reservoir Road, Amphoe Kaeng Krachan, Phetchaburi.

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.51	22.41	22.97	22.50	22.43	22.37	22.65	22.52	22.46	22.11	21.91	21.81	
2	22.51	22.41	22.85	22.48	22.44	22.38	22.74	22.50	22.43	22.11	21.91	21.81	
3	22.50	22.51	22.78	22.47	22.44	22.48	22.68	22.47	22.33	22.10	21.91	21.81	
4	22.50	22.45	22.72	22.46	22.49	22.41	22.65	22.45	22.32	22.10	21.90	21.81	
5	22.50	22.44	22.70	22.45	22.52	22.40	22.63	22.43	22.30	22.10	21.90	21.80	
6	22.49	22.43	22.69	22.45	22.50	22.40	22.60	22.42	22.28	22.09	21.90	21.80	
7	22.49	22.43	22.66	22.44	22.49	22.40	22.57	22.41	22.25	22.09	21.90	21.80	
8	22.47	22.43	22.60	22.44	22.49	22.39	22.56	22.40	22.22	22.08	21.90	21.80	
9	22.46	22.42	22.58	22.43	22.49	22.39	22.54	22.39	22.20	22.08	21.89	21.80	
10	22.46	22.42	22.57	22.43	22.48	22.39	22.53	22.38	22.19	22.06	21.88	21.80	
11	22.46	22.44	22.55	22.42	22.47	22.40	22.52	22.37	22.17	22.05	21.87	21.80	
12	22.46	22.44	22.54	22.42	22.47	22.41	22.58	22.36	22.16	22.03	21.87	21.80	
13	22.46	22.43	22.53	22.42	22.47	22.39	22.60	22.35	22.15	22.02	21.86	21.80	
14	22.45	22.43	22.52	22.42	22.46	22.44	22.60	22.34	22.13	22.01	21.86	21.80	
15	22.45	22.43	22.51	22.42	22.46	22.54	22.90	22.32	22.12	22.00	21.85	21.80	
16	22.42	22.44	22.50	22.42	22.46	22.51	23.82	22.32	22.11	22.00	21.85	21.80	
17	22.41	22.55	22.49	22.43	22.46	22.73	23.82	22.31	22.11	21.99	21.84	21.80	
18	22.41	22.51	22.48	22.43	22.46	22.69	23.22	22.30	22.10	21.97	21.84	21.80	
19	22.40	22.71	22.47	22.42	22.44	22.75	22.99	22.33	22.10	21.95	21.83	21.80	
20	22.46	22.62	22.47	22.42	22.43	22.75	22.90	22.44	22.11	21.95	21.83	21.80	
21	22.45	22.93	22.46	22.41	22.42	22.71	22.89	22.51	22.15	21.94	21.82	21.80	
22	22.44	23.20	22.46	22.41	22.41	22.63	22.84	22.44	22.16	21.93	21.82	21.80	
23	22.43	23.08	22.46	22.41	22.41	22.58	22.78	22.41	22.15	21.92	21.81	21.80	
24	22.42	22.97	22.47	22.41	22.40	22.55	22.72	22.38	22.14	21.91	21.81	21.80	
25	22.42	22.85	22.49	22.41	22.40	22.69	22.67	22.36	22.14	21.91	21.81	21.80	
26	22.42	22.80	22.48	22.40	22.40	22.95	22.62	22.39	22.13	21.91	21.81	21.80	
27	22.41	22.73	22.47	22.40	22.39	22.90	22.59	22.46	22.13	21.91	21.81	21.80	
28	22.41	22.78	22.52	22.40	22.39	22.80	22.57	22.48	22.12	21.91	21.81	21.80	
29	22.41	22.93	22.53	22.41	22.38	22.73	22.55	22.47	22.12	21.91		21.80	
30	22.41	22.96	22.51	22.42	22.38	22.68	22.53	22.47	22.11	21.91		21.80	
31		23.09		22.43	22.37		22.53		22.11	21.91		21.80	
Mean	22.45	22.63	22.57	22.43	22.44	22.56	22.75	22.41	22.18	22.00	21.86	21.80	
Max	22.51	23.20	22.97	22.50	22.52	22.95	23.82	22.52	22.46	22.11	21.91	21.81	23.82
Min	22.40	22.41	22.46	22.40	22.37	22.37	22.52	22.30	22.10	21.91	21.81	21.80	21.80

Annual Max Momentary Gage Height 24.01 M (MSL), at 24.00 Hours, on Oct 16, 1994
Zero Gage at Bottom Elevation 22.71 M (MSL), River Bed 21.65 M (MSL)
Left Bank Elevation 31.60 M (MSL)
Right Bank Elevation 31.67 M (MSL), Drainage Area 1015 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.10	0.55	8.40	1.00	0.65	0.41	2.50	1.20	0.80	0.00	0.00	0.00	
2	1.10	0.55	6.00	0.90	0.70	0.44	3.80	1.00	0.65	0.00	0.00	0.00	
3	1.00	1.10	4.60	0.85	0.70	0.90	2.80	0.85	0.29	0.00	0.00	0.00	
4	1.00	0.75	3.40	0.80	0.95	0.55	2.50	0.75	0.26	0.00	0.00	0.00	
5	1.00	0.70	3.00	0.75	1.20	0.50	2.30	0.65	0.20	0.00	0.00	0.00	
6	0.95	0.65	2.90	0.75	1.00	0.50	2.00	0.60	0.16	0.00	0.00	0.00	
7	0.95	0.65	2.60	0.70	0.95	0.50	1.70	0.55	0.10	0.00	0.00	0.00	
8	0.85	0.65	2.00	0.70	0.95	0.47	1.60	0.50	0.04	0.00	0.00	0.00	
9	0.80	0.60	1.80	0.65	0.95	0.47	1.40	0.47	0.00	0.00	0.00	0.00	
10	0.80	0.60	1.70	0.65	0.90	0.47	1.30	0.44	0.00	0.00	0.00	0.00	
11	0.80	0.70	1.50	0.60	0.85	0.50	1.20	0.41	0.00	0.00	0.00	0.00	
12	0.80	0.70	1.40	0.60	0.85	0.55	1.80	0.38	0.00	0.00	0.00	0.00	
13	0.80	0.65	1.30	0.60	0.85	0.47	2.00	0.35	0.00	0.00	0.00	0.00	
14	0.75	0.65	1.20	0.60	0.80	0.70	2.00	0.32	0.00	0.00	0.00	0.00	
15	0.75	0.65	1.10	0.60	0.80	1.40	7.00	0.26	0.00	0.00	0.00	0.00	
16	0.60	0.70	1.00	0.60	0.80	1.10	38.40	0.26	0.00	0.00	0.00	0.00	
17	0.55	1.50	0.95	0.65	0.80	3.60	38.40	0.23	0.00	0.00	0.00	0.00	
18	0.55	1.10	0.90	0.65	0.80	2.90	15.10	0.20	0.00	0.00	0.00	0.00	
19	0.50	3.20	0.85	0.60	0.70	4.00	8.80	0.29	0.00	0.00	0.00	0.00	
20	0.80	2.20	0.85	0.60	0.65	4.00	7.00	0.70	0.00	0.00	0.00	0.00	
21	0.75	7.60	0.80	0.55	0.60	3.20	6.80	1.10	0.00	0.00	0.00	0.00	
22	0.70	14.50	0.80	0.55	0.55	2.30	5.80	0.70	0.00	0.00	0.00	0.00	
23	0.65	11.00	0.80	0.55	0.55	1.80	4.60	0.55	0.00	0.00	0.00	0.00	
24	0.60	8.40	0.85	0.55	0.50	1.50	3.40	0.44	0.00	0.00	0.00	0.00	
25	0.60	6.00	0.95	0.55	0.50	2.90	2.70	0.38	0.00	0.00	0.00	0.00	
26	0.60	5.00	0.90	0.50	0.50	8.00	2.20	0.47	0.00	0.00	0.00	0.00	
27	0.55	3.60	0.85	0.50	0.47	7.00	1.90	0.80	0.00	0.00	0.00	0.00	
28	0.55	4.60	1.20	0.50	0.47	5.00	1.70	0.90	0.00	0.00	0.00	0.00	
29	0.55	7.60	1.30	0.55	0.44	3.60	1.50	0.85	0.00	0.00		0.00	
30	0.55	8.20	1.10	0.60	0.44	2.80	1.30	0.85	0.00	0.00		0.00	
31		11.25		0.65	0.41		1.30		0.00	0.00		0.00	
Total	22.55	106.60	57.00	19.90	22.28	62.53	176.80	17.45	2.50	0.00	0.00	0.00	487.61 CMSDAY
Mean	0.75	3.44	1.90	0.64	0.72	2.08	5.70	0.58	0.08	0.00	0.00	0.00	1.34 CMS
Max	1.10	14.50	8.40	1.00	1.20	8.00	38.40	1.20	0.80	0.00	0.00	0.00	38.40 CMS
Min	0.50	0.55	0.80	0.50	0.41	0.41	1.20	0.20	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	1.948	9.210	4.925	1.719	1.925	5.403	15.276	1.508	0.216	0.000	0.000	0.000	42.130 MCM

Momentary Peak 47.50 CMS, at 24.01 M (MSL), at 24.00 Hours, on Oct 16, 1994

Runoff Yield 1.32 Liters/Second/Square KM, Momentary Peak Yield 46.80 Liters/Second/Square KM

WATER YEAR 1994

PHETCHABURI RIVER BASIN

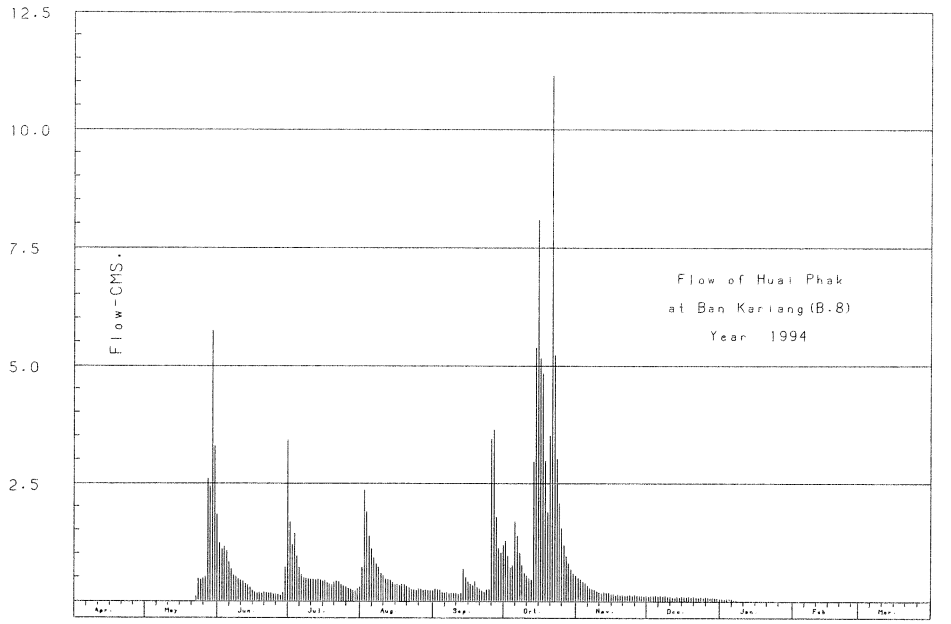
Huai Phak at Ban Kariang, Phetchaburi (B.8)

Location	Lat. 12°48′49″ N., Long. 99°41′32″ E., on left bank at Ban Kariang, Tambon Song Phi Nong, Amphoe Tha Yang, Phetchaburi.
Drainage Area	264 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Infront of gage observer's house.
Elevation	+8.879 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1973 to date.
Rating Operation	
Period of Rating	1973 to date.
Rated by Float	-
Rated by Current Meter	1973 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 79 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.03	1.00	1.96	2.06	1.83	1.63	1.97	1.75	1.51	1.45	1.23	0.55	
2	1.09	1.00	1.93	1.95	2.18	1.63	1.89	1.73	1.51	1.45	1.19	0.55	
3	1.09	1.00	1.94	2.01	2.10	1.62	1.83	1.71	1.52	1.45	1.17	0.54	
4	1.09	1.02	1.92	1.89	2.00	1.60	1.84	1.69	1.52	1.46	1.15	0.52	
5	1.07	1.06	1.86	1.83	1.93	1.59	2.06	1.67	1.51	1.45	1.10	0.49	
6	1.06	1.09	1.82	1.78	1.88	1.58	2.00	1.64	1.51	1.43	1.05	0.48	
7	1.05	1.11	1.78	1.75	1.85	1.57	1.91	1.63	1.51	1.42	1.02	0.49	
8	0.98	1.14	1.76	1.74	1.83	1.57	1.84	1.62	1.51	1.41	0.97	0.50	
9	0.95	1.16	1.74	1.74	1.80	1.58	1.80	1.61	1.50	1.40	0.92	0.48	
10	0.91	1.17	1.72	1.73	1.77	1.57	1.77	1.58	1.49	1.39	0.87	0.46	
11	0.86	1.18	1.71	1.73	1.74	1.55	1.74	1.58	1.49	1.39	0.84	0.45	
12	0.85	1.18	1.69	1.73	1.73	1.58	1.73	1.59	1.48	1.38	0.80	0.44	
13	0.86	1.19	1.67	1.73	1.73	1.82	2.28	1.59	1.49	1.40	0.78	0.44	
14	0.86	1.19	1.65	1.73	1.70	1.76	2.60	1.58	1.49	1.39	0.77	0.43	
15	0.88	1.19	1.62	1.72	1.68	1.71	2.89	1.56	1.49	1.37	0.76	0.43	
16	0.91	1.20	1.59	1.72	1.68	1.68	2.57	1.55	1.49	1.34	0.75	0.42	
17	0.90	1.22	1.58	1.70	1.67	1.67	2.53	1.53	1.49	1.31	0.74	0.42	
18	0.93	1.26	1.59	1.68	1.68	1.71	2.28	1.54	1.49	1.29	0.73	0.41	
19	0.97	1.29	1.57	1.68	1.68	1.65	2.10	1.53	1.49	1.29	0.72	0.41	
20	0.98	1.33	1.59	1.70	1.66	1.63	2.36	1.53	1.49	1.28	0.73	0.40	
21	1.01	1.38	1.58	1.71	1.65	1.61	3.17	1.53	1.49	1.29	0.72	0.39	
22	1.03	1.51	1.58	1.71	1.63	1.60	2.58	1.53	1.48	1.28	0.70	0.38	
23	1.05	1.74	1.57	1.68	1.62	1.62	2.29	1.53	1.48	1.28	0.67	0.36	
24	1.07	1.73	1.56	1.66	1.62	1.63	2.13	1.52	1.48	1.27	0.65	0.35	
25	1.08	1.74	1.55	1.65	1.63	2.35	2.03	1.53	1.48	1.27	0.62	0.34	
26	1.08	1.76	1.54	1.64	1.63	2.38	1.95	1.52	1.48	1.27	0.60	0.33	
27	1.07	2.22	1.53	1.63	1.62	2.08	1.89	1.52	1.47	1.26	0.58	0.32	
28	1.05	2.19	1.59	1.61	1.62	1.93	1.85	1.51	1.47	1.26	0.56	0.31	
29	1.03	2.64	1.83	1.61	1.62	1.91	1.82	1.51	1.47	1.26		0.30	
30	1.02	2.33	2.35	1.63	1.61	1.95	1.79	1.51	1.46	1.26		0.29	
31		2.09		1.65	1.62		1.77		1.46	1.25		0.28	
Mean	0.99	1.43	1.71	1.73	1.74	1.73	2.11	1.58	1.49	1.35	0.84	0.42	
Max	1.09	2.64	2.35	2.06	2.18	2.38	3.17	1.75	1.52	1.46	1.23	0.55	3.17
Min	0.85	1.00	1.53	1.61	1.61	1.55	1.73	1.51	1.46	1.25	0.56	0.28	0.28

Annual Max Momentary Gage Height 3.66 M (A.D), at 20.00 Hours, on Sep 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.82 M (A.D)
Left Bank Elevation 6.49 M (A.D)
Right Bank Elevation 8.88 M (A.D), Drainage Area 264 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.24	1.70	0.72	0.26	1.28	0.50	0.11	0.05	0.00	0.00	
2	0.00	0.00	1.12	1.20	2.38	0.26	0.96	0.46	0.11	0.05	0.00	0.00	
3	0.00	0.00	1.16	1.45	1.90	0.24	0.72	0.42	0.12	0.05	0.00	0.00	
4	0.00	0.00	1.08	0.96	1.40	0.20	0.76	0.38	0.12	0.06	0.00	0.00	
5	0.00	0.00	0.84	0.72	1.12	0.19	1.70	0.34	0.11	0.05	0.00	0.00	
6	0.00	0.00	0.68	0.56	0.92	0.18	1.40	0.28	0.11	0.03	0.00	0.00	
7	0.00	0.00	0.56	0.50	0.80	0.17	1.04	0.26	0.11	0.02	0.00	0.00	
8	0.00	0.00	0.52	0.48	0.72	0.17	0.76	0.24	0.11	0.01	0.00	0.00	
9	0.00	0.00	0.48	0.48	0.60	0.18	0.60	0.22	0.10	0.00	0.00	0.00	
10	0.00	0.00	0.44	0.46	0.54	0.17	0.54	0.18	0.09	0.00	0.00	0.00	
11	0.00	0.00	0.42	0.46	0.48	0.15	0.48	0.18	0.09	0.00	0.00	0.00	
12	0.00	0.00	0.38	0.46	0.46	0.18	0.46	0.19	0.08	0.00	0.00	0.00	
13	0.00	0.00	0.34	0.46	0.46	0.68	2.98	0.19	0.09	0.00	0.00	0.00	
14	0.00	0.00	0.30	0.46	0.40	0.52	5.40	0.18	0.09	0.00	0.00	0.00	
15	0.00	0.00	0.24	0.44	0.36	0.42	8.10	0.16	0.09	0.00	0.00	0.00	
16	0.00	0.00	0.19	0.44	0.36	0.36	5.16	0.15	0.09	0.00	0.00	0.00	
17	0.00	0.00	0.18	0.40	0.34	0.34	4.84	0.13	0.09	0.00	0.00	0.00	
18	0.00	0.00	0.19	0.36	0.36	0.42	2.98	0.14	0.09	0.00	0.00	0.00	
19	0.00	0.00	0.17	0.36	0.36	0.30	1.90	0.13	0.09	0.00	0.00	0.00	
20	0.00	0.00	0.19	0.40	0.32	0.26	3.52	0.13	0.09	0.00	0.00	0.00	
21	0.00	0.00	0.18	0.42	0.30	0.22	11.14	0.13	0.09	0.00	0.00	0.00	
22	0.00	0.11	0.18	0.42	0.26	0.20	5.24	0.13	0.08	0.00	0.00	0.00	
23	0.00	0.48	0.17	0.36	0.24	0.24	3.04	0.13	0.08	0.00	0.00	0.00	
24	0.00	0.46	0.16	0.32	0.24	0.26	2.08	0.12	0.08	0.00	0.00	0.00	
25	0.00	0.48	0.15	0.30	0.26	3.45	1.55	0.13	0.08	0.00	0.00	0.00	
26	0.00	0.52	0.14	0.28	0.26	3.66	1.20	0.12	0.08	0.00	0.00	0.00	
27	0.00	2.62	0.13	0.26	0.24	1.80	0.96	0.12	0.07	0.00	0.00	0.00	
28	0.00	2.44	0.19	0.22	0.24	1.12	0.80	0.11	0.07	0.00	0.00	0.00	
29	0.00	5.76	0.72	0.22	0.24	1.04	0.68	0.11	0.07	0.00		0.00	
30	0.00	3.31	3.45	0.26	0.22	1.20	0.58	0.11	0.06	0.00		0.00	
31		1.85		0.30	0.24		0.54		0.06	0.00		0.00	
Total	0.00	18.03	16.19	16.11	17.74	18.84	73.39	6.07	2.80	0.32	0.00	0.00	169.49 CMSDAY
Mean	0.00	0.58	0.54	0.52	0.57	0.63	2.37	0.20	0.09	0.01	0.00	0.00	0.46 CMS
Max	0.00	5.76	3.45	1.70	2.38	3.66	11.14	0.50	0.12	0.06	0.00	0.00	11.14 CMS
Min	0.00	0.00	0.13	0.22	0.22	0.15	0.46	0.11	0.06	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	1.558	1.399	1.392	1.533	1.628	6.341	0.524	0.242	0.028	0.000	0.000	14.644 MCM

Momentary Peak 17.44 CMS, at 3.66 M (A.D), at 20.00 Hours, on Sep 25, 1994

Runoff Yield 1.76 Liters/Second/Square KM, Momentary Peak Yield 66.06 Liters/Second/Square KM

WATER YEAR 1994

PHETCHABURI RIVER BASIN

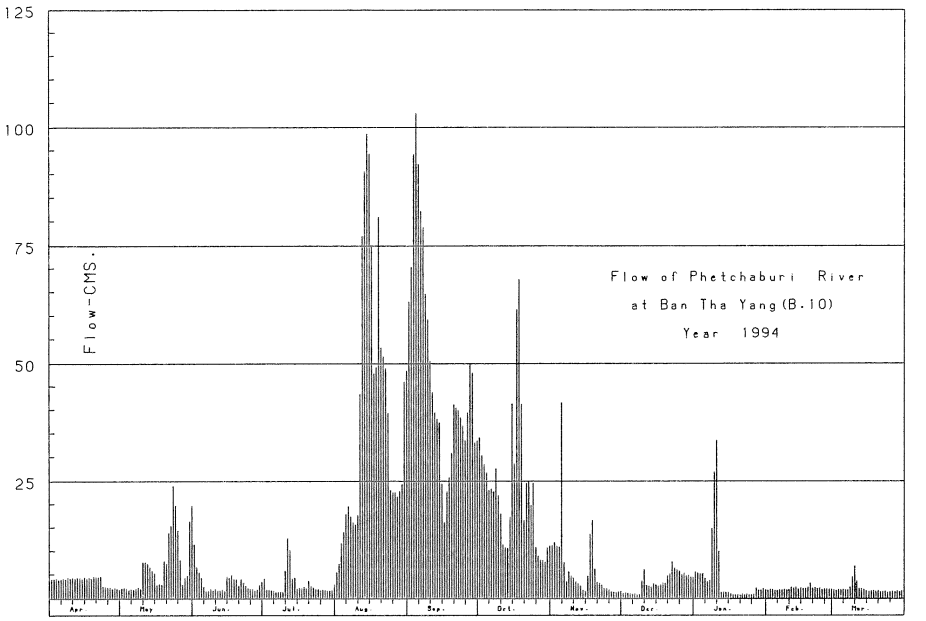
Phetchaburi River at Ban Tha Yang, Phetchaburi (B.10)

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 good. Flow regulated by Phet Dam. Stage-discharge relation defined by 53 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.84	0.67	1.34	0.85	0.95	3.81	2.57	1.32	0.55	0.95	0.64	0.64	
2	0.85	0.69	1.02	0.65	1.06	4.08	2.38	1.37	0.56	0.94	0.65	0.64	
3	0.85	0.67	0.94	0.64	1.36	4.88	2.28	1.31	0.56	0.92	0.66	0.65	
4	0.84	0.64	0.87	0.64	1.51	5.17	2.19	1.31	0.52	0.93	0.63	0.65	
5	0.85	0.65	0.70	0.62	1.75	4.81	2.01	2.94	0.52	0.86	0.64	0.65	
6	0.85	0.65	0.62	0.59	1.84	4.48	2.02	1.08	0.51	0.82	0.64	0.65	
7	0.85	0.66	0.61	0.59	1.73	4.36	2.00	0.82	0.49	0.83	0.65	0.64	
8	0.87	0.69	0.67	0.59	1.65	3.87	2.24	0.96	0.48	1.57	0.65	0.71	
9	0.86	0.67	0.62	0.58	1.63	3.66	1.95	0.89	0.82	2.20	0.65	0.88	
10	0.86	1.09	0.66	0.97	1.74	3.30	1.76	0.87	0.99	2.54	0.66	1.03	
11	0.85	1.08	0.62	1.42	3.02	3.04	1.34	0.81	0.75	1.24	0.70	0.82	
12	0.87	1.07	0.63	1.26	4.30	2.83	1.29	0.77	0.72	0.60	0.69	0.68	
13	0.86	1.01	0.64	0.85	4.76	2.76	1.29	0.74	0.71	0.59	0.70	0.67	
14	0.85	0.97	0.62	0.87	5.02	2.73	1.72	0.63	0.77	0.59	0.67	0.66	
15	0.87	0.93	0.88	0.66	4.88	2.08	2.93	0.62	0.76	0.58	0.68	0.62	
16	0.86	0.75	0.87	0.69	4.24	1.66	2.29	0.89	0.72	0.54	0.68	0.61	
17	0.87	0.76	0.90	0.67	3.20	1.99	3.74	1.49	0.75	0.48	0.67	0.63	
18	0.86	0.76	0.85	0.70	3.25	2.14	4.00	1.68	0.79	0.49	0.70	0.63	
19	0.88	1.10	0.84	0.68	4.44	2.40	2.92	1.00	0.79	0.48	0.80	0.62	
20	0.88	1.06	0.74	0.83	3.42	2.92	1.68	0.81	0.89	0.48	0.68	0.63	
21	0.87	1.50	0.84	0.72	3.34	2.88	2.08	0.78	0.92	0.51	0.69	0.61	
22	0.89	1.61	0.80	0.69	3.24	2.86	2.10	0.76	1.10	0.50	0.68	0.61	
23	0.72	2.06	0.72	0.65	2.83	2.78	1.85	0.67	1.01	0.51	0.68	0.62	
24	0.70	1.84	0.68	0.66	2.01	2.69	2.08	0.68	0.98	0.50	0.66	0.62	
25	0.70	1.53	0.67	0.64	1.98	2.54	1.30	0.64	0.97	0.50	0.67	0.61	
26	0.69	1.12	0.65	0.64	1.98	2.83	1.17	0.61	0.92	0.50	0.66	0.61	
27	0.67	0.76	0.63	0.64	1.94	3.28	1.12	0.59	0.93	0.69	0.66	0.61	
28	0.68	0.86	0.64	0.62	2.00	3.20	1.11	0.59	0.90	0.64	0.65	0.62	
29	0.67	0.89	0.74	0.63	2.07	2.51	1.09	0.60	0.90	0.65		0.61	
30	0.64	1.67	0.81	0.63	3.13	2.53	1.29	0.61	0.88	0.67		0.62	
31		1.84		0.75	3.22		1.32		0.87	0.64		0.63	
Mean	0.81	1.04	0.76	0.73	2.69	3.17	1.97	0.96	0.78	0.80	0.67	0.66	
Max	0.89	2.06	1.34	1.42	5.02	5.17	4.00	2.94	1.10	2.54	0.80	1.03	5.17
Min	0.64	0.64	0.61	0.58	0.95	1.66	1.09	0.59	0.48	0.48	0.63	0.61	0.48

Annual Max Momentary Gage Height 5.23 M (A.D), at 9.00 Hours, on Sep 4, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.67 M (A.D)
Left Bank Elevation 7.01 M (A.D)
Right Bank Elevation 7.67 M (A.D), Drainage Area 4111 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.10	2.20	11.60	4.25	5.75	63.25	34.40	11.30	1.25	5.75	1.90	1.90		
2	4.25	2.40	6.80	2.00	7.40	70.40	30.60	12.05	1.30	5.60	2.00	1.90		
3	4.25	2.20	5.60	1.90	11.90	94.40	28.60	11.15	1.30	5.30	2.10	2.00		
4	4.10	1.90	4.55	1.90	14.15	103.10	26.80	11.15	1.10	5.45	1.80	2.00		
5	4.25	2.00	2.50	1.70	18.00	92.30	23.20	41.80	1.10	4.40	1.90	2.00		
6	4.25	2.00	1.70	1.45	19.80	82.40	23.40	7.70	1.05	3.80	1.90	2.00		
7	4.25	2.10	1.60	1.45	17.60	78.80	23.00	3.80	0.95	3.95	2.00	1.90		
8	4.55	2.40	2.20	1.45	16.25	64.75	27.80	5.90	0.90	15.05	2.00	2.60		
9	4.40	2.20	1.70	1.40	15.95	59.50	22.00	4.85	3.80	27.00	2.00	4.70		
10	4.40	7.85	2.10	6.05	17.80	50.50	18.20	4.55	6.35	33.80	2.10	6.95		
11	4.25	7.70	1.70	12.80	43.50	44.00	11.60	3.65	3.00	10.10	2.50	3.80		
12	4.55	7.55	1.80	10.40	77.00	39.60	10.85	3.20	2.70	1.50	2.40	2.30		
13	4.40	6.65	1.90	4.25	90.80	38.20	10.85	2.90	2.60	1.45	2.50	2.20		
14	4.25	6.05	1.70	4.55	98.60	37.60	17.40	1.80	3.20	1.45	2.20	2.10		
15	4.55	5.45	4.70	2.10	94.40	24.60	41.60	1.70	3.10	1.40	2.30	1.70		
16	4.40	3.00	4.55	2.40	75.20	16.40	28.80	4.85	2.70	1.20	2.30	1.60		
17	4.55	3.10	5.00	2.20	48.00	22.80	61.50	13.85	3.00	0.90	2.20	1.80		
18	4.40	3.10	4.25	2.50	49.25	25.80	68.00	16.70	3.40	0.95	2.50	1.80		
19	4.70	8.00	4.10	2.30	81.20	31.00	41.40	6.50	3.40	0.90	3.50	1.70		
20	4.70	7.40	2.90	3.95	53.50	41.40	16.70	3.65	4.85	0.90	2.30	1.80		
21	4.55	14.00	4.10	2.70	51.50	40.60	24.60	3.30	5.30	1.05	2.40	1.60		
22	4.85	15.65	3.50	2.40	49.00	40.20	25.00	3.10	8.00	1.00	2.30	1.60		
23	2.70	24.20	2.70	2.00	39.60	38.60	20.00	2.20	6.65	1.05	2.30	1.70		
24	2.50	19.80	2.30	2.10	23.20	36.80	24.60	2.30	6.20	1.00	2.10	1.70		
25	2.50	14.45	2.20	1.90	22.60	33.80	11.00	1.90	6.05	1.00	2.20	1.60		
26	2.40	8.30	2.00	1.90	22.60	39.60	9.05	1.60	5.30	1.00	2.10	1.60		
27	2.20	3.10	1.80	1.90	21.80	55.00	8.30	1.45	5.45	2.40	2.10	1.60		
28	2.30	4.40	1.90	1.70	23.00	48.00	8.15	1.45	5.00	1.90	2.00	1.70		
29	2.20	4.85	2.90	1.80	24.40	33.20	7.85	1.50	5.00	2.00		1.60		
30	1.90	16.55	3.65	1.80	46.25	33.60	10.85	1.60	4.70	2.20		1.70		
31		19.80		3.00	48.50		11.30		4.55	1.90		1.80		
Total	115.65	230.35	100.00	94.20	1228.50	1480.20	727.40	193.45	113.25	147.35	61.90	66.95	4559.20	CMSDAY
Mean	3.86	7.43	3.33	3.04	39.63	49.34	23.46	6.45	3.65	4.75	2.21	2.16	12.49	CMS
Max	4.85	24.20	11.60	12.80	98.60	103.10	68.00	41.80	8.00	33.80	3.50	6.95	103.10	CMS
Min	1.90	1.90	1.60	1.40	5.75	16.40	7.85	1.45	0.90	0.90	1.80	1.60	0.90	CMS
Runoff	9.992	19.902	8.640	8.139	106.142	127.889	62.847	16.714	9.785	12.731	5.348	5.784	393.915	MCM

Momentary Peak 104.90 CMS, at 5.23 M (A.D), at 9.00 Hours, on Sep 4, 1994

Runoff Yield 3.04 Liters/Second/Square KM, Momentary Peak Yield 25.52 Liters/Second/Square KM

WATER YEAR 1994

KHLONG KUI BASIN

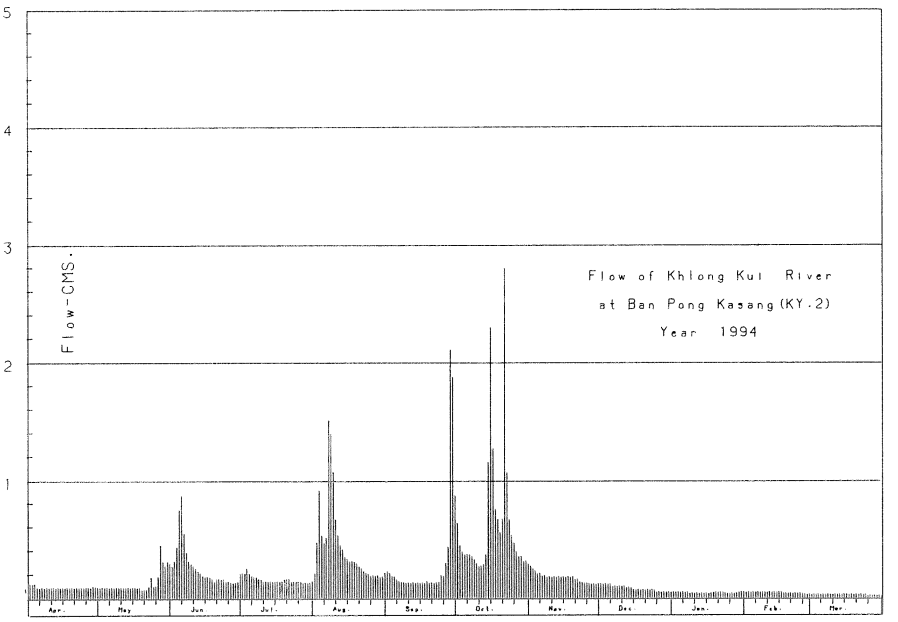
Khlong Kui at Ban Pong Kasang, Prachuap Khiri Khan (Ky.2)

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, Tambon Hat Kham, Amphoe Kui Buri, Prachuap Khiri Khan.
Drainage Area	92 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the measuring line.
Elevation	+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 73 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	0.73	0.84	0.81	0.81	0.82	1.01	0.84	0.75	0.71	0.71	0.69	
2	0.75	0.73	0.86	0.81	0.94	0.81	0.93	0.83	0.75	0.71	0.71	0.69	
3	0.75	0.73	0.92	0.83	1.08	0.80	0.90	0.82	0.75	0.71	0.71	0.69	
4	0.73	0.73	1.04	0.81	0.97	0.79	0.89	0.81	0.75	0.71	0.71	0.69	
5	0.73	0.73	1.07	0.80	0.94	0.78	0.89	0.81	0.75	0.71	0.71	0.69	
6	0.73	0.73	0.98	0.79	0.96	0.77	0.89	0.80	0.74	0.71	0.71	0.69	
7	0.73	0.73	0.90	0.79	1.22	0.77	0.88	0.80	0.74	0.71	0.71	0.69	
8	0.73	0.73	0.86	0.78	1.20	0.76	0.87	0.79	0.74	0.70	0.71	0.69	
9	0.73	0.73	0.85	0.78	1.12	0.76	0.85	0.79	0.74	0.70	0.71	0.69	
10	0.73	0.73	0.84	0.77	1.02	0.76	0.84	0.79	0.74	0.70	0.71	0.69	
11	0.73	0.73	0.83	0.77	0.97	0.76	0.84	0.79	0.74	0.70	0.71	0.69	
12	0.73	0.73	0.82	0.77	0.93	0.76	0.85	0.79	0.73	0.70	0.71	0.69	
13	0.73	0.73	0.81	0.77	0.91	0.76	0.89	0.79	0.73	0.70	0.71	0.69	
14	0.73	0.73	0.80	0.77	0.88	0.76	1.14	0.79	0.73	0.70	0.71	0.69	
15	0.73	0.73	0.79	0.77	0.87	0.76	1.35	0.79	0.72	0.70	0.71	0.69	
16	0.73	0.73	0.79	0.77	0.86	0.76	1.17	0.79	0.72	0.70	0.71	0.69	
17	0.73	0.73	0.79	0.77	0.86	0.76	1.04	0.79	0.72	0.70	0.70	0.69	
18	0.73	0.73	0.78	0.77	0.86	0.77	1.02	0.79	0.72	0.71	0.70	0.69	
19	0.73	0.72	0.77	0.78	0.85	0.76	0.98	0.79	0.72	0.71	0.70	0.69	
20	0.73	0.72	0.78	0.78	0.84	0.76	1.02	0.78	0.72	0.71	0.70	0.69	
21	0.73	0.72	0.78	0.78	0.83	0.76	1.43	0.78	0.72	0.71	0.70	0.69	
22	0.73	0.74	0.78	0.77	0.82	0.76	1.12	0.77	0.72	0.71	0.70	0.69	
23	0.73	0.79	0.78	0.77	0.81	0.77	1.02	0.76	0.72	0.70	0.70	0.69	
24	0.73	0.74	0.77	0.77	0.81	0.80	0.97	0.76	0.72	0.70	0.70	0.69	
25	0.73	0.74	0.77	0.77	0.80	0.80	0.94	0.76	0.71	0.70	0.70	0.68	
26	0.73	0.79	0.76	0.77	0.80	0.85	0.90	0.75	0.71	0.70	0.69	0.68	
27	0.73	0.93	0.76	0.76	0.80	0.92	0.88	0.75	0.71	0.70	0.69	0.68	
28	0.74	0.86	0.76	0.76	0.80	1.32	0.88	0.75	0.71	0.70	0.69	0.68	
29	0.74	0.84	0.77	0.76	0.79	1.28	0.86	0.75	0.71	0.71		0.68	
30	0.73	0.86	0.81	0.76	0.79	1.07	0.86	0.75	0.71	0.71		0.68	
31		0.85		0.77	0.81		0.85		0.71	0.71		0.68	
Mean	0.73	0.76	0.83	0.78	0.90	0.83	0.97	0.79	0.73	0.70	0.70	0.69	
Max	0.75	0.93	1.07	0.83	1.22	1.32	1.43	0.84	0.75	0.71	0.71	0.69	1.43
Min	0.73	0.72	0.76	0.76	0.79	0.76	0.84	0.75	0.71	0.70	0.69	0.68	0.68

Annual Max Momentary Gage Height 1.94 M (A.D), at 24.00 Hours, on Sep 27, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.42 M (A.D)
Left Bank Elevation 5.03 M (A.D)
Right Bank Elevation 8.34 M (A.D), Drainage Area 92 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.10	0.28	0.22	0.22	0.24	0.64	0.28	0.13	0.06	0.06	0.04	
2	0.13	0.10	0.32	0.22	0.48	0.22	0.46	0.26	0.13	0.06	0.06	0.04	
3	0.13	0.10	0.44	0.26	0.92	0.20	0.40	0.24	0.13	0.06	0.06	0.04	
4	0.10	0.10	0.76	0.22	0.54	0.19	0.38	0.22	0.13	0.06	0.06	0.04	
5	0.10	0.10	0.88	0.20	0.48	0.17	0.38	0.22	0.13	0.06	0.06	0.04	
6	0.10	0.10	0.56	0.19	0.52	0.15	0.38	0.20	0.11	0.06	0.06	0.04	
7	0.10	0.10	0.40	0.19	1.52	0.15	0.36	0.20	0.11	0.06	0.06	0.04	
8	0.10	0.10	0.32	0.17	1.40	0.14	0.34	0.19	0.11	0.05	0.06	0.04	
9	0.10	0.10	0.30	0.17	1.08	0.14	0.30	0.19	0.11	0.05	0.06	0.04	
10	0.10	0.10	0.28	0.15	0.68	0.14	0.28	0.19	0.11	0.05	0.06	0.04	
11	0.10	0.10	0.26	0.15	0.54	0.14	0.28	0.19	0.11	0.05	0.06	0.04	
12	0.10	0.10	0.24	0.15	0.46	0.14	0.30	0.19	0.10	0.05	0.06	0.04	
13	0.10	0.10	0.22	0.15	0.42	0.14	0.38	0.19	0.10	0.05	0.06	0.04	
14	0.10	0.10	0.20	0.15	0.36	0.14	1.16	0.19	0.10	0.05	0.06	0.04	
15	0.10	0.10	0.19	0.15	0.34	0.14	2.30	0.19	0.08	0.05	0.06	0.04	
16	0.10	0.10	0.19	0.15	0.32	0.14	1.28	0.19	0.08	0.05	0.06	0.04	
17	0.10	0.10	0.19	0.15	0.32	0.14	0.76	0.19	0.08	0.05	0.05	0.04	
18	0.10	0.10	0.17	0.15	0.32	0.15	0.68	0.19	0.08	0.06	0.05	0.04	
19	0.10	0.08	0.15	0.17	0.30	0.14	0.56	0.19	0.08	0.06	0.05	0.04	
20	0.10	0.08	0.17	0.17	0.28	0.14	0.68	0.17	0.08	0.06	0.05	0.04	
21	0.10	0.08	0.17	0.17	0.26	0.14	2.81	0.17	0.08	0.06	0.05	0.04	
22	0.10	0.11	0.17	0.15	0.24	0.14	1.08	0.15	0.08	0.06	0.05	0.04	
23	0.10	0.19	0.17	0.15	0.22	0.15	0.68	0.14	0.08	0.05	0.05	0.04	
24	0.10	0.11	0.15	0.15	0.22	0.20	0.54	0.14	0.08	0.05	0.05	0.04	
25	0.10	0.11	0.15	0.15	0.20	0.20	0.48	0.14	0.06	0.05	0.05	0.03	
26	0.10	0.19	0.14	0.15	0.20	0.30	0.40	0.13	0.06	0.05	0.04	0.03	
27	0.10	0.46	0.14	0.14	0.20	0.44	0.36	0.13	0.06	0.05	0.04	0.03	
28	0.11	0.32	0.14	0.14	0.20	2.12	0.36	0.13	0.06	0.05	0.04	0.03	
29	0.11	0.28	0.15	0.14	0.19	1.88	0.32	0.13	0.06	0.06		0.03	
30	0.10	0.32	0.22	0.14	0.19	0.88	0.32	0.13	0.06	0.06		0.03	
31		0.30		0.15	0.22		0.30		0.06	0.06		0.03	
Total	3.11	4.43	8.12	5.16	13.84	9.60	19.95	5.46	2.83	1.70	1.53	1.17	76.90 CMSDAY
Mean	0.10	0.14	0.27	0.17	0.45	0.32	0.64	0.18	0.09	0.05	0.05	0.04	0.21 CMS
Max	0.13	0.46	0.88	0.26	1.52	2.12	2.81	0.28	0.13	0.06	0.06	0.04	2.81 CMS
Min	0.10	0.08	0.14	0.14	0.19	0.14	0.28	0.13	0.06	0.05	0.04	0.03	0.03 CMS
Runoff	0.269	0.383	0.702	0.446	1.196	0.829	1.724	0.472	0.245	0.147	0.132	0.101	6.644 MCM

Momentary Peak 7.38 CMS, at 1.94 M (A.D), at 24.00 Hours, on Sep 27, 1994

Runoff Yield 2.29 Liters/Second/Square KM, Momentary Peak Yield 80.22 Liters/Second/Square KM

WATER YEAR 1994

WEST COAST-GULF BASIN

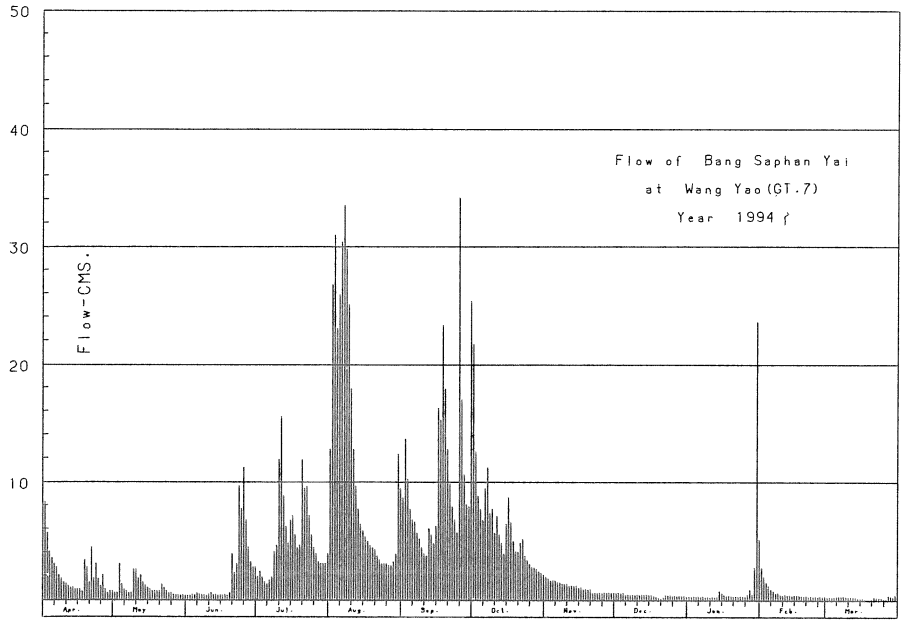
Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)

Location	Lat. 11°-14'-02" N., Long. 99°-26'-35" E., on left bank near the bridge of Phet Kasem Highway at Ban Wang Yao, Tambon Ron Thong, Amphoe Bang Saphan, Prachuap Khiri Khan.
Drainage Area	346 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Dept.
Location	On left bank at the abutment of the bridge.
Elevation	+8.084 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 80 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.86	1.41	1.38	1.50	2.08	1.88	2.45	1.50	1.41	1.37	1.55	1.36	
2	1.72	1.41	1.39	1.53	2.63	2.12	2.07	1.49	1.41	1.37	1.50	1.36	
3	1.63	1.57	1.40	1.50	2.77	1.96	1.89	1.48	1.41	1.37	1.47	1.36	
4	1.60	1.46	1.40	1.47	2.50	1.83	1.83	1.48	1.41	1.37	1.45	1.36	
5	1.57	1.43	1.41	1.46	2.60	1.78	1.78	1.48	1.40	1.37	1.43	1.37	
6	1.55	1.42	1.40	1.48	2.75	1.77	1.92	1.47	1.40	1.37	1.42	1.37	
7	1.51	1.41	1.40	1.50	2.85	1.72	2.01	1.47	1.40	1.37	1.41	1.37	
8	1.49	1.41	1.39	1.63	2.73	1.69	1.81	1.46	1.40	1.36	1.41	1.37	
9	1.47	1.54	1.39	1.66	2.57	1.65	1.83	1.46	1.40	1.36	1.40	1.37	
10	1.46	1.54	1.40	2.04	2.30	1.62	1.72	1.46	1.40	1.36	1.40	1.36	
11	1.45	1.49	1.41	2.20	2.08	1.61	1.80	1.45	1.40	1.36	1.40	1.36	
12	1.44	1.51	1.40	1.89	1.93	1.74	1.71	1.45	1.40	1.36	1.40	1.36	
13	1.44	1.47	1.40	1.75	1.83	1.71	1.67	1.45	1.40	1.36	1.39	1.35	
14	1.43	1.45	1.39	1.67	1.76	1.67	1.62	1.45	1.40	1.42	1.39	1.34	
15	1.43	1.44	1.39	1.78	1.73	1.75	1.76	1.44	1.40	1.41	1.39	1.34	
16	1.43	1.43	1.39	1.80	1.70	2.23	1.88	1.44	1.39	1.39	1.39	1.34	
17	1.42	1.42	1.40	1.71	1.68	2.19	1.77	1.43	1.38	1.38	1.39	1.33	
18	1.59	1.42	1.38	1.65	1.66	2.51	1.68	1.43	1.36	1.38	1.38	1.32	
19	1.55	1.42	1.41	1.66	1.65	2.30	1.63	1.43	1.35	1.38	1.38	1.31	
20	1.47	1.42	1.62	2.04	1.64	2.08	1.63	1.43	1.33	1.37	1.38	1.32	
21	1.65	1.46	1.52	1.92	1.61	1.94	1.67	1.41	1.36	1.37	1.37	1.36	
22	1.49	1.44	1.57	1.93	1.59	1.84	1.69	1.41	1.39	1.37	1.37	1.35	
23	1.57	1.42	1.93	1.80	1.57	1.78	1.61	1.41	1.39	1.37	1.37	1.35	
24	1.49	1.41	1.83	1.71	1.57	1.72	1.59	1.41	1.39	1.37	1.37	1.34	
25	1.45	1.41	2.01	1.65	1.57	2.87	1.57	1.41	1.38	1.37	1.37	1.33	
26	1.51	1.40	1.78	1.62	1.56	2.26	1.55	1.41	1.38	1.40	1.37	1.32	
27	1.43	1.40	1.65	1.58	1.56	1.98	1.55	1.41	1.38	1.43	1.37	1.39	
28	1.41	1.39	1.58	1.57	1.58	1.85	1.54	1.41	1.38	1.40	1.37	1.37	
29	1.42	1.39	1.55	1.57	1.62	1.84	1.53	1.41	1.38	1.55		1.36	
30	1.42	1.39	1.55	1.57	2.06	2.58	1.52	1.41	1.38	2.52		1.39	
31		1.39		1.62	1.92		1.51		1.37	1.69		1.38	
Mean	1.51	1.44	1.50	1.69	1.99	1.95	1.74	1.44	1.39	1.43	1.40	1.35	
Max	1.86	1.57	2.01	2.20	2.85	2.87	2.45	1.50	1.41	2.52	1.55	1.39	2.87
Min	1.41	1.39	1.38	1.46	1.56	1.61	1.51	1.41	1.33	1.36	1.37	1.31	1.31

Annual Max Momentary Gage Height 3.23 M (A.D), at 7.00 Hours, on Jan 7, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.39 M (A.D)
Left Bank Elevation 8.68 M (A.D)
Right Bank Elevation 8.68 M (A.D), Drainage Area 346 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.34	0.65	0.40	2.00	12.86	8.72	21.80	2.00	0.65	0.35	2.80	0.30	
2	5.76	0.65	0.45	2.48	26.87	13.76	12.64	1.85	0.65	0.35	2.00	0.30	
3	4.14	3.12	0.50	2.00	31.07	10.30	8.91	1.70	0.65	0.35	1.55	0.30	
4	3.60	1.40	0.50	1.55	23.10	7.77	7.77	1.70	0.65	0.35	1.25	0.30	
5	3.12	0.95	0.65	1.40	26.00	6.84	6.84	1.70	0.50	0.35	0.95	0.35	
6	2.80	0.80	0.50	1.70	30.45	6.66	9.50	1.55	0.50	0.35	0.80	0.35	
7	2.16	0.65	0.50	2.00	33.60	5.76	11.32	1.55	0.50	0.35	0.65	0.35	
8	1.85	0.65	0.45	4.14	29.83	5.22	7.39	1.40	0.50	0.30	0.65	0.35	
9	1.55	2.64	0.45	4.68	25.13	4.50	7.77	1.40	0.50	0.30	0.50	0.35	
10	1.40	2.64	0.50	11.98	18.00	3.96	5.76	1.40	0.50	0.30	0.50	0.30	
11	1.25	1.85	0.65	15.60	12.86	3.78	7.20	1.25	0.50	0.30	0.50	0.30	
12	1.10	2.16	0.50	8.91	9.70	6.12	5.58	1.25	0.50	0.30	0.50	0.30	
13	1.10	1.55	0.50	6.30	7.77	5.58	4.86	1.25	0.50	0.30	0.45	0.25	
14	0.95	1.25	0.45	4.86	6.48	4.86	3.96	1.25	0.50	0.80	0.45	0.20	
15	0.95	1.10	0.45	6.84	5.94	6.30	6.48	1.10	0.50	0.65	0.45	0.20	
16	0.95	0.95	0.45	7.20	5.40	16.32	8.72	1.10	0.45	0.45	0.45	0.20	
17	0.80	0.80	0.50	5.58	5.04	15.37	6.66	0.95	0.40	0.40	0.45	0.15	
18	3.44	0.80	0.40	4.50	4.68	23.39	5.04	0.95	0.30	0.40	0.40	0.10	
19	2.80	0.80	0.65	4.68	4.50	18.00	4.14	0.95	0.25	0.40	0.40	0.05	
20	1.55	0.80	3.96	11.98	4.32	12.86	4.14	0.95	0.15	0.35	0.40	0.10	
21	4.50	1.40	2.32	9.50	3.78	9.90	4.86	0.65	0.30	0.35	0.35	0.30	
22	1.85	1.10	3.12	9.70	3.44	7.96	5.22	0.65	0.45	0.35	0.35	0.25	
23	3.12	0.80	9.70	7.20	3.12	6.84	3.78	0.65	0.45	0.35	0.35	0.25	
24	1.85	0.65	7.77	5.58	3.12	5.76	3.44	0.65	0.45	0.35	0.35	0.20	
25	1.25	0.65	11.32	4.50	3.12	34.24	3.12	0.65	0.40	0.35	0.35	0.15	
26	2.16	0.50	6.84	3.96	2.96	17.04	2.80	0.65	0.40	0.50	0.35	0.10	
27	0.95	0.50	4.50	3.28	2.96	10.70	2.80	0.65	0.40	0.95	0.35	0.45	
28	0.65	0.45	3.28	3.12	3.28	8.15	2.64	0.65	0.40	0.50	0.35	0.35	
29	0.80	0.45	2.80	3.12	3.96	7.96	2.48	0.65	0.40	2.80		0.30	
30	0.80	0.45	2.80	3.12	12.42	25.42	2.32	0.65	0.40	23.68		0.45	
31		0.45		3.96	9.50		2.16		0.35	5.22		0.40	
Total	67.54	33.61	67.86	167.42	375.26	320.04	192.10	33.75	14.05	43.10	18.90	8.30	1341.93 CMSDAY
Mean	2.25	1.08	2.26	5.40	12.11	10.67	6.20	1.13	0.45	1.39	0.68	0.27	3.68 CMS
Max	8.34	3.12	11.32	15.60	33.60	34.24	21.80	2.00	0.65	23.68	2.80	0.45	34.24 CMS
Min	0.65	0.45	0.40	1.40	2.96	3.78	2.16	0.65	0.15	0.30	0.35	0.05	0.05 CMS
Runoff	5.835	2.904	5.863	14.465	32.422	27.651	16.597	2.916	1.214	3.724	1.633	0.717	115.943 MCM

Momentary Peak 46.55 CMS, at 3.23 M (A.D), at 7.00 Hours, on Jan 7, 1994

Runoff Yield 10.63 Liters/Second/Square KM, Momentary Peak Yield 134.54 Liters/Second/Square KM

WATER YEAR 1994

WEST COAST-GULF BASIN

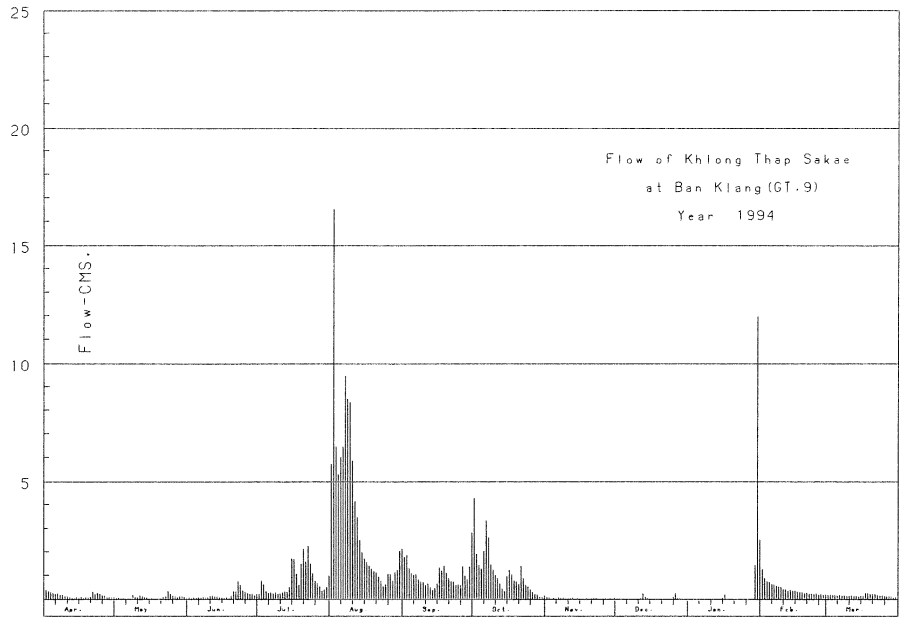
Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan (Gt.9)

Location	Lat. 11°29′39″ N., Long. 99°36′21″ E., on right bank at Ban Klang, Tambon Thap Sakae, Amphoe Thap Sakae, Prachuap Khiri Khan.
Drainage Area	120 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Dept.
Location	On right bank at the abutment of the bridge.
Elevation	+5.141 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 good. Stage-discharge relation defined by 86 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	-0.03	-0.03	0.06	1.12	0.50	0.92	0.01	-0.04	-0.09	0.40	0.05	
2	0.12	-0.03	-0.03	0.27	2.01	0.52	0.53	-0.02	-0.05	-0.09	0.30	0.05	
3	0.10	-0.04	-0.03	0.21	1.21	0.41	0.43	-0.04	-0.06	-0.09	0.26	0.05	
4	0.09	-0.06	-0.02	0.12	1.06	0.35	0.40	-0.04	-0.06	-0.09	0.24	0.04	
5	0.07	-0.07	-0.02	0.09	1.16	0.34	0.55	-0.04	-0.07	-0.09	0.22	0.04	
6	0.07	-0.06	-0.02	0.09	1.21	0.34	0.78	-0.01	-0.06	-0.09	0.21	0.04	
7	0.05	-0.07	-0.01	0.08	1.51	0.29	0.66	-0.02	-0.07	-0.10	0.20	0.04	
8	0.04	0.05	-0.02	0.09	1.42	0.25	0.44	-0.02	-0.07	-0.11	0.18	0.03	
9	0.02	-0.02	-0.03	0.07	1.41	0.25	0.39	-0.04	-0.04	-0.09	0.18	0.03	
10	0.01	-0.02	0.03	0.07	1.14	0.20	0.34	-0.03	-0.07	-0.09	0.15	0.03	
11	-0.01	0.04	0.03	0.10	0.90	0.23	0.30	-0.02	-0.05	-0.09	0.14	0.03	
12	-0.02	0.02	0.02	0.11	0.80	0.17	0.23	-0.03	0.08	-0.10	0.13	0.03	
13	-0.03	-0.02	0.01	0.11	0.64	0.14	0.15	-0.04	0.01	-0.10	0.13	0.02	
14	-0.01	-0.03	-0.01	0.17	0.54	0.16	0.12	-0.05	-0.05	-0.04	0.13	0.02	
15	-0.01	-0.05	-0.02	0.49	0.49	0.23	0.32	-0.05	-0.05	-0.04	0.12	0.02	
16	0.00	-0.06	-0.03	0.48	0.46	0.41	0.39	-0.06	-0.06	0.06	0.11	0.02	
17	-0.02	-0.07	-0.03	0.35	0.43	0.38	0.34	-0.06	-0.07	-0.02	0.11	0.09	
18	-0.02	-0.06	-0.04	0.21	0.40	0.43	0.27	-0.05	-0.07	-0.07	0.10	0.08	
19	-0.01	-0.06	0.03	0.44	0.38	0.36	0.25	-0.04	-0.08	-0.09	0.09	0.07	
20	0.00	-0.07	0.12	0.57	0.36	0.30	0.22	-0.04	-0.08	-0.09	0.09	0.06	
21	0.11	-0.02	0.11	0.46	0.32	0.26	0.43	-0.02	-0.08	-0.10	0.08	0.07	
22	0.06	0.02	0.26	0.60	0.26	0.25	0.30	-0.04	-0.08	-0.10	0.07	0.04	
23	0.09	0.12	0.20	0.45	0.19	0.21	0.21	-0.04	-0.08	-0.10	0.07	0.04	
24	0.06	0.06	0.13	0.35	0.21	0.21	0.18	-0.06	-0.09	-0.10	0.07	0.03	
25	0.04	0.04	0.10	0.27	0.35	0.21	0.15	-0.05	0.01	-0.10	0.06	0.03	
26	0.02	0.02	0.09	0.23	0.34	0.42	0.10	-0.06	0.11	-0.10	0.06	0.01	
27	-0.01	-0.01	0.07	0.19	0.27	0.33	0.07	-0.05	-0.02	-0.11	0.05	0.02	
28	-0.02	0.01	0.06	0.12	0.36	0.28	0.05	-0.04	-0.06	-0.11	0.05	0.01	
29	-0.01	0.02	0.04	0.14	0.39	0.42	0.01	-0.04	-0.07	0.43		-0.02	
30	-0.01	-0.01	0.06	0.18	0.55	0.69	-0.01	-0.04	-0.08	1.71		-0.01	
31		-0.03		0.33	0.57		0.03		-0.09	0.64		0.10	
Mean	0.03	-0.02	0.03	0.24	0.72	0.32	0.31	-0.04	-0.05	0.01	0.14	0.04	
Max	0.13	0.12	0.26	0.60	2.01	0.69	0.92	0.01	0.11	1.71	0.40	0.10	2.01
Min	-0.03	-0.07	-0.04	0.06	0.19	0.14	-0.01	-0.06	-0.09	-0.11	0.05	-0.02	-0.11

Annual Max Momentary Gage Height 2.31 M (A.D), at 6.00 Hours, on Aug 2, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.32 M (A.D)
Left Bank Elevation 4.09 M (A.D)
Right Bank Elevation 4.02 M (A.D), Drainage Area 120 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.39	0.07	0.07	0.22	5.76	1.80	4.34	0.12	0.06	0.01	1.30	0.20	
2	0.36	0.07	0.07	0.81	16.57	1.90	1.95	0.08	0.05	0.01	0.90	0.20	
3	0.30	0.06	0.07	0.63	6.49	1.35	1.45	0.06	0.04	0.01	0.78	0.20	
4	0.28	0.04	0.08	0.36	5.32	1.10	1.30	0.06	0.04	0.01	0.72	0.18	
5	0.24	0.03	0.08	0.28	6.08	1.06	2.05	0.06	0.03	0.01	0.66	0.18	
6	0.24	0.04	0.08	0.28	6.49	1.06	3.38	0.09	0.04	0.01	0.63	0.18	
7	0.20	0.03	0.09	0.26	9.52	0.87	2.66	0.08	0.03	0.00	0.60	0.18	
8	0.18	0.20	0.08	0.28	8.52	0.75	1.50	0.08	0.03	0.00	0.54	0.16	
9	0.14	0.08	0.07	0.24	8.41	0.75	1.26	0.06	0.06	0.01	0.54	0.16	
10	0.12	0.08	0.16	0.24	5.92	0.60	1.06	0.07	0.03	0.01	0.45	0.16	
11	0.09	0.18	0.16	0.30	4.20	0.69	0.90	0.08	0.05	0.01	0.42	0.16	
12	0.08	0.14	0.14	0.33	3.50	0.51	0.69	0.07	0.26	0.00	0.39	0.16	
13	0.07	0.08	0.12	0.33	2.54	0.42	0.45	0.06	0.12	0.00	0.39	0.14	
14	0.09	0.07	0.09	0.51	2.00	0.48	0.36	0.05	0.05	0.06	0.39	0.14	
15	0.09	0.05	0.08	1.75	1.75	0.69	0.98	0.05	0.05	0.06	0.36	0.14	
16	0.10	0.04	0.07	1.70	1.60	1.35	1.26	0.04	0.04	0.22	0.33	0.14	
17	0.08	0.03	0.07	1.10	1.45	1.22	1.06	0.04	0.03	0.08	0.33	0.28	
18	0.08	0.04	0.06	0.63	1.30	1.45	0.81	0.05	0.03	0.03	0.30	0.26	
19	0.09	0.04	0.16	1.50	1.22	1.14	0.75	0.06	0.02	0.01	0.28	0.24	
20	0.10	0.03	0.36	2.15	1.14	0.90	0.66	0.06	0.02	0.01	0.28	0.22	
21	0.33	0.08	0.33	1.60	0.98	0.78	1.45	0.08	0.02	0.00	0.26	0.24	
22	0.22	0.14	0.78	2.30	0.78	0.75	0.90	0.06	0.02	0.00	0.24	0.18	
23	0.28	0.36	0.60	1.55	0.57	0.63	0.63	0.06	0.02	0.00	0.24	0.18	
24	0.22	0.22	0.39	1.10	0.63	0.63	0.54	0.04	0.01	0.00	0.24	0.16	
25	0.18	0.18	0.30	0.81	1.10	0.63	0.45	0.05	0.12	0.00	0.22	0.16	
26	0.14	0.14	0.28	0.69	1.06	1.40	0.30	0.04	0.33	0.00	0.22	0.12	
27	0.09	0.09	0.24	0.57	0.81	1.02	0.24	0.05	0.08	0.00	0.20	0.14	
28	0.08	0.12	0.22	0.36	1.14	0.84	0.20	0.06	0.04	0.00	0.20	0.12	
29	0.09	0.14	0.18	0.42	1.26	1.40	0.12	0.06	0.03	1.45		0.08	
30	0.09	0.09	0.22	0.54	2.05	2.84	0.09	0.06	0.02	12.04		0.09	
31		0.07		1.02	2.15		0.16		0.01	2.54		0.30	
Total	5.04	3.03	5.70	24.86	112.31	31.01	33.95	1.88	1.78	16.59	12.41	5.45	254.01 CMSDAY
Mean	0.17	0.10	0.19	0.80	3.62	1.03	1.10	0.06	0.06	0.54	0.44	0.18	0.70 CMS
Max	0.39	0.36	0.78	2.30	16.57	2.84	4.34	0.12	0.33	12.04	1.30	0.30	16.57 CMS
Min	0.07	0.03	0.06	0.22	0.57	0.42	0.09	0.04	0.01	0.00	0.20	0.08	0.00 CMS
Runoff	0.435	0.262	0.492	2.148	9.704	2.679	2.933	0.162	0.154	1.433	1.072	0.471	21.946 MCM

Momentary Peak 22.21 CMS, at 2.31 M (A.D), at 6.00 Hours, on Aug 2, 1994
Runoff Yield 5.80 Liters/Second/Square KM, Momentary Peak Yield 185.08 Liters/Second/Square KM

WATER YEAR 1994

WEST COAST-GULF BASIN

Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan (Gt.10)

Location — Lat. 11°-24'-08" N., Long. 99°-31'-20" E., on left bank at the bridge of Phet Kasem Highway near the guidepost 379, Ban Nong Ya Plong, Tambon Chai Kasem, Amphoe Bang Saphan, Prachuap Khiri Khan.

Drainage Area — 112 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On left bank at the abutment of the bridge.

Elevation — +5.285 m.(A.D.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1979 to date.

Rating Operation

Period of Rating — 1980 to date.

Rated by Float — -

Rated by Current Meter — 1980 to date.

Stability of Channel Regimes — Stable.

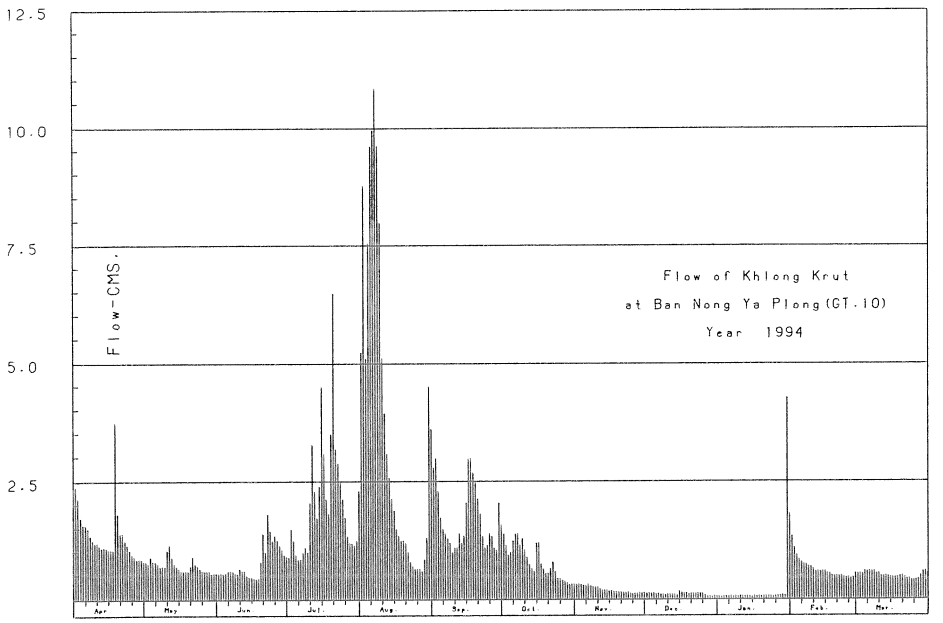
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 86 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.29	-0.54	-0.59	-0.52	-0.03	-0.25	-0.42	-0.66	-0.77	-0.84	-0.43	-0.59	
2	-0.32	-0.55	-0.59	-0.40	0.21	-0.23	-0.47	-0.66	-0.77	-0.84	-0.48	-0.59	
3	-0.37	-0.52	-0.59	-0.45	-0.04	-0.30	-0.51	-0.66	-0.77	-0.84	-0.51	-0.59	
4	-0.39	-0.54	-0.59	-0.51	0.13	-0.37	-0.50	-0.67	-0.77	-0.83	-0.53	-0.58	
5	-0.39	-0.54	-0.58	-0.53	0.26	-0.40	-0.45	-0.67	-0.78	-0.83	-0.54	-0.58	
6	-0.40	-0.55	-0.58	-0.53	0.28	-0.42	-0.42	-0.66	-0.78	-0.83	-0.55	-0.58	
7	-0.43	-0.56	-0.58	-0.50	0.33	-0.44	-0.42	-0.67	-0.79	-0.83	-0.55	-0.58	
8	-0.45	-0.56	-0.59	-0.48	0.26	-0.46	-0.47	-0.68	-0.79	-0.83	-0.56	-0.58	
9	-0.46	-0.56	-0.59	-0.50	0.16	-0.50	-0.44	-0.68	-0.80	-0.83	-0.56	-0.59	
10	-0.46	-0.49	-0.57	-0.33	-0.04	-0.48	-0.49	-0.68	-0.79	-0.83	-0.57	-0.59	
11	-0.47	-0.47	-0.58	-0.20	-0.14	-0.48	-0.52	-0.69	-0.78	-0.83	-0.58	-0.60	
12	-0.48	-0.52	-0.58	-0.30	-0.22	-0.42	-0.55	-0.71	-0.79	-0.83	-0.58	-0.60	
13	-0.48	-0.55	-0.60	-0.37	-0.27	-0.46	-0.57	-0.70	-0.80	-0.83	-0.58	-0.60	
14	-0.48	-0.56	-0.61	-0.29	-0.32	-0.43	-0.58	-0.71	-0.81	-0.83	-0.58	-0.60	
15	-0.49	-0.57	-0.61	-0.09	-0.35	-0.33	-0.46	-0.72	-0.73	-0.84	-0.58	-0.61	
16	-0.49	-0.58	-0.62	-0.22	-0.40	-0.23	-0.46	-0.72	-0.75	-0.83	-0.59	-0.61	
17	-0.49	-0.58	-0.62	-0.32	-0.43	-0.23	-0.55	-0.73	-0.76	-0.83	-0.59	-0.61	
18	-0.16	-0.58	-0.62	-0.36	-0.45	-0.26	-0.57	-0.74	-0.77	-0.83	-0.60	-0.61	
19	-0.36	-0.58	-0.54	-0.18	-0.45	-0.28	-0.59	-0.74	-0.78	-0.83	-0.60	-0.60	
20	-0.42	-0.56	-0.42	0.06	-0.46	-0.32	-0.59	-0.75	-0.78	-0.83	-0.60	-0.60	
21	-0.42	-0.52	-0.50	-0.21	-0.50	-0.36	-0.57	-0.75	-0.77	-0.83	-0.60	-0.61	
22	-0.45	-0.55	-0.36	-0.24	-0.54	-0.43	-0.54	-0.75	-0.77	-0.82	-0.60	-0.62	
23	-0.47	-0.56	-0.41	-0.28	-0.56	-0.48	-0.58	-0.75	-0.77	-0.83	-0.61	-0.62	
24	-0.49	-0.57	-0.45	-0.32	-0.57	-0.47	-0.62	-0.77	-0.77	-0.83	-0.61	-0.63	
25	-0.51	-0.58	-0.43	-0.37	-0.57	-0.42	-0.62	-0.79	-0.78	-0.83	-0.61	-0.63	
26	-0.52	-0.58	-0.45	-0.43	-0.57	-0.43	-0.63	-0.78	-0.82	-0.81	-0.62	-0.63	
27	-0.53	-0.58	-0.47	-0.46	-0.58	-0.48	-0.64	-0.77	-0.83	-0.81	-0.61	-0.62	
28	-0.53	-0.58	-0.49	-0.46	-0.53	-0.49	-0.65	-0.76	-0.84	-0.81	-0.59	-0.60	
29	-0.53	-0.59	-0.51	-0.47	-0.44	-0.33	-0.66	-0.76	-0.84	-0.81		-0.58	
30	-0.54	-0.59	-0.52	-0.45	-0.09	-0.39	-0.66	-0.76	-0.83	-0.11		-0.58	
31		-0.59		-0.30	-0.17		-0.66		-0.83	-0.36		-0.59	
Mean	-0.44	-0.56	-0.54	-0.36	-0.23	-0.39	-0.54	-0.72	-0.79	-0.79	-0.57	-0.60	
Max	-0.16	-0.47	-0.36	0.06	0.33	-0.23	-0.42	-0.66	-0.73	-0.11	-0.43	-0.58	0.33
Min	-0.54	-0.59	-0.62	-0.53	-0.58	-0.50	-0.66	-0.79	-0.84	-0.84	-0.62	-0.63	-0.84

Annual Max Momentary Gage Height 0.35 M (A.D), at 7.00 Hours, on Aug 7, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.90 M (A.D)
Left Bank Elevation 4.20 M (A.D)
Right Bank Elevation 4.18 M (A.D), Drainage Area 112 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.40	0.80	0.55	0.90	5.24	2.80	1.40	0.32	0.13	0.06	1.35	0.55	
2	2.14	0.75	0.55	1.50	8.77	3.00	1.15	0.32	0.13	0.06	1.10	0.55	
3	1.74	0.90	0.55	1.25	5.12	2.30	0.95	0.32	0.13	0.06	0.95	0.55	
4	1.58	0.80	0.55	0.95	7.55	1.74	1.00	0.29	0.13	0.07	0.85	0.60	
5	1.58	0.80	0.60	0.85	9.62	1.50	1.25	0.29	0.12	0.07	0.80	0.60	
6	1.50	0.75	0.60	0.85	9.96	1.40	1.40	0.32	0.12	0.07	0.75	0.60	
7	1.35	0.70	0.60	1.00	10.84	1.30	1.40	0.29	0.11	0.07	0.75	0.60	
8	1.25	0.70	0.55	1.10	9.62	1.20	1.15	0.26	0.11	0.07	0.70	0.60	
9	1.20	0.70	0.55	1.00	8.00	1.00	1.30	0.26	0.10	0.07	0.70	0.55	
10	1.20	1.05	0.65	2.06	5.12	1.10	1.05	0.26	0.11	0.07	0.65	0.55	
11	1.15	1.15	0.60	3.30	3.96	1.10	0.90	0.23	0.12	0.07	0.60	0.50	
12	1.10	0.90	0.60	2.30	3.10	1.40	0.75	0.19	0.11	0.07	0.60	0.50	
13	1.10	0.75	0.50	1.74	2.60	1.20	0.65	0.20	0.10	0.07	0.60	0.50	
14	1.10	0.70	0.47	2.40	2.14	1.35	0.60	0.19	0.09	0.07	0.60	0.50	
15	1.05	0.65	0.47	4.52	1.90	2.06	1.20	0.18	0.17	0.06	0.60	0.47	
16	1.05	0.60	0.44	3.10	1.50	3.00	1.20	0.18	0.15	0.07	0.55	0.47	
17	1.05	0.60	0.44	2.14	1.35	3.00	0.75	0.17	0.14	0.07	0.55	0.47	
18	3.74	0.60	0.44	1.82	1.25	2.70	0.65	0.16	0.13	0.07	0.50	0.47	
19	1.82	0.60	0.80	3.52	1.25	2.50	0.55	0.16	0.12	0.07	0.50	0.50	
20	1.40	0.70	1.40	6.50	1.20	2.14	0.55	0.15	0.12	0.07	0.50	0.50	
21	1.40	0.90	1.00	3.20	1.00	1.82	0.65	0.15	0.13	0.07	0.50	0.47	
22	1.25	0.75	1.82	2.90	0.80	1.35	0.80	0.15	0.13	0.08	0.50	0.44	
23	1.15	0.70	1.45	2.50	0.70	1.10	0.60	0.15	0.13	0.07	0.47	0.44	
24	1.05	0.65	1.25	2.14	0.65	1.15	0.44	0.13	0.13	0.07	0.47	0.41	
25	0.95	0.60	1.35	1.74	0.65	1.40	0.44	0.11	0.12	0.07	0.47	0.41	
26	0.90	0.60	1.25	1.35	0.65	1.35	0.41	0.12	0.08	0.09	0.44	0.41	
27	0.85	0.60	1.15	1.20	0.60	1.10	0.38	0.13	0.07	0.09	0.47	0.44	
28	0.85	0.60	1.05	1.20	0.85	1.05	0.35	0.14	0.06	0.09	0.55	0.50	
29	0.85	0.55	0.95	1.15	1.30	2.06	0.32	0.14	0.06	0.09		0.60	
30	0.80	0.55	0.90	1.25	4.52	1.58	0.32	0.14	0.07	4.29		0.60	
31		0.55		2.30	3.63		0.32		0.07	1.82		0.55	
Total	40.55	22.25	24.08	63.73	115.44	51.75	24.88	6.10	3.49	8.19	18.07	15.90	394.43 CMSDAY
Mean	1.35	0.72	0.80	2.06	3.72	1.73	0.80	0.20	0.11	0.26	0.65	0.51	1.08 CMS
Max	3.74	1.15	1.82	6.50	10.84	3.00	1.40	0.32	0.17	4.29	1.35	0.60	10.84 CMS
Min	0.80	0.55	0.44	0.85	0.60	1.00	0.32	0.11	0.06	0.06	0.44	0.41	0.06 CMS
Runoff	3.504	1.922	2.081	5.506	9.974	4.471	2.150	0.527	0.302	0.708	1.561	1.374	34.079 MCM

Momentary Peak 11.20 CMS, at 0.35 M (A.D), at 7.00 Hours, on Aug 7, 1994
Runoff Yield 9.65 Liters/Second/Square KM, Momentary Peak Yield 100.00 Liters/Second/Square KM

WATER YEAR 1994

WEST COAST-GULF BASIN

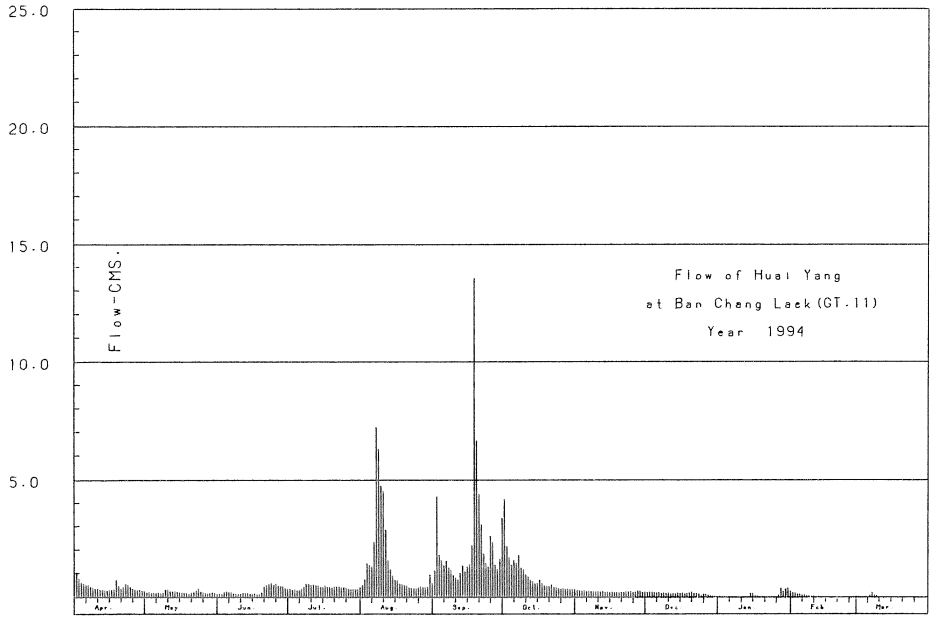
Huai Yang at Ban Chang Laek, Prachuap Khiri Khan (Gt.11)

Location	Lat. 11°03′44″ N., Long. 99°22′31″ E., on right bank at the bridge of Phet Kasem Highway near the guidepost 423, Ban Chang Laek, Tambon Pak Phaek, Amphoe Bang Saphan Noi, Prachuap Khiri Khan.
Drainage Area	58 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Dept.
Location	On left bank at the abutment of the bridge.
Elevation	+9.318 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 116 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.82	0.51	0.48	0.58	0.67	0.84	1.24	0.56	0.52	0.43	0.51	0.40	
2	0.75	0.52	0.48	0.57	0.74	1.25	1.03	0.55	0.52	0.44	0.50	0.39	
3	0.71	0.50	0.51	0.57	0.91	0.97	0.95	0.55	0.52	0.43	0.48	0.39	
4	0.69	0.50	0.53	0.56	0.89	0.93	0.90	0.55	0.51	0.43	0.47	0.39	
5	0.67	0.50	0.52	0.56	0.88	0.89	0.93	0.54	0.51	0.43	0.46	0.38	
6	0.66	0.50	0.51	0.58	1.05	0.93	0.91	0.54	0.51	0.42	0.46	0.45	
7	0.63	0.49	0.49	0.63	1.44	0.87	0.97	0.54	0.50	0.42	0.45	0.51	
8	0.60	0.50	0.48	0.69	1.39	0.84	0.87	0.53	0.50	0.41	0.44	0.46	
9	0.59	0.57	0.48	0.69	1.29	0.79	0.85	0.53	0.50	0.41	0.44	0.44	
10	0.58	0.57	0.48	0.66	1.27	0.76	0.80	0.53	0.50	0.40	0.44	0.42	
11	0.57	0.54	0.50	0.67	1.12	0.74	0.77	0.53	0.49	0.40	0.43	0.41	
12	0.56	0.53	0.50	0.67	0.93	0.81	0.74	0.53	0.49	0.42	0.43	0.40	
13	0.55	0.53	0.49	0.65	0.85	0.89	0.72	0.52	0.49	0.41	0.43	0.40	
14	0.55	0.52	0.49	0.63	0.78	0.83	0.70	0.52	0.50	0.50	0.43	0.40	
15	0.56	0.51	0.48	0.63	0.74	0.88	0.70	0.52	0.50	0.49	0.42	0.39	
16	0.56	0.50	0.48	0.65	0.73	0.90	0.74	0.52	0.50	0.45	0.42	0.39	
17	0.57	0.50	0.47	0.63	0.70	1.03	0.70	0.52	0.49	0.44	0.42	0.38	
18	0.74	0.49	0.47	0.62	0.68	1.71	0.66	0.51	0.49	0.44	0.42	0.38	
19	0.65	0.48	0.51	0.61	0.67	1.41	0.64	0.51	0.51	0.43	0.41	0.38	
20	0.59	0.50	0.64	0.63	0.65	1.26	0.64	0.51	0.52	0.42	0.41	0.38	
21	0.62	0.52	0.66	0.63	0.62	1.14	0.67	0.52	0.50	0.42	0.41	0.38	
22	0.69	0.55	0.69	0.64	0.60	0.98	0.63	0.53	0.49	0.41	0.41	0.37	
23	0.67	0.59	0.70	0.61	0.60	0.91	0.61	0.53	0.49	0.43	0.41	0.37	
24	0.63	0.53	0.67	0.62	0.59	0.88	0.60	0.53	0.48	0.42	0.40	0.37	
25	0.58	0.50	0.69	0.60	0.62	1.09	0.59	0.52	0.48	0.42	0.40	0.37	
26	0.57	0.49	0.66	0.59	0.63	1.05	0.59	0.52	0.47	0.46	0.40	0.37	
27	0.56	0.49	0.65	0.58	0.62	0.90	0.59	0.55	0.46	0.61	0.40	0.37	
28	0.56	0.49	0.63	0.57	0.61	0.85	0.58	0.54	0.44	0.53	0.40	0.37	
29	0.55	0.51	0.60	0.58	0.63	0.94	0.58	0.52	0.44	0.59		0.37	
30	0.53	0.49	0.58	0.57	0.79	1.17	0.58	0.52	0.43	0.60		0.37	
31		0.48		0.61	0.70		0.57		0.43	0.54		0.37	
Mean	0.62	0.51	0.55	0.62	0.82	0.98	0.74	0.53	0.49	0.45	0.43	0.39	
Max	0.82	0.59	0.70	0.69	1.44	1.71	1.24	0.56	0.52	0.61	0.51	0.51	1.71
Min	0.53	0.48	0.47	0.56	0.59	0.74	0.57	0.51	0.43	0.40	0.40	0.37	0.37

Annual Max Momentary Gage Height 1.75 M (A.D), at 6.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.18 M (A.D)
Left Bank Elevation 8.47 M (A.D)
Right Bank Elevation 8.29 M (A.D), Drainage Area 58 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.08	0.22	0.16	0.36	0.54	1.16	4.18	0.32	0.24	0.06	0.22	0.00	
2	0.80	0.24	0.16	0.34	0.76	4.30	2.21	0.30	0.24	0.08	0.20	0.00	
3	0.64	0.20	0.22	0.34	1.46	1.82	1.70	0.30	0.24	0.06	0.16	0.00	
4	0.58	0.20	0.26	0.32	1.36	1.58	1.40	0.30	0.22	0.06	0.14	0.00	
5	0.54	0.20	0.24	0.32	1.32	1.36	1.58	0.28	0.22	0.06	0.12	0.00	
6	0.52	0.20	0.22	0.36	2.35	1.58	1.46	0.28	0.22	0.04	0.12	0.10	
7	0.46	0.18	0.18	0.46	7.26	1.28	1.82	0.28	0.20	0.04	0.10	0.22	
8	0.40	0.20	0.16	0.58	6.34	1.16	1.28	0.26	0.20	0.02	0.08	0.12	
9	0.38	0.34	0.16	0.58	4.78	0.96	1.20	0.26	0.20	0.02	0.08	0.08	
10	0.36	0.34	0.16	0.52	4.54	0.84	1.00	0.26	0.20	0.00	0.08	0.04	
11	0.34	0.28	0.20	0.54	2.90	0.76	0.88	0.26	0.18	0.00	0.06	0.02	
12	0.32	0.26	0.20	0.54	1.58	1.04	0.76	0.26	0.18	0.04	0.06	0.00	
13	0.30	0.26	0.18	0.50	1.20	1.36	0.68	0.24	0.18	0.02	0.06	0.00	
14	0.30	0.24	0.18	0.46	0.92	1.12	0.60	0.24	0.20	0.20	0.06	0.00	
15	0.32	0.22	0.16	0.46	0.76	1.32	0.60	0.24	0.20	0.18	0.04	0.00	
16	0.32	0.20	0.16	0.50	0.72	1.40	0.76	0.24	0.20	0.10	0.04	0.00	
17	0.34	0.20	0.14	0.46	0.60	2.21	0.60	0.24	0.18	0.08	0.04	0.00	
18	0.76	0.18	0.14	0.44	0.56	13.59	0.52	0.22	0.18	0.08	0.04	0.00	
19	0.50	0.16	0.22	0.42	0.54	6.69	0.48	0.22	0.22	0.06	0.02	0.00	
20	0.38	0.20	0.48	0.46	0.50	4.42	0.48	0.22	0.24	0.04	0.02	0.00	
21	0.44	0.24	0.52	0.46	0.44	3.10	0.54	0.24	0.20	0.04	0.02	0.00	
22	0.58	0.30	0.58	0.48	0.40	1.88	0.46	0.26	0.18	0.02	0.02	0.00	
23	0.54	0.38	0.60	0.42	0.40	1.46	0.42	0.26	0.18	0.06	0.02	0.00	
24	0.46	0.26	0.54	0.44	0.38	1.32	0.40	0.26	0.16	0.04	0.00	0.00	
25	0.36	0.20	0.58	0.40	0.44	2.63	0.38	0.24	0.16	0.04	0.00	0.00	
26	0.34	0.18	0.52	0.38	0.46	2.35	0.38	0.24	0.14	0.12	0.00	0.00	
27	0.32	0.18	0.50	0.36	0.44	1.40	0.38	0.30	0.12	0.42	0.00	0.00	
28	0.32	0.18	0.46	0.34	0.42	1.20	0.36	0.28	0.08	0.26	0.00	0.00	
29	0.30	0.22	0.40	0.36	0.46	1.64	0.36	0.24	0.08	0.38		0.00	
30	0.26	0.18	0.36	0.34	0.96	3.40	0.36	0.24	0.06	0.40		0.00	
31		0.16		0.42	0.60		0.34		0.06	0.28		0.00	
Total	13.56	7.00	9.04	13.36	46.39	70.33	28.57	7.78	5.56	3.30	1.80	0.58	207.27 CMSDAY
Mean	0.45	0.23	0.30	0.43	1.50	2.34	0.92	0.26	0.18	0.11	0.06	0.02	0.57 CMS
Max	1.08	0.38	0.60	0.58	7.26	13.59	4.18	0.32	0.24	0.42	0.22	0.22	13.59 CMS
Min	0.26	0.16	0.14	0.32	0.38	0.76	0.34	0.22	0.06	0.00	0.00	0.00	0.00 CMS
Runoff	1.172	0.605	0.781	1.154	4.008	6.077	2.468	0.672	0.480	0.285	0.156	0.050	17.908 MCM

Momentary Peak 14.75 CMS, at 1.75 M (A.D), at 6.00 Hours, on Sep 18, 1994

Runoff Yield 9.79 Liters/Second/Square KM, Momentary Peak Yield 254.31 Liters/Second/Square KM

WATER YEAR 1994

WEST COAST-GULF BASIN

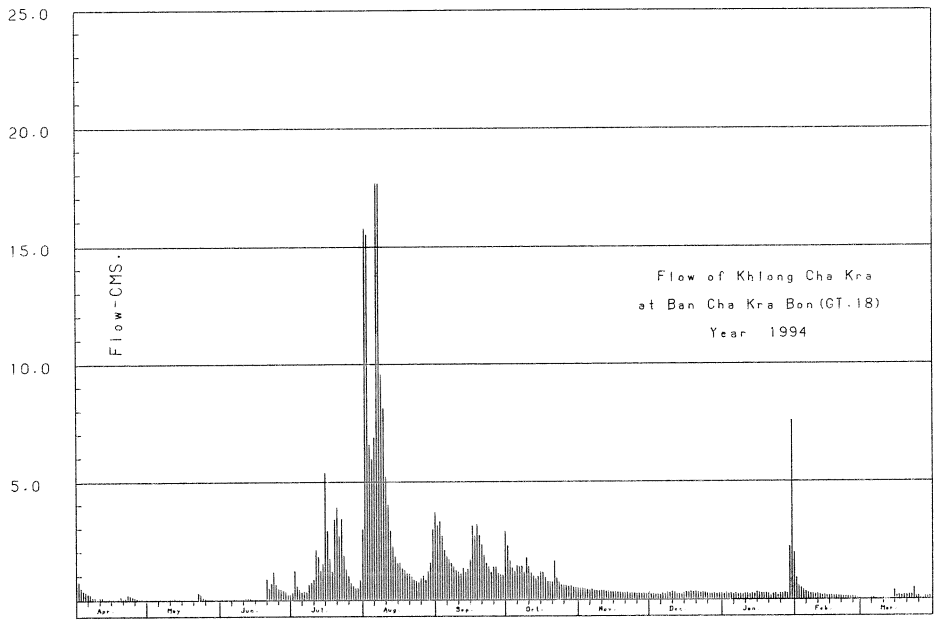
Khlong Cha Kra at Ban Cha Kra Bon, Prachuap Khiri Khan (Gt.18)

Location	Lat.11°-26'-46" N., Long. 99°-34'-10" E., on left bank at the bridge of Phet Kasem Highway near the guidepost 371, Tambon Na Hu Kwang, Amphoe Thap Sakae, Prachuap Khiri Khan.
Drainage Area	93 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+5.421 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 84 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.08	0.78	0.76	0.92	3.44	1.60	1.43	0.99	0.89	0.90	1.12	0.79	
2	1.00	0.77	0.76	1.20	3.41	1.64	1.29	0.99	0.89	0.91	1.02	0.79	
3	0.96	0.76	0.76	1.03	2.19	1.51	1.22	0.98	0.89	0.90	1.00	0.79	
4	0.93	0.77	0.77	0.97	2.10	1.39	1.19	0.97	0.88	0.90	0.97	0.79	
5	0.91	0.77	0.77	0.93	2.24	1.33	1.24	0.96	0.88	0.89	0.94	0.79	
6	0.89	0.76	0.78	0.94	3.67	1.30	1.23	0.97	0.90	0.90	0.91	0.79	
7	0.84	0.77	0.78	0.93	3.67	1.27	1.24	0.96	0.90	0.89	0.90	0.80	
8	0.82	0.77	0.77	1.04	2.63	1.23	1.18	0.95	0.92	0.89	0.89	0.80	
9	0.79	0.76	0.77	1.07	2.43	1.20	1.32	0.95	0.92	0.89	0.89	0.79	
10	0.82	0.77	0.79	1.10	1.98	1.18	1.23	0.95	0.93	0.90	0.89	0.79	
11	0.83	0.78	0.81	1.39	1.77	1.16	1.17	0.95	0.93	0.90	0.88	0.78	
12	0.80	0.81	0.82	1.33	1.56	1.22	1.14	0.94	0.90	0.89	0.87	0.78	
13	0.80	0.78	0.80	1.20	1.42	1.18	1.11	0.94	0.89	0.90	0.87	0.75	
14	0.80	0.77	0.78	1.26	1.33	1.21	1.13	0.93	0.89	0.90	0.86	0.74	
15	0.80	0.77	0.77	2.01	1.27	1.30	1.18	0.93	0.91	0.93	0.86	0.96	
16	0.80	0.76	0.76	1.56	1.27	1.60	1.18	0.93	0.93	0.91	0.86	0.86	
17	0.80	0.76	0.76	1.31	1.22	1.51	1.12	0.93	0.93	0.91	0.85	0.86	
18	0.80	0.75	0.77	1.19	1.20	1.61	1.08	0.92	0.93	0.90	0.85	0.86	
19	0.85	0.75	0.80	1.65	1.17	1.52	1.07	0.92	0.93	0.91	0.85	0.86	
20	0.80	0.76	1.11	1.75	1.16	1.44	1.07	0.91	0.93	0.89	0.84	0.87	
21	0.82	0.78	1.00	1.51	1.13	1.34	1.29	0.92	0.92	0.85	0.84	0.87	
22	0.89	0.92	1.06	1.66	1.10	1.27	1.12	0.91	0.92	0.90	0.84	0.88	
23	0.86	0.89	1.18	1.34	1.08	1.23	1.07	0.91	0.92	0.90	0.83	1.00	
24	0.85	0.83	1.04	1.21	1.07	1.18	1.04	0.91	0.92	0.87	0.83	0.84	
25	0.82	0.80	0.99	1.14	1.11	1.23	1.03	0.90	0.90	0.90	0.83	0.84	
26	0.80	0.78	0.97	1.06	1.14	1.23	1.03	0.90	0.90	0.90	0.82	0.79	
27	0.79	0.77	0.96	1.03	1.10	1.17	1.02	0.90	0.90	0.92	0.81	0.80	
28	0.79	0.77	0.93	0.99	1.19	1.15	1.02	0.90	0.90	0.90	0.78	0.84	
29	0.78	0.76	0.89	1.00	1.27	1.15	1.01	0.90	0.90	1.42		0.84	
30	0.78	0.76	0.88	1.09	1.57	1.55	1.00	0.90	0.90	2.35		0.84	
31		0.76		1.57	1.71		1.00		0.90	1.36		0.94	
Mean	0.84	0.78	0.86	1.24	1.76	1.33	1.14	0.93	0.91	0.98	0.88	0.83	
Max	1.08	0.92	1.18	2.01	3.67	1.64	1.43	0.99	0.93	2.35	1.12	1.00	3.67
Min	0.78	0.75	0.76	0.92	1.07	1.15	1.00	0.90	0.88	0.85	0.78	0.74	0.74

Annual Max Momentary Gage Height 4.12 M (A.D), at 6.00 Hours, on Aug 2, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.77 M (A.D)
Left Bank Elevation 4.37 M (A.D)
Right Bank Elevation 4.27 M (A.D), Drainage Area 93 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.78	0.04	0.03	0.30	15.77	3.15	2.30	0.48	0.23	0.25	0.93	0.05	
2	0.50	0.03	0.03	1.25	15.53	3.35	1.65	0.48	0.23	0.28	0.57	0.05	
3	0.40	0.03	0.03	0.60	6.59	2.70	1.34	0.45	0.23	0.25	0.50	0.05	
4	0.33	0.03	0.03	0.43	6.00	2.11	1.21	0.43	0.21	0.25	0.43	0.05	
5	0.28	0.03	0.03	0.33	6.91	1.84	1.43	0.40	0.21	0.23	0.35	0.05	
6	0.23	0.03	0.04	0.35	17.69	1.70	1.39	0.43	0.25	0.25	0.28	0.05	
7	0.13	0.03	0.04	0.33	17.69	1.56	1.43	0.40	0.25	0.23	0.25	0.05	
8	0.09	0.03	0.03	0.64	9.58	1.39	1.17	0.38	0.30	0.23	0.23	0.05	
9	0.05	0.03	0.03	0.75	8.16	1.25	1.79	0.38	0.30	0.23	0.23	0.05	
10	0.09	0.03	0.05	0.85	5.23	1.17	1.39	0.38	0.33	0.25	0.23	0.05	
11	0.11	0.04	0.07	2.11	4.03	1.09	1.13	0.38	0.33	0.25	0.21	0.04	
12	0.05	0.07	0.09	1.84	2.95	1.34	1.01	0.35	0.25	0.23	0.19	0.04	
13	0.05	0.04	0.05	1.25	2.25	1.17	0.89	0.35	0.23	0.25	0.19	0.03	
14	0.05	0.03	0.04	1.52	1.84	1.29	0.97	0.33	0.23	0.25	0.17	0.02	
15	0.05	0.03	0.03	5.42	1.56	1.70	1.17	0.33	0.28	0.33	0.17	0.40	
16	0.05	0.03	0.03	2.95	1.56	3.15	1.17	0.33	0.33	0.28	0.17	0.17	
17	0.05	0.03	0.03	1.74	1.34	2.70	0.93	0.33	0.33	0.28	0.15	0.17	
18	0.05	0.03	0.03	1.21	1.25	3.20	0.78	0.30	0.33	0.25	0.15	0.17	
19	0.15	0.03	0.05	3.40	1.13	2.75	0.75	0.30	0.33	0.28	0.15	0.17	
20	0.05	0.03	0.89	3.93	1.09	2.35	0.75	0.28	0.33	0.23	0.13	0.19	
21	0.09	0.04	0.50	2.70	0.97	1.88	1.65	0.30	0.30	0.15	0.13	0.19	
22	0.23	0.30	0.71	3.45	0.85	1.56	0.93	0.28	0.30	0.25	0.13	0.21	
23	0.17	0.23	1.17	1.88	0.78	1.39	0.75	0.28	0.30	0.25	0.11	0.50	
24	0.15	0.11	0.64	1.29	0.75	1.17	0.64	0.28	0.30	0.19	0.11	0.13	
25	0.09	0.05	0.48	1.01	0.89	1.39	0.60	0.25	0.25	0.25	0.11	0.13	
26	0.05	0.04	0.43	0.71	1.01	1.39	0.60	0.25	0.25	0.25	0.09	0.05	
27	0.05	0.03	0.40	0.60	0.85	1.13	0.57	0.25	0.25	0.30	0.07	0.05	
28	0.05	0.03	0.33	0.48	1.21	1.05	0.57	0.25	0.25	0.25	0.04	0.13	
29	0.04	0.03	0.23	0.50	1.56	1.05	0.53	0.25	0.25	2.25		0.13	
30	0.04	0.03	0.21	0.82	3.00	2.90	0.50	0.25	0.25	7.62		0.13	
31		0.03		3.00	3.71		0.50		0.25	1.97		0.35	
Total	4.50	1.59	6.75	47.64	143.73	55.87	32.49	10.13	8.46	18.81	6.47	3.90	340.34 CMSDAY
Mean	0.15	0.05	0.22	1.54	4.64	1.86	1.05	0.34	0.27	0.61	0.23	0.13	0.93 CMS
Max	0.78	0.30	1.17	5.42	17.69	3.35	2.30	0.48	0.33	7.62	0.93	0.50	17.69 CMS
Min	0.04	0.03	0.03	0.30	0.75	1.05	0.50	0.25	0.21	0.15	0.04	0.02	0.02 CMS
Runoff	0.389	0.137	0.583	4.116	12.418	4.827	2.807	0.875	0.731	1.625	0.559	0.337	29.405 MCM

Momentary Peak 21.52 CMS, at 4.12 M (A.D), at 6.00 Hours, on Aug 2, 1994
Runoff Yield 10.03 Liters/Second/Square KM, Momentary Peak Yield 231.40 Liters/Second/Square KM

WATER YEAR 1994

WEST COAST-GULF BASIN

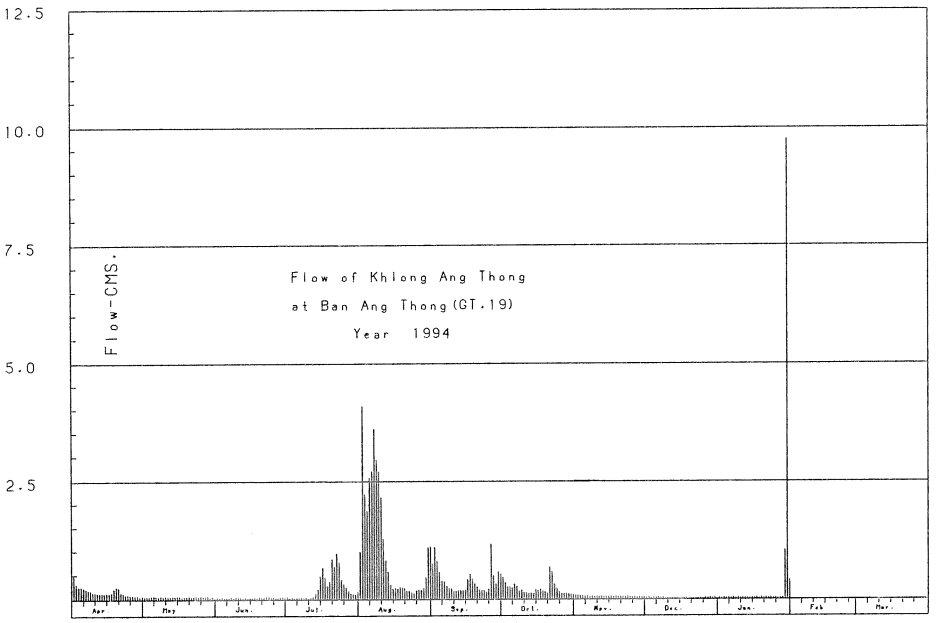
Khlong Ang Thong at Ban Ang Thong, Prachuap Khiri Khan (Gt.19)

Location	Lat. 11°-26'-08" N., Long. 99°-33'-52" E., on left bank at the bridge of Phet Kasem Highway near the guidepost 373, Tambon Ang Thong, Amphoe Thap Sakae, Prachuap Khiri Khan.
Drainage Area	56 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+4.973 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 - 1988, 1993 to date.
Rated by Float	-
Rated by Current Meter	1987 - 1988, 1993 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 54 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.07	0.05	0.06	0.55	0.46	0.35	0.11	0.06	0.05	0.29	0.71	
2	0.28	0.07	0.05	0.05	1.28	0.58	0.30	0.10	0.06	0.05	0.19	0.71	
3	0.25	0.07	0.05	0.05	0.89	0.48	0.25	0.10	0.05	0.05	0.19	0.71	
4	0.24	0.07	0.05	0.05	0.80	0.39	0.24	0.09	0.05	0.05	0.19	0.71	
5	0.23	0.07	0.05	0.05	0.97	0.32	0.23	0.09	0.05	0.05	0.19	0.71	
6	0.21	0.07	0.05	0.05	1.00	0.31	0.29	0.09	0.05	0.05	0.19	0.71	
7	0.20	0.07	0.05	0.05	1.19	0.26	0.25	0.08	0.05	0.05	0.19	0.71	
8	0.18	0.07	0.05	0.05	1.05	0.22	0.18	0.08	0.05	0.05	0.19	0.71	
9	0.16	0.07	0.06	0.05	1.00	0.22	0.19	0.08	0.04	0.05	0.19	0.71	
10	0.15	0.07	0.06	0.05	0.87	0.17	0.16	0.08	0.04	0.05	0.19	0.71	
11	0.15	0.07	0.05	0.05	0.63	0.18	0.15	0.08	0.04	0.05	0.19	0.71	
12	0.14	0.07	0.05	0.06	0.49	0.18	0.14	0.07	0.04	0.05	0.19	0.71	
13	0.14	0.07	0.05	0.14	0.39	0.19	0.14	0.07	0.04	0.05	0.19	0.71	
14	0.14	0.07	0.05	0.21	0.28	0.18	0.14	0.07	0.04	0.05	0.19	0.71	
15	0.14	0.07	0.05	0.36	0.22	0.20	0.20	0.07	0.04	0.05	0.19	0.71	
16	0.14	0.07	0.05	0.43	0.22	0.33	0.19	0.07	0.04	0.05	0.19	0.71	
17	0.14	0.06	0.05	0.34	0.22	0.37	0.21	0.07	0.04	0.05	0.19	0.71	
18	0.22	0.06	0.05	0.26	0.23	0.33	0.18	0.07	0.04	0.05	0.19	0.71	
19	0.23	0.07	0.06	0.31	0.23	0.29	0.16	0.07	0.04	0.05	0.19	0.71	
20	0.23	0.07	0.06	0.50	0.22	0.24	0.15	0.07	0.04	0.05	0.18	0.71	
21	0.16	0.07	0.05	0.44	0.18	0.20	0.43	0.07	0.04	0.05	0.17	0.73	
22	0.13	0.07	0.07	0.54	0.18	0.19	0.40	0.07	0.04	0.05	0.17	0.73	
23	0.12	0.07	0.06	0.47	0.15	0.18	0.29	0.07	0.04	0.05	0.17	0.73	
24	0.11	0.07	0.06	0.33	0.14	0.17	0.22	0.06	0.04	0.05	0.17	0.73	
25	0.11	0.07	0.06	0.28	0.18	0.21	0.17	0.06	0.04	0.05	0.17	0.73	
26	0.10	0.07	0.05	0.24	0.20	0.60	0.14	0.06	0.05	0.05	0.17	0.73	
27	0.10	0.07	0.05	0.18	0.20	0.36	0.14	0.06	0.05	0.05	0.16	0.73	
28	0.09	0.07	0.06	0.13	0.22	0.29	0.13	0.06	0.05	0.05	0.16	0.73	
29	0.08	0.06	0.06	0.13	0.35	0.39	0.13	0.06	0.05	0.56		0.73	
30	0.07	0.06	0.06	0.12	0.58	0.37	0.12	0.06	0.05	2.09		0.73	
31		0.05		0.17	0.58		0.11		0.05	0.86		0.76	
Mean	0.17	0.07	0.05	0.20	0.51	0.30	0.21	0.07	0.05	0.16	0.19	0.72	
Max	0.36	0.07	0.07	0.54	1.28	0.60	0.43	0.11	0.06	2.09	0.29	0.76	2.09
Min	0.07	0.05	0.05	0.05	0.14	0.17	0.11	0.06	0.04	0.05	0.16	0.71	0.04

Annual Max Momentary Gage Height 2.89 M (A.D), at 2.00 Hours, on Jan 30, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.00 M (A.D)
Left Bank Elevation 3.92 M (A.D)
Right Bank Elevation 3.95 M (A.D), Drainage Area 56 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.06	0.04	0.05	1.02	0.75	0.47	0.09	0.05	0.04	0.00	0.01	
2	0.32	0.06	0.04	0.04	4.10	1.11	0.35	0.08	0.05	0.04	0.00	0.01	
3	0.27	0.06	0.04	0.04	2.24	0.80	0.27	0.08	0.04	0.04	0.00	0.01	
4	0.26	0.06	0.04	0.04	1.87	0.58	0.26	0.07	0.04	0.04	0.00	0.01	
5	0.25	0.06	0.04	0.04	2.59	0.40	0.25	0.07	0.04	0.04	0.00	0.01	
6	0.21	0.06	0.04	0.04	2.72	0.37	0.33	0.07	0.04	0.04	0.00	0.01	
7	0.20	0.06	0.04	0.04	3.63	0.29	0.27	0.06	0.04	0.04	0.00	0.01	
8	0.18	0.06	0.04	0.04	2.96	0.23	0.18	0.06	0.04	0.04	0.00	0.01	
9	0.15	0.06	0.05	0.04	2.72	0.23	0.19	0.06	0.03	0.04	0.00	0.01	
10	0.14	0.06	0.05	0.04	2.16	0.16	0.15	0.06	0.03	0.04	0.00	0.01	
11	0.14	0.06	0.04	0.04	1.28	0.18	0.14	0.06	0.03	0.04	0.00	0.01	
12	0.13	0.06	0.04	0.05	0.83	0.18	0.13	0.06	0.03	0.04	0.00	0.01	
13	0.13	0.06	0.04	0.13	0.58	0.19	0.13	0.06	0.03	0.04	0.00	0.01	
14	0.13	0.06	0.04	0.21	0.32	0.18	0.13	0.06	0.03	0.04	0.00	0.01	
15	0.13	0.06	0.04	0.50	0.23	0.20	0.20	0.06	0.03	0.04	0.00	0.01	
16	0.13	0.06	0.04	0.68	0.23	0.43	0.19	0.06	0.03	0.04	0.00	0.01	
17	0.13	0.05	0.04	0.45	0.23	0.53	0.21	0.06	0.03	0.04	0.00	0.01	
18	0.23	0.05	0.04	0.29	0.25	0.43	0.18	0.06	0.03	0.04	0.00	0.01	
19	0.25	0.06	0.05	0.37	0.25	0.33	0.15	0.06	0.03	0.04	0.00	0.01	
20	0.25	0.06	0.05	0.85	0.23	0.26	0.14	0.06	0.03	0.04	0.00	0.01	
21	0.15	0.06	0.04	0.70	0.18	0.20	0.68	0.06	0.03	0.04	0.00	0.02	
22	0.12	0.06	0.06	0.98	0.18	0.19	0.60	0.06	0.03	0.04	0.00	0.02	
23	0.10	0.06	0.05	0.78	0.14	0.18	0.33	0.06	0.03	0.04	0.00	0.02	
24	0.09	0.06	0.05	0.43	0.13	0.16	0.23	0.05	0.03	0.04	0.00	0.02	
25	0.09	0.06	0.05	0.32	0.18	0.21	0.16	0.05	0.03	0.04	0.00	0.02	
26	0.08	0.06	0.04	0.26	0.20	1.18	0.13	0.05	0.04	0.04	0.00	0.02	
27	0.08	0.06	0.04	0.18	0.20	0.50	0.13	0.05	0.04	0.04	0.00	0.02	
28	0.07	0.06	0.05	0.12	0.23	0.33	0.12	0.05	0.04	0.04	0.00	0.02	
29	0.06	0.05	0.05	0.12	0.47	0.58	0.12	0.05	0.04	1.05		0.02	
30	0.06	0.05	0.05	0.10	1.11	0.53	0.10	0.05	0.04	9.76		0.02	
31		0.04		0.16	1.11		0.09		0.04	0.40		0.04	
Total	5.03	1.80	1.32	8.13	34.57	11.89	7.01	1.83	1.09	12.33	0.00	0.44	85.44 CMSDAY
Mean	0.17	0.06	0.04	0.26	1.12	0.40	0.23	0.06	0.04	0.40	0.00	0.01	0.23 CMS
Max	0.50	0.06	0.06	0.98	4.10	1.18	0.68	0.09	0.05	9.76	0.00	0.04	9.76 CMS
Min	0.06	0.04	0.04	0.04	0.13	0.16	0.09	0.05	0.03	0.04	0.00	0.01	0.00 CMS
Runoff	0.435	0.156	0.114	0.702	2.987	1.027	0.606	0.158	0.094	1.065	0.000	0.038	7.382 MCM

Momentary Peak 19.58 CMS, at 2.89 M (A.D), at 2.00 Hours, on Jan 30, 1994

Runoff Yield 4.18 Liters/Second/Square KM, Momentary Peak Yield 349.64 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

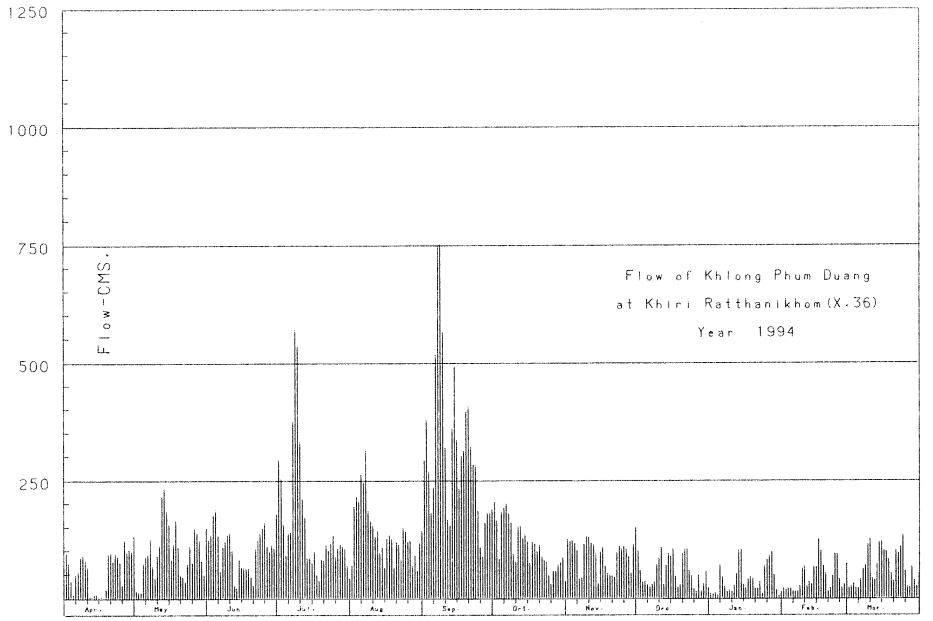
Khlong Phum Duang at Khiri Ratthanikhom, Surat Thani (X.36)

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	+10.815 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 good. Flow regulated by Ratcha Prapha Dam. Stage-discharge relation defined by 28 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.75	1.10	3.17	5.03	2.34	5.04	4.18	3.17	2.83	0.92	1.22	1.30	
2	2.38	0.98	3.28	4.66	4.06	5.71	3.73	3.13	2.10	0.93	1.20	1.33	
3	1.66	1.01	3.88	3.61	4.29	4.80	2.57	3.13	1.62	0.97	1.21	1.54	
4	0.88	2.41	4.00	2.70	4.17	3.94	3.93	3.08	1.59	0.87	1.26	1.24	
5	1.90	2.63	3.31	3.36	4.74	4.49	4.06	2.85	1.42	2.33	1.09	1.27	
6	2.07	2.68	2.05	3.37	4.60	6.66	4.13	1.73	1.35	1.86	1.03	1.70	
7	2.62	3.19	2.95	5.69	5.22	7.97	3.92	1.81	1.50	1.33	1.09	2.20	
8	2.65	2.27	3.09	6.98	3.96	7.98	3.69	3.01	1.56	1.07	1.36	2.30	
9	2.51	1.80	3.33	6.78	3.74	6.96	2.71	3.28	2.36	1.11	2.20	3.04	
10	2.26	2.64	3.36	5.35	3.57	5.25	2.46	3.23	2.55	1.08	2.27	3.17	
11	0.77	2.95	2.81	4.23	3.25	3.74	3.56	3.06	2.92	1.38	1.38	1.74	
12	0.69	4.29	1.42	3.82	3.46	3.61	3.58	3.04	1.48	2.02	1.58	1.71	
13	0.89	4.45	1.23	2.56	2.75	5.57	3.22	2.74	2.35	2.83	1.49	2.38	
14	0.86	3.98	2.54	2.60	2.94	6.51	3.32	1.53	2.73	2.87	2.26	3.07	
15	0.71	3.64	2.27	2.42	2.25	5.40	3.11	2.80	2.66	1.48	2.27	3.12	
16	0.70	2.54	2.21	2.79	3.19	4.44	2.39	2.91	2.87	1.22	3.19	2.85	
17	0.67	3.01	2.20	1.95	3.33	5.12	3.08	2.31	1.85	1.76	2.81	2.79	
18	1.18	3.73	2.19	1.62	3.18	5.19	3.05	1.98	1.31	1.81	2.33	2.51	
19	2.71	2.94	1.85	2.54	2.21	5.85	2.79	1.94	1.43	1.80	1.97	2.01	
20	2.78	1.91	1.38	2.47	3.10	5.91	2.98	1.87	2.75	1.21	1.09	1.62	
21	2.48	1.80	2.87	2.99	3.00	5.28	2.66	1.80	2.86	1.26	1.25	2.82	
22	2.72	1.63	3.16	2.85	2.55	4.95	2.52	2.77	2.89	1.57	1.90	2.76	
23	2.61	2.35	3.33	3.06	3.52	4.93	2.43	2.98	2.09	0.95	2.74	2.96	
24	2.45	2.93	3.53	3.31	3.43	3.99	1.92	2.87	1.92	2.31	2.71	3.30	
25	1.44	2.44	3.67	2.61	3.11	2.92	1.46	2.94	1.23	2.54	1.72	2.12	
26	3.13	3.49	2.98	2.88	3.12	2.65	2.07	2.86	1.03	2.65	1.25	1.32	
27	2.78	3.38	2.81	3.04	2.29	3.67	2.11	2.65	1.90	2.80	1.48	1.32	
28	2.84	3.13	2.99	2.93	2.69	3.90	2.33	2.02	1.12	1.91	2.41	2.25	
29	2.78	2.46	2.88	2.91	2.13	3.95	2.45	3.01	1.47	1.18		1.71	
30	3.29	1.95	3.91	2.30	3.04	3.99	2.58	3.56	2.09	0.83		1.37	
31		3.53		1.80	3.43		1.66		1.30	1.01		1.96	
Mean	2.01	2.69	2.82	3.39	3.31	5.01	2.92	2.67	1.97	1.61	1.78	2.15	
Max	3.29	4.45	4.00	6.98	5.22	7.98	4.18	3.56	2.92	2.87	3.19	3.30	7.98
Min	0.67	0.98	1.23	1.62	2.13	2.65	1.46	1.53	1.03	0.83	1.03	1.24	0.67

Annual Max Momentary Gage Height 8.25 M (MSL), at 6.00 Hours, on Sep 8, 1994
Zero Gage at Bottom Elevation 0.45 M (MSL), River Bed -0.15 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	96.60	16.70	125.33	294.30	71.52	295.40	206.00	125.33	102.04	10.20	21.16	24.20	
2	73.84	12.30	133.00	254.44	194.40	379.58	165.26	122.57	59.00	10.55	20.40	25.34	
3	38.38	13.37	178.20	156.14	217.00	269.00	85.20	122.57	36.66	11.95	20.78	33.40	
4	8.80	75.60	189.00	93.20	205.00	183.60	182.70	119.12	35.40	8.45	22.68	21.92	
5	49.00	88.86	135.10	138.60	262.76	237.09	194.40	103.40	28.76	70.94	16.33	23.06	
6	57.50	91.96	56.50	139.30	248.20	517.68	201.00	41.42	26.10	47.20	14.11	40.10	
7	88.24	126.71	110.20	376.83	316.40	749.95	181.80	44.95	31.80	25.34	16.33	64.00	
8	90.10	67.64	119.81	571.00	185.40	751.80	162.06	114.29	34.20	15.59	26.48	69.20	
9	81.60	44.50	136.50	536.80	166.08	567.50	93.88	133.00	72.68	17.07	64.00	116.36	
10	67.12	89.48	138.60	332.00	153.30	320.00	78.60	129.50	84.00	15.96	67.64	125.33	
11	5.10	110.20	100.68	211.00	130.90	166.08	152.60	117.74	108.16	27.24	27.24	41.86	
12	2.70	217.00	28.76	172.80	145.60	156.14	154.00	116.36	31.04	55.00	35.00	40.54	
13	9.15	233.05	21.54	84.60	96.60	360.45	128.80	95.92	72.10	102.04	31.42	73.84	
14	8.10	187.20	83.40	87.00	109.52	494.52	135.80	33.00	95.24	104.76	67.12	118.43	
15	3.30	158.36	67.64	76.20	66.60	338.00	121.19	100.00	90.72	31.04	67.64	121.88	
16	3.00	83.40	64.52	99.32	126.71	232.04	74.42	107.48	104.76	21.16	126.71	103.40	
17	2.10	114.29	64.00	51.50	136.50	304.40	119.12	69.78	46.75	42.74	100.68	99.32	
18	19.66	165.26	63.50	36.66	126.02	312.80	117.05	53.00	24.58	44.95	70.94	81.60	
19	93.88	109.52	46.75	83.40	64.52	398.90	99.32	51.00	29.14	44.50	52.50	54.50	
20	98.64	49.50	27.24	79.20	120.50	407.20	112.24	47.65	96.60	20.78	16.33	36.66	
21	79.80	44.50	104.76	112.92	113.60	323.60	90.72	44.50	104.08	22.68	22.30	101.36	
22	94.56	37.09	124.64	103.40	84.00	285.50	82.20	97.96	106.12	34.60	49.00	97.28	
23	87.62	72.10	136.50	117.74	149.80	283.30	76.80	112.24	58.50	11.25	95.92	110.88	
24	78.00	108.84	150.50	135.10	143.50	188.10	50.00	104.76	50.00	69.78	93.88	134.40	
25	29.52	77.40	160.58	87.62	121.19	108.16	30.28	109.52	21.54	83.40	40.98	60.00	
26	122.57	147.70	112.24	105.44	121.88	90.10	57.50	104.08	14.11	90.10	22.30	24.96	
27	98.64	140.00	100.68	116.36	68.68	160.58	59.50	90.10	49.00	100.00	31.04	24.96	
28	102.72	122.57	112.92	108.84	92.58	180.00	70.94	55.00	17.44	49.50	75.60	66.60	
29	98.64	78.60	105.44	107.48	60.50	184.50	78.00	114.29	30.66	19.66		40.54	
30	133.70	51.50	180.90	69.20	116.36	188.10	85.80	152.60	58.50	7.05		26.86	
31		150.50		44.50	143.50		38.38		24.20	13.37		52.00	
Total	1822.58	3085.70	3179.43	4982.89	4359.12	9434.07	3485.56	2833.13	1743.88	1228.85	1316.51	2054.78	39526.50 CMSDAY
Mean	60.75	99.54	105.98	160.74	140.62	314.47	112.44	94.44	56.25	39.64	47.02	66.28	108.29 CMS
Max	133.70	233.05	189.00	571.00	316.40	751.80	206.00	152.60	108.16	104.76	126.71	134.40	751.80 CMS
Min	2.10	12.30	21.54	36.66	60.50	90.10	30.28	33.00	14.11	7.05	14.11	21.92	2.10 CMS
Runoff	157.471	266.605	274.703	430.522	376.628	815.104	301.152	244.782	150.671	106.173	113.746	177.533	3415.090 MCM

Momentary Peak 801.75 CMS, at 8.25 M (MSL), at 6.00 Hours, on Sep 8, 1994

Runoff Yield 35.95 Liters/Second/Square KM, Momentary Peak Yield 266.19 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

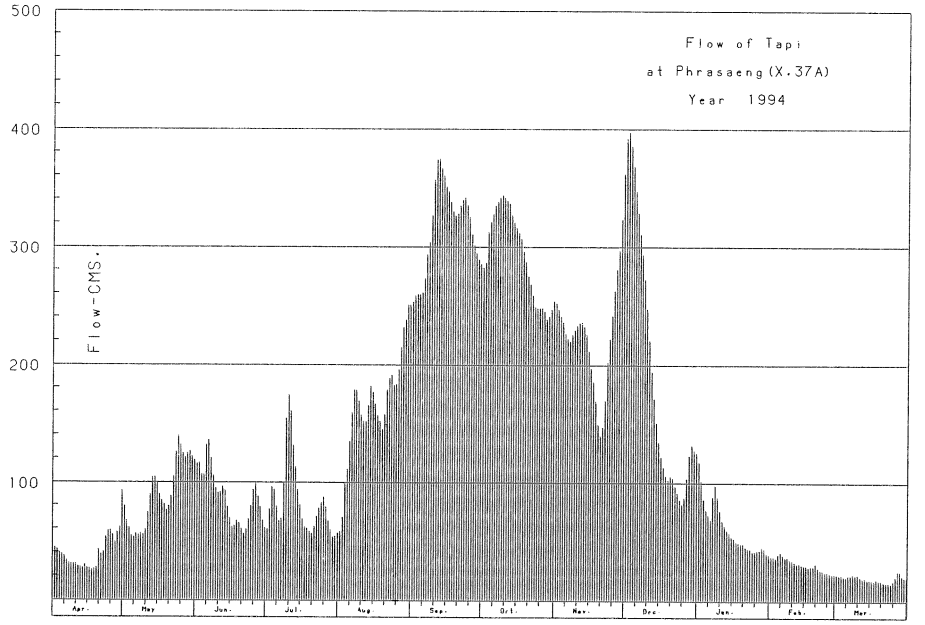
Tapi River at Phrasaeng, Surat Thani (X.37A)

Location	Lat.08-34-03 N., Long. 99-15-15 E., on left bank at Tambon Yan Din Daeng, Amphoe Phrasaeng, Surat Thani.
Drainage Area	5,200 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+4.80 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+10.240 m.(M.S.L.)
Gage Reading Frequency	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 good. Stage-discharge relation defined by 52 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.09	6.89	7.56	6.46	6.41	9.63	9.92	9.62	10.73	7.59	5.90	5.48	
2	6.03	6.62	7.56	6.82	6.70	9.67	9.97	9.54	10.76	7.29	5.88	5.48	
3	5.98	6.50	7.40	7.21	7.26	9.69	10.20	9.47	10.70	7.01	5.87	5.47	
4	5.93	6.32	7.38	7.15	7.48	9.68	10.28	9.40	10.61	6.83	5.93	5.45	
5	5.89	6.31	7.83	6.89	7.88	9.70	10.34	9.28	10.48	6.73	6.00	5.44	
6	5.81	6.36	7.89	6.63	8.27	9.83	10.39	9.21	10.34	6.66	5.92	5.46	
7	5.75	6.36	7.64	6.66	8.59	10.03	10.42	9.19	10.19	7.03	5.88	5.48	
8	5.72	6.37	7.38	7.26	8.58	10.13	10.44	9.26	10.03	7.23	5.87	5.49	
9	5.73	6.36	7.19	8.19	8.44	10.33	10.46	9.32	9.82	7.03	5.84	5.48	
10	5.72	6.44	7.10	8.52	8.24	10.54	10.44	9.36	9.55	6.80	5.80	5.48	
11	5.68	6.78	7.11	8.29	8.15	10.64	10.42	9.40	9.20	6.64	5.77	5.44	
12	5.64	7.08	7.20	7.83	8.16	10.64	10.41	9.40	8.82	6.53	5.75	5.40	
13	5.64	7.34	7.15	7.50	8.38	10.60	10.33	9.36	8.46	6.46	5.74	5.40	
14	5.69	7.36	6.88	7.15	8.63	10.56	10.27	9.26	8.14	6.39	5.73	5.38	
15	5.64	7.26	6.68	6.91	8.56	10.51	10.23	9.07	7.86	6.32	5.71	5.36	
16	5.61	7.07	6.52	6.65	8.39	10.48	10.20	8.85	7.65	6.27	5.68	5.35	
17	5.60	6.97	6.52	6.52	8.24	10.42	10.15	8.69	7.51	6.22	5.67	5.35	
18	5.60	6.92	6.62	6.47	8.15	10.35	10.06	8.43	7.37	6.18	5.67	5.37	
19	5.65	6.82	6.59	6.43	8.05	10.32	9.97	8.12	7.32	6.18	5.68	5.36	
20	6.03	6.87	6.46	6.37	8.24	10.34	9.85	7.96	7.36	6.16	5.73	5.34	
21	5.93	7.04	6.36	6.51	8.58	10.39	9.77	8.07	7.34	6.12	5.64	5.32	
22	6.00	7.37	6.47	6.71	8.74	10.43	9.68	8.43	7.22	6.08	5.60	5.31	
23	6.32	7.73	6.66	6.84	8.77	10.44	9.59	8.94	7.10	6.05	5.57	5.29	
24	6.44	7.95	6.88	6.95	8.65	10.40	9.56	9.21	7.00	6.01	5.55	5.29	
25	6.43	7.82	7.15	7.04	8.65	10.31	9.57	9.47	6.91	5.99	5.54	5.33	
26	6.34	7.71	7.25	6.86	8.85	10.19	9.56	9.72	7.02	6.01	5.53	5.43	
27	6.21	7.65	7.06	6.63	9.12	10.11	9.53	9.91	7.34	6.04	5.51	5.58	
28	6.39	7.70	6.86	6.44	9.34	10.04	9.43	10.06	7.68	6.10	5.49	5.55	
29	6.51	7.74	6.64	6.32	9.43	10.00	9.47	10.30	7.83	6.05		5.47	
30	7.13	7.65	6.48	6.31	9.60	9.95	9.54	10.57	7.75	5.97		5.41	
31		7.60		6.40	9.60		9.63		7.71	5.93		5.41	
Mean	5.97	7.06	7.02	6.93	8.39	10.21	10.00	9.23	8.51	6.45	5.73	5.41	
Max	7.13	7.95	7.89	8.52	9.60	10.64	10.46	10.57	10.76	7.59	6.00	5.58	10.76
Min	5.60	6.31	6.36	6.31	6.41	9.63	9.43	7.96	6.91	5.93	5.49	5.29	5.29

Annual Max Momentary Gage Height 10.77 M (MSL), at 6.00 Hours, on Dec 2, 1994
Zero Gage at Bottom Elevation 4.80 M (MSL), River Bed 3.55 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.11	80.50	116.48	60.38	58.23	253.80	282.40	252.70	392.00	118.22	37.70	21.88	
2	42.77	67.42	116.48	77.00	71.10	258.20	287.15	246.60	398.00	101.25	36.92	21.88	
3	40.82	62.10	107.40	96.85	99.60	260.40	312.50	241.60	386.00	86.51	36.53	21.52	
4	38.87	54.44	106.28	93.70	111.88	259.30	321.70	236.00	368.90	77.50	38.87	20.80	
5	37.31	54.02	132.30	80.50	135.30	261.50	328.80	226.92	347.20	72.57	41.60	20.44	
6	34.19	56.12	135.90	67.88	159.14	273.85	334.80	221.74	328.80	69.26	38.48	21.16	
7	31.90	56.12	121.12	69.26	179.17	293.30	338.80	220.30	311.35	87.53	36.92	21.88	
8	30.76	56.54	106.28	99.60	178.54	304.45	341.60	225.44	293.30	97.95	36.53	22.24	
9	31.14	56.12	95.78	154.18	169.72	327.60	344.40	229.92	272.90	87.53	35.36	21.88	
10	30.76	59.52	91.10	174.76	157.28	356.80	341.60	232.96	247.25	76.00	33.80	21.88	
11	29.26	75.02	91.62	160.38	151.70	374.60	338.80	236.00	221.00	68.34	32.66	20.44	
12	27.78	90.08	96.30	132.30	152.32	374.60	337.40	236.00	194.40	63.42	31.90	19.00	
13	27.78	104.04	93.70	113.00	165.96	367.00	327.60	232.96	170.98	60.38	31.52	19.00	
14	29.63	105.16	80.00	93.70	181.75	360.20	320.55	225.44	151.08	57.38	31.14	18.28	
15	27.78	99.60	70.18	81.50	177.28	351.70	315.95	211.90	134.10	54.44	30.38	17.56	
16	26.67	89.57	62.98	68.80	166.58	347.20	312.50	196.50	121.70	52.37	29.26	17.20	
17	26.30	84.50	62.98	62.98	157.28	338.80	306.75	185.65	113.58	50.32	28.89	17.20	
18	26.30	82.00	67.42	60.81	151.70	330.00	296.60	169.09	105.72	48.70	28.89	17.92	
19	28.15	77.00	66.06	59.09	145.55	326.40	287.15	149.84	102.92	48.70	29.26	17.56	
20	42.77	79.50	60.38	56.54	157.28	328.80	275.75	140.10	105.16	47.90	31.14	16.84	
21	38.87	88.04	56.12	62.54	178.54	334.80	268.15	146.77	104.04	46.30	27.78	16.12	
22	41.60	105.72	60.81	71.59	188.98	340.20	259.30	169.09	97.40	44.72	26.30	15.76	
23	54.44	126.37	69.26	78.00	190.99	341.60	249.85	202.80	91.10	43.55	25.19	15.06	
24	59.52	139.50	80.00	83.50	183.05	336.00	247.90	221.74	86.00	41.99	24.45	15.06	
25	59.09	131.70	93.70	88.04	183.05	325.20	248.55	241.60	81.50	41.21	24.08	16.48	
26	55.28	125.19	99.05	79.00	196.50	311.35	247.90	263.40	87.02	41.99	23.71	20.08	
27	49.91	121.70	89.06	67.88	215.40	302.15	245.95	281.45	104.04	43.16	22.97	25.56	
28	57.38	124.60	79.00	59.52	231.44	294.40	238.40	296.60	123.44	45.50	22.24	24.45	
29	62.54	126.96	68.34	54.44	238.40	290.00	241.60	324.00	132.30	43.55		21.52	
30	92.66	121.70	61.24	54.02	250.50	285.25	246.60	361.90	127.55	40.43		19.36	
31		118.80		57.80	250.50		253.80		125.19	38.87		19.36	
Total	1227.34	2819.65	2637.32	2619.54	5234.71	9509.45	9100.80	6827.01	5925.92	1897.54	874.47	605.37	49279.13 CMSDAY
Mean	40.91	90.96	87.91	84.50	168.86	316.98	293.57	227.57	191.16	61.21	31.23	19.53	135.01 CMS
Max	92.66	139.50	135.90	174.76	250.50	374.60	344.40	361.90	398.00	118.22	41.60	25.56	398.00 CMS
Min	26.30	54.02	56.12	54.02	58.23	253.80	238.40	140.10	81.50	38.87	22.24	15.06	15.06 CMS
Runoff	106.042	243.618	227.864	226.328	452.279	821.617	786.309	589.854	512.000	163.947	75.554	52.304	4257.716 MCM

Momentary Peak 400.00 CMS, at 10.77 M (MSL), at 6.00 Hours, on Dec 2, 1994

Runoff Yield 25.96 Liters/Second/Square KM, Momentary Peak Yield 76.92 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENNINSULA EAST COAST

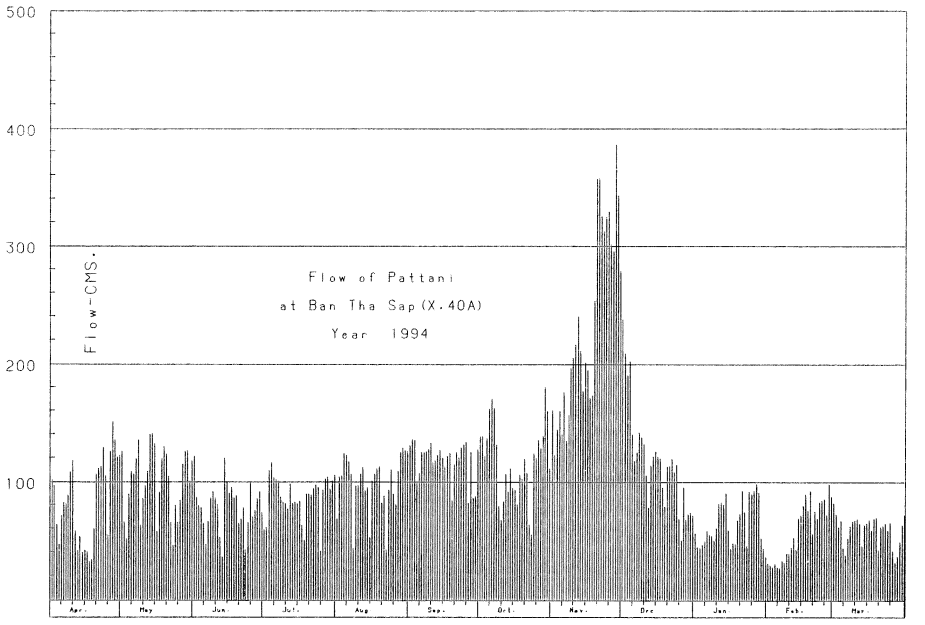
Pattani River at Ban Tha Sap, Yala (X.40A)

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	+6.568 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Bang Lang dam upstream. Stage-discharge relation defined by 78 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.02	3.31	3.27	2.37	2.52	3.38	3.47	3.72	4.48	2.32	1.84	2.73	
2	2.94	2.48	2.81	2.39	3.04	3.44	3.48	3.28	4.21	2.11	1.82	2.58	
3	2.43	2.24	2.70	3.11	3.06	3.44	3.27	3.54	4.03	2.11	1.78	2.41	
4	2.16	2.84	2.68	3.20	3.29	2.99	3.45	3.72	4.15	2.14	1.85	2.50	
5	2.57	3.10	2.46	3.04	3.28	3.09	3.74	3.50	3.50	2.21	1.79	2.11	
6	2.73	3.08	2.15	3.01	3.21	3.30	3.83	3.88	3.21	2.34	1.76	1.98	
7	2.73	3.24	2.47	3.01	3.07	3.31	3.74	3.42	3.31	2.30	1.90	2.25	
8	2.83	3.44	2.80	2.80	2.09	3.31	3.39	3.68	3.51	2.27	1.85	2.41	
9	3.09	2.42	2.88	2.75	2.95	3.34	2.69	4.09	3.47	2.22	2.02	2.49	
10	3.22	2.79	2.79	2.72	2.94	3.40	2.51	4.17	3.39	2.38	2.00	2.49	
11	2.34	2.94	2.71	2.65	3.08	3.19	2.76	4.29	3.06	2.72	2.11	2.51	
12	2.07	3.10	2.25	2.97	3.14	3.22	3.08	4.51	2.68	2.75	2.26	2.46	
13	2.27	3.50	1.96	2.73	2.89	3.27	2.87	4.23	3.17	2.71	2.09	2.14	
14	2.02	3.50	3.24	2.74	2.92	3.33	3.13	3.89	3.26	2.86	2.52	2.44	
15	2.07	3.40	3.00	2.73	2.26	3.25	2.91	4.14	3.32	2.36	2.57	2.45	
16	2.03	2.33	2.86	2.76	3.00	3.16	2.90	4.07	3.26	2.10	2.71	2.50	
17	1.88	2.87	2.92	2.42	3.08	3.26	2.71	3.83	3.24	2.17	2.84	2.35	
18	1.90	3.23	2.80	2.22	3.13	3.30	3.07	3.86	2.93	2.17	2.63	2.53	
19	2.38	3.36	2.82	2.84	3.16	2.77	3.02	4.62	2.68	2.49	2.89	2.53	
20	3.07	3.29	2.46	2.84	2.74	3.17	3.23	5.44	3.16	2.58	2.30	2.08	
21	3.13	3.05	2.51	2.83	2.82	3.30	3.09	5.44	3.16	2.89	2.62	2.40	
22	3.16	2.47	2.68	2.92	2.07	3.25	2.44	5.20	3.24	2.62	2.53	2.42	
23	3.36	2.15	2.07	2.95	2.90	3.35	2.29	5.10	3.09	2.13	2.75	2.45	
24	3.06	2.70	2.47	2.93	3.12	3.39	3.29	5.19	3.17	2.87	2.76	2.36	
25	2.28	2.46	2.99	2.06	2.84	3.41	3.25	5.23	2.52	2.85	2.79	2.46	
26	3.31	2.76	2.54	2.89	2.72	2.73	3.43	5.01	2.22	2.88	2.57	2.05	
27	3.62	3.18	2.64	3.03	3.11	3.31	3.35	4.97	2.93	2.97	2.97	1.87	
28	3.43	3.32	2.78	3.04	3.31	2.80	3.48	5.65	2.50	2.86	2.81	1.96	
29	3.26	3.32	2.88	2.91	3.35	2.81	3.93	5.33	2.59	2.25		2.20	
30	3.27	3.01	2.60	3.00	3.33	3.33	3.72	4.83	2.60	2.09		2.44	
31		3.21		3.06	3.31		3.13		2.56	1.96		2.57	
Mean	2.72	2.97	2.67	2.80	2.96	3.22	3.18	4.39	3.18	2.44	2.33	2.36	
Max	3.62	3.50	3.27	3.20	3.35	3.44	3.93	5.65	4.48	2.97	2.97	2.73	5.65
Min	1.88	2.15	1.96	2.06	2.07	2.73	2.29	3.28	2.22	1.96	1.76	1.87	1.76

Annual Max Momentary Gage Height 5.70 M (A.D), at 15.00 Hours, on Nov 28, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.81 M (A.D)
Left Bank Elevation 6.20 M (A.D)
Right Bank Elevation 8.30 M (A.D), Drainage Area 3288 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	102.60	125.80	122.60	60.20	69.20	131.40	138.60	160.80	237.80	57.20	31.00	82.10	
2	96.80	66.80	87.70	61.40	104.20	136.20	139.40	123.40	209.00	44.60	30.00	72.80	
3	63.80	52.40	80.00	109.80	105.80	136.20	122.60	144.60	191.00	44.60	28.00	62.60	
4	47.60	89.80	78.80	117.00	124.20	100.30	137.00	160.80	203.00	46.40	31.50	68.00	
5	72.20	109.00	65.60	104.20	123.40	108.20	162.60	141.00	141.00	50.60	28.50	44.60	
6	82.10	107.40	47.00	101.80	117.80	125.00	171.00	176.00	117.80	58.40	27.00	38.00	
7	82.10	120.20	66.20	101.80	106.60	125.80	162.60	134.60	125.80	56.00	34.00	53.00	
8	89.10	136.20	87.00	87.00	43.50	125.80	132.20	157.20	141.90	54.20	31.50	62.60	
9	108.20	63.20	92.60	83.50	97.50	128.20	79.40	197.00	138.60	51.20	40.00	67.40	
10	118.60	86.30	86.30	81.40	96.80	133.00	68.60	205.00	132.20	60.80	39.00	67.40	
11	58.40	96.80	80.70	77.00	107.40	116.20	84.20	217.00	105.80	81.40	44.60	68.60	
12	42.50	109.00	53.00	98.90	112.20	118.60	107.40	241.10	78.80	83.50	53.60	65.60	
13	54.20	141.00	37.00	82.10	93.30	122.60	91.90	211.00	114.60	80.70	43.50	46.40	
14	40.00	141.00	120.20	82.80	95.40	127.40	111.40	177.00	121.80	91.20	69.20	64.40	
15	42.50	133.00	101.00	82.10	53.60	121.00	94.70	202.00	126.60	59.60	72.20	65.00	
16	40.50	57.80	91.20	84.20	101.00	113.80	94.00	195.00	121.80	44.00	80.70	68.00	
17	33.00	91.90	95.40	63.20	107.40	121.80	80.70	171.00	120.20	48.20	89.80	59.00	
18	34.00	119.40	87.00	51.20	111.40	125.00	106.60	174.00	96.10	48.20	75.80	69.80	
19	60.80	129.80	88.40	89.80	113.80	84.90	102.60	253.40	78.80	67.40	93.30	69.80	
20	106.60	124.20	65.60	89.80	82.80	114.60	119.40	357.60	113.80	72.80	56.00	43.00	
21	111.40	105.00	68.60	89.10	88.40	125.00	108.20	357.60	113.80	93.30	75.20	62.00	
22	113.80	66.20	78.80	95.40	42.50	121.00	64.40	326.00	120.20	75.20	69.80	63.20	
23	129.80	47.00	42.50	97.50	94.00	129.00	55.40	313.00	108.20	45.80	83.50	65.00	
24	105.80	80.00	66.20	96.10	110.60	132.20	124.20	324.70	114.60	91.90	84.20	59.60	
25	54.80	65.60	100.30	42.00	89.80	133.80	121.00	329.90	69.20	90.50	86.30	65.60	
26	125.80	84.20	70.40	93.30	81.40	82.10	135.40	301.30	51.20	92.60	72.20	41.50	
27	151.80	115.40	76.40	103.40	109.80	125.80	129.00	296.10	96.10	98.90	98.90	32.50	
28	135.40	126.60	85.60	104.20	125.80	87.00	139.40	387.00	68.00	91.20	87.70	37.00	
29	121.80	126.60	92.60	94.70	129.00	87.70	181.00	342.90	73.40	53.00		50.00	
30	122.60	101.80	74.00	101.00	127.40	127.40	160.80	278.60	74.00	43.50		64.40	
31		117.80		105.80	125.80		111.40		71.60	37.00		72.20	
Total	2548.60	3137.20	2388.70	2731.70	3091.80	3567.00	3637.10	7056.60	3676.70	2013.90	1657.00	1851.10	37357.40 CMSDAY
Mean	84.95	101.20	79.62	88.12	99.74	118.90	117.33	235.22	118.60	64.96	59.18	59.71	102.35 CMS
Max	151.80	141.00	122.60	117.00	129.00	136.20	181.00	387.00	237.80	98.90	98.90	82.10	387.00 CMS
Min	33.00	47.00	37.00	42.00	42.50	82.10	55.40	123.40	51.20	37.00	27.00	32.50	27.00 CMS
Runoff	220.199	271.054	206.384	236.019	267.132	308.189	314.245	609.690	317.667	174.001	143.165	159.935	3227.680 MCM

Momentary Peak 394.00 CMS, at 5.70 M (A.D), at 15.00 Hours, on Nov 28, 1994

Runoff Yield 31.13 Liters/Second/Square KM, Momentary Peak Yield 119.83 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

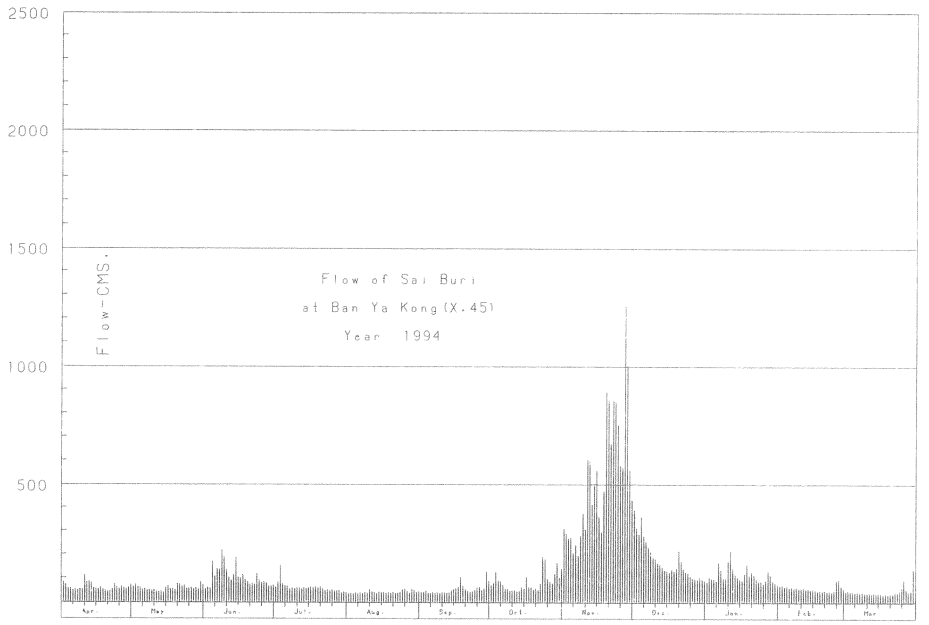
Sai Buri River at Ban Ya Kong, Narathiwat (X.45)

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	Overbank flow starts at elevation +7.39 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.58	1.38	1.27	1.32	1.00	1.03	1.45	3.23	3.65	1.58	1.42	1.14	
2	1.43	1.45	1.30	1.54	0.99	1.09	1.50	3.07	3.21	1.73	1.41	1.12	
3	1.30	1.38	1.31	2.18	0.99	1.14	1.90	2.94	3.05	1.71	1.40	1.10	
4	1.25	1.30	2.31	1.52	1.00	1.04	1.64	2.99	3.51	1.67	1.36	1.08	
5	1.21	1.23	1.80	1.43	0.99	1.02	1.58	2.55	3.03	1.63	1.34	1.06	
6	1.21	1.21	2.03	1.37	1.00	1.02	1.46	2.79	2.85	2.23	1.33	1.05	
7	1.21	1.20	2.01	1.28	1.01	1.02	1.27	2.49	2.72	1.98	1.32	1.04	
8	1.20	1.17	2.65	1.27	1.01	1.01	1.22	3.01	2.58	1.72	1.31	1.03	
9	1.25	1.16	2.41	1.28	1.03	1.01	1.17	3.57	2.43	1.68	1.30	1.02	
10	1.84	1.16	2.00	1.28	1.20	1.01	1.14	3.20	2.35	2.31	1.29	1.01	
11	1.53	1.10	1.76	1.28	1.13	1.01	1.14	4.70	2.25	2.63	1.28	1.00	
12	1.60	1.08	1.61	1.29	1.04	1.05	1.13	4.67	2.17	2.04	1.26	1.00	
13	1.52	1.08	1.85	1.30	1.02	1.01	1.16	3.79	2.09	1.83	1.24	0.99	
14	1.32	1.06	2.43	1.30	1.05	1.20	1.31	4.19	2.01	1.75	1.22	0.98	
15	1.23	1.29	1.74	1.32	1.06	1.25	1.24	4.50	1.95	1.65	1.20	0.95	
16	1.26	1.38	1.70	1.32	1.03	1.24	1.78	3.49	1.93	1.64	1.17	0.95	
17	1.31	1.26	1.85	1.33	1.02	1.35	1.37	3.13	2.03	1.85	1.15	0.94	
18	1.25	1.22	1.64	1.33	1.02	1.74	1.30	4.05	1.95	2.20	1.15	0.94	
19	1.13	1.21	1.59	1.33	1.03	1.40	1.24	5.81	2.05	1.82	1.15	0.94	
20	1.11	1.51	1.44	1.33	1.03	1.25	1.26	5.68	2.63	1.92	1.14	0.93	
21	1.10	1.45	1.49	1.25	1.03	1.11	1.22	4.98	2.31	1.83	1.14	0.96	
22	1.25	1.39	1.48	1.17	1.03	1.09	1.49	5.69	2.03	1.67	1.10	1.00	
23	1.49	1.40	1.88	1.17	1.03	1.06	2.42	5.65	1.95	1.61	1.09	1.04	
24	1.32	1.28	1.62	1.17	1.24	1.21	2.37	5.31	1.88	1.57	1.12	1.11	
25	1.26	1.26	1.56	1.17	1.22	1.30	1.71	4.60	1.80	1.52	1.64	1.33	
26	1.35	1.29	1.56	1.17	1.08	1.37	1.56	4.54	1.71	1.64	1.65	1.63	
27	1.32	1.27	1.54	1.17	1.03	1.21	1.53	6.97	1.67	1.97	1.40	1.24	
28	1.22	1.26	1.36	1.14	1.27	1.24	1.86	6.17	1.67	1.80	1.23	1.04	
29	1.34	1.26	1.41	1.04	1.13	1.97	2.22	4.51	1.71	1.60		1.15	
30	1.42	1.56	1.41	1.04	1.08	1.59	1.75	3.88	1.67	1.49		2.06	
31		1.43		1.02	1.06		2.03		1.61	1.44		1.33	
Mean	1.33	1.28	1.73	1.29	1.06	1.20	1.53	4.21	2.27	1.80	1.28	1.10	
Max	1.84	1.56	2.65	2.18	1.27	1.97	2.42	6.97	3.65	2.63	1.65	2.06	6.97
Min	1.10	1.06	1.27	1.02	0.99	1.01	1.13	2.49	1.61	1.44	1.09	0.93	0.93

Annual Max Momentary Gage Height 7.65 M (A.D), at 18.00 Hours, on Nov 27, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -2.23 M (A.D)
Left Bank Elevation 7.38 M (A.D)
Right Bank Elevation 8.45 M (A.D), Drainage Area 1493 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	88.0	68.2	58.6	62.8	39.0	41.1	75.0	316.8	391.0	88.0	72.0	48.8	
2	73.0	75.0	61.0	84.0	38.3	45.3	80.0	291.2	313.6	104.6	71.0	47.4	
3	61.0	68.2	61.9	160.4	38.3	48.8	125.0	270.4	288.0	102.2	70.0	46.0	
4	57.0	61.0	177.3	82.0	39.0	41.8	94.4	278.4	365.8	97.7	66.4	44.6	
5	53.8	55.4	113.0	73.0	38.3	40.4	88.0	209.0	284.8	93.3	64.6	43.2	
6	53.8	53.8	140.9	67.3	39.0	40.4	76.0	246.4	256.0	166.9	63.7	42.5	
7	53.8	53.0	138.3	59.4	39.7	40.4	58.6	200.7	235.2	134.6	62.8	41.8	
8	53.0	50.9	224.0	58.6	39.7	39.7	54.6	281.6	213.2	103.4	61.9	41.1	
9	57.0	50.2	190.3	59.4	41.1	39.7	50.9	376.6	192.9	98.8	61.0	40.4	
10	117.8	50.2	137.0	59.4	53.0	39.7	48.8	312.0	182.5	177.3	60.2	39.7	
11	83.0	46.0	108.2	59.4	48.1	39.7	48.8	606.0	169.5	220.8	59.4	39.0	
12	90.0	44.6	91.1	60.2	41.8	42.5	48.1	599.4	159.1	142.2	57.8	39.0	
13	82.0	44.6	119.0	61.0	40.4	39.7	50.2	418.0	148.7	116.6	56.2	38.3	
14	62.8	43.2	192.9	61.0	42.5	53.0	61.9	498.0	138.3	107.0	54.6	37.6	
15	55.4	60.2	105.8	62.8	43.2	57.0	56.2	562.0	131.0	95.5	53.0	35.5	
16	57.8	68.2	101.0	62.8	41.1	56.2	110.6	362.2	128.6	94.4	50.9	35.5	
17	61.9	57.8	119.0	63.7	40.4	65.5	67.3	300.8	140.9	119.0	49.5	34.8	
18	57.0	54.6	94.4	63.7	40.4	105.8	61.0	470.0	131.0	163.0	49.5	34.8	
19	48.1	53.8	89.0	63.7	41.1	70.0	56.2	895.0	143.5	115.4	49.5	34.8	
20	46.7	81.0	74.0	63.7	41.1	57.0	57.8	858.4	220.8	127.4	48.8	34.1	
21	46.0	75.0	79.0	57.0	41.1	46.7	54.6	673.2	177.3	116.6	48.8	36.2	
22	57.0	69.1	78.0	50.9	41.1	45.3	79.0	861.2	140.9	97.7	46.0	39.0	
23	79.0	70.0	122.6	50.9	41.1	43.2	191.6	850.0	131.0	91.1	45.3	41.8	
24	62.8	59.4	92.2	50.9	56.2	53.8	185.1	756.6	122.6	87.0	47.4	46.7	
25	57.8	57.8	86.0	50.9	54.6	61.0	102.2	584.0	113.0	82.0	94.4	63.7	
26	65.5	60.2	86.0	50.9	44.6	67.3	86.0	570.8	102.2	94.4	95.5	93.3	
27	62.8	58.6	84.0	50.9	41.1	53.8	83.0	1259.8	97.7	133.4	70.0	56.2	
28	54.6	57.8	66.4	48.8	58.6	56.2	120.2	1003.0	97.7	113.0	55.4	41.8	
29	64.6	57.8	71.0	41.8	48.1	133.4	165.6	564.2	102.2	90.0		49.5	
30	72.0	86.0	71.0	41.8	44.6	89.0	107.0	436.0	97.7	79.0		144.8	
31		73.0		40.4	43.2		140.9		91.1	74.0		63.7	
Total	1935.0	1864.6	3232.9	1923.5	1339.8	1653.4	2684.6	15911.7	5507.8	3526.3	1685.6	1475.6	42740.8 CMSDAY
Mean	64.5	60.1	107.8	62.0	43.2	55.1	86.6	530.4	177.7	113.8	60.2	47.6	117.1 CMS
Max	117.8	86.0	224.0	160.4	58.6	133.4	191.6	1259.8	391.0	220.8	95.5	144.8	1259.8 CMS
Min	46.0	43.2	58.6	40.4	38.3	39.7	48.1	200.7	91.1	74.0	45.3	34.1	34.1 CMS
Runoff	167.18	161.10	279.32	166.19	115.76	142.85	231.95	1374.77	475.87	304.67	145.64	127.49	3692.81 MCM

Momentary Peak 1494.50 CMS, at 7.65 M (A.D), at 18.00 Hours, on Nov 27, 1994

Runoff Yield 78.43 Liters/Second/Square KM, Momentary Peak Yield 1001.00 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

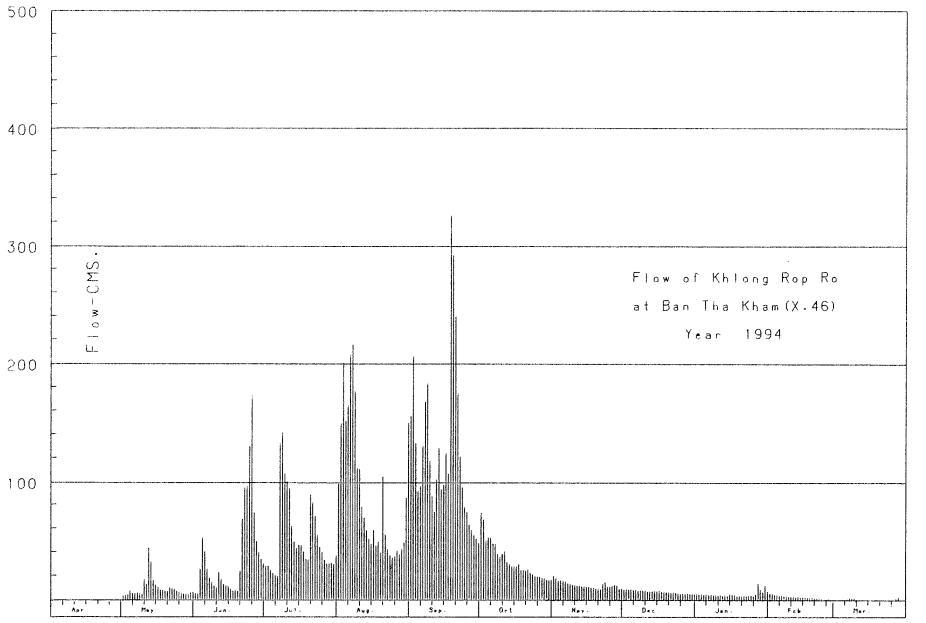
Khlong Rap Ro at Ban Tha Kham, Chumphon (X.46)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. No records on Apr.1-30,94. Stage-discharge relation defined by 34 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	7.51	7.59	8.43	10.09	11.17	9.56	8.17	7.77	7.57	7.60	7.35	
2	*******	7.50	7.59	8.45	11.05	12.08	9.44	8.09	7.77	7.56	7.57	7.34	
3	*******	7.56	8.36	8.32	11.99	10.75	9.01	8.03	7.77	7.56	7.55	7.34	
4	*******	7.70	9.07	8.24	11.10	9.93	9.08	8.03	7.76	7.55	7.52	7.35	
5	*******	7.61	8.79	8.18	11.33	10.03	9.09	8.02	7.75	7.55	7.51	7.33	
6	*******	7.58	8.35	8.14	12.11	10.69	8.96	8.00	7.74	7.55	7.50	7.35	
7	*******	7.62	8.11	10.74	12.27	11.39	8.94	7.96	7.72	7.54	7.49	7.42	
8	*******	7.59	7.98	10.92	11.55	11.67	8.74	7.93	7.71	7.53	7.48	7.38	
9	*******	7.55	7.88	10.23	10.32	10.44	8.67	7.91	7.74	7.53	7.47	7.41	
10	*******	8.06	7.82	10.10	10.32	9.86	8.74	7.90	7.72	7.52	7.47	7.36	
11	*******	7.93	8.26	9.99	9.66	9.58	8.79	7.89	7.69	7.52	7.46	7.34	
12	*******	8.87	8.07	9.31	9.47	10.13	8.55	7.88	7.68	7.51	7.45	7.33	
13	*******	8.54	7.93	9.00	9.23	10.67	8.49	7.87	7.69	7.51	7.45	7.32	
14	*******	8.04	7.88	8.86	9.06	9.96	8.43	7.86	7.70	7.50	7.44	7.31	
15	*******	7.90	7.86	8.93	8.94	10.05	8.43	7.86	7.70	7.56	7.44	7.31	
16	*******	7.84	7.78	8.91	9.24	10.58	8.42	7.85	7.70	7.55	7.44	7.30	
17	*******	7.75	7.71	8.79	8.91	10.23	8.50	7.84	7.69	7.52	7.43	7.29	
18	*******	7.72	7.70	8.62	8.99	14.06	8.33	7.82	7.66	7.50	7.43	7.28	
19	*******	7.70	7.70	8.60	8.77	13.53	8.32	7.81	7.66	7.50	7.42	7.25	
20	*******	7.68	8.30	9.88	10.19	12.69	8.32	7.80	7.65	7.49	7.41	7.26	
21	*******	7.84	9.44	9.74	9.15	11.51	8.34	7.79	7.64	7.49	7.40	7.26	
22	*******	7.80	10.00	9.50	8.84	10.53	8.26	7.94	7.64	7.49	7.39	7.27	
23	*******	7.77	10.01	9.13	8.71	10.01	8.20	7.99	7.63	7.50	7.39	7.25	
24	*******	7.70	10.70	8.89	8.65	9.66	8.16	7.86	7.60	7.52	7.38	7.25	
25	*******	7.65	11.48	8.77	8.69	9.58	8.15	7.86	7.59	7.50	7.37	7.27	
26	*******	7.60	9.57	8.60	8.80	9.34	8.13	7.87	7.59	7.55	7.37	7.32	
27	*******	7.58	9.01	8.51	8.73	9.23	8.11	7.91	7.59	7.96	7.36	7.40	
28	*******	7.56	8.76	8.50	8.84	9.13	8.09	7.88	7.58	7.75	7.35	7.44	
29	*******	7.56	8.62	8.52	8.98	9.05	8.06	7.79	7.58	7.66		7.35	
30	*******	7.62	8.50	8.48	9.82	8.96	8.04	7.79	7.57	7.88		7.36	
31		7.66		8.70	11.06		8.05		7.57	7.68		7.56	
Mean	*******	7.76	8.56	9.03	9.83	10.55	8.53	7.91	7.67	7.57	7.45	7.33	
Max	*******	8.87	11.48	10.92	12.27	14.06	9.56	8.17	7.77	7.96	7.60	7.56	14.06
Min	*******	7.50	7.59	8.14	8.65	8.96	8.04	7.79	7.57	7.49	7.35	7.25	*******

Annual Max Momentary Gage Height 14.60 M (MSL), at 12.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 7.16 M (MSL), River Bed 6.55 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	4.20	5.80	28.90	100.30	156.35	74.32	21.10	9.40	5.40	6.00	1.00	
2	*******	4.00	5.80	29.50	149.75	206.40	68.80	18.70	9.40	5.20	5.40	0.80	
3	*******	5.20	26.80	25.60	201.45	133.40	50.40	16.90	9.40	5.20	5.00	0.80	
4	*******	8.00	52.80	23.20	152.50	92.30	53.20	16.90	9.20	5.00	4.40	1.00	
5	*******	6.20	41.60	21.40	165.15	97.30	53.60	16.60	9.00	5.00	4.20	0.60	
6	*******	5.60	26.50	20.20	208.06	130.30	48.40	16.00	8.80	5.00	4.00	1.00	
7	*******	6.40	19.30	132.88	217.02	168.45	47.60	14.80	8.40	4.80	3.80	2.40	
8	*******	5.80	15.40	142.60	177.25	183.85	39.60	13.90	8.20	4.60	3.60	1.60	
9	*******	5.00	12.40	107.30	111.80	117.80	36.95	13.30	8.80	4.60	3.40	2.20	
10	*******	17.80	10.60	100.80	111.80	88.80	39.60	13.00	8.40	4.40	3.40	1.20	
11	*******	13.90	23.80	95.30	79.08	75.26	41.60	12.70	7.80	4.40	3.20	0.80	
12	*******	44.80	18.10	62.95	70.15	102.30	32.75	12.40	7.60	4.20	3.00	0.60	
13	*******	32.40	13.90	50.00	59.35	129.30	30.70	12.10	7.80	4.20	3.00	0.40	
14	*******	17.20	12.40	44.40	52.40	93.80	28.90	11.80	8.00	4.00	2.80	0.20	
15	*******	13.00	11.80	47.20	47.60	98.30	28.90	11.80	8.00	5.20	2.80	0.20	
16	*******	11.20	9.60	46.40	59.80	124.80	28.60	11.50	8.00	5.00	2.80	0.00	
17	*******	9.00	8.20	41.60	46.40	107.30	31.00	11.20	7.80	4.40	2.60	0.00	
18	*******	8.40	8.00	35.20	49.60	326.40	25.90	10.60	7.20	4.00	2.60	0.00	
19	*******	8.00	8.00	34.50	40.80	291.95	25.60	10.30	7.20	4.00	2.40	0.00	
20	*******	7.60	25.00	89.80	105.30	240.83	25.60	10.00	7.00	3.80	2.20	0.00	
21	*******	11.20	68.80	82.92	56.00	175.05	26.20	9.80	6.80	3.80	2.00	0.00	
22	*******	10.00	95.80	71.50	43.60	122.30	23.80	14.20	6.80	3.80	1.80	0.00	
23	*******	9.40	96.30	55.20	38.40	96.30	22.00	15.70	6.60	4.00	1.80	0.00	
24	*******	8.00	130.80	45.60	36.25	79.08	20.80	11.80	6.00	4.40	1.60	0.00	
25	*******	7.00	173.40	40.80	37.65	75.26	20.50	11.80	5.80	4.00	1.40	0.00	
26	*******	6.00	74.79	34.50	42.00	64.30	19.90	12.10	5.80	5.00	1.40	0.40	
27	*******	5.60	50.40	31.35	39.20	59.35	19.30	13.30	5.80	14.80	1.20	2.00	
28	*******	5.20	40.40	31.00	43.60	55.20	18.70	12.40	5.60	9.00	1.00	2.80	
29	*******	5.20	35.20	31.70	49.20	52.00	17.80	9.80	5.60	7.20		1.00	
30	*******	6.40	31.00	30.40	86.80	48.40	17.20	9.80	5.40	12.40		1.20	
31		7.20		38.00	150.30		17.50		5.40	7.60		5.20	
Total	*******	314.90	1152.69	1672.70	2828.56	3792.43	1035.72	396.30	231.00	168.40	82.80	27.40	******** CMSDAY
Mean	*******	10.16	38.42	53.96	91.24	126.41	33.41	13.21	7.45	5.43	2.96	0.88	******** CMS
Max	*******	44.80	173.40	142.60	217.02	326.40	74.32	21.10	9.40	14.80	6.00	5.20	326.40 CMS
Min	*******	4.00	5.80	20.20	36.25	48.40	17.20	9.80	5.40	3.80	1.00	0.00	******** CMS
Runoff	*******	27.207	99.592	144.521	244.388	327.666	89.486	34.240	19.958	14.550	7.154	2.367	******** MCM

Momentary Peak 361.50 CMS, at 14.60 M (MSL), at 12.00 Hours, on Sep 18, 1994

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield 481.36 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENNINSULA EAST COAST

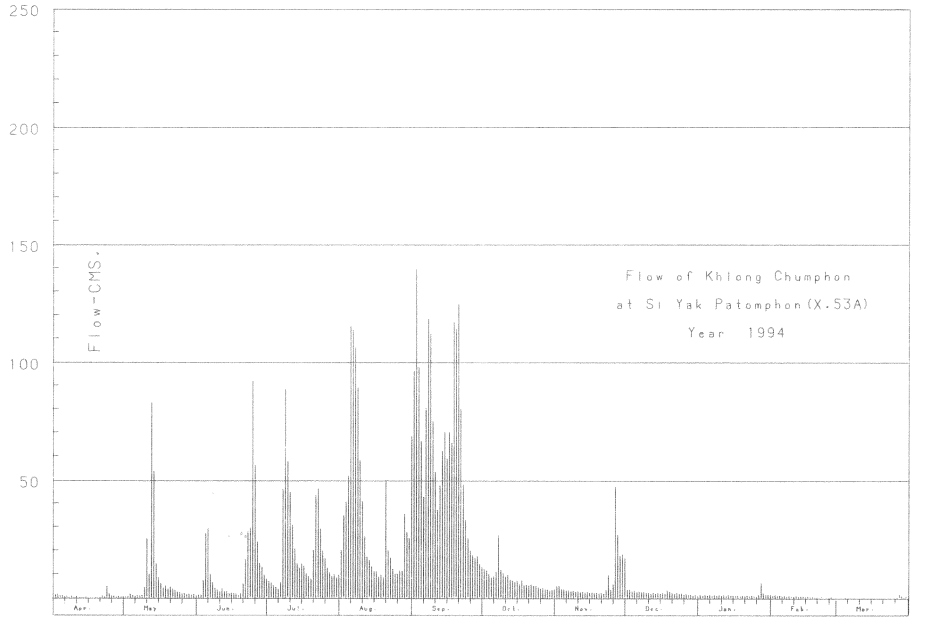
Khlong Chumphon at Ban Wang Phai, Chumphon (X.53A)

Location	Lat. 10°-30'-20" N., Long. 99°-07'-12" E., on left bank about 9.50 kilometers downstream from X.53 station, Tambon Wang Phai, 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 good. Stage-discharge relation defined by 38 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.15	2.02	2.09	2.68	3.64	7.27	3.08	2.55	2.39	2.11	2.09	1.96	
2	2.12	2.02	2.12	2.66	4.51	8.90	3.07	2.52	2.36	2.11	2.09	1.96	
3	2.07	2.12	2.71	2.53	4.80	7.32	2.93	2.42	2.31	2.11	2.08	1.96	
4	2.05	2.10	4.10	2.46	5.37	6.03	2.85	2.37	2.31	2.11	2.07	1.96	
5	2.04	2.05	4.21	2.42	7.99	4.93	2.85	2.35	2.28	2.11	2.07	1.96	
6	2.03	2.05	2.95	2.67	7.93	6.60	3.00	2.33	2.27	2.10	2.05	1.96	
7	2.02	2.07	2.64	5.07	7.67	8.12	4.06	2.31	2.27	2.10	2.05	1.96	
8	2.02	2.07	2.46	6.93	6.98	7.87	3.09	2.30	2.26	2.10	2.05	1.96	
9	2.01	2.46	2.35	5.65	5.65	6.37	2.96	2.30	2.26	2.10	2.05	1.96	
10	2.01	3.97	2.28	5.01	4.81	5.44	2.88	2.28	2.22	2.09	2.05	1.96	
11	2.00	2.92	2.40	4.30	4.03	4.62	2.90	2.27	2.21	2.09	2.04	1.95	
12	2.00	6.71	2.29	3.69	3.45	5.15	2.78	2.26	2.21	2.09	2.04	1.95	
13	1.99	5.44	2.26	3.27	3.38	5.85	2.71	2.25	2.20	2.09	2.03	1.95	
14	1.99	3.27	2.19	3.12	3.16	6.18	2.69	2.25	2.21	2.09	2.03	1.95	
15	1.98	2.81	2.18	3.27	3.05	5.69	2.71	2.24	2.21	2.08	2.03	1.95	
16	1.98	2.60	2.18	3.17	3.02	6.19	2.61	2.23	2.20	2.08	2.03	1.95	
17	1.97	2.46	2.15	2.97	2.86	6.00	2.72	2.22	2.20	2.08	2.02	1.95	
18	1.96	2.51	2.11	2.85	2.90	8.05	2.58	2.22	2.32	2.07	2.02	1.95	
19	1.95	2.42	2.16	2.80	2.85	7.96	2.56	2.21	2.30	2.07	2.01	1.95	
20	1.95	2.47	2.62	3.64	5.26	8.35	2.57	2.20	2.20	2.07	2.01	1.95	
21	2.08	2.42	3.38	4.94	3.64	6.58	2.57	2.19	2.20	2.07	2.01	1.95	
22	1.99	2.32	4.10	5.10	3.45	5.19	2.56	2.34	2.20	2.07	2.00	1.97	
23	2.53	2.28	4.24	4.22	3.09	4.39	2.52	2.93	2.19	2.07	2.00	1.96	
24	2.16	2.22	7.09	3.63	2.96	3.99	2.49	2.35	2.18	2.07	1.99	1.96	
25	2.07	2.19	5.58	3.43	2.93	3.66	2.44	2.61	2.16	2.05	1.99	1.96	
26	2.02	2.17	3.89	3.14	3.04	3.50	2.42	5.13	2.15	2.09	1.98	1.96	
27	2.02	2.15	3.26	2.97	3.05	3.45	2.40	4.07	2.15	2.65	1.97	2.15	
28	2.02	2.13	3.17	2.88	4.53	3.48	2.36	3.48	2.11	2.18	1.96	2.03	
29	2.02	2.12	2.90	2.92	4.14	3.26	2.34	3.52	2.10	2.13		2.01	
30	2.00	2.12	2.80	2.84	3.97	3.14	2.34	3.44	2.08	2.11		2.01	
31		2.10		2.90	6.10		2.37		2.07	2.10		2.07	
Mean	2.04	2.61	3.03	3.55	4.33	5.78	2.72	2.60	2.22	2.11	2.03	1.97	
Max	2.53	6.71	7.09	6.93	7.99	8.90	4.06	5.13	2.39	2.65	2.09	2.15	8.90
Min	1.95	2.02	2.09	2.42	2.85	3.14	2.34	2.19	2.07	2.05	1.96	1.95	1.95

Annual Max Momentary Gage Height 9.08 M (MSL), at 9.00 Hours, on Sep 2, 1994
Zero Gage at Bottom Elevation 1.52 M (MSL), River Bed 1.45 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.90	0.86	1.42	7.16	20.30	96.75	12.32	5.65	4.01	1.58	1.42	0.42	
2	1.66	0.86	1.66	6.92	35.39	139.90	12.18	5.32	3.74	1.58	1.42	0.42	
3	1.26	1.66	7.52	5.43	40.90	98.00	10.29	4.30	3.29	1.58	1.34	0.42	
4	1.10	1.50	27.70	4.70	52.37	66.99	9.25	3.83	3.29	1.58	1.26	0.42	
5	1.02	1.10	29.69	4.30	115.33	43.40	9.25	3.65	3.02	1.58	1.26	0.42	
6	0.94	1.10	10.55	7.04	113.71	80.60	11.20	3.47	2.93	1.50	1.10	0.42	
7	0.86	1.26	6.68	46.20	106.82	118.84	27.02	3.29	2.93	1.50	1.10	0.42	
8	0.86	1.26	4.70	88.52	89.72	112.09	12.46	3.20	2.84	1.50	1.10	0.42	
9	0.78	4.70	3.65	58.40	58.40	75.08	10.68	3.20	2.84	1.50	1.10	0.42	
10	0.78	25.52	3.02	45.00	41.09	53.84	9.64	3.02	2.48	1.42	1.10	0.42	
11	0.70	10.16	4.10	31.40	26.51	37.48	9.90	2.93	2.39	1.42	1.02	0.35	
12	0.70	83.24	3.11	21.05	17.50	47.80	8.36	2.84	2.39	1.42	1.02	0.35	
13	0.63	53.84	2.84	14.98	16.52	62.85	7.52	2.75	2.30	1.42	0.94	0.35	
14	0.63	14.98	2.22	12.88	13.44	70.52	7.28	2.75	2.39	1.42	0.94	0.35	
15	0.56	8.73	2.14	14.98	11.90	59.28	7.52	2.66	2.39	1.34	0.94	0.35	
16	0.56	6.20	2.14	13.58	11.48	70.76	6.32	2.57	2.30	1.34	0.94	0.35	
17	0.49	4.70	1.90	10.81	9.38	66.30	7.64	2.48	2.30	1.34	0.86	0.35	
18	0.42	5.21	1.58	9.25	9.90	116.95	5.98	2.48	3.38	1.26	0.86	0.35	
19	0.35	4.30	1.98	8.60	9.25	114.52	5.76	2.39	3.20	1.26	0.78	0.35	
20	0.35	4.80	6.44	20.30	50.06	125.05	5.87	2.30	2.30	1.26	0.78	0.35	
21	1.34	4.30	16.52	43.60	20.30	80.12	5.87	2.22	2.30	1.26	0.78	0.35	
22	0.63	3.38	27.70	46.80	17.50	48.60	5.76	3.56	2.30	1.26	0.70	0.49	
23	5.43	3.02	30.26	29.88	12.46	33.11	5.32	10.29	2.22	1.26	0.70	0.42	
24	1.98	2.48	92.36	20.15	10.68	25.84	5.00	3.65	2.14	1.26	0.63	0.42	
25	1.26	2.22	56.86	17.22	10.29	20.60	4.50	6.32	1.98	1.10	0.63	0.42	
26	0.86	2.06	24.24	13.16	11.76	18.20	4.30	47.40	1.90	1.42	0.56	0.42	
27	0.86	1.90	14.84	10.81	11.90	17.50	4.10	27.19	1.90	6.80	0.49	1.90	
28	0.86	1.74	13.58	9.64	35.77	17.92	3.74	17.92	1.58	2.14	0.42	0.94	
29	0.86	1.66	9.90	10.16	28.42	14.84	3.56	18.50	1.50	1.74		0.78	
30	0.70	1.66	8.60	9.12	25.52	13.16	3.56	17.36	1.34	1.58		0.78	
31		1.50		9.90	68.60		3.83		1.26	1.50		1.26	
Total	31.33	261.90	419.90	651.94	1103.17	1946.89	245.98	219.49	77.13	50.12	26.19	15.88	5049.92 CMSDAY
Mean	1.04	8.45	14.00	21.03	35.59	64.90	7.93	7.32	2.49	1.62	0.94	0.51	13.84 CMS
Max	5.43	83.24	92.36	88.52	115.33	139.90	27.02	47.40	4.01	6.80	1.42	1.90	139.90 CMS
Min	0.35	0.86	1.42	4.30	9.25	13.16	3.56	2.22	1.26	1.10	0.42	0.35	0.35 CMS
Runoff	2.707	22.628	36.279	56.328	95.314	168.211	21.253	18.964	6.664	4.330	2.263	1.372	436.313 MCM

Momentary Peak 144.76 CMS, at 9.08 M (MSL), at 9.00 Hours, on Sep 2, 1994

Runoff Yield 45.36 Liters/Second/Square KM, Momentary Peak Yield 474.62 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENNINSULA EAST COAST

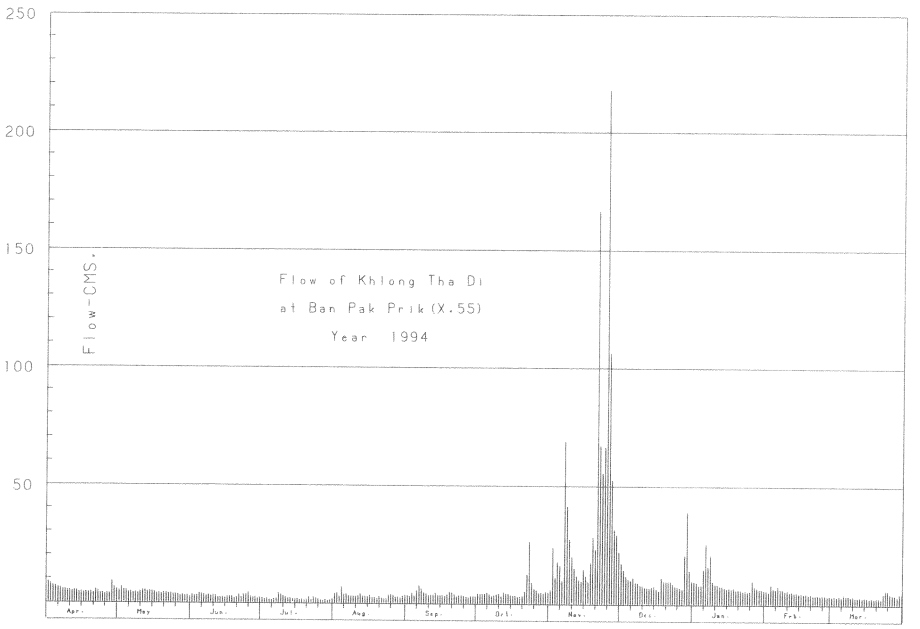
Khlong Tha Di at Ban Pak Prik, Nakhon Si Thammarat (X.55)

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 good. Stage-discharge relation defined by 33 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.61	1.26	1.05	0.92	1.15	1.07	1.12	1.29	2.19	1.66	1.28	1.06	
2	1.52	1.37	1.04	0.91	1.14	1.01	1.15	2.57	1.99	1.65	1.26	1.06	
3	1.47	1.28	1.02	0.90	1.02	1.14	1.11	1.80	1.85	1.49	1.56	1.05	
4	1.41	1.24	1.15	0.88	1.39	1.05	1.15	2.20	1.75	1.54	1.37	1.05	
5	1.38	1.19	1.11	0.86	1.11	1.28	1.20	2.12	1.72	2.03	1.37	1.04	
6	1.33	1.17	1.05	0.87	1.09	1.49	1.10	1.67	1.78	2.64	1.46	1.15	
7	1.30	1.15	1.04	0.93	1.05	1.32	1.06	4.02	1.64	2.08	1.38	1.09	
8	1.26	1.15	1.03	1.12	1.00	1.19	1.05	3.32	1.60	2.39	1.32	1.06	
9	1.25	1.15	1.03	1.10	1.04	1.11	1.13	2.74	1.53	1.66	1.29	1.05	
10	1.23	1.18	1.04	1.00	0.99	1.08	1.12	2.35	1.48	1.59	1.28	1.04	
11	1.22	1.27	1.03	0.96	1.06	1.06	1.04	2.03	1.45	1.54	1.25	1.03	
12	1.26	1.27	0.98	0.94	1.10	1.10	1.21	1.85	1.42	1.50	1.24	1.02	
13	1.21	1.18	0.94	0.91	1.04	1.15	1.13	1.72	1.38	1.47	1.22	1.01	
14	1.18	1.24	0.98	0.90	1.00	1.08	1.15	1.70	1.45	1.44	1.20	1.00	
15	1.16	1.18	0.95	0.89	1.02	1.08	1.06	2.00	1.45	1.40	1.18	1.00	
16	1.17	1.17	0.97	0.88	1.04	1.05	1.07	1.83	1.34	1.38	1.17	0.99	
17	1.15	1.14	1.02	0.87	0.98	1.06	1.04	1.67	1.30	1.39	1.16	0.98	
18	1.17	1.12	0.97	0.86	0.95	1.08	1.02	2.20	1.80	1.38	1.15	0.98	
19	1.16	1.12	0.94	0.85	0.93	1.22	1.00	2.78	1.66	1.34	1.14	0.98	
20	1.15	1.14	0.95	0.85	0.99	1.16	1.06	2.53	1.70	1.32	1.13	0.97	
21	1.29	1.17	1.06	0.97	0.95	1.09	1.22	5.04	1.65	1.31	1.12	0.97	
22	1.20	1.13	0.98	0.86	0.92	1.03	1.89	3.98	1.69	1.29	1.11	0.96	
23	1.14	1.11	1.06	0.96	0.90	1.03	2.68	3.73	1.55	1.27	1.10	1.20	
24	1.12	1.10	1.10	0.94	1.08	1.08	1.60	3.97	1.49	1.26	1.09	1.30	
25	1.10	1.07	1.14	0.87	1.08	1.02	1.37	5.32	1.43	1.24	1.08	1.28	
26	1.10	1.06	1.01	0.86	1.05	1.03	1.27	4.55	1.39	1.72	1.08	1.19	
27	1.12	1.05	0.97	0.83	1.00	1.00	1.20	3.64	1.36	1.47	1.07	1.14	
28	1.64	1.04	0.96	0.85	0.97	1.01	1.17	2.95	2.39	1.38	1.06	1.09	
29	1.36	1.04	0.93	0.84	0.97	1.05	1.18	2.83	3.25	1.37		1.06	
30	1.27	1.03	0.93	0.83	1.01	1.00	1.20	2.45	1.97	1.33		1.14	
31		1.01		0.87	1.06		1.22		1.71	1.30		1.18	
Mean	1.26	1.15	1.01	0.91	1.03	1.10	1.22	2.76	1.69	1.54	1.22	1.07	
Max	1.64	1.37	1.15	1.12	1.39	1.49	2.68	5.32	3.25	2.64	1.56	1.30	5.32
Min	1.10	1.01	0.93	0.83	0.90	1.00	1.00	1.29	1.30	1.24	1.06	0.96	0.83

Annual Max Momentary Gage Height 6.40 M (A.D), at 18.00 Hours, on Nov 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.57 M (A.D)
Left Bank Elevation 4.70 M (A.D)
Right Bank Elevation 4.20 M (A.D), Drainage Area 105 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.10	5.60	3.50	2.20	4.50	3.70	4.20	5.90	17.64	9.60	5.80	3.60	
2	8.20	6.70	3.40	2.10	4.40	3.10	4.50	24.26	14.44	9.50	5.60	3.60	
3	7.70	5.80	3.20	2.00	3.20	4.40	4.10	11.40	12.20	7.90	8.60	3.50	
4	7.10	5.40	4.50	1.80	6.90	3.50	4.50	17.80	10.70	8.40	6.70	3.50	
5	6.80	4.90	4.10	1.60	4.10	5.80	5.00	16.52	10.28	15.08	6.70	3.40	
6	6.30	4.70	3.50	1.70	3.90	7.90	4.00	9.70	11.12	25.56	7.60	4.50	
7	6.00	4.50	3.40	2.30	3.50	6.20	3.60	69.20	9.40	15.88	6.80	3.90	
8	5.60	4.50	3.30	4.20	3.00	4.90	3.50	41.64	9.00	21.03	6.20	3.60	
9	5.50	4.50	3.30	4.00	3.40	4.10	4.30	27.46	8.30	9.60	5.90	3.50	
10	5.30	4.80	3.40	3.00	2.90	3.80	4.20	20.35	7.80	8.90	5.80	3.40	
11	5.20	5.70	3.30	2.60	3.60	3.60	3.40	15.08	7.50	8.40	5.50	3.30	
12	5.60	5.70	2.80	2.40	4.00	4.00	5.10	12.20	7.20	8.00	5.40	3.20	
13	5.10	4.80	2.40	2.10	3.40	4.50	4.30	10.28	6.80	7.70	5.20	3.10	
14	4.80	5.40	2.80	2.00	3.00	3.80	4.50	10.00	7.50	7.40	5.00	3.00	
15	4.60	4.80	2.50	1.90	3.20	3.80	3.60	14.60	7.50	7.00	4.80	3.00	
16	4.70	4.70	2.70	1.80	3.40	3.50	3.70	11.88	6.40	6.80	4.70	2.90	
17	4.50	4.40	3.20	1.70	2.80	3.60	3.40	9.70	6.00	6.90	4.60	2.80	
18	4.70	4.20	2.70	1.60	2.50	3.80	3.20	17.80	11.40	6.80	4.50	2.80	
19	4.60	4.20	2.40	1.50	2.30	5.20	3.00	28.22	9.60	6.40	4.40	2.80	
20	4.50	4.40	2.50	1.50	2.90	4.60	3.60	23.54	10.00	6.20	4.30	2.70	
21	5.90	4.70	3.60	2.70	2.50	3.90	5.20	166.40	9.50	6.10	4.20	2.70	
22	5.00	4.30	2.80	1.60	2.20	3.30	12.84	66.96	9.90	5.90	4.10	2.60	
23	4.40	4.10	3.60	2.60	2.00	3.30	26.32	55.71	8.50	5.70	4.00	5.00	
24	4.20	4.00	4.00	2.40	3.80	3.80	9.00	66.44	7.90	5.60	3.90	6.00	
25	4.00	3.70	4.40	1.70	3.80	3.20	6.70	218.20	7.30	5.40	3.80	5.80	
26	4.00	3.60	3.10	1.60	3.50	3.30	5.70	106.70	6.90	10.28	3.80	4.90	
27	4.20	3.50	2.70	1.30	3.00	3.00	5.00	52.44	6.60	7.70	3.70	4.40	
28	9.40	3.40	2.60	1.50	2.70	3.10	4.70	31.85	21.03	6.80	3.60	3.90	
29	6.60	3.40	2.30	1.40	2.70	3.50	4.80	29.23	39.50	6.70		3.60	
30	5.70	3.30	2.30	1.30	3.10	3.00	5.00	22.10	14.12	6.30		4.40	
31		3.10		1.70	3.60		5.20		10.14	6.00		4.80	
Total	169.30	140.80	94.30	63.80	103.80	121.20	170.16	1213.56	332.17	275.53	145.20	114.20	2944.02 CMSDAY
Mean	5.64	4.54	3.14	2.06	3.35	4.04	5.49	40.45	10.72	8.89	5.19	3.68	8.07 CMS
Max	9.40	6.70	4.50	4.20	6.90	7.90	26.32	218.20	39.50	25.56	8.60	6.00	218.20 CMS
Min	4.00	3.10	2.30	1.30	2.00	3.00	3.00	5.90	6.00	5.40	3.60	2.60	1.30 CMS
Runoff	14.628	12.165	8.148	5.512	8.968	10.472	14.702	104.852	28.699	23.806	12.545	9.867	254.363 MCM

Momentary Peak 660.00 CMS, at 6.40 M (A.D), at 18.00 Hours, on Nov 25, 1994
Runoff Yield 76.82 Liters/Second/Square KM, Momentary Peak Yield 6285.71 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

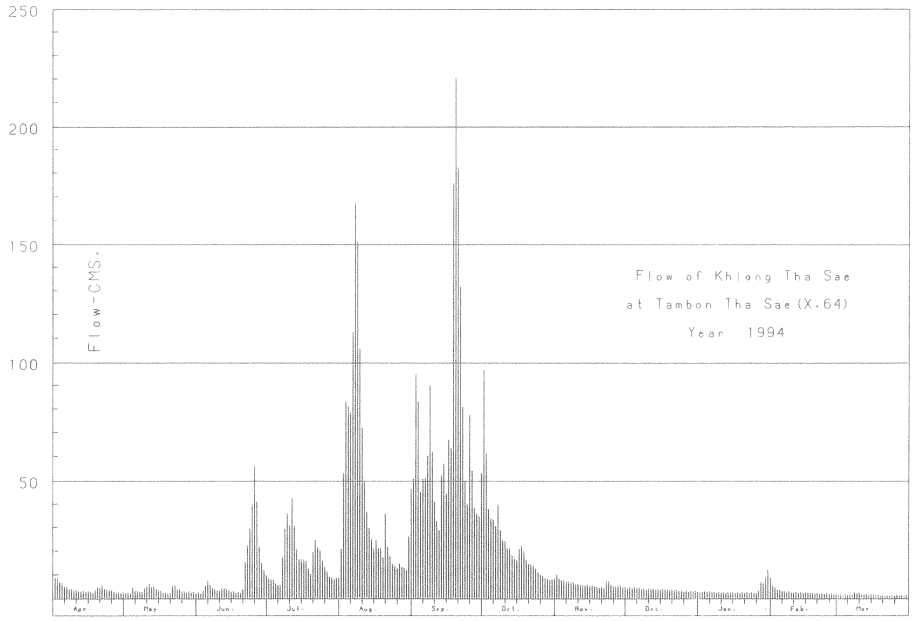
Khlong Tha Sae at Tha Sae, Chumphon (X.64)

Location	Lat. 10°39'49" N., Long. 99°10'17" E., on left bank near the Land Cooperation Office, Tambon Tha Sae,Amphoe Tha Sae, Chumphon.
Drainage Area	957 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+8.04 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 6 meters from the top staff gage.
Elevation	+19.233 m.(M.S.L.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1973 to date.
Rating Operation	
Period of Rating	1974-1975, 1982 to date.
Rated by Float	-
Rated by Current Meter	1974-1975, 1982 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.66	8.25	8.26	8.65	9.18	10.33	11.84	8.74	8.42	8.30	8.50	8.20	
2	8.69	8.24	8.24	8.64	10.42	11.78	10.70	8.64	8.42	8.30	8.42	8.20	
3	8.58	8.24	8.32	8.62	11.42	11.41	9.84	8.62	8.42	8.30	8.37	8.20	
4	8.53	8.41	8.49	8.55	11.36	10.14	9.69	8.61	8.43	8.30	8.34	8.19	
5	8.46	8.33	8.61	8.50	11.26	10.33	9.66	8.59	8.42	8.30	8.33	8.19	
6	8.42	8.30	8.49	8.48	12.28	10.35	9.55	8.58	8.41	8.28	8.31	8.19	
7	8.38	8.29	8.42	9.03	13.81	10.65	9.93	8.57	8.40	8.27	8.29	8.20	
8	8.37	8.27	8.35	9.52	13.36	11.63	9.50	8.56	8.38	8.27	8.29	8.26	
9	8.35	8.41	8.33	9.77	12.09	10.72	9.31	8.52	8.37	8.27	8.28	8.24	
10	8.33	8.45	8.32	9.58	11.06	9.97	9.31	8.51	8.39	8.27	8.27	8.23	
11	8.32	8.54	8.39	10.04	10.28	9.63	9.17	8.50	8.39	8.26	8.27	8.21	
12	8.31	8.45	8.42	9.55	9.81	9.50	9.18	8.49	8.38	8.26	8.26	8.20	
13	8.30	8.43	8.38	9.16	9.52	10.39	9.05	8.49	8.37	8.26	8.26	8.20	
14	8.29	8.39	8.35	9.00	9.34	10.54	9.01	8.49	8.36	8.27	8.26	8.19	
15	8.29	8.33	8.31	8.98	9.17	10.11	8.97	8.47	8.38	8.26	8.26	8.19	
16	8.28	8.30	8.29	8.98	9.32	10.89	9.18	8.47	8.38	8.26	8.25	8.18	
17	8.28	8.27	8.27	8.97	9.19	10.76	9.21	8.46	8.38	8.26	8.25	8.17	
18	8.33	8.25	8.25	8.83	9.18	14.04	9.14	8.43	8.36	8.26	8.24	8.16	
19	8.44	8.24	8.25	8.75	9.03	15.19	8.98	8.43	8.35	8.26	8.24	8.15	
20	8.42	8.24	8.35	9.11	9.76	14.21	8.92	8.43	8.35	8.26	8.24	8.15	
21	8.48	8.45	8.94	9.33	9.21	12.84	8.90	8.42	8.35	8.26	8.23	8.14	
22	8.39	8.50	9.23	9.21	9.04	11.34	8.89	8.58	8.34	8.26	8.23	8.14	
23	8.34	8.39	9.53	9.14	8.93	10.30	8.83	8.61	8.33	8.26	8.23	8.15	
24	8.34	8.37	9.92	8.98	8.88	9.92	8.78	8.50	8.32	8.26	8.22	8.15	
25	8.32	8.33	10.52	8.86	8.85	11.24	8.74	8.47	8.32	8.26	8.22	8.15	
26	8.29	8.29	9.97	8.78	8.94	10.44	8.70	8.44	8.32	8.31	8.21	8.15	
27	8.26	8.27	9.20	8.70	8.87	9.87	8.68	8.47	8.31	8.57	8.21	8.16	
28	8.25	8.28	8.94	8.66	8.84	9.76	8.64	8.48	8.31	8.54	8.20	8.15	
29	8.25	8.27	8.80	8.64	8.81	9.73	8.63	8.44	8.31	8.70		8.15	
30	8.25	8.27	8.73	8.66	9.39	10.41	8.62	8.43	8.30	8.81		8.15	
31		8.26		8.68	10.18		8.64		8.30	8.67		8.23	
Mean	8.37	8.33	8.70	8.98	10.03	10.95	9.23	8.51	8.36	8.33	8.27	8.18	
Max	8.69	8.54	10.52	10.04	13.81	15.19	11.84	8.74	8.43	8.81	8.50	8.26	15.19
Min	8.25	8.24	8.24	8.48	8.81	9.50	8.62	8.42	8.30	8.26	8.20	8.14	8.14

Annual Max Momentary Gage Height 15.34 M (MSL), at 8.00 Hours, on Sep 19, 1994
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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.84	2.60	2.72	8.65	21.50	50.90	97.40	10.56	4.80	3.20	6.00	2.00	
2	9.41	2.48	2.48	8.46	53.60	95.30	62.00	8.46	4.80	3.20	4.80	2.00	
3	7.36	2.48	3.46	8.08	83.60	83.30	38.00	8.08	4.80	3.20	4.11	2.00	
4	6.51	4.65	5.85	6.85	81.80	45.64	34.25	7.89	4.95	3.20	3.72	1.89	
5	5.40	3.59	7.89	6.00	78.80	50.90	33.50	7.53	4.80	3.20	3.59	1.89	
6	4.80	3.20	5.85	5.70	112.80	51.50	30.75	7.36	4.65	2.96	3.33	1.89	
7	4.24	3.08	4.80	17.75	167.77	60.50	40.25	7.19	4.50	2.84	3.08	2.00	
8	4.11	2.84	3.85	30.00	151.16	90.19	29.50	7.02	4.24	2.84	3.08	2.72	
9	3.85	4.65	3.59	36.25	106.15	62.60	24.75	6.34	4.11	2.84	2.96	2.48	
10	3.59	5.25	3.46	31.50	72.80	41.25	24.75	6.17	4.37	2.84	2.84	2.36	
11	3.46	6.68	4.37	43.04	49.44	32.75	21.25	6.00	4.37	2.72	2.84	2.12	
12	3.33	5.25	4.80	30.75	37.25	29.50	21.50	5.85	4.24	2.72	2.72	2.00	
13	3.20	4.95	4.24	21.00	30.00	52.70	18.25	5.85	4.11	2.72	2.72	2.00	
14	3.08	4.37	3.85	17.00	25.50	57.20	17.25	5.85	3.98	2.84	2.72	1.89	
15	3.08	3.59	3.33	16.50	21.25	44.86	16.25	5.55	4.24	2.72	2.72	1.89	
16	2.96	3.20	3.08	16.50	25.00	67.70	21.50	5.55	4.24	2.72	2.60	1.78	
17	2.96	2.84	2.84	16.25	21.75	63.80	22.25	5.40	4.24	2.72	2.60	1.67	
18	3.59	2.60	2.60	12.75	21.50	176.28	20.50	4.95	3.98	2.72	2.48	1.56	
19	5.10	2.48	2.60	10.80	17.75	220.60	16.50	4.95	3.85	2.72	2.48	1.45	
20	4.80	2.48	3.85	19.75	36.00	182.58	15.00	4.95	3.85	2.72	2.48	1.45	
21	5.70	5.25	15.50	25.25	22.25	132.44	14.50	4.80	3.85	2.72	2.36	1.34	
22	4.37	6.00	22.75	22.25	18.00	81.20	14.25	7.36	3.72	2.72	2.36	1.34	
23	3.72	4.37	30.25	20.50	15.25	50.00	12.75	7.89	3.59	2.72	2.36	1.45	
24	3.72	4.11	40.00	16.50	14.00	40.00	11.52	6.00	3.46	2.72	2.24	1.45	
25	3.46	3.59	56.60	13.50	13.25	78.20	10.56	5.55	3.46	2.72	2.24	1.45	
26	3.08	3.08	41.25	11.52	15.50	54.20	9.60	5.10	3.46	3.33	2.12	1.45	
27	2.72	2.84	22.00	9.60	13.75	38.75	9.22	5.55	3.33	7.19	2.12	1.56	
28	2.60	2.96	15.50	8.84	13.00	36.00	8.46	5.70	3.33	6.68	2.00	1.45	
29	2.60	2.84	12.00	8.46	12.25	35.25	8.27	5.10	3.33	9.60		1.45	
30	2.60	2.84	10.32	8.84	26.75	53.30	8.08	4.95	3.20	12.25		1.45	
31		2.72		9.22	46.68		8.46		3.20	9.03		2.36	
Total	128.24	113.86	345.68	518.06	1426.10	2159.39	721.07	189.50	125.05	119.32	81.67	55.79	5983.73 CMSDAY
Mean	4.27	3.67	11.52	16.71	46.00	71.98	23.26	6.32	4.03	3.85	2.92	1.80	16.39 CMS
Max	9.41	6.68	56.60	43.04	167.77	220.60	97.40	10.56	4.95	12.25	6.00	2.72	220.60 CMS
Min	2.60	2.48	2.48	5.70	12.25	29.50	8.08	4.80	3.20	2.72	2.00	1.34	1.34 CMS
Runoff	11.080	9.838	29.867	44.760	123.215	186.571	62.300	16.373	10.804	10.309	7.056	4.820	516.994 MCM

Momentary Peak 226.60 CMS, at 15.34 M (MSL), at 8.00 Hours, on Sep 19, 1994

Runoff Yield 17.13 Liters/Second/Square KM, Momentary Peak Yield 236.78 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

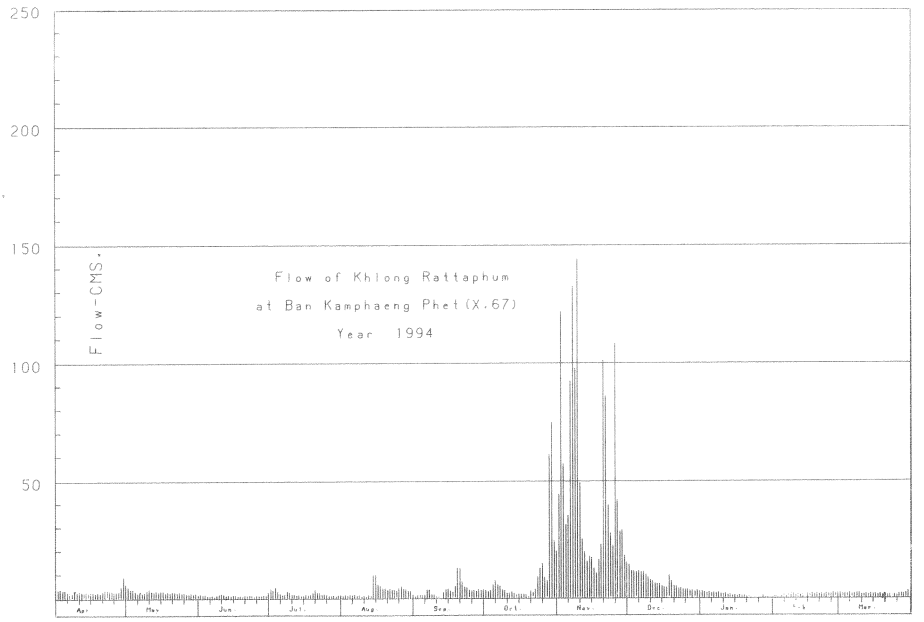
Khlong Rattaphum at Ban Kamphaeng Phet, Songkhla (X.67)

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 36 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.21	18.31	17.78	18.27	17.66	17.58	18.12	19.71	18.97	18.09	17.54	17.90	
2	18.17	18.22	17.75	18.12	17.69	17.61	18.10	20.60	18.87	17.99	17.50	17.89	
3	18.15	18.16	17.72	18.33	17.68	17.77	18.12	19.90	18.85	17.99	17.48	17.86	
4	18.12	18.10	17.67	18.03	17.69	17.66	18.46	19.47	18.85	17.98	17.48	17.90	
5	18.10	17.95	17.62	17.88	17.74	17.78	18.60	19.54	18.85	17.97	17.80	17.92	
6	17.99	17.95	17.58	17.79	17.71	18.21	18.47	20.32	18.85	17.95	17.82	17.85	
7	17.99	17.95	17.55	17.75	17.64	18.14	18.36	20.70	18.84	17.98	17.81	17.85	
8	18.05	17.93	17.56	18.11	17.60	17.84	18.21	20.38	18.79	17.97	17.96	17.98	
9	18.05	18.11	17.84	17.97	17.57	17.72	18.11	20.80	18.69	17.93	17.93	17.93	
10	18.05	18.17	17.83	17.85	17.55	17.60	17.97	19.79	18.64	17.90	17.79	17.83	
11	18.03	18.11	17.73	17.79	17.57	17.50	17.90	19.32	18.58	17.87	17.77	17.80	
12	17.99	18.05	17.68	17.74	17.67	17.45	18.07	19.17	18.52	17.80	17.79	17.80	
13	17.99	18.05	17.61	17.69	17.65	17.98	17.87	19.04	18.48	17.75	17.75	17.80	
14	17.99	18.05	17.68	17.68	18.75	18.22	17.78	19.12	18.47	17.69	17.75	17.83	
15	17.99	18.04	17.69	17.68	18.78	18.22	17.79	19.09	18.40	17.65	17.83	17.83	
16	17.98	18.04	17.61	17.68	18.47	18.10	17.77	18.90	18.30	17.63	17.86	17.82	
17	17.97	17.98	17.57	17.74	18.36	18.07	17.88	18.82	18.33	17.64	17.89	17.80	
18	17.95	17.99	17.56	17.72	18.28	18.40	17.73	19.07	18.77	17.64	17.88	17.76	
19	17.97	17.99	17.57	18.00	18.24	18.91	17.59	19.26	18.59	17.59	17.87	17.74	
20	18.10	17.99	17.57	18.13	18.19	18.92	18.08	20.41	18.41	17.54	17.86	17.75	
21	18.14	17.98	17.57	18.02	18.21	18.56	18.02	20.25	18.35	17.47	17.85	17.74	
22	18.18	17.98	17.66	17.92	18.19	18.36	18.18	19.63	18.27	17.43	17.88	17.73	
23	18.24	17.98	17.57	17.81	18.15	18.27	18.73	19.39	18.25	17.39	17.90	17.73	
24	18.13	17.96	17.57	17.76	18.13	18.19	18.90	19.26	18.25	17.36	17.92	17.70	
25	17.98	17.90	17.59	17.71	18.24	18.15	19.01	20.48	18.23	17.35	17.91	17.68	
26	17.98	17.88	17.69	17.66	18.38	18.13	18.70	19.66	18.18	17.38	17.95	17.83	
27	18.09	17.87	17.64	17.65	18.25	18.13	18.62	19.41	18.15	17.58	17.94	17.92	
28	18.36	17.87	17.63	17.60	18.17	18.18	19.95	19.41	18.10	17.47	17.90	17.84	
29	18.73	17.85	17.66	17.58	18.13	18.18	20.13	19.13	18.10	17.28		17.98	
30	18.44	17.84	17.96	17.60	18.07	18.16	19.31	19.01	18.12	17.22		18.07	
31		17.82		17.60	17.70		19.18		18.06	17.19		17.97	
Mean	18.10	18.00	17.66	17.83	18.00	18.07	18.38	19.63	18.49	17.67	17.81	17.84	
Max	18.73	18.31	17.96	18.33	18.78	18.92	20.13	20.80	18.97	18.09	17.96	18.07	20.80
Min	17.95	17.82	17.55	17.58	17.55	17.45	17.59	18.82	18.06	17.19	17.48	17.68	17.19

Annual Max Momentary Gage Height 20.90 M (MSL), at 6.00 Hours, on Nov 9, 1994
Zero Gage at Bottom Elevation 16.00 M (MSL), River Bed 16.51 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.07	4.79	1.74	4.49	1.38	1.14	3.44	44.63	14.31	3.24	1.02	2.20	
2	3.79	4.14	1.65	3.44	1.47	1.23	3.30	121.80	12.07	2.65	0.90	2.16	
3	3.65	3.72	1.56	4.97	1.44	1.71	3.44	57.20	11.65	2.65	0.84	2.04	
4	3.44	3.30	1.41	2.88	1.47	1.38	6.14	31.79	11.65	2.60	0.84	2.20	
5	3.30	2.45	1.26	2.12	1.62	1.74	7.60	35.24	11.65	2.55	1.80	2.30	
6	2.65	2.45	1.14	1.77	1.53	4.07	6.23	92.32	11.65	2.45	1.88	2.00	
7	2.65	2.45	1.05	1.65	1.32	3.58	5.24	133.00	11.44	2.60	1.84	2.00	
8	3.00	2.35	1.08	3.37	1.20	1.96	4.07	98.08	10.44	2.55	2.50	2.60	
9	3.00	3.37	1.96	2.55	1.11	1.56	3.37	144.40	8.86	2.35	2.35	2.35	
10	3.00	3.79	1.92	2.00	1.05	1.20	2.55	49.67	8.16	2.20	1.77	1.92	
11	2.88	3.37	1.59	1.77	1.11	0.90	2.20	25.06	7.38	2.08	1.71	1.80	
12	2.65	3.00	1.44	1.62	1.41	0.75	3.12	19.77	6.72	1.80	1.77	1.80	
13	2.65	3.00	1.23	1.47	1.35	2.60	2.08	16.04	6.32	1.65	1.65	1.80	
14	2.65	3.00	1.44	1.44	9.80	4.14	1.74	18.22	6.23	1.47	1.65	1.92	
15	2.65	2.94	1.47	1.44	10.28	4.14	1.77	17.34	5.60	1.35	1.92	1.92	
16	2.60	2.94	1.23	1.44	6.23	3.30	1.71	12.70	4.70	1.29	2.04	1.88	
17	2.55	2.60	1.11	1.62	5.24	3.12	2.12	11.02	4.97	1.32	2.16	1.80	
18	2.45	2.65	1.08	1.56	4.56	5.60	1.59	16.82	10.12	1.32	2.12	1.68	
19	2.55	2.65	1.11	2.70	4.28	12.93	1.17	22.80	7.49	1.17	2.08	1.62	
20	3.30	2.65	1.11	3.51	3.93	13.16	3.18	101.08	5.69	1.02	2.04	1.65	
21	3.58	2.60	1.11	2.82	4.07	7.16	2.82	85.80	5.15	0.81	2.00	1.62	
22	3.86	2.60	1.38	2.30	3.93	5.24	3.86	40.01	4.49	0.69	2.12	1.59	
23	4.28	2.60	1.11	1.84	3.65	4.49	9.48	28.07	4.35	0.58	2.20	1.59	
24	3.51	2.50	1.11	1.68	3.51	3.93	12.70	22.80	4.35	0.52	2.30	1.50	
25	2.60	2.20	1.17	1.53	4.28	3.65	15.26	108.64	4.21	0.50	2.25	1.44	
26	2.60	2.12	1.47	1.38	5.42	3.51	9.00	41.72	3.86	0.56	2.45	1.92	
27	3.24	2.08	1.32	1.35	4.35	3.51	7.88	28.97	3.65	1.14	2.40	2.30	
28	5.24	2.08	1.29	1.20	3.79	3.86	61.00	28.97	3.30	0.81	2.20	1.96	
29	9.48	2.00	1.38	1.14	3.51	3.86	75.18	18.53	3.30	0.36		2.60	
30	5.96	1.96	2.50	1.20	3.12	3.72	24.63	15.26	3.44	0.24		3.12	
31		1.88		1.20	1.50		20.08		3.06	0.19		2.55	
Total	103.83	86.23	41.42	65.45	102.91	113.14	307.95	1487.75	220.26	46.71	52.80	61.83	2690.28 CMSDAY
Mean	3.46	2.78	1.38	2.11	3.32	3.77	9.93	49.59	7.11	1.51	1.89	1.99	7.37 CMS
Max	9.48	4.79	2.50	4.97	10.28	13.16	75.18	144.40	14.31	3.24	2.50	3.12	144.40 CMS
Min	2.45	1.88	1.05	1.14	1.05	0.75	1.17	11.02	3.06	0.19	0.84	1.44	0.19 CMS
Runoff	8.971	7.450	3.579	5.655	8.891	9.775	26.607	128.542	19.030	4.036	4.562	5.342	232.440 MCM

Momentary Peak 156.00 CMS, at 20.90 M (MSL), at 6.00 Hours, on Nov 9, 1994

Runoff Yield 27.10 Liters/Second/Square KM, Momentary Peak Yield 573.53 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

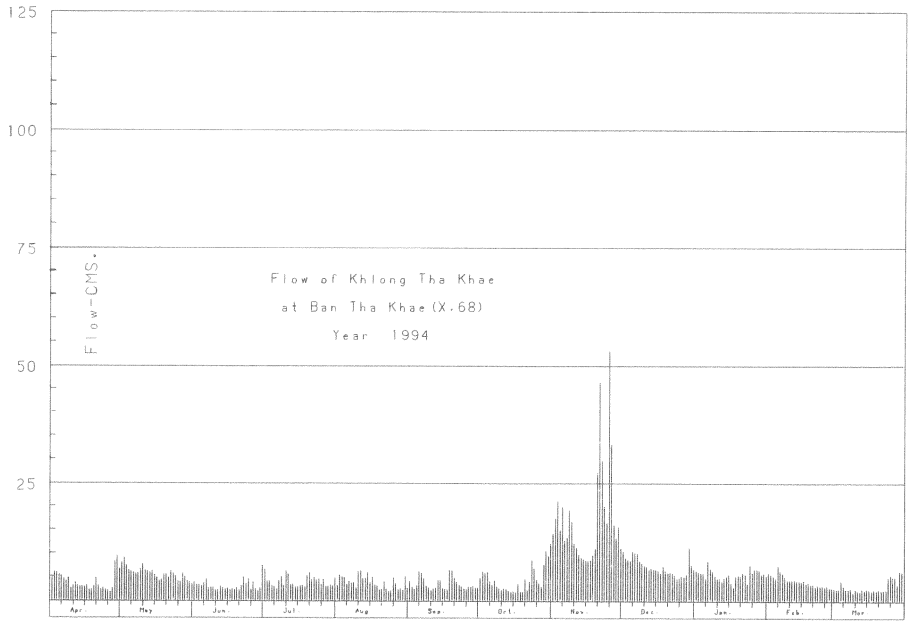
Khlong Tha Khae at Ban Tha Khae, Phatthalung (X.68)

Location	Lat.07°-34'-01" N., Long. 100°-03'-05" E., on left bank downstream side of the bridge of Phatthalung-Hat Yai Highway, Tambon Tha Khae, 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Tha Khae weir. Stage-discharge relation defined by 39 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.09	13.37	12.94	13.26	12.88	12.97	13.05	13.89	13.59	13.23	13.16	12.78	
2	13.20	13.48	12.90	13.00	13.12	12.85	13.21	14.13	13.48	13.18	13.13	12.77	
3	13.17	13.32	12.88	12.98	13.10	12.76	13.16	14.36	13.43	13.18	13.11	12.75	
4	13.15	13.24	12.87	12.88	13.06	12.89	13.20	13.96	13.43	13.15	13.04	13.00	
5	13.10	13.19	12.92	12.83	12.91	13.19	12.98	14.29	13.59	13.06	13.33	12.87	
6	13.05	13.19	13.04	12.79	12.97	13.18	12.88	13.78	13.56	13.40	13.20	12.75	
7	13.00	13.16	12.79	12.99	12.95	13.04	13.02	13.84	13.57	13.28	13.18	12.77	
8	13.04	13.15	12.83	13.10	12.94	12.87	12.86	14.23	13.42	13.20	13.08	12.78	
9	12.81	13.26	12.81	12.86	12.82	12.80	12.79	14.08	13.36	13.12	13.03	12.65	
10	12.85	13.34	12.74	13.22	13.19	12.74	12.76	13.73	13.33	13.06	13.02	12.78	
11	12.96	13.23	12.72	13.13	13.23	12.77	12.78	13.68	13.30	13.04	13.00	12.69	
12	12.86	13.20	12.86	12.90	13.04	12.80	12.80	13.53	13.25	12.99	13.03	12.71	
13	12.86	13.19	12.79	12.89	13.07	13.02	12.70	13.49	13.26	13.05	12.98	12.75	
14	12.83	13.20	12.78	12.84	13.17	13.00	12.68	13.44	13.26	13.11	13.00	12.74	
15	12.84	13.14	12.78	12.82	12.94	12.81	12.67	13.43	13.23	13.13	12.96	12.75	
16	12.86	13.05	12.76	12.88	13.09	12.76	12.64	13.41	13.21	12.92	12.99	12.73	
17	12.75	13.01	12.75	12.86	12.90	12.76	12.90	13.44	13.18	12.84	12.94	12.72	
18	12.73	13.01	12.76	12.85	12.85	13.23	12.69	13.52	13.32	13.09	12.94	12.73	
19	12.86	13.15	12.79	13.10	12.76	13.24	12.66	13.66	13.21	13.13	12.91	12.73	
20	13.04	13.13	12.76	13.19	12.75	13.07	13.04	14.70	13.18	13.10	12.89	12.73	
21	12.85	13.08	12.85	13.01	12.99	12.96	12.74	15.49	13.17	13.16	12.85	12.72	
22	12.77	13.20	13.07	13.08	12.75	12.90	12.97	14.84	13.18	13.15	12.87	12.71	
23	12.79	13.17	12.93	13.00	12.71	12.84	13.44	14.28	13.12	12.95	12.86	12.75	
24	12.75	13.09	13.05	13.05	12.69	12.80	13.26	14.06	13.06	13.35	12.85	13.06	
25	12.70	12.99	12.78	12.91	13.08	12.78	13.04	15.68	13.07	13.19	12.84	13.13	
26	12.68	12.96	12.95	13.02	12.91	12.83	12.92	14.99	13.09	13.24	12.85	13.07	
27	12.78	13.17	12.76	12.86	12.77	12.85	12.85	14.03	13.10	13.26	12.82	13.07	
28	13.41	13.08	12.72	12.84	12.77	12.85	13.36	13.81	13.13	13.22	12.79	12.91	
29	13.50	13.00	12.79	12.89	12.75	12.82	13.60	13.99	13.67	13.15		13.22	
30	13.27	12.95	13.32	12.85	13.11	12.80	13.52	13.66	13.33	13.15		13.22	
31		12.92		13.05	12.79		13.73		13.24	13.12		13.13	
Mean	12.95	13.15	12.86	12.97	12.94	12.91	13.00	14.05	13.30	13.14	12.99	12.84	
Max	13.50	13.48	13.32	13.26	13.23	13.24	13.73	15.68	13.67	13.40	13.33	13.22	15.68
Min	12.68	12.92	12.72	12.79	12.69	12.74	12.64	13.41	13.06	12.84	12.79	12.65	12.64

Annual Max Momentary Gage Height 15.80 M (MSL), at 18.00 Hours, on Nov 21, 1994
Zero Gage at Bottom Elevation 11.80 M (MSL), River Bed 10.84 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.21	8.07	3.92	6.90	3.44	4.16	4.85	14.27	10.49	6.60	5.90	2.68	
2	6.30	9.28	3.60	4.40	5.50	3.20	6.40	17.75	9.28	6.10	5.60	2.62	
3	6.00	7.52	3.44	4.24	5.30	2.56	5.90	21.20	8.73	6.10	5.40	2.50	
4	5.80	6.70	3.36	3.44	4.94	3.52	6.30	15.24	8.73	5.80	4.76	4.40	
5	5.30	6.20	3.76	3.04	3.68	6.20	4.24	20.15	10.49	4.94	7.63	3.36	
6	4.85	6.20	4.76	2.74	4.16	6.10	3.44	12.84	10.16	8.40	6.30	2.50	
7	4.40	5.90	2.74	4.32	4.00	4.76	4.58	13.62	10.27	7.10	6.10	2.62	
8	4.76	5.80	3.04	5.30	3.92	3.36	3.28	19.25	8.62	6.30	5.12	2.68	
9	2.88	6.90	2.88	3.28	2.96	2.80	2.74	17.00	7.96	5.50	4.67	1.90	
10	3.20	7.74	2.44	6.50	6.20	2.44	2.56	12.19	7.63	4.94	4.58	2.68	
11	4.08	6.60	2.32	5.60	6.60	2.62	2.68	11.56	7.30	4.76	4.40	2.14	
12	3.28	6.30	3.28	3.60	4.76	2.80	2.80	9.83	6.80	4.32	4.67	2.26	
13	3.28	6.20	2.74	3.52	5.03	4.58	2.20	9.39	6.90	4.85	4.24	2.50	
14	3.04	6.30	2.68	3.12	6.00	4.40	2.08	8.84	6.90	5.40	4.40	2.44	
15	3.12	5.70	2.68	2.96	3.92	2.88	2.02	8.73	6.60	5.60	4.08	2.50	
16	3.28	4.85	2.56	3.44	5.21	2.56	1.84	8.51	6.40	3.76	4.32	2.38	
17	2.50	4.49	2.50	3.28	3.60	2.56	3.60	8.84	6.10	3.12	3.92	2.32	
18	2.38	4.49	2.56	3.20	3.20	6.60	2.14	9.72	7.52	5.21	3.92	2.38	
19	3.28	5.80	2.74	5.30	2.56	6.70	1.96	11.32	6.40	5.60	3.68	2.38	
20	4.76	5.60	2.56	6.20	2.50	5.03	4.76	27.20	6.10	5.30	3.52	2.38	
21	3.20	5.12	3.20	4.49	4.32	4.08	2.44	46.38	6.00	5.90	3.20	2.32	
22	2.62	6.30	5.03	5.12	2.50	3.60	4.16	29.94	6.10	5.80	3.36	2.26	
23	2.74	6.00	3.84	4.40	2.26	3.12	8.84	20.00	5.50	4.00	3.28	2.50	
24	2.50	5.21	4.85	4.85	2.14	2.80	6.90	16.70	4.94	7.85	3.20	4.94	
25	2.20	4.32	2.68	3.68	5.12	2.68	4.76	53.24	5.03	6.20	3.12	5.60	
26	2.08	4.08	4.00	4.58	3.68	3.04	3.76	33.18	5.21	6.70	3.20	5.03	
27	2.68	6.00	2.56	3.28	2.62	3.20	3.20	16.25	5.30	6.90	2.96	5.03	
28	8.51	5.12	2.32	3.12	2.62	3.20	7.96	13.23	5.60	6.50	2.74	3.68	
29	9.50	4.40	2.74	3.52	2.50	2.96	10.60	15.66	11.44	5.80		6.50	
30	7.00	4.00	7.52	3.20	5.40	2.80	9.72	11.32	7.63	5.80		6.50	
31		3.76		4.85	2.74		12.19		6.70	5.50		5.60	
Total	124.73	180.95	99.30	129.47	123.38	111.31	144.90	533.35	228.83	176.65	122.27	101.58	2076.72 CMSDAY
Mean	4.16	5.84	3.31	4.18	3.98	3.71	4.67	17.78	7.38	5.70	4.37	3.28	5.69 CMS
Max	9.50	9.28	7.52	6.90	6.60	6.70	12.19	53.24	11.44	8.40	7.63	6.50	53.24 CMS
Min	2.08	3.76	2.32	2.74	2.14	2.44	1.84	8.51	4.94	3.12	2.74	1.90	1.84 CMS
Runoff	10.777	15.634	8.580	11.186	10.660	9.617	12.519	46.081	19.771	15.263	10.564	8.777	179.429 MCM

Momentary Peak 58.30 CMS, at 15.80 M (MSL), at 18.00 Hours, on Nov 21, 1994

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

WATER YEAR 1994

SOUTHERN PENNINSULA EAST COAST

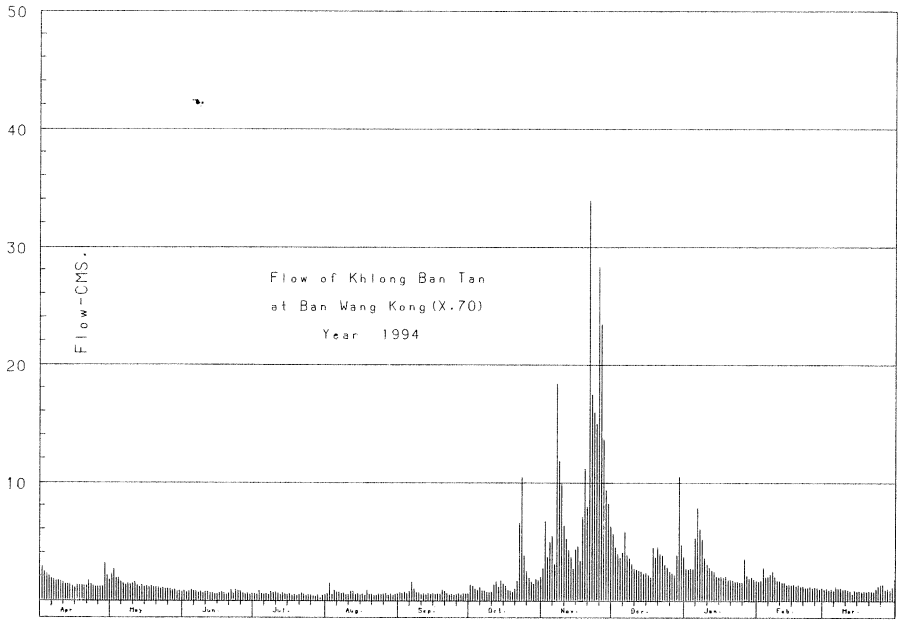
Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)

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 good. Stage-discharge relation defined by 32 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.95	0.83	0.46	0.40	0.40	0.44	0.58	0.92	1.48	0.90	0.67	0.50	
2	0.85	0.89	0.45	0.40	0.64	0.40	0.58	1.69	1.28	0.90	0.67	0.50	
3	0.83	0.75	0.45	0.46	0.40	0.45	0.50	1.10	1.15	0.90	0.93	0.49	
4	0.77	0.73	0.50	0.42	0.47	0.40	0.49	1.37	1.10	0.91	0.75	0.49	
5	0.74	0.65	0.47	0.41	0.45	0.47	0.53	1.45	1.19	1.43	0.77	0.48	
6	0.70	0.63	0.45	0.40	0.43	0.66	0.48	0.99	1.53	1.88	0.80	0.55	
7	0.69	0.60	0.44	0.40	0.42	0.50	0.46	3.40	1.13	1.57	0.87	0.52	
8	0.67	0.61	0.44	0.44	0.41	0.44	0.45	2.62	1.09	1.40	0.75	0.51	
9	0.68	0.61	0.43	0.44	0.39	0.42	0.42	2.25	0.98	1.08	0.68	0.50	
10	0.64	0.61	0.44	0.43	0.37	0.39	0.45	1.61	0.90	0.99	0.66	0.49	
11	0.62	0.64	0.44	0.41	0.47	0.40	0.60	1.42	0.90	0.92	0.65	0.47	
12	0.62	0.59	0.43	0.40	0.45	0.39	0.65	1.22	0.88	0.89	0.63	0.47	
13	0.60	0.56	0.42	0.42	0.40	0.40	0.55	1.11	0.85	0.85	0.60	0.40	
14	0.58	0.58	0.41	0.41	0.40	0.40	0.67	0.90	0.83	0.78	0.59	0.46	
15	0.52	0.56	0.41	0.39	0.39	0.40	0.62	1.24	0.83	0.76	0.59	0.46	
16	0.60	0.55	0.41	0.39	0.38	0.40	0.56	1.28	0.79	0.75	0.58	0.45	
17	0.57	0.55	0.45	0.38	0.37	0.39	0.49	1.05	0.76	0.75	0.57	0.45	
18	0.59	0.56	0.41	0.37	0.47	0.41	0.46	1.74	1.27	0.76	0.58	0.45	
19	0.56	0.55	0.40	0.37	0.40	0.48	0.45	2.50	1.09	0.70	0.56	0.45	
20	0.59	0.53	0.41	0.37	0.38	0.47	0.50	1.90	1.27	0.69	0.55	0.45	
21	0.67	0.55	0.48	0.43	0.37	0.40	0.68	4.55	1.15	0.68	0.54	0.44	
22	0.62	0.52	0.42	0.38	0.38	0.39	1.65	3.31	1.14	0.66	0.54	0.45	
23	0.56	0.52	0.48	0.37	0.39	0.39	2.37	3.14	0.98	0.65	0.54	0.51	
24	0.56	0.52	0.48	0.37	0.40	0.38	1.12	3.04	0.92	0.65	0.53	0.55	
25	0.54	0.50	0.45	0.36	0.39	0.40	0.86	4.22	0.86	0.63	0.53	0.60	
26	0.54	0.50	0.43	0.36	0.40	0.40	0.75	3.86	0.82	1.08	0.52	0.59	
27	0.57	0.49	0.41	0.35	0.38	0.39	0.67	2.88	0.80	0.79	0.51	0.50	
28	1.01	0.48	0.41	0.36	0.39	0.40	0.60	2.17	1.14	0.71	0.51	0.50	
29	0.78	0.47	0.40	0.30	0.38	0.41	0.72	1.95	2.38	0.76		0.49	
30	0.71	0.46	0.40	0.35	0.38	0.40	0.68	1.60	1.30	0.69		0.53	
31		0.46		0.37	0.39		0.75		1.10	0.67		0.69	
Mean	0.66	0.58	0.44	0.39	0.41	0.42	0.69	2.08	1.09	0.90	0.63	0.50	
Max	1.01	0.89	0.50	0.46	0.64	0.66	2.37	4.55	2.38	1.88	0.93	0.69	4.55
Min	0.52	0.46	0.40	0.30	0.37	0.38	0.42	0.90	0.76	0.63	0.51	0.40	0.30

Annual Max Momentary Gage Height 4.96 M (A.D), at 6.00 Hours, on Nov 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.10 M (A.D)
Left Bank Elevation 7.51 M (A.D)
Right Bank Elevation 6.98 M (A.D), Drainage Area 39 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.95	2.35	0.84	0.60	0.60	0.76	1.32	2.80	5.64	2.70	1.68	1.00	
2	2.45	2.65	0.80	0.60	1.56	0.60	1.32	6.80	4.60	2.70	1.68	1.00	
3	2.35	2.00	0.80	0.84	0.60	0.80	1.00	3.70	3.95	2.70	2.85	0.96	
4	2.08	1.92	1.00	0.68	0.88	0.60	0.96	5.05	3.70	2.75	2.00	0.96	
5	1.96	1.60	0.88	0.64	0.80	0.88	1.12	5.48	4.15	5.36	2.08	0.92	
6	1.80	1.52	0.80	0.60	0.72	1.64	0.92	3.15	5.92	7.84	2.20	1.20	
7	1.76	1.40	0.76	0.60	0.68	1.00	0.84	18.40	3.85	6.14	2.55	1.08	
8	1.68	1.44	0.76	0.76	0.64	0.76	0.80	11.92	3.65	5.20	2.00	1.04	
9	1.72	1.44	0.72	0.76	0.57	0.68	0.68	9.88	3.10	3.60	1.72	1.00	
10	1.56	1.44	0.76	0.72	0.51	0.57	0.80	6.36	2.70	3.15	1.64	0.96	
11	1.48	1.56	0.76	0.64	0.88	0.60	1.40	5.31	2.70	2.80	1.60	0.88	
12	1.48	1.36	0.72	0.60	0.80	0.57	1.60	4.30	2.60	2.65	1.52	0.88	
13	1.40	1.24	0.68	0.68	0.60	0.60	1.20	3.75	2.45	2.45	1.40	0.60	
14	1.32	1.32	0.64	0.64	0.60	0.60	1.68	2.70	2.35	2.12	1.36	0.84	
15	1.08	1.24	0.64	0.57	0.57	0.60	1.48	4.40	2.35	2.04	1.36	0.84	
16	1.40	1.20	0.64	0.57	0.54	0.60	1.24	4.60	2.16	2.00	1.32	0.80	
17	1.28	1.20	0.80	0.54	0.51	0.57	0.96	3.45	2.04	2.00	1.28	0.80	
18	1.36	1.24	0.64	0.51	0.88	0.64	0.84	7.07	4.55	2.04	1.32	0.80	
19	1.24	1.20	0.60	0.51	0.60	0.92	0.80	11.25	3.65	1.80	1.24	0.80	
20	1.36	1.12	0.64	0.51	0.54	0.88	1.00	7.95	4.55	1.76	1.20	0.80	
21	1.68	1.20	0.92	0.72	0.51	0.60	1.72	34.00	3.95	1.72	1.16	0.76	
22	1.48	1.08	0.68	0.54	0.54	0.57	6.57	17.54	3.90	1.64	1.16	0.80	
23	1.24	1.08	0.92	0.51	0.57	0.57	10.53	15.96	3.10	1.60	1.16	1.04	
24	1.24	1.08	0.92	0.51	0.60	0.54	3.80	15.06	2.80	1.60	1.12	1.20	
25	1.16	1.00	0.80	0.48	0.57	0.60	2.50	28.32	2.50	1.52	1.12	1.40	
26	1.16	1.00	0.72	0.48	0.60	0.60	2.00	23.52	2.30	3.60	1.08	1.36	
27	1.28	0.96	0.64	0.45	0.54	0.57	1.68	13.68	2.20	2.16	1.04	1.00	
28	3.25	0.92	0.64	0.48	0.57	0.60	1.40	9.44	3.90	1.84	1.04	1.00	
29	2.12	0.88	0.60	0.30	0.54	0.64	1.88	8.23	10.59	2.04		0.96	
30	1.84	0.84	0.60	0.45	0.54	0.60	1.72	6.30	4.70	1.76		1.12	
31		0.84		0.51	0.57		2.00		3.70	1.68		1.76	
Total	50.16	41.32	22.32	18.00	20.23	20.76	57.76	300.37	114.30	84.96	42.88	30.56	803.62 CMSDAY
Mean	1.67	1.33	0.74	0.58	0.65	0.69	1.86	10.01	3.69	2.74	1.53	0.99	2.20 CMS
Max	3.25	2.65	1.00	0.84	1.56	1.64	10.53	34.00	10.59	7.84	2.85	1.76	34.00 CMS
Min	1.08	0.84	0.60	0.30	0.51	0.54	0.68	2.70	2.04	1.52	1.04	0.60	0.30 CMS
Runoff	4.334	3.570	1.928	1.555	1.748	1.794	4.990	25.952	9.876	7.341	3.705	2.640	69.433 MCM

Momentary Peak 43.42 CMS, at 4.96 M (A.D), at 6.00 Hours, on Nov 21, 1994

Runoff Yield 56.45 Liters/Second/Square KM, Momentary Peak Yield 1113.33 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

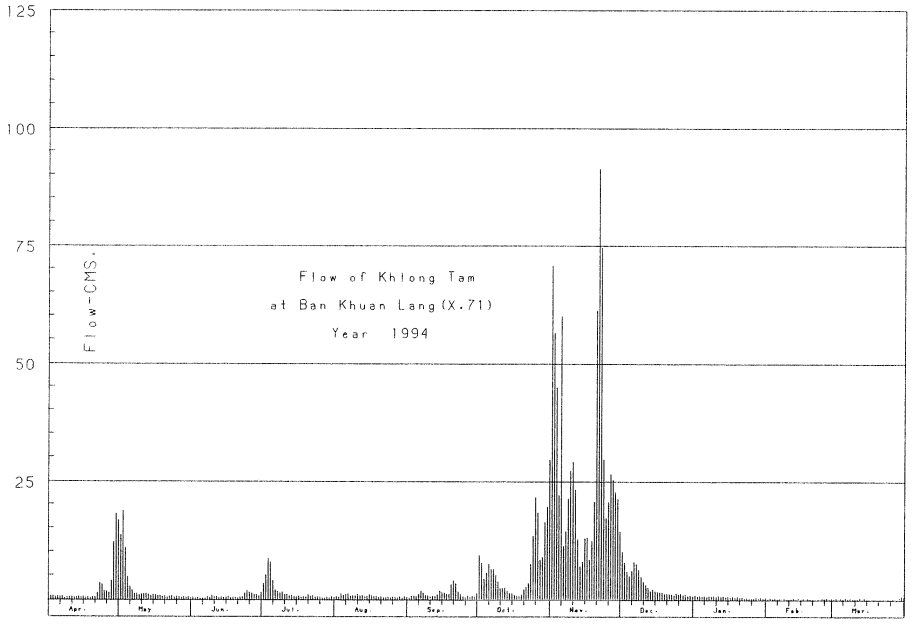
Khlong Tam at Ban Khuan Lang(3), Songkhla (X.71)

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	Overbank flow starts at elevation +7.62 m.(M.S.L.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.07	5.03	2.90	3.67	2.95	2.88	4.54	8.16	4.64	3.09	2.82	2.79	
2	3.01	5.50	2.89	3.97	2.98	3.00	4.36	7.72	4.35	3.07	2.82	2.80	
3	2.98	4.73	2.87	4.48	3.21	3.11	3.83	7.23	4.08	3.04	2.82	2.81	
4	2.96	3.94	2.86	4.36	3.15	2.95	4.07	5.79	3.97	3.03	2.82	2.80	
5	3.02	3.58	2.84	3.81	3.21	3.21	4.31	7.85	4.13	3.01	2.81	2.81	
6	2.96	3.38	2.83	3.43	3.19	3.39	4.16	4.77	4.36	3.01	2.78	2.82	
7	2.86	3.25	2.95	3.33	3.07	3.26	4.18	5.09	4.33	3.01	2.81	2.80	
8	2.87	3.19	2.92	3.30	3.04	3.13	4.00	5.74	4.14	3.04	2.79	2.78	
9	2.98	3.16	3.05	3.31	3.07	3.06	3.74	6.16	3.94	3.05	2.78	2.77	
10	2.92	3.16	2.99	3.20	3.17	3.03	3.50	6.31	3.74	3.04	2.77	2.77	
11	2.93	3.23	2.95	3.16	3.11	3.00	3.47	5.88	3.65	3.04	2.78	2.78	
12	2.97	3.25	2.92	3.11	3.07	3.04	3.53	4.91	3.50	3.02	2.81	2.84	
13	2.94	3.15	2.91	3.08	3.00	3.14	3.36	4.26	3.38	3.01	2.80	2.81	
14	2.95	3.11	2.95	3.03	2.99	3.39	3.29	4.37	3.43	2.99	2.78	2.78	
15	2.94	3.12	2.96	3.00	3.18	3.30	3.24	4.95	3.38	2.97	2.78	2.75	
16	2.91	3.11	2.95	2.98	3.06	3.31	3.15	4.95	3.32	2.96	2.79	2.75	
17	2.89	3.09	2.90	2.95	3.03	3.19	3.05	4.44	3.34	2.96	2.79	2.73	
18	2.88	3.03	2.88	2.94	2.99	3.22	3.04	4.87	3.29	2.91	2.77	2.73	
19	2.87	3.01	2.85	2.97	2.95	3.64	3.14	5.67	3.25	2.96	2.77	2.71	
20	2.96	2.99	2.85	3.13	2.94	3.78	3.46	7.89	3.20	2.93	2.76	2.69	
21	3.27	2.97	2.89	3.05	2.93	3.71	3.53	8.60	3.25	2.91	2.75	2.68	
22	3.72	3.03	2.99	3.01	2.92	3.36	3.72	8.26	3.17	2.84	2.75	2.68	
23	3.63	3.00	3.25	2.96	2.91	3.17	4.32	6.34	3.16	2.82	2.73	2.66	
24	3.36	2.96	3.40	2.93	2.90	3.01	4.99	5.38	3.25	2.84	2.80	2.67	
25	3.33	2.94	3.28	2.92	2.90	2.93	5.77	5.68	3.23	2.85	2.83	2.69	
26	3.31	2.92	3.30	2.89	2.89	3.03	5.47	6.13	3.21	2.85	2.81	2.72	
27	3.80	2.92	3.20	2.88	2.90	3.00	4.43	6.03	3.17	2.88	2.79	2.73	
28	4.84	2.91	3.12	2.88	2.90	2.99	4.49	5.84	3.15	2.87	2.78	2.76	
29	5.46	2.93	3.07	2.88	2.89	3.04	5.30	5.74	3.11	2.86		2.85	
30	5.32	2.91	3.28	2.94	2.94	3.23	5.60	5.09	3.08	2.85		2.98	
31		2.90		2.94	2.87		6.33		3.08	2.83		2.99	
Mean	3.30	3.30	3.00	3.21	3.01	3.18	4.11	6.00	3.56	2.95	2.79	2.77	
Max	5.46	5.50	3.40	4.48	3.21	3.78	6.33	8.60	4.64	3.09	2.83	2.99	8.60
Min	2.86	2.90	2.83	2.88	2.87	2.88	3.04	4.26	3.08	2.82	2.73	2.66	2.66

Annual Max Momentary Gage Height 8.68 M (MSL), at 9.00 Hours, on Nov 21, 1994
Zero Gage at Bottom Elevation 0.65 M (MSL), River Bed 2.11 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.94	13.90	0.60	3.45	0.70	0.56	9.46	70.78	10.36	0.98	0.44	0.38	
2	0.82	18.80	0.58	5.22	0.76	0.80	7.98	56.56	7.90	0.94	0.44	0.40	
3	0.76	11.17	0.54	8.94	1.33	1.03	4.38	45.10	5.96	0.88	0.44	0.42	
4	0.72	5.04	0.52	7.98	1.15	0.70	5.89	22.18	5.22	0.86	0.44	0.40	
5	0.84	3.00	0.48	4.26	1.33	1.33	7.58	60.25	6.31	0.82	0.42	0.42	
6	0.72	2.00	0.46	2.25	1.27	2.05	6.52	11.53	7.98	0.82	0.36	0.44	
7	0.52	1.45	0.70	1.75	0.94	1.48	6.66	14.50	7.74	0.82	0.42	0.40	
8	0.54	1.27	0.64	1.60	0.88	1.09	5.40	21.58	6.38	0.88	0.38	0.36	
9	0.76	1.18	0.90	1.65	0.94	0.92	3.84	27.24	5.04	0.90	0.36	0.34	
10	0.64	1.18	0.78	1.30	1.21	0.86	2.60	29.34	3.84	0.88	0.34	0.34	
11	0.66	1.39	0.70	1.18	1.03	0.80	2.45	23.34	3.35	0.88	0.36	0.36	
12	0.74	1.45	0.64	1.03	0.94	0.88	2.75	12.79	2.60	0.84	0.42	0.48	
13	0.68	1.15	0.62	0.96	0.80	1.12	1.90	7.22	2.00	0.82	0.40	0.42	
14	0.70	1.03	0.70	0.86	0.78	2.05	1.57	8.06	2.25	0.78	0.36	0.36	
15	0.68	1.06	0.72	0.80	1.24	1.60	1.42	13.15	2.00	0.74	0.36	0.30	
16	0.62	1.03	0.70	0.76	0.92	1.65	1.15	13.15	1.70	0.72	0.38	0.30	
17	0.58	0.98	0.60	0.70	0.86	1.27	0.90	8.62	1.80	0.72	0.38	0.26	
18	0.56	0.86	0.56	0.68	0.78	1.36	0.88	12.43	1.57	0.62	0.34	0.26	
19	0.54	0.82	0.50	0.74	0.70	3.30	1.12	20.74	1.45	0.72	0.34	0.22	
20	0.72	0.78	0.50	1.09	0.68	4.08	2.40	61.41	1.30	0.66	0.32	0.18	
21	1.51	0.74	0.58	0.90	0.66	3.66	2.75	91.50	1.45	0.62	0.30	0.16	
22	3.72	0.86	0.78	0.82	0.64	1.90	3.72	74.82	1.21	0.48	0.30	0.16	
23	3.25	0.80	1.45	0.72	0.62	1.21	7.66	29.76	1.18	0.44	0.26	0.12	
24	1.90	0.72	2.10	0.66	0.60	0.82	13.51	17.48	1.45	0.48	0.40	0.14	
25	1.75	0.68	1.54	0.64	0.60	0.66	21.94	20.86	1.39	0.50	0.46	0.18	
26	1.65	0.64	1.60	0.58	0.58	0.86	18.47	26.82	1.33	0.50	0.42	0.24	
27	4.20	0.64	1.30	0.56	0.60	0.80	8.54	25.42	1.21	0.56	0.38	0.26	
28	12.16	0.62	1.06	0.56	0.60	0.78	9.02	22.82	1.15	0.54	0.36	0.32	
29	18.36	0.66	0.94	0.56	0.58	0.88	16.60	21.58	1.03	0.52		0.50	
30	16.82	0.62	1.54	0.68	0.68	1.39	19.90	14.50	0.96	0.50		0.76	
31		0.60		0.68	0.54		29.62		0.96	0.46		0.78	
Total	79.06	77.12	25.33	54.56	25.94	41.89	228.58	885.53	100.07	21.88	10.58	10.66	1561.20 CMSDAY
Mean	2.64	2.49	0.84	1.76	0.84	1.40	7.37	29.52	3.23	0.71	0.38	0.34	4.28 CMS
Max	18.36	18.80	2.10	8.94	1.33	4.08	29.62	91.50	10.36	0.98	0.46	0.78	91.50 CMS
Min	0.52	0.60	0.46	0.56	0.54	0.56	0.88	7.22	0.96	0.44	0.26	0.12	0.12 CMS
Runoff	6.831	6.663	2.189	4.714	2.241	3.619	19.749	76.510	8.646	1.890	0.914	0.921	134.888 MCM

Momentary Peak 96.54 CMS, at 8.68 M (MSL), at 9.00 Hours, on Nov 21, 1994

Runoff Yield 33.68 Liters/Second/Square KM, Momentary Peak Yield 760.16 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

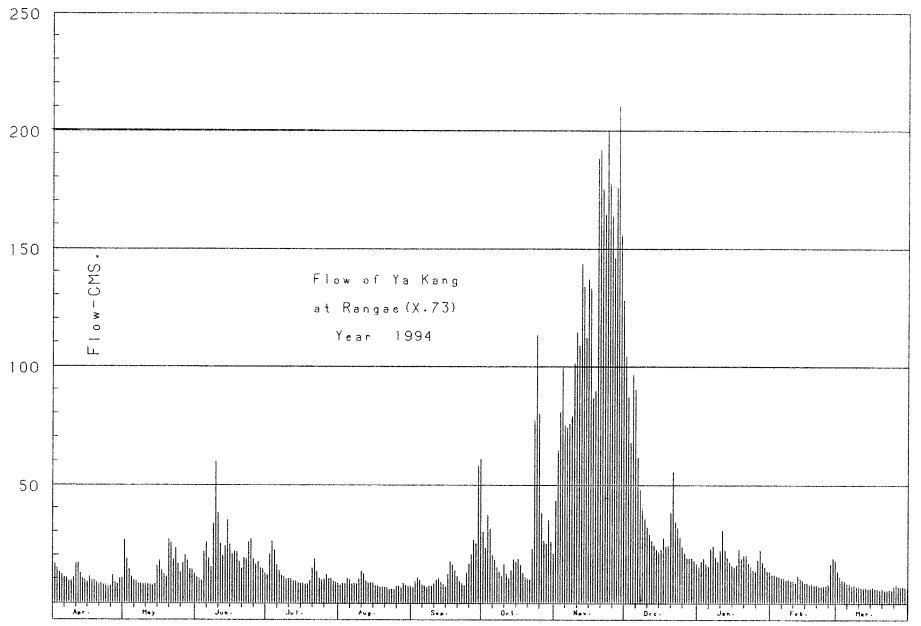
Khlong Tan Yong Mat at Rangae, Narathiwat (X.73)

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	+6.096 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00,12.00,15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1985 to date.
Rated by Float	-
Rated by Current Meter	1985 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.91 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.79	2.38	1.39	1.47	1.12	1.02	2.54	3.17	5.08	1.71	1.47	1.57	
2	1.65	1.93	1.33	2.03	1.16	1.24	2.19	4.01	4.69	1.83	1.45	1.38	
3	1.55	1.62	1.29	2.35	1.17	1.38	2.89	4.51	4.11	1.94	1.43	1.29	
4	1.46	1.41	2.08	2.14	1.33	1.27	2.63	5.00	4.92	1.77	1.38	1.23	
5	1.40	1.29	2.33	1.77	1.32	1.13	2.03	4.36	4.76	1.72	1.36	1.18	
6	1.35	1.24	1.92	1.57	1.17	1.06	1.88	4.32	3.91	2.14	1.33	1.14	
7	1.26	1.17	1.71	1.45	1.15	1.02	1.70	4.38	3.39	2.23	1.30	1.10	
8	1.25	1.14	2.72	1.39	1.18	1.05	1.55	4.46	3.04	1.95	1.29	1.08	
9	1.38	1.15	3.85	1.34	1.31	1.09	1.44	5.03	2.83	1.86	1.27	1.05	
10	1.79	1.15	2.95	1.32	1.60	1.14	1.78	5.24	2.64	2.11	1.23	1.03	
11	1.82	1.11	2.28	1.32	1.48	1.31	1.47	5.15	2.48	2.58	1.20	1.00	
12	1.50	1.14	1.99	1.28	1.28	1.33	1.36	5.68	2.36	2.15	1.41	0.99	
13	1.35	1.08	2.24	1.25	1.17	1.22	1.58	5.55	2.24	1.94	1.34	0.98	
14	1.28	1.16	2.79	1.21	1.22	1.11	1.92	5.21	2.15	1.84	1.25	0.96	
15	1.24	1.71	2.26	1.18	1.17	1.04	1.82	5.60	2.08	1.74	1.20	0.94	
16	1.39	1.87	2.05	1.16	1.10	1.46	1.90	5.54	2.14	1.68	1.16	0.98	
17	1.31	1.61	2.09	1.15	1.06	1.85	1.76	4.68	2.42	1.76	1.14	0.95	
18	1.26	1.46	2.11	1.13	1.03	1.75	1.50	4.74	2.21	2.14	1.13	0.91	
19	1.22	1.41	1.84	1.28	1.01	1.60	1.39	6.13	2.22	1.91	1.10	0.90	
20	1.16	2.39	1.67	1.65	1.02	1.40	1.32	6.16	2.95	2.01	1.09	0.91	
21	1.15	2.30	1.93	1.93	0.99	1.26	1.29	6.01	3.70	2.00	1.07	0.90	
22	1.13	1.89	1.93	1.56	0.95	1.16	2.17	5.91	2.77	1.80	1.05	0.90	
23	1.10	2.19	2.34	1.36	0.92	1.10	4.41	6.23	2.63	1.69	1.04	0.89	
24	1.08	1.77	2.39	1.27	0.94	1.51	5.23	6.03	2.44	1.61	1.09	0.89	
25	1.06	1.55	1.91	1.31	1.07	1.80	4.50	5.90	2.19	1.55	1.10	1.02	
26	1.43	1.82	1.76	1.49	1.05	2.02	2.95	5.71	2.07	1.86	1.78	1.09	
27	1.22	2.02	1.85	1.35	1.01	2.38	2.34	6.02	1.95	2.13	1.92	1.04	
28	1.12	1.86	1.68	1.33	1.16	2.28	2.29	6.31	1.92	1.83	1.86	1.00	
29	1.35	1.65	1.63	1.26	1.11	3.79	2.79	5.82	1.94	1.68		1.05	
30	1.34	1.61	1.50	1.20	1.04	3.87	2.32	5.47	1.85	1.59		0.98	
31		1.49		1.15	1.03		2.05		1.77	1.53		0.95	
Mean	1.35	1.60	2.06	1.44	1.14	1.55	2.23	5.28	2.83	1.88	1.30	1.04	
Max	1.82	2.39	3.85	2.35	1.60	3.87	5.23	6.31	5.08	2.58	1.92	1.57	6.31
Min	1.06	1.08	1.29	1.13	0.92	1.02	1.29	3.17	1.77	1.53	1.04	0.89	0.89

Annual Max Momentary Gage Height 6.43 M (A.D), at 6.00 Hours, on Nov 28, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.88 M (A.D)
Left Bank Elevation 6.21 M (A.D)
Right Bank Elevation 4.90 M (A.D), Drainage Area 336 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.84	27.04	11.17	12.21	7.92	6.90	30.06	43.34	104.80	15.56	12.21	13.58	
2	14.70	19.08	10.39	20.74	8.36	9.28	23.62	64.99	87.60	17.48	11.95	11.04	
3	13.30	14.28	9.88	26.50	8.47	11.04	37.19	80.85	67.89	19.24	11.69	9.88	
4	12.08	11.43	21.64	22.72	10.39	9.64	31.80	100.00	96.80	16.52	11.04	9.16	
5	11.30	9.88	26.14	16.52	10.26	8.03	20.74	75.68	90.40	15.72	10.78	8.58	
6	10.65	9.28	18.92	13.58	8.47	7.30	18.28	74.36	62.09	22.72	10.39	8.14	
7	9.52	8.47	15.56	11.95	8.25	6.90	15.40	76.34	48.37	24.34	10.00	7.70	
8	9.40	8.14	33.62	11.17	8.58	7.20	13.30	79.10	40.48	19.40	9.88	7.50	
9	11.04	8.25	60.35	10.52	10.13	7.60	11.82	101.80	35.93	17.96	9.64	7.20	
10	16.84	8.25	38.50	10.26	14.00	8.14	16.68	114.40	32.00	22.18	9.16	7.00	
11	17.32	7.81	25.24	10.26	12.34	10.13	12.21	109.00	28.92	30.82	8.80	6.70	
12	12.60	8.14	20.04	9.76	9.76	10.39	10.78	143.90	26.68	22.90	11.43	6.60	
13	10.65	7.50	24.52	9.40	8.47	9.04	13.72	133.85	24.52	19.24	10.52	6.50	
14	9.76	8.36	35.09	8.92	9.04	7.81	18.92	112.60	22.90	17.64	9.40	6.30	
15	9.28	15.56	24.88	8.58	8.47	7.10	17.32	137.50	21.64	16.04	8.80	6.10	
16	11.17	18.12	21.10	8.36	7.70	12.08	18.60	133.12	22.72	15.12	8.36	6.50	
17	10.13	14.14	21.82	8.25	7.30	17.80	16.36	87.20	27.78	16.36	8.14	6.20	
18	9.52	12.08	22.18	8.03	7.00	16.20	12.60	89.60	23.98	22.72	8.03	5.80	
19	9.04	11.43	17.64	9.76	6.80	14.00	11.17	188.59	24.16	18.76	7.70	5.70	
20	8.36	27.22	14.98	14.70	6.90	11.30	10.26	191.98	38.50	20.38	7.60	5.80	
21	8.25	25.60	19.08	19.08	6.60	9.52	9.88	175.12	56.00	20.20	7.40	5.70	
22	8.03	18.44	19.08	13.44	6.20	8.36	23.26	164.82	34.67	17.00	7.20	5.70	
23	7.70	23.62	26.32	10.78	5.90	7.70	77.35	200.22	31.80	15.26	7.10	5.61	
24	7.50	16.52	27.22	9.64	6.10	12.74	113.80	177.36	28.16	14.14	7.60	5.61	
25	7.30	13.30	18.76	10.13	7.40	17.00	80.50	163.80	23.62	13.30	7.70	6.90	
26	11.69	17.32	16.36	12.47	7.20	20.56	38.50	146.35	21.46	17.96	16.68	7.60	
27	9.04	20.56	17.80	10.65	6.80	27.04	26.32	176.24	19.40	22.54	18.92	7.10	
28	7.92	17.96	15.12	10.39	8.36	25.24	25.42	210.31	18.92	17.48	17.96	6.70	
29	10.65	14.70	14.42	9.52	7.81	58.61	35.09	155.96	19.24	15.12		7.20	
30	10.52	14.14	12.60	8.80	7.10	60.93	25.96	128.34	17.80	13.86		6.50	
31		12.47		8.25	7.00		21.10		16.52	13.02		6.20	
Total	322.10	449.09	660.42	375.34	255.08	445.58	838.01	3836.72	1215.75	570.98	286.08	222.80	9477.95 CMSDAY
Mean	10.74	14.49	22.01	12.11	8.23	14.85	27.03	127.89	39.22	18.42	10.22	7.19	25.97 CMS
Max	17.32	27.22	60.35	26.50	14.00	60.93	113.80	210.31	104.80	30.82	18.92	13.58	210.31 CMS
Min	7.30	7.50	9.88	8.03	5.90	6.90	9.88	43.34	16.52	13.02	7.10	5.61	5.61 CMS
Runoff	27.829	38.801	57.060	32.429	22.039	38.498	72.404	331.493	105.041	49.333	24.717	19.250	818.895 MCM

Momentary Peak 227.50 CMS, at 6.43 M (A.D), at 6.00 Hours, on Nov 28, 1994

Runoff Yield 77.28 Liters/Second/Square KM, Momentary Peak Yield 677.08 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

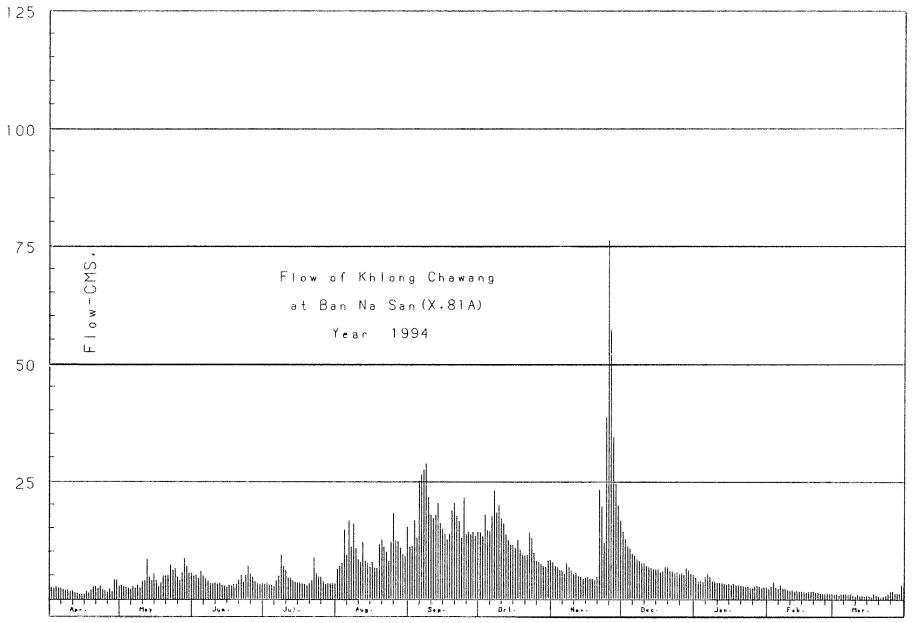
Khlong Chawang at Ban Na San, Surat Thani (X.81A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.90	0.93	1.05	0.95	1.12	1.29	1.38	1.18	1.39	1.02	0.89	0.80	
2	0.90	0.92	1.05	0.96	1.14	1.30	1.36	1.15	1.34	0.99	0.91	0.80	
3	0.91	0.90	1.03	0.94	1.18	1.44	1.47	1.13	1.30	0.99	0.98	0.79	
4	0.90	0.90	1.09	0.93	1.40	1.35	1.39	1.11	1.28	0.98	0.90	0.80	
5	0.89	0.88	1.05	0.92	1.24	1.62	1.39	1.10	1.25	1.03	0.89	0.81	
6	0.88	0.91	1.01	0.99	1.44	1.64	1.46	1.07	1.23	1.07	0.93	0.80	
7	0.87	0.90	1.00	1.05	1.29	1.66	1.58	1.17	1.21	1.03	0.90	0.80	
8	0.86	0.93	0.95	1.24	1.43	1.68	1.48	1.14	1.19	0.99	0.88	0.80	
9	0.85	0.90	0.96	1.14	1.28	1.55	1.51	1.10	1.18	0.98	0.87	0.79	
10	0.85	0.98	0.96	1.10	1.21	1.47	1.45	1.07	1.17	0.97	0.86	0.77	
11	0.83	1.00	0.96	1.03	1.18	1.45	1.43	1.07	1.15	0.96	0.86	0.79	
12	0.81	1.21	0.95	1.02	1.32	1.47	1.37	1.04	1.13	0.97	0.85	0.78	
13	0.80	1.03	0.94	1.00	1.20	1.52	1.33	1.04	1.13	0.95	0.85	0.77	
14	0.79	1.00	0.92	0.97	1.17	1.43	1.31	1.03	1.11	0.95	0.85	0.77	
15	0.81	1.06	0.91	0.97	1.14	1.40	1.30	1.03	1.12	0.95	0.84	0.76	
16	0.84	0.99	0.93	0.96	1.18	1.37	1.28	1.03	1.11	0.94	0.83	0.76	
17	0.83	0.92	0.93	0.96	1.13	1.34	1.34	1.02	1.09	0.95	0.84	0.76	
18	0.86	0.96	0.94	0.94	1.12	1.37	1.27	1.01	1.09	0.94	0.83	0.80	
19	0.92	1.05	0.95	0.93	1.31	1.49	1.24	1.01	1.14	0.93	0.85	0.79	
20	0.91	1.04	0.99	0.95	1.34	1.52	1.23	1.03	1.13	0.93	0.84	0.76	
21	0.90	1.05	1.06	1.00	1.29	1.46	1.24	1.58	1.10	0.92	0.83	0.75	
22	0.92	1.16	0.98	1.22	1.26	1.44	1.38	1.51	1.09	0.91	0.82	0.75	
23	0.88	1.11	1.05	1.07	1.19	1.35	1.35	1.32	1.08	0.91	0.82	0.78	
24	0.85	1.12	1.15	1.04	1.32	1.55	1.25	1.81	1.08	0.90	0.81	0.80	
25	0.84	1.03	1.06	1.03	1.48	1.37	1.20	2.17	1.07	0.90	0.81	0.85	
26	0.88	1.00	1.03	0.98	1.33	1.38	1.18	2.01	1.07	0.91	0.81	0.84	
27	0.85	1.08	0.99	0.95	1.33	1.37	1.17	1.76	1.06	0.93	0.81	0.82	
28	1.01	1.21	0.95	0.95	1.29	1.38	1.14	1.61	1.13	0.91	0.80	0.81	
29	1.00	1.15	0.95	0.96	1.24	1.36	1.14	1.51	1.10	0.90		0.81	
30	0.93	1.07	0.95	0.95	1.23	1.38	1.20	1.44	1.07	0.90		0.93	
31		1.07		0.96	1.41		1.20		1.05	0.90		0.92	
Mean	0.88	1.01	0.99	1.00	1.26	1.45	1.32	1.27	1.15	0.95	0.86	0.80	
Max	1.01	1.21	1.15	1.24	1.48	1.68	1.58	2.17	1.39	1.07	0.98	0.93	2.17
Min	0.79	0.88	0.91	0.92	1.12	1.29	1.14	1.01	1.05	0.90	0.80	0.75	0.75

Annual Max Momentary Gage Height 2.64 M (A.D), at 21.00 Hours, on Nov 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.58 M (A.D)
Left Bank Elevation 5.64 M (A.D)
Right Bank Elevation 5.18 M (A.D), Drainage Area 220 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.60	3.08	5.20	3.40	6.64	11.19	14.30	7.96	14.65	4.60	2.46	1.20	
2	2.60	2.92	5.20	3.56	7.08	11.50	13.60	7.30	12.90	4.04	2.76	1.20	
3	2.76	2.60	4.80	3.24	7.96	16.80	18.15	6.86	11.50	4.04	3.88	1.08	
4	2.60	2.60	6.00	3.08	15.00	13.25	14.65	6.42	10.88	3.88	2.60	1.20	
5	2.46	2.32	5.20	2.92	9.64	25.36	14.65	6.20	9.95	4.80	2.46	1.34	
6	2.32	2.76	4.40	4.04	16.80	26.52	17.70	5.60	9.33	5.60	3.08	1.20	
7	2.18	2.60	4.20	5.20	11.19	27.68	23.26	7.74	8.71	4.80	2.60	1.20	
8	2.04	3.08	3.40	9.64	16.35	28.84	18.60	7.08	8.18	4.04	2.32	1.20	
9	1.90	2.60	3.56	7.08	10.88	21.85	19.97	6.20	7.96	3.88	2.18	1.08	
10	1.90	3.88	3.56	6.20	8.71	18.15	17.25	5.60	7.74	3.72	2.04	0.84	
11	1.62	4.20	3.56	4.80	7.96	17.25	16.35	5.60	7.30	3.56	2.04	1.08	
12	1.34	8.71	3.40	4.60	12.20	18.15	13.95	5.00	6.86	3.72	1.90	0.96	
13	1.20	4.80	3.24	4.20	8.40	20.44	12.55	5.00	6.86	3.40	1.90	0.84	
14	1.08	4.20	2.92	3.72	7.74	16.35	11.85	4.80	6.42	3.40	1.90	0.84	
15	1.34	5.40	2.76	3.72	7.08	15.00	11.50	4.80	6.64	3.40	1.76	0.72	
16	1.76	4.04	3.08	3.56	7.96	13.95	10.88	4.80	6.42	3.24	1.62	0.72	
17	1.62	2.92	3.08	3.56	6.86	12.90	12.90	4.60	6.00	3.40	1.76	0.72	
18	2.04	3.56	3.24	3.24	6.64	13.95	10.57	4.40	6.00	3.24	1.62	1.20	
19	2.92	5.20	3.40	3.08	11.85	19.05	9.64	4.40	7.08	3.08	1.90	1.08	
20	2.76	5.00	4.04	3.40	12.90	20.44	9.33	4.80	6.86	3.08	1.76	0.72	
21	2.60	5.20	5.40	4.20	11.19	17.70	9.64	23.26	6.20	2.92	1.62	0.60	
22	2.92	7.52	3.88	9.02	10.26	16.80	14.30	19.97	6.00	2.76	1.48	0.60	
23	2.32	6.42	5.20	5.60	8.18	13.25	13.25	12.20	5.80	2.76	1.48	0.96	
24	1.90	6.64	7.30	5.00	12.20	21.85	9.95	38.62	5.80	2.60	1.34	1.20	
25	1.76	4.80	5.40	4.80	18.60	13.95	8.40	76.45	5.60	2.60	1.34	1.90	
26	2.32	4.20	4.80	3.88	12.55	14.30	7.96	57.10	5.60	2.76	1.34	1.76	
27	1.90	5.80	4.04	3.40	12.55	13.95	7.74	34.68	5.40	3.08	1.34	1.48	
28	4.40	8.71	3.40	3.40	11.19	14.30	7.08	24.78	6.86	2.76	1.20	1.34	
29	4.20	7.30	3.40	3.56	9.64	13.60	7.08	19.97	6.20	2.60		1.34	
30	3.08	5.60	3.40	3.40	9.33	14.30	8.40	16.80	5.60	2.60		3.08	
31		5.60		3.56	15.45		8.40		5.20	2.60		2.92	
Total	68.44	144.26	124.46	136.06	330.98	522.62	393.85	438.99	232.50	106.96	55.68	37.60	2592.40 CMSDAY
Mean	2.28	4.65	4.15	4.39	10.68	17.42	12.70	14.63	7.50	3.45	1.99	1.21	7.10 CMS
Max	4.40	8.71	7.30	9.64	18.60	28.84	23.26	76.45	14.65	5.60	3.88	3.08	76.45 CMS
Min	1.08	2.32	2.76	2.92	6.64	11.19	7.08	4.40	5.20	2.60	1.20	0.60	0.60 CMS
Runoff	5.913	12.464	10.753	11.756	28.597	45.154	34.029	37.929	20.088	9.241	4.811	3.249	223.983 MCM

Momentary Peak 163.44 CMS, at 2.64 M (A.D), at 21.00 Hours, on Nov 25, 1994

Runoff Yield 32.28 Liters/Second/Square KM, Momentary Peak Yield 742.91 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

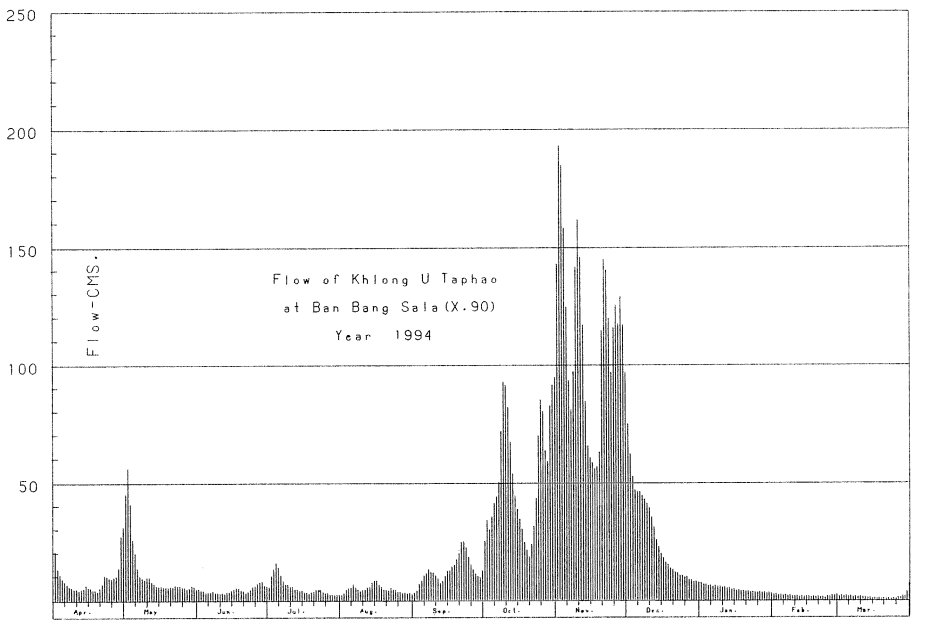
Khlong U Taphao at Ban Bang Sala, Songkhla (X.90)

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 good. Stage-discharge relation defined by 32 discharge measurements made in 1994

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.92	4.26	1.54	1.68	1.23	1.32	3.22	7.21	5.45	1.86	1.27	1.15	
2	2.42	4.72	1.49	2.18	1.29	1.48	3.71	8.03	4.95	1.83	1.25	1.16	
3	2.20	4.07	1.43	2.39	1.53	1.81	3.53	7.92	4.58	1.79	1.24	1.16	
4	2.05	3.25	1.38	2.62	1.57	1.98	3.80	7.51	4.34	1.76	1.22	1.15	
5	1.90	2.90	1.34	2.45	1.66	2.16	4.07	6.80	4.33	1.73	1.21	1.14	
6	1.82	2.42	1.39	2.21	1.80	2.28	4.23	5.98	4.31	1.72	1.20	1.12	
7	1.72	2.18	1.41	1.94	1.67	2.39	4.47	5.63	4.25	1.72	1.19	1.12	
8	1.61	2.05	1.36	1.83	1.50	2.32	5.33	6.10	4.15	1.71	1.18	1.11	
9	1.56	2.03	1.31	1.77	1.45	2.27	5.98	7.18	4.08	1.69	1.16	1.11	
10	1.51	2.12	1.31	1.71	1.48	2.20	5.93	7.56	3.97	1.67	1.15	1.11	
11	1.47	2.08	1.30	1.66	1.54	2.04	5.66	7.28	3.79	1.65	1.14	1.09	
12	1.51	1.93	1.28	1.56	1.62	1.88	5.17	6.60	3.56	1.63	1.13	1.06	
13	1.60	1.81	1.35	1.51	1.68	1.93	4.63	5.74	3.28	1.60	1.13	1.04	
14	1.73	1.74	1.39	1.50	1.86	2.17	4.23	5.10	3.06	1.56	1.12	1.02	
15	1.67	1.66	1.44	1.45	1.98	2.33	3.96	4.90	2.89	1.53	1.12	1.00	
16	1.58	1.69	1.52	1.38	1.96	2.37	3.73	4.80	2.75	1.49	1.11	0.98	
17	1.52	1.68	1.64	1.33	1.82	2.47	3.54	4.71	2.64	1.47	1.11	0.98	
18	1.46	1.63	1.57	1.31	1.66	2.56	3.18	4.73	2.55	1.46	1.10	0.98	
19	1.42	1.66	1.51	1.35	1.53	2.70	2.99	4.98	2.45	1.44	1.10	0.98	
20	1.58	1.66	1.43	1.43	1.47	2.97	2.80	6.55	2.38	1.44	1.10	0.97	
21	1.84	1.68	1.35	1.48	1.50	3.19	3.13	7.25	2.31	1.41	1.09	0.97	
22	2.16	1.73	1.37	1.54	1.60	3.23	3.58	7.16	2.26	1.39	1.06	0.97	
23	2.12	1.75	1.53	1.48	1.54	3.06	4.19	6.67	2.21	1.38	1.04	0.97	
24	2.09	1.70	1.65	1.40	1.48	2.79	5.26	6.09	2.17	1.39	1.10	0.97	
25	2.02	1.68	1.74	1.34	1.41	2.58	5.76	6.58	2.14	1.38	1.14	0.98	
26	2.12	1.61	1.82	1.31	1.36	2.38	5.61	6.81	2.12	1.37	1.17	1.03	
27	2.13	1.57	1.92	1.25	1.34	2.26	5.02	6.61	2.03	1.36	1.21	1.08	
28	2.45	1.56	1.91	1.20	1.33	2.13	4.82	6.91	1.98	1.35	1.21	1.12	
29	3.38	1.75	1.77	1.21	1.32	2.12	5.69	6.61	1.94	1.33		1.16	
30	3.56	1.65	1.68	1.20	1.31	2.34	5.93	6.08	1.92	1.32		1.38	
31		1.56		1.20	1.28		6.03		1.91	1.29		1.87	
Mean	1.97	2.12	1.50	1.61	1.54	2.32	4.49	6.40	3.12	1.54	1.15	1.09	
Max	3.56	4.72	1.92	2.62	1.98	3.23	6.03	8.03	5.45	1.86	1.27	1.87	8.03
Min	1.42	1.56	1.28	1.20	1.23	1.32	2.80	4.71	1.91	1.29	1.04	0.97	0.97

Annual Max Momentary Gage Height 8.06 M (MSL), at 18.00 Hours, on Nov 2, 1994
Zero Gage at Bottom Elevation 0.68 M (MSL), River Bed 0.46 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.80	45.20	5.05	6.10	2.73	3.40	25.30	142.95	75.50	7.60	3.02	2.17	
2	13.75	56.50	4.68	10.80	3.17	4.60	34.20	193.40	62.25	7.30	2.87	2.24	
3	11.00	41.40	4.22	13.38	4.98	7.10	30.60	184.60	53.00	6.93	2.80	2.24	
4	9.50	25.75	3.85	16.30	5.28	8.80	36.00	158.60	47.00	6.70	2.65	2.17	
5	8.00	20.50	3.55	14.13	5.95	10.60	41.40	125.00	46.75	6.48	2.58	2.11	
6	7.20	13.75	3.93	11.13	7.00	12.00	44.60	93.30	46.25	6.40	2.50	1.98	
7	6.40	10.80	4.07	8.40	6.03	13.38	50.25	81.05	45.00	6.40	2.44	1.98	
8	5.58	9.50	3.70	7.30	4.75	12.50	71.90	97.50	43.00	6.33	2.37	1.91	
9	5.20	9.30	3.32	6.78	4.38	11.88	93.30	141.60	41.60	6.18	2.24	1.91	
10	4.83	10.20	3.32	6.33	4.60	11.00	91.55	161.60	39.40	6.03	2.17	1.91	
11	4.53	9.80	3.25	5.95	5.05	9.40	82.10	146.10	35.80	5.88	2.11	1.79	
12	4.83	8.30	3.10	5.20	5.65	7.80	67.75	117.00	31.20	5.73	2.04	1.59	
13	5.50	7.10	3.63	4.83	6.10	8.30	54.25	84.90	26.20	5.50	2.04	1.46	
14	6.48	6.55	3.93	4.75	7.60	10.70	44.60	66.00	22.90	5.20	1.98	1.33	
15	6.03	5.95	4.30	4.38	8.80	12.62	39.20	61.00	20.35	4.98	1.98	1.20	
16	5.35	6.18	4.90	3.85	8.60	13.12	34.60	58.50	18.25	4.68	1.91	1.08	
17	4.90	6.10	5.80	3.48	7.20	14.38	30.80	56.25	16.60	4.53	1.91	1.08	
18	4.45	5.73	5.28	3.32	5.95	15.50	24.70	56.75	15.38	4.45	1.85	1.08	
19	4.15	5.95	4.83	3.63	4.98	17.50	21.85	63.00	14.13	4.30	1.85	1.08	
20	5.35	5.95	4.22	4.22	4.53	21.55	19.00	115.00	13.25	4.30	1.85	1.02	
21	7.40	6.10	3.63	4.60	4.75	24.85	23.95	144.75	12.37	4.07	1.79	1.02	
22	10.60	6.48	3.78	5.05	5.50	25.45	31.60	140.70	11.75	3.93	1.59	1.02	
23	10.20	6.63	4.98	4.60	5.05	22.90	43.80	119.80	11.13	3.85	1.46	1.02	
24	9.90	6.25	5.88	4.00	4.60	18.85	70.00	97.15	10.70	3.93	1.85	1.02	
25	9.20	6.10	6.55	3.55	4.07	15.75	85.60	116.20	10.40	3.85	2.11	1.08	
26	10.20	5.58	7.20	3.32	3.70	13.25	80.35	125.40	10.20	3.78	2.30	1.39	
27	10.30	5.28	8.20	2.87	3.55	11.75	64.00	117.40	9.30	3.70	2.58	1.72	
28	14.13	5.20	8.10	2.50	3.48	10.30	59.00	129.45	8.80	3.63	2.58	1.98	
29	27.70	6.63	6.78	2.58	3.40	10.20	83.15	117.40	8.40	3.48		2.24	
30	31.20	5.88	6.10	2.50	3.32	12.75	91.55	96.80	8.20	3.40		3.85	
31		5.20		2.50	3.10		95.05		8.10	3.17		7.70	
Total	284.66	375.84	144.13	182.33	157.85	392.18	1666.00	3409.15	823.16	156.69	61.42	57.37	7710.78 CMSDAY
Mean	9.49	12.12	4.80	5.88	5.09	13.07	53.74	113.64	26.55	5.05	2.19	1.85	21.13 CMS
Max	31.20	56.50	8.20	16.30	8.80	25.45	95.05	193.40	75.50	7.60	3.02	7.70	193.40 CMS
Min	4.15	5.20	3.10	2.50	2.73	3.40	19.00	56.25	8.10	3.17	1.46	1.02	1.02 CMS
Runoff	24.595	32.473	12.453	15.753	13.638	33.884	143.942	294.551	71.121	13.538	5.307	4.957	666.211 MCM

Momentary Peak 195.80 CMS, at 8.06 M (MSL), at 18.00 Hours, on Nov 2, 1994

Runoff Yield 13.52 Liters/Second/Square KM, Momentary Peak Yield 125.35 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

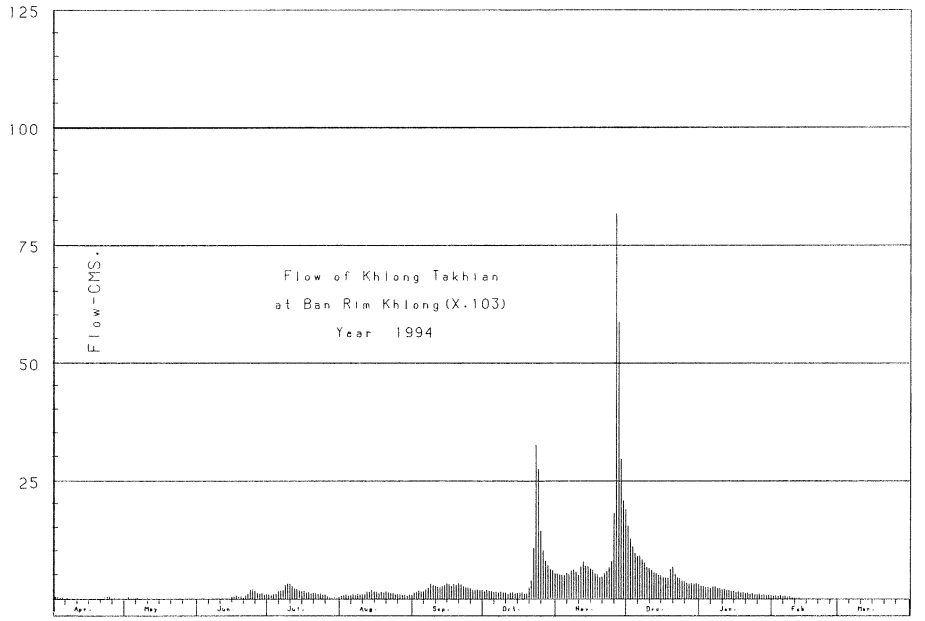
Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103)

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 good. Stage-discharge relation defined by 34 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.90	7.80	7.77	7.97	7.90	8.06	8.17	8.85	9.89	8.42	7.93	7.72	
2	7.87	7.85	7.77	7.97	7.97	8.13	8.21	8.85	9.69	8.38	7.92	7.71	
3	7.85	7.84	7.76	7.98	7.96	8.16	8.19	8.81	9.53	8.36	7.93	7.71	
4	7.84	7.82	7.76	8.04	7.95	8.16	8.15	8.82	9.41	8.34	7.93	7.71	
5	7.81	7.81	7.76	8.17	7.96	8.16	8.12	8.90	9.34	8.32	7.92	7.70	
6	7.80	7.80	7.75	8.16	7.97	8.22	8.10	8.82	9.33	8.39	7.91	7.70	
7	7.80	7.78	7.74	8.24	7.97	8.34	8.09	8.97	9.27	8.37	7.90	7.69	
8	7.79	7.77	7.73	8.43	7.98	8.48	8.10	8.98	9.18	8.33	7.88	7.69	
9	7.78	7.76	7.74	8.52	7.99	8.46	8.09	8.93	9.09	8.30	7.86	7.69	
10	7.77	7.77	7.74	8.48	7.96	8.39	8.05	8.80	9.03	8.27	7.85	7.68	
11	7.76	7.78	7.80	8.39	8.01	8.35	8.02	9.09	8.97	8.25	7.83	7.68	
12	7.75	7.79	7.82	8.32	8.11	8.36	8.09	9.23	8.91	8.23	7.82	7.68	
13	7.75	7.79	7.80	8.25	8.15	8.38	8.07	9.11	8.85	8.20	7.82	7.67	
14	7.74	7.80	7.77	8.21	8.20	8.46	8.05	9.12	8.82	8.18	7.81	7.67	
15	7.73	7.80	7.86	8.17	8.16	8.52	8.03	9.04	8.78	8.15	7.81	7.67	
16	7.73	7.78	7.90	8.14	8.10	8.45	8.08	8.97	8.75	8.13	7.80	7.67	
17	7.72	7.76	7.91	8.10	8.06	8.40	8.07	8.88	8.73	8.12	7.79	7.66	
18	7.71	7.75	7.88	8.07	8.09	8.47	8.03	8.81	8.69	8.11	7.78	7.66	
19	7.71	7.75	7.87	8.05	8.10	8.46	8.01	8.75	9.03	8.09	7.78	7.66	
20	7.71	7.74	7.86	8.04	8.13	8.49	8.35	8.74	9.08	8.08	7.77	7.66	
21	7.73	7.75	7.91	8.03	8.12	8.45	8.61	8.85	8.84	8.06	7.77	7.65	
22	7.84	7.77	8.03	8.03	8.08	8.40	9.51	8.96	8.74	8.04	7.76	7.65	
23	7.88	7.75	8.25	8.01	8.03	8.35	11.02	9.06	8.68	8.03	7.75	7.65	
24	7.87	7.76	8.22	7.99	7.99	8.31	10.73	9.23	8.63	8.02	7.75	7.65	
25	7.85	7.74	8.15	7.96	7.98	8.29	9.82	10.10	8.59	8.01	7.74	7.65	
26	7.83	7.72	8.10	7.92	7.98	8.25	9.44	12.50	8.55	8.00	7.73	7.65	
27	7.81	7.71	8.05	7.85	7.97	8.22	9.24	11.94	8.51	7.98	7.73	7.66	
28	7.80	7.71	8.02	7.85	7.95	8.22	9.12	10.85	8.49	7.97	7.72	7.66	
29	7.79	7.75	7.99	7.83	7.93	8.22	9.03	10.28	8.51	7.96		7.65	
30	7.78	7.76	7.98	7.83	7.95	8.19	8.96	10.16	8.50	7.95		7.65	
31		7.78		7.85	7.98		8.90		8.46	7.93		7.65	
Mean	7.79	7.77	7.89	8.09	8.02	8.33	8.60	9.35	8.93	8.16	7.82	7.67	
Max	7.90	7.85	8.25	8.52	8.20	8.52	11.02	12.50	9.89	8.42	7.93	7.72	12.50
Min	7.71	7.71	7.73	7.83	7.90	8.06	8.01	8.74	8.46	7.93	7.72	7.65	7.65

Annual Max Momentary Gage Height 12.72 M (MSL), at 18.00 Hours, on Nov 26, 1994
Zero Gage at Bottom Elevation 7.20 M (MSL), River Bed 7.12 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.20	0.17	0.96	0.65	1.34	1.78	5.35	15.57	2.90	0.78	0.12	
2	0.51	0.42	0.17	0.96	0.96	1.62	1.94	5.35	12.98	2.70	0.74	0.11	
3	0.42	0.38	0.16	1.01	0.92	1.74	1.86	5.10	11.13	2.60	0.78	0.11	
4	0.38	0.29	0.16	1.26	0.87	1.74	1.70	5.16	9.90	2.50	0.78	0.11	
5	0.24	0.24	0.16	1.78	0.92	1.74	1.58	5.66	9.20	2.40	0.74	0.10	
6	0.20	0.20	0.15	1.74	0.96	1.98	1.50	5.16	9.10	2.75	0.69	0.10	
7	0.20	0.18	0.14	2.06	0.96	2.50	1.46	6.09	8.50	2.65	0.65	0.09	
8	0.19	0.17	0.13	2.95	1.01	3.20	1.50	6.16	7.62	2.45	0.56	0.09	
9	0.18	0.16	0.14	3.40	1.05	3.10	1.46	5.85	6.84	2.30	0.47	0.09	
10	0.17	0.17	0.14	3.20	0.92	2.75	1.30	5.04	6.47	2.18	0.42	0.08	
11	0.16	0.18	0.20	2.75	1.14	2.55	1.18	6.84	6.09	2.10	0.33	0.08	
12	0.15	0.19	0.29	2.40	1.54	2.60	1.46	8.10	5.72	2.02	0.29	0.08	
13	0.15	0.19	0.20	2.10	1.70	2.70	1.38	6.99	5.35	1.90	0.29	0.07	
14	0.14	0.20	0.17	1.94	1.90	3.10	1.30	7.08	5.16	1.82	0.24	0.07	
15	0.13	0.20	0.47	1.78	1.74	3.40	1.22	6.53	4.92	1.70	0.24	0.07	
16	0.13	0.18	0.65	1.66	1.50	3.05	1.42	6.09	4.73	1.62	0.20	0.07	
17	0.12	0.16	0.69	1.50	1.34	2.80	1.38	5.54	4.61	1.58	0.19	0.06	
18	0.11	0.15	0.56	1.38	1.46	3.15	1.22	5.10	4.36	1.54	0.18	0.06	
19	0.11	0.15	0.51	1.30	1.50	3.10	1.14	4.73	6.47	1.46	0.18	0.06	
20	0.11	0.14	0.47	1.26	1.62	3.25	2.55	4.67	6.78	1.42	0.17	0.06	
21	0.13	0.15	0.69	1.22	1.58	3.05	3.86	5.35	5.29	1.34	0.17	0.05	
22	0.38	0.17	1.22	1.22	1.42	2.80	10.91	6.03	4.67	1.26	0.16	0.05	
23	0.56	0.15	2.10	1.14	1.22	2.55	32.82	6.65	4.30	1.22	0.15	0.05	
24	0.51	0.16	1.98	1.05	1.05	2.35	27.54	8.10	3.99	1.18	0.15	0.05	
25	0.42	0.14	1.70	0.92	1.01	2.26	14.66	18.40	3.75	1.14	0.14	0.05	
26	0.33	0.12	1.50	0.74	1.01	2.10	10.20	81.60	3.55	1.10	0.13	0.05	
27	0.24	0.11	1.30	0.42	0.96	1.98	8.20	58.90	3.35	1.01	0.13	0.06	
28	0.20	0.11	1.18	0.42	0.87	1.98	7.08	29.70	3.25	0.96	0.12	0.06	
29	0.19	0.15	1.05	0.33	0.78	1.98	6.47	20.88	3.35	0.92		0.05	
30	0.18	0.16	1.01	0.33	0.87	1.86	6.03	19.24	3.30	0.87		0.05	
31		0.18		0.42	1.01		5.66		3.10	0.78		0.05	
Total	7.59	5.75	19.46	45.60	36.44	74.32	163.76	371.44	193.40	54.37	10.07	2.25	984.45 CMSDAY
Mean	0.25	0.19	0.65	1.47	1.18	2.48	5.28	12.38	6.24	1.75	0.36	0.07	2.70 CMS
Max	0.65	0.42	2.10	3.40	1.90	3.40	32.82	81.60	15.57	2.90	0.78	0.12	81.60 CMS
Min	0.11	0.11	0.13	0.33	0.65	1.34	1.14	4.67	3.10	0.78	0.12	0.05	0.05 CMS
Runoff	0.656	0.497	1.681	3.940	3.148	6.421	14.149	32.092	16.710	4.698	0.870	0.194	85.056 MCM

Momentary Peak 91.44 CMS, at 12.72 M (MSL), at 18.00 Hours, on Nov 26, 1994

Runoff Yield 14.98 Liters/Second/Square KM, Momentary Peak Yield 508.00 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

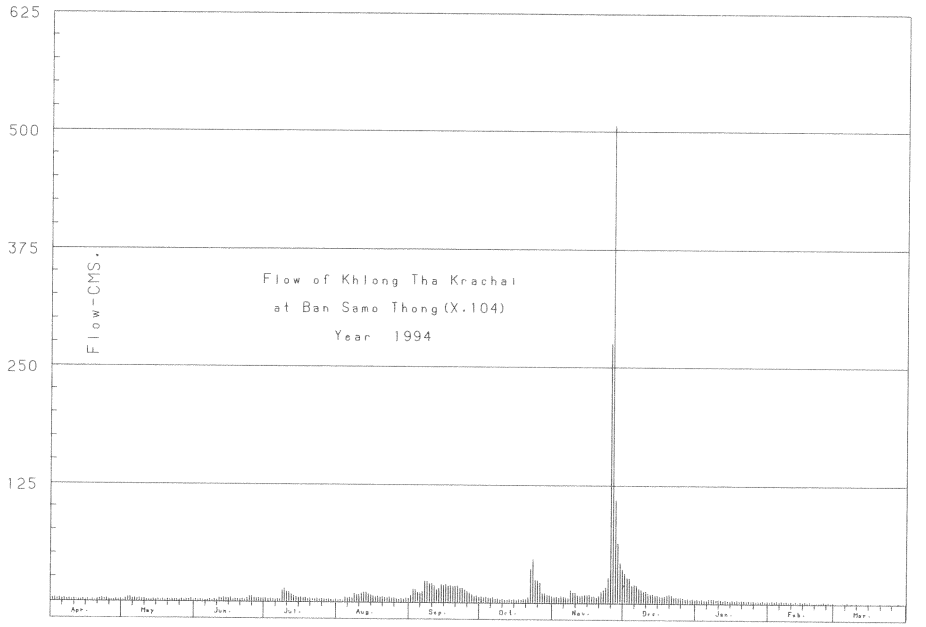
Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104)

Location	Lat.09-34-47 N., Long. 99-08-14 E., on left bank at Ban Samo Thong, Amphoe Tha Chana, Surat Thani.
Drainage Area	354 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+6.70 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 10 meters downstream from the top staff gage.
Elevation	+15.446 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +15.33 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.34	7.14	7.14	7.26	7.18	7.55	7.49	7.52	8.48	7.35	7.17	7.03	
2	7.31	7.22	7.14	7.26	7.17	7.94	7.48	7.50	8.37	7.34	7.17	7.03	
3	7.28	7.43	7.13	7.25	7.17	7.88	7.47	7.48	8.33	7.32	7.16	7.02	
4	7.26	7.37	7.13	7.24	7.45	7.78	7.46	7.55	8.10	7.30	7.16	7.02	
5	7.25	7.28	7.14	7.23	7.41	7.74	7.45	7.54	8.14	7.29	7.15	7.01	
6	7.23	7.25	7.15	7.20	7.40	7.79	7.44	7.46	8.08	7.38	7.15	7.01	
7	7.20	7.26	7.15	7.26	7.41	8.24	7.40	7.45	7.99	7.43	7.14	7.00	
8	7.19	7.25	7.14	7.84	7.66	8.20	7.34	7.91	7.91	7.39	7.14	7.00	
9	7.19	7.24	7.16	7.90	7.63	8.16	7.31	7.80	7.86	7.35	7.13	7.00	
10	7.18	7.18	7.15	7.79	7.59	8.13	7.30	7.75	7.83	7.31	7.13	6.99	
11	7.16	7.16	7.32	7.73	7.72	8.06	7.29	7.61	7.72	7.28	7.12	6.99	
12	7.15	7.15	7.32	7.64	7.73	7.92	7.28	7.60	7.70	7.27	7.12	6.99	
13	7.15	7.15	7.35	7.49	7.79	7.93	7.28	7.59	7.68	7.26	7.12	6.99	
14	7.14	7.14	7.36	7.47	7.64	8.13	7.27	7.68	7.64	7.25	7.11	6.98	
15	7.13	7.13	7.34	7.43	7.62	8.10	7.26	7.66	7.61	7.23	7.11	6.98	
16	7.10	7.12	7.33	7.40	7.51	8.10	7.26	7.64	7.59	7.25	7.10	6.98	
17	7.10	7.16	7.20	7.39	7.50	8.07	7.25	7.58	7.56	7.24	7.10	6.97	
18	7.10	7.15	7.19	7.36	7.49	8.06	7.31	7.53	7.55	7.23	7.09	6.97	
19	7.13	7.14	7.18	7.31	7.47	8.05	7.31	7.51	7.69	7.22	7.09	6.97	
20	7.16	7.13	7.21	7.30	7.46	8.04	7.36	7.57	7.67	7.22	7.09	6.96	
21	7.25	7.15	7.21	7.29	7.45	8.05	7.45	7.81	7.66	7.21	7.08	6.95	
22	7.25	7.17	7.20	7.28	7.44	7.99	8.62	7.93	7.52	7.20	7.08	6.95	
23	7.24	7.16	7.31	7.27	7.44	7.96	8.86	8.01	7.51	7.20	7.08	6.95	
24	7.23	7.15	7.50	7.27	7.42	7.92	8.29	8.38	7.49	7.20	7.07	6.96	
25	7.14	7.14	7.46	7.26	7.37	7.81	8.25	12.14	7.47	7.19	7.06	6.96	
26	7.14	7.14	7.40	7.26	7.29	7.73	8.20	14.21	7.44	7.18	7.05	6.99	
27	7.13	7.12	7.36	7.24	7.29	7.67	7.75	10.07	7.42	7.18	7.04	6.98	
28	7.15	7.14	7.30	7.20	7.32	7.56	7.71	9.24	7.40	7.17	7.03	6.98	
29	7.14	7.18	7.28	7.16	7.31	7.56	7.66	8.79	7.40	7.16		6.98	
30	7.13	7.24	7.27	7.17	7.35	7.50	7.59	8.60	7.38	7.16		6.97	
31		7.15		7.18	7.42		7.54		7.36	7.15		6.97	
Mean	7.19	7.19	7.25	7.37	7.45	7.92	7.58	8.24	7.73	7.26	7.11	6.98	
Max	7.34	7.43	7.50	7.90	7.79	8.24	8.86	14.21	8.48	7.43	7.17	7.03	14.21
Min	7.10	7.12	7.13	7.16	7.17	7.50	7.25	7.45	7.36	7.15	7.03	6.95	6.95

Annual Max Momentary Gage Height 15.58 M (MSL), at 6.00 Hours, on Nov 26, 1994
Zero Gage at Bottom Elevation 6.70 M (MSL), River Bed 6.74 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.00	2.12	2.12	3.20	2.44	7.00	6.04	6.52	31.08	4.10	2.36	1.24	
2	3.70	2.80	2.12	3.20	2.36	14.68	5.88	6.20	27.27	4.00	2.36	1.24	
3	3.40	5.08	2.04	3.10	2.36	13.36	5.72	5.88	26.03	3.80	2.28	1.16	
4	3.20	4.30	2.04	3.00	5.40	11.20	5.56	7.00	19.00	3.60	2.28	1.16	
5	3.10	3.40	2.12	2.90	4.76	10.40	5.40	6.84	20.20	3.50	2.20	1.08	
6	2.90	3.10	2.20	2.60	4.60	11.40	5.24	5.56	18.40	4.40	2.20	1.08	
7	2.60	3.20	2.20	3.20	4.76	23.24	4.60	5.40	15.78	5.08	2.12	1.00	
8	2.52	3.10	2.12	12.48	8.88	22.00	4.00	14.02	14.02	4.50	2.12	1.00	
9	2.52	3.00	2.28	13.80	8.34	20.80	3.70	11.60	12.92	4.10	2.04	1.00	
10	2.44	2.44	2.20	11.40	7.64	19.90	3.60	10.60	12.26	3.70	2.04	0.95	
11	2.28	2.28	3.80	10.20	10.00	17.80	3.50	7.98	10.00	3.40	1.96	0.95	
12	2.20	2.20	3.80	8.52	10.20	14.24	3.40	7.80	9.60	3.30	1.96	0.95	
13	2.20	2.20	4.10	6.04	11.40	14.46	3.40	7.64	9.24	3.20	1.96	0.95	
14	2.12	2.12	4.20	5.72	8.52	19.90	3.30	9.24	8.52	3.10	1.88	0.90	
15	2.04	2.04	4.00	5.08	8.16	19.00	3.20	8.88	7.98	2.90	1.88	0.90	
16	1.80	1.96	3.90	4.60	6.36	19.00	3.20	8.52	7.64	3.10	1.80	0.90	
17	1.80	2.28	2.60	4.50	6.20	18.10	3.10	7.48	7.16	3.00	1.80	0.85	
18	1.80	2.20	2.52	4.20	6.04	17.80	3.70	6.68	7.00	2.90	1.72	0.85	
19	2.04	2.12	2.44	3.70	5.72	17.50	3.70	6.36	9.42	2.80	1.72	0.85	
20	2.28	2.04	2.70	3.60	5.56	17.20	4.20	7.32	9.06	2.80	1.72	0.80	
21	3.10	2.20	2.70	3.50	5.40	17.50	5.40	11.82	8.88	2.70	1.64	0.75	
22	3.10	2.36	2.60	3.40	5.24	15.78	36.38	14.46	6.52	2.60	1.64	0.75	
23	3.00	2.28	3.70	3.30	5.24	15.12	45.98	16.30	6.36	2.60	1.64	0.75	
24	2.90	2.20	6.20	3.30	4.92	14.24	24.79	27.58	6.04	2.60	1.56	0.80	
25	2.12	2.12	5.56	3.20	4.30	11.82	23.55	275.72	5.72	2.52	1.48	0.80	
26	2.12	2.12	4.60	3.20	3.50	10.20	22.00	506.20	5.24	2.44	1.40	0.95	
27	2.04	1.96	4.20	3.00	3.50	9.06	10.60	109.81	4.92	2.44	1.32	0.90	
28	2.20	2.12	3.60	2.60	3.80	7.16	9.80	63.04	4.60	2.36	1.24	0.90	
29	2.12	2.44	3.40	2.28	3.70	7.16	8.88	43.01	4.60	2.28		0.90	
30	2.04	3.00	3.30	2.36	4.10	6.20	7.64	35.60	4.40	2.28		0.85	
31		2.20		2.44	4.92		6.84		4.20	2.20		0.85	
Total	75.68	78.98	95.36	147.62	178.32	443.22	286.30	1261.06	344.06	98.30	52.32	29.01	3090.23 CMSDAY
Mean	2.52	2.55	3.18	4.76	5.75	14.77	9.24	42.04	11.10	3.17	1.87	0.94	8.47 CMS
Max	4.00	5.08	6.20	13.80	11.40	23.24	45.98	506.20	31.08	5.08	2.36	1.24	506.20 CMS
Min	1.80	1.96	2.04	2.28	2.36	6.20	3.10	5.40	4.20	2.20	1.24	0.75	0.75 CMS
Runoff	6.539	6.824	8.239	12.754	15.407	38.294	24.736	108.956	29.727	8.493	4.520	2.506	266.996 MCM

Momentary Peak 677.40 CMS, at 15.58 M (MSL), at 6.00 Hours, on Nov 26, 1994

Runoff Yield 23.92 Liters/Second/Square KM, Momentary Peak Yield 1913.56 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

Khlong Mai Siap at Ban Mai Siap, Nakhon Si Thammarat (X.105)

Location — Lat.07°-51'-01" N., Long. 99°-55'-53" E., on left bank at the bridge of Nakhon Si Thammarat-Phatthalung Highway, at Ban Mai Siap, Amphoe Cha-uat, Nakhon Si Thammarat.

Drainage Area — 155 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +10.49 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — Infront of the station office.

Elevation — +20.279 m.(M.S.L.)

Gage Reading Frequency — 13-time daily readings at 06.00-18.00 hours.

Basis of Mean Daily Gage Height — Arithmetic mean of 13 readings.

Period of Available Gage Records — 1978 to date.

Rating Operation

Period of Rating — 1979 to date.

Rated by Float — -

Rated by Current Meter — 1979 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 26 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

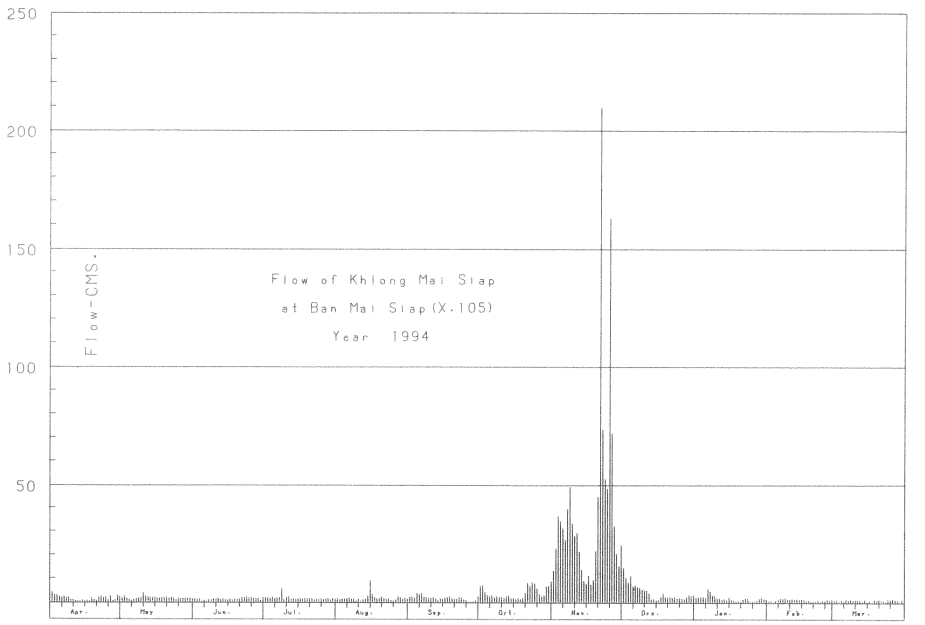
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.73	11.43	11.33	11.48	11.32	11.45	12.00	12.52	12.58	11.49	11.18	11.24	
2	11.66	11.53	11.32	11.40	11.32	11.48	12.06	13.01	12.35	11.46	11.18	11.23	
3	11.60	11.40	11.30	11.41	11.32	11.44	11.75	13.53	12.18	11.53	11.17	11.19	
4	11.56	11.25	11.17	11.43	11.36	11.74	11.65	13.45	12.43	11.46	11.17	11.23	
5	11.49	11.19	11.20	11.40	11.39	11.69	11.59	13.36	12.01	11.46	11.33	11.19	
6	11.49	11.21	11.17	11.38	11.37	11.68	11.59	13.16	12.02	11.91	11.36	11.27	
7	11.48	11.36	11.19	11.47	11.36	11.53	11.47	13.62	11.99	11.78	11.38	11.26	
8	11.43	11.35	11.26	11.92	11.30	11.42	11.50	13.91	11.92	11.64	11.39	11.26	
9	11.26	11.46	11.29	11.20	11.20	11.41	11.49	13.43	11.88	11.58	11.35	11.26	
10	11.20	11.70	11.34	11.51	11.30	11.39	11.43	13.23	11.83	11.46	11.33	11.28	
11	11.19	11.57	11.34	11.49	11.20	11.42	11.43	13.29	11.80	11.37	11.32	11.20	
12	11.18	11.49	11.32	11.31	11.24	11.38	11.59	12.93	11.72	11.33	11.32	11.19	
13	11.18	11.39	11.30	11.31	11.37	11.19	11.57	12.56	11.33	11.29	11.31	11.19	
14	11.18	11.46	11.27	11.35	11.57	11.41	11.41	12.21	11.28	11.29	11.31	11.25	
15	11.17	11.42	11.26	11.35	12.25	11.35	11.35	12.13	11.26	11.46	11.30	11.16	
16	11.16	11.33	11.26	11.32	11.65	11.37	11.33	12.42	11.22	11.31	11.27	11.14	
17	11.17	11.40	11.25	11.32	11.48	11.49	11.36	12.06	11.53	11.19	11.20	11.13	
18	11.37	11.40	11.27	11.32	11.32	11.49	11.34	12.29	11.69	11.18	11.19	11.25	
19	11.28	11.43	11.28	11.34	11.40	11.39	11.37	12.96	11.52	11.17	11.18	11.26	
20	11.18	11.44	11.28	11.32	11.46	11.31	11.70	13.78	11.43	11.17	11.18	11.25	
21	11.47	11.42	11.40	11.31	11.41	11.29	12.16	16.94	11.56	11.29	11.18	11.24	
22	11.50	11.44	11.46	11.26	11.34	11.48	12.03	14.57	11.48	11.45	11.19	11.16	
23	11.44	11.36	11.44	11.28	11.32	11.39	12.15	14.01	11.44	11.35	11.18	11.15	
24	11.42	11.26	11.42	11.27	11.26	11.31	12.14	13.88	11.40	11.18	11.15	11.30	
25	11.26	11.35	11.42	11.29	11.14	11.17	11.89	16.29	11.37	11.17	11.23	11.30	
26	11.53	11.31	11.40	11.34	11.23	11.15	11.66	14.52	11.36	11.17	11.24	11.29	
27	11.19	11.34	11.37	11.33	11.55	11.15	11.57	13.39	11.34	11.17	11.25	11.30	
28	11.18	11.35	11.34	11.32	11.41	11.14	11.59	12.88	11.46	11.39	11.25	11.17	
29	11.64	11.38	11.17	11.30	11.36	11.15	12.00	12.64	11.66	11.39		11.15	
30	11.47	11.36	11.43	11.34	11.35	11.58	11.99	13.06	11.56	11.38		11.23	
31		11.34		11.35	11.36		12.22		11.61	11.29		11.20	
Mean	11.37	11.39	11.31	11.37	11.38	11.39	11.69	13.40	11.68	11.38	11.25	11.22	
Max	11.73	11.70	11.46	11.92	12.25	11.74	12.22	16.94	12.58	11.91	11.39	11.30	16.94
Min	11.16	11.19	11.17	11.20	11.14	11.14	11.33	12.06	11.22	11.17	11.15	11.13	11.13

Annual Max Momentary Gage Height — 18.23 M (MSL), at 13.00 Hours, on Nov 21, 1994

Zero Gage at Bottom Elevation — 10.49 M (MSL), River Bed — 10.54 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.30	2.15	1.65	2.40	1.60	2.25	7.00	13.40	14.60	2.45	0.90	1.20	
2	3.60	2.65	1.60	2.00	1.60	2.40	7.60	23.20	10.50	2.30	0.90	1.15	
3	3.00	2.00	1.50	2.05	1.60	2.20	4.50	36.90	8.80	2.65	0.85	0.95	
4	2.80	1.25	0.85	2.15	1.80	4.40	3.50	34.50	11.60	2.30	0.85	1.15	
5	2.45	0.95	1.00	2.00	1.95	3.90	2.95	31.80	7.10	2.30	1.65	0.95	
6	2.45	1.05	0.85	1.90	1.85	3.80	2.95	26.50	7.20	6.10	1.80	1.35	
7	2.40	1.80	0.95	2.35	1.80	2.65	2.35	39.60	6.90	4.80	1.90	1.30	
8	2.15	1.75	1.30	6.20	1.50	2.10	2.50	49.35	6.20	3.40	1.95	1.30	
9	1.30	2.30	1.45	1.00	1.00	2.05	2.45	33.90	5.80	2.90	1.75	1.30	
10	1.00	4.00	1.70	2.55	1.50	1.95	2.15	28.25	5.30	2.30	1.65	1.40	
11	0.95	2.85	1.70	2.45	1.00	2.10	2.15	29.75	5.00	1.85	1.60	1.00	
12	0.90	2.45	1.60	1.55	1.20	1.90	2.95	21.60	4.20	1.65	1.60	0.95	
13	0.90	1.95	1.50	1.55	1.85	0.95	2.85	14.20	1.65	1.45	1.55	0.95	
14	0.90	2.30	1.35	1.75	2.85	2.05	2.05	9.10	1.40	1.45	1.55	1.25	
15	0.85	2.10	1.30	1.75	9.50	1.75	1.75	8.30	1.30	2.30	1.50	0.80	
16	0.80	1.65	1.30	1.60	3.50	1.85	1.65	11.40	1.10	1.55	1.35	0.70	
17	0.85	2.00	1.25	1.60	2.40	2.45	1.80	7.60	2.65	0.95	1.00	0.65	
18	1.85	2.00	1.35	1.60	1.60	2.45	1.70	9.90	3.90	0.90	0.95	1.25	
19	1.40	2.15	1.40	1.70	2.00	1.95	1.85	22.20	2.60	0.85	0.90	1.30	
20	0.90	2.20	1.40	1.60	2.30	1.55	4.00	44.80	2.15	0.85	0.90	1.25	
21	2.35	2.10	2.00	1.55	2.05	1.45	8.60	209.70	2.80	1.45	0.90	1.20	
22	2.50	2.20	2.30	1.30	1.70	2.40	7.30	73.80	2.40	2.25	0.95	0.80	
23	2.20	1.80	2.20	1.40	1.60	1.95	8.50	52.85	2.20	1.75	0.90	0.75	
24	2.10	1.30	2.10	1.35	1.30	1.55	8.40	48.30	2.00	0.90	0.75	1.50	
25	1.30	1.75	2.10	1.45	0.70	0.85	5.90	163.35	1.85	0.85	1.15	1.50	
26	2.65	1.55	2.00	1.70	1.15	0.75	3.60	71.80	1.80	0.85	1.20	1.45	
27	0.95	1.70	1.85	1.65	2.75	0.75	2.85	32.70	1.70	0.85	1.25	1.50	
28	0.90	1.75	1.70	1.60	2.05	0.70	2.95	20.60	2.30	1.95	1.25	0.85	
29	3.40	1.90	0.85	1.50	1.80	0.75	7.00	15.80	3.60	1.95		0.75	
30	2.35	1.80	2.15	1.70	1.75	2.90	6.90	24.20	2.80	1.90		1.15	
31		1.70		1.75	1.80		9.20		3.10	1.45		1.00	
Total	56.45	61.10	46.25	58.70	63.05	60.75	131.90	1209.35	136.50	61.45	35.45	34.60	1955.55 CMSDAY
Mean	1.88	1.97	1.54	1.89	2.03	2.03	4.25	40.31	4.40	1.98	1.27	1.12	5.36 CMS
Max	4.30	4.00	2.30	6.20	9.50	4.40	9.20	209.70	14.60	6.10	1.95	1.50	209.70 CMS
Min	0.80	0.95	0.85	1.00	0.70	0.70	1.65	7.60	1.10	0.85	0.75	0.65	0.65 CMS
Runoff	4.877	5.279	3.996	5.072	5.448	5.249	11.396	104.488	11.794	5.309	3.063	2.989	168.960 MCM

Momentary Peak 333.30 CMS, at 18.23 M (MSL), at 13.00 Hours, on Nov 21, 1994

Runoff Yield 34.57 Liters/Second/Square KM, Momentary Peak Yield 2150.32 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

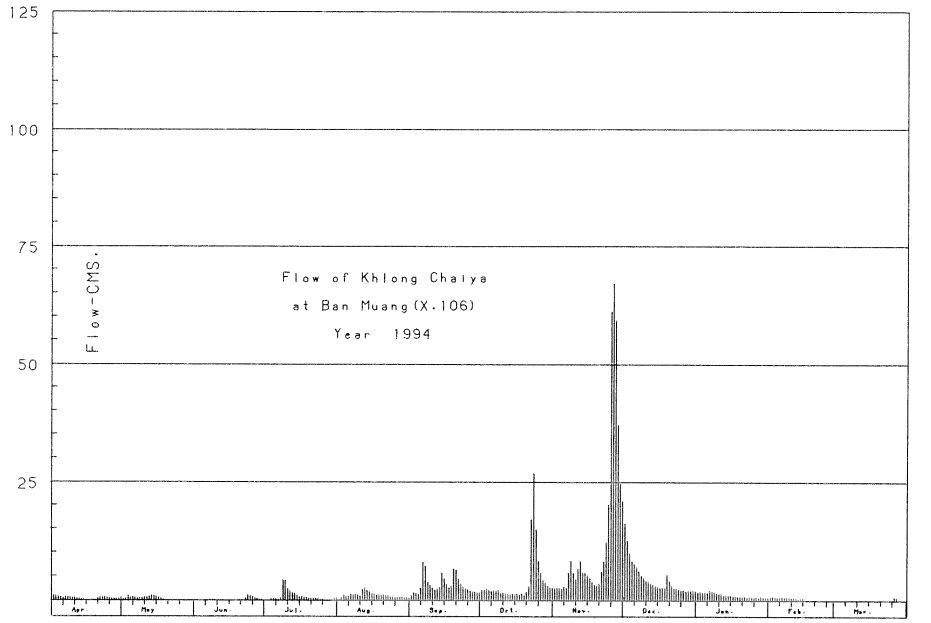
Khlong Chaiya at Ban Muang, Surat Thani (X.106)

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	Fairly 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 11 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.13	6.92	6.74	6.82	6.89	7.09	7.41	7.51	8.68	7.34	7.05	6.65	
2	7.09	6.93	6.73	6.85	6.97	7.30	7.45	7.55	8.50	7.34	7.03	6.80	
3	7.04	7.13	6.72	6.91	7.15	7.23	7.49	7.53	8.33	7.32	7.04	6.82	
4	7.01	7.07	6.70	6.93	7.04	7.20	7.43	7.52	8.21	7.30	6.99	6.71	
5	6.99	7.02	6.69	6.91	7.08	7.53	7.39	7.59	8.15	7.31	7.01	6.70	
6	7.02	6.97	6.78	6.89	7.18	8.18	7.38	7.55	8.11	7.42	7.02	6.65	
7	7.02	6.94	6.89	6.95	7.18	8.12	7.40	7.98	8.02	7.40	7.02	6.65	
8	6.98	6.94	6.87	7.83	7.17	7.77	7.42	8.21	7.94	7.31	7.00	6.85	
9	6.97	6.97	6.86	7.80	7.13	7.65	7.27	7.99	7.88	7.28	7.02	6.88	
10	6.96	6.99	6.83	7.52	7.09	7.53	7.24	7.84	7.81	7.24	7.00	6.89	
11	6.95	7.01	6.73	7.38	7.48	7.44	7.21	8.06	7.77	7.19	6.96	6.87	
12	6.93	7.03	6.71	7.29	7.54	7.49	7.20	8.21	7.73	7.15	6.97	6.86	
13	6.90	7.11	6.69	7.24	7.43	7.59	7.20	8.00	7.69	7.10	6.88	6.87	
14	6.86	7.09	6.68	7.13	7.32	7.98	7.19	7.98	7.65	7.12	6.95	6.89	
15	6.85	7.03	6.70	7.04	7.24	7.87	7.16	7.94	7.60	7.10	6.95	6.82	
16	6.84	6.99	6.69	7.02	7.18	7.69	7.19	7.86	7.58	7.07	6.93	6.86	
17	6.84	6.94	6.68	7.00	7.16	7.57	7.16	7.75	7.55	7.07	6.86	6.77	
18	6.85	6.87	6.75	6.98	7.15	7.63	7.19	7.68	7.57	7.05	6.84	6.70	
19	6.87	6.81	6.77	6.95	7.14	8.06	7.13	7.64	7.95	7.05	6.83	6.69	
20	6.96	6.75	6.78	6.93	7.13	8.05	7.30	7.71	7.81	7.05	6.83	6.67	
21	6.98	6.71	6.81	6.94	7.12	7.86	7.62	8.01	7.64	7.05	6.80	6.66	
22	7.00	6.72	6.97	6.94	7.08	7.72	8.72	8.19	7.55	7.04	6.76	6.65	
23	7.01	6.73	7.17	6.92	7.03	7.60	9.18	8.48	7.52	7.03	6.73	6.64	
24	6.99	6.73	7.10	6.89	7.01	7.52	8.62	8.88	7.48	7.04	6.71	6.64	
25	6.94	6.74	7.02	6.88	7.00	7.44	8.21	10.33	7.45	7.02	6.69	6.63	
26	6.92	6.75	6.98	6.86	7.00	7.40	7.98	10.50	7.42	7.00	6.68	7.03	
27	6.90	6.75	6.94	6.86	7.03	7.33	7.82	10.27	7.39	6.99	6.67	6.96	
28	6.91	6.75	6.90	6.84	7.00	7.31	7.73	9.55	7.39	7.03	6.67	6.83	
29	6.93	6.75	6.86	6.82	6.98	7.29	7.65	9.09	7.41	7.03		6.78	
30	6.99	6.74	6.84	6.93	6.96	7.26	7.56	8.92	7.40	6.96		6.71	
31		6.74		6.95	6.97		7.54		7.37	6.97		6.69	
Mean	6.95	6.89	6.82	7.04	7.12	7.59	7.56	8.28	7.76	7.14	6.89	6.77	
Max	7.13	7.13	7.17	7.83	7.54	8.18	9.18	10.50	8.68	7.42	7.05	7.03	10.50
Min	6.84	6.71	6.68	6.82	6.89	7.09	7.13	7.51	7.37	6.96	6.67	6.63	6.63

Annual Max Momentary Gage Height 10.51 M (MSL), at 12.00 Hours, on Nov 26, 1994
Zero Gage at Bottom Elevation 7.06 M (MSL), River Bed 6.48 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.15	0.42	0.00	0.07	0.31	1.01	2.14	2.54	16.30	1.89	0.88	0.00	
2	1.01	0.45	0.00	0.17	0.59	1.75	2.30	2.70	12.80	1.89	0.81	0.00	
3	0.84	1.15	0.00	0.38	1.22	1.50	2.46	2.62	10.05	1.82	0.84	0.07	
4	0.74	0.95	0.00	0.45	0.84	1.40	2.22	2.58	8.43	1.75	0.66	0.00	
5	0.66	0.77	0.00	0.38	0.98	2.62	2.06	2.86	7.70	1.78	0.74	0.00	
6	0.77	0.59	0.00	0.31	1.33	8.06	2.03	2.70	7.22	2.18	0.77	0.00	
7	0.77	0.49	0.31	0.52	1.33	7.34	2.10	5.80	6.22	2.10	0.77	0.00	
8	0.63	0.49	0.24	4.44	1.29	3.99	2.18	8.43	5.40	1.78	0.70	0.17	
9	0.59	0.59	0.21	4.20	1.15	3.20	1.64	5.90	4.84	1.68	0.77	0.28	
10	0.56	0.66	0.10	2.58	1.01	2.62	1.54	4.52	4.28	1.54	0.70	0.31	
11	0.52	0.74	0.00	2.03	2.42	2.26	1.43	6.66	3.99	1.36	0.56	0.24	
12	0.45	0.81	0.00	1.71	2.66	2.46	1.40	8.43	3.71	1.22	0.59	0.21	
13	0.35	1.08	0.00	1.54	2.22	2.86	1.40	6.00	3.44	1.05	0.28	0.24	
14	0.21	1.01	0.00	1.15	1.82	5.80	1.36	5.80	3.20	1.12	0.52	0.31	
15	0.17	0.81	0.00	0.84	1.54	4.76	1.26	5.40	2.90	1.05	0.52	0.07	
16	0.14	0.66	0.00	0.77	1.33	3.44	1.36	4.68	2.82	0.95	0.45	0.21	
17	0.14	0.49	0.00	0.70	1.26	2.78	1.26	3.85	2.70	0.95	0.21	0.00	
18	0.17	0.24	0.00	0.63	1.22	3.08	1.36	3.38	2.78	0.88	0.14	0.00	
19	0.24	0.03	0.00	0.52	1.19	6.66	1.15	3.14	5.50	0.88	0.10	0.00	
20	0.56	0.00	0.00	0.45	1.15	6.55	1.75	3.57	4.28	0.88	0.10	0.00	
21	0.63	0.00	0.03	0.49	1.12	4.68	3.02	6.11	3.14	0.88	0.00	0.00	
22	0.70	0.00	0.59	0.49	0.98	3.64	17.10	8.18	2.70	0.84	0.00	0.00	
23	0.74	0.00	1.29	0.42	0.81	2.90	27.00	12.46	2.58	0.81	0.00	0.00	
24	0.66	0.00	1.05	0.31	0.74	2.58	15.10	20.30	2.42	0.84	0.00	0.00	
25	0.49	0.00	0.77	0.28	0.70	2.26	8.43	61.42	2.30	0.77	0.00	0.00	
26	0.42	0.00	0.63	0.21	0.70	2.10	5.80	67.30	2.18	0.70	0.00	0.81	
27	0.35	0.00	0.49	0.21	0.81	1.85	4.36	59.38	2.06	0.66	0.00	0.56	
28	0.38	0.00	0.35	0.14	0.70	1.78	3.71	37.35	2.06	0.81	0.00	0.10	
29	0.45	0.00	0.21	0.07	0.63	1.71	3.20	24.78	2.14	0.81		0.00	
30	0.66	0.00	0.14	0.45	0.56	1.61	2.74	21.12	2.10	0.56		0.00	
31		0.00		0.52	0.59		2.66		1.99	0.59		0.00	
Total	16.15	12.43	6.41	27.43	35.20	99.25	127.52	409.96	144.23	37.02	11.11	3.58	930.29 CMSDAY
Mean	0.54	0.40	0.21	0.88	1.14	3.31	4.11	13.67	4.65	1.19	0.40	0.12	2.55 CMS
Max	1.15	1.15	1.29	4.44	2.66	8.06	27.00	67.30	16.30	2.18	0.88	0.81	67.30 CMS
Min	0.14	0.00	0.00	0.07	0.31	1.01	1.15	2.54	1.99	0.56	0.00	0.00	0.00 CMS
Runoff	1.395	1.074	0.554	2.370	3.041	8.575	11.018	35.421	12.461	3.199	0.960	0.309	80.377 MCM

Momentary Peak 67.65 CMS, at 10.51 M (MSL), at 12.00 Hours, on Nov 26, 1994

Runoff Yield 8.25 Liters/Second/Square KM, Momentary Peak Yield 218.93 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

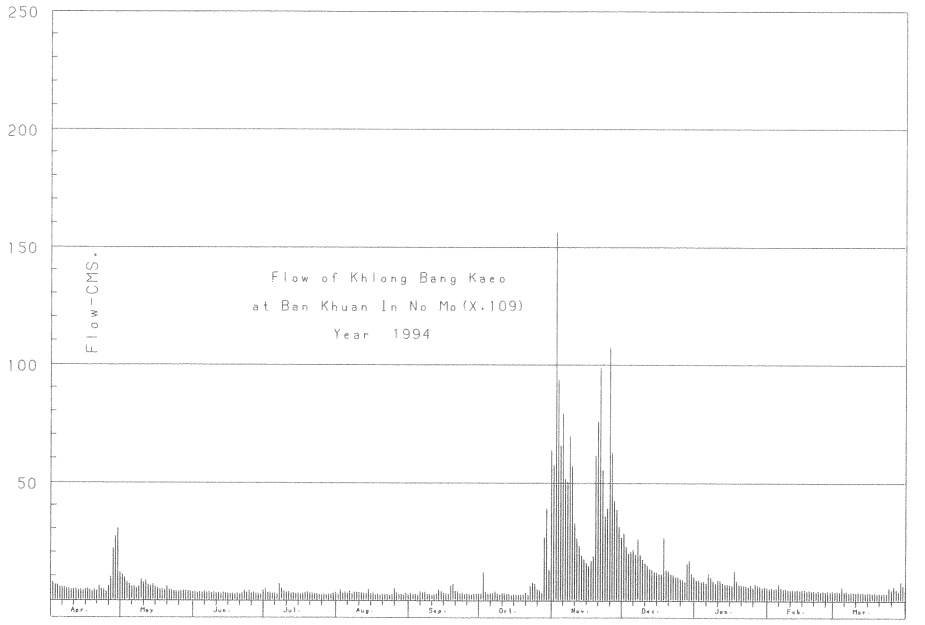
Khlong Bang Kaeo at Ban Khuan In No Mo, Phatthalung (X.109)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 73 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.91	1.15	0.65	0.73	0.60	0.61	0.61	3.24	2.07	1.00	0.76	0.67	
2	0.87	1.05	0.64	0.64	0.70	0.59	1.22	5.55	1.77	0.98	0.76	0.66	
3	0.84	0.94	0.64	0.63	0.63	0.58	0.64	4.41	1.64	0.95	0.75	0.66	
4	0.80	0.87	0.64	0.62	0.64	0.58	0.61	3.57	1.66	0.94	0.75	0.78	
5	0.80	0.82	0.66	0.61	0.63	0.66	0.62	4.01	1.71	0.92	0.88	0.67	
6	0.77	0.80	0.64	0.60	0.66	0.64	0.61	3.00	1.62	1.17	0.76	0.66	
7	0.76	0.77	0.64	0.88	0.61	0.64	0.67	2.98	1.94	1.07	0.75	0.65	
8	0.74	0.79	0.63	0.77	0.64	0.60	0.59	3.69	1.60	0.96	0.74	0.65	
9	0.73	1.01	0.63	0.67	0.66	0.58	0.58	3.24	1.50	0.91	0.73	0.65	
10	0.72	0.93	0.63	0.66	0.63	0.57	0.62	2.26	1.43	1.00	0.72	0.64	
11	0.72	0.96	0.62	0.65	0.64	0.57	0.60	1.93	1.37	0.96	0.71	0.64	
12	0.71	0.86	0.62	0.63	0.61	0.61	0.60	1.78	1.31	0.90	0.71	0.64	
13	0.71	0.81	0.63	0.62	0.61	0.70	0.58	1.59	1.27	0.88	0.71	0.63	
14	0.70	0.88	0.62	0.61	0.72	0.68	0.57	1.50	1.23	0.86	0.71	0.63	
15	0.71	0.79	0.61	0.61	0.62	0.61	0.57	1.43	1.20	0.84	0.70	0.62	
16	0.75	0.76	0.61	0.60	0.62	0.59	0.56	1.35	1.17	0.84	0.70	0.62	
17	0.70	0.74	0.60	0.60	0.59	0.60	0.58	1.48	1.15	1.26	0.70	0.63	
18	0.68	0.72	0.60	0.65	0.58	0.82	0.56	1.56	1.97	0.96	0.70	0.62	
19	0.71	0.71	0.60	0.64	0.58	0.89	0.59	3.40	1.28	0.88	0.69	0.61	
20	0.68	0.80	0.60	0.63	0.58	0.69	0.62	3.91	1.24	0.85	0.68	0.61	
21	0.83	0.73	0.61	0.61	0.59	0.66	0.58	4.53	1.17	0.85	0.68	0.61	
22	0.72	0.70	0.71	0.61	0.58	0.62	0.81	3.17	1.13	0.82	0.68	0.61	
23	0.71	0.68	0.63	0.60	0.58	0.62	0.93	2.38	1.09	0.81	0.67	0.62	
24	0.68	0.67	0.70	0.59	0.58	0.60	0.87	2.50	1.07	0.84	0.67	0.77	
25	0.83	0.67	0.63	0.58	0.76	0.59	0.74	4.75	1.03	0.79	0.67	0.72	
26	1.06	0.67	0.63	0.58	0.62	0.59	0.69	3.46	0.99	0.86	0.67	0.80	
27	1.74	0.71	0.62	0.58	0.59	0.58	0.64	2.63	0.96	0.84	0.67	0.74	
28	1.98	0.67	0.60	0.58	0.58	0.58	1.98	2.49	1.42	0.80	0.67	0.66	
29	2.17	0.69	0.60	0.59	0.58	0.60	2.50	2.18	1.47	0.78		0.95	
30	1.19	0.66	0.69	0.60	0.61	0.59	1.28	1.96	1.17	0.78		0.82	
31		0.66		0.63	0.58		3.48		1.07	0.77		0.69	
Mean	0.90	0.80	0.63	0.63	0.62	0.63	0.87	2.86	1.38	0.91	0.71	0.68	
Max	2.17	1.15	0.71	0.88	0.76	0.89	3.48	5.55	2.07	1.26	0.88	0.95	5.55
Min	0.68	0.66	0.60	0.58	0.58	0.57	0.56	1.35	0.96	0.77	0.67	0.61	0.56

Annual Max Momentary Gage Height 6.01 M (A.D), at 4.00 Hours, on Nov 2, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.09 M (A.D)
Left Bank Elevation 7.43 M (A.D)
Right Bank Elevation 6.86 M (A.D), Drainage Area 133 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.65	11.25	3.75	4.95	3.00	3.15	3.15	57.50	28.90	9.00	5.40	4.05	
2	7.05	9.75	3.60	3.60	4.50	2.85	12.30	156.50	22.90	8.70	5.40	3.90	
3	6.60	8.10	3.60	3.45	3.45	2.70	3.60	93.90	20.30	8.25	5.25	3.90	
4	6.00	7.05	3.60	3.30	3.60	2.70	3.15	66.10	20.70	8.10	5.25	5.70	
5	6.00	6.30	3.90	3.15	3.45	3.90	3.30	79.35	21.70	7.80	7.20	4.05	
6	5.55	6.00	3.60	3.00	3.90	3.60	3.15	51.50	19.90	11.55	5.40	3.90	
7	5.40	5.55	3.60	7.20	3.15	3.60	4.05	51.00	26.30	10.05	5.25	3.75	
8	5.10	5.85	3.45	5.55	3.60	3.00	2.85	69.70	19.50	8.40	5.10	3.75	
9	4.95	9.15	3.45	4.05	3.90	2.70	2.70	57.50	17.50	7.65	4.95	3.75	
10	4.80	7.95	3.45	3.90	3.45	2.55	3.30	33.00	16.10	9.00	4.80	3.60	
11	4.80	8.40	3.30	3.75	3.60	2.55	3.00	26.10	14.90	8.40	4.65	3.60	
12	4.65	6.90	3.30	3.45	3.15	3.15	3.00	23.10	13.70	7.50	4.65	3.60	
13	4.65	6.15	3.45	3.30	3.15	4.50	2.70	19.30	13.05	7.20	4.65	3.45	
14	4.50	7.20	3.30	3.15	4.80	4.20	2.55	17.50	12.45	6.90	4.65	3.45	
15	4.65	5.85	3.15	3.15	3.30	3.15	2.55	16.10	12.00	6.60	4.50	3.30	
16	5.25	5.40	3.15	3.00	3.30	2.85	2.40	14.50	11.55	6.60	4.50	3.30	
17	4.50	5.10	3.00	3.00	2.85	3.00	2.70	17.10	11.25	12.90	4.50	3.45	
18	4.20	4.80	3.00	3.75	2.70	6.30	2.40	18.70	26.90	8.40	4.50	3.30	
19	4.65	4.65	3.00	3.60	2.70	7.35	2.85	61.50	13.20	7.20	4.35	3.15	
20	4.20	6.00	3.00	3.45	2.70	4.35	3.30	76.30	12.60	6.75	4.20	3.15	
21	6.45	4.95	3.15	3.15	2.85	3.90	2.70	98.70	11.55	6.75	4.20	3.15	
22	4.80	4.50	4.65	3.15	2.70	3.30	6.15	55.75	10.95	6.30	4.20	3.15	
23	4.65	4.20	3.45	3.00	2.70	3.30	7.95	36.00	10.35	6.15	4.05	3.30	
24	4.20	4.05	4.50	2.85	2.70	3.00	7.05	39.00	10.05	6.60	4.05	5.55	
25	6.45	4.05	3.45	2.70	5.40	2.85	5.10	107.75	9.45	5.85	4.05	4.80	
26	9.90	4.05	3.45	2.70	3.30	2.85	4.35	63.00	8.85	6.90	4.05	6.00	
27	22.30	4.65	3.30	2.70	2.85	2.70	3.60	42.25	8.40	6.60	4.05	5.10	
28	27.10	4.05	3.00	2.70	2.70	2.70	27.10	38.75	15.90	6.00	4.05	3.90	
29	30.90	4.35	3.00	2.85	2.70	3.00	39.00	31.10	16.90	5.70		8.25	
30	11.85	3.90	4.35	3.00	3.15	2.85	13.20	26.70	11.55	5.70		6.30	
31		3.90		3.45	2.70		63.50		10.05	5.55		4.35	
Total	233.75	184.05	103.95	108.00	102.00	102.60	248.70	1545.25	479.40	235.05	131.85	127.95	3602.55 CMSDAY
Mean	7.79	5.94	3.47	3.48	3.29	3.42	8.02	51.51	15.46	7.58	4.71	4.13	9.87 CMS
Max	30.90	11.25	4.65	7.20	5.40	7.35	63.50	156.50	28.90	12.90	7.20	8.25	156.50 CMS
Min	4.20	3.90	3.00	2.70	2.70	2.55	2.40	14.50	8.40	5.55	4.05	3.15	2.40 CMS
Runoff	20.196	15.902	8.981	9.331	8.813	8.865	21.488	133.510	41.420	20.308	11.392	11.055	311.260 MCM

Momentary Peak 209.50 CMS, at 6.01 M (A.D), at 4.00 Hours, on Nov 2, 1994

Runoff Yield 74.21 Liters/Second/Square KM, Momentary Peak Yield 1575.19 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

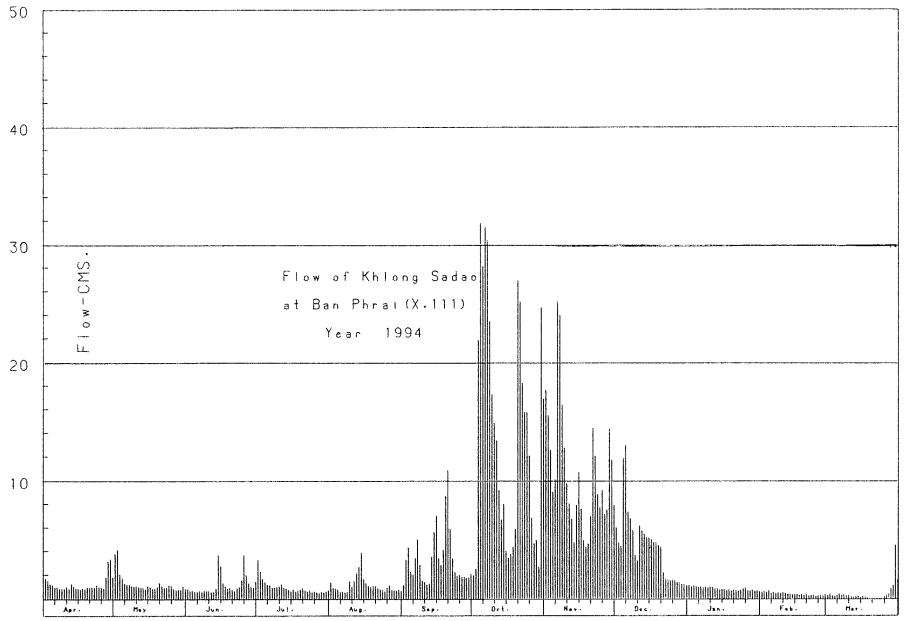
Khlong Sadao at Ban Phrai, Songkhla (X.111)

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	Overbank flow starts at elevation +4.04 m.(A.D.),records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.59	1.37	0.11	1.20	0.39	0.28	0.69	3.27	1.99	0.28	0.02	-0.18	
2	0.47	1.51	0.08	0.89	0.20	1.23	0.97	3.11	1.71	0.26	0.02	-0.12	
3	0.36	0.75	0.05	0.55	0.14	1.58	3.52	2.88	1.60	0.26	0.02	-0.19	
4	0.29	0.61	0.04	0.45	0.12	0.84	3.96	2.48	2.81	0.26	0.05	-0.19	
5	0.22	0.38	0.03	0.33	0.02	0.76	3.81	2.62	2.91	0.23	-0.05	-0.17	
6	0.20	0.30	0.02	0.27	-0.01	1.25	3.95	3.68	2.23	0.20	-0.05	-0.14	
7	0.16	0.33	0.02	0.21	-0.01	1.76	3.90	3.63	2.15	0.20	-0.06	-0.16	
8	0.13	0.25	0.04	0.18	-0.02	1.08	3.60	3.18	1.96	0.20	-0.07	-0.19	
9	0.16	0.26	0.06	0.24	0.48	0.50	3.24	2.89	1.36	0.20	-0.06	-0.20	
10	0.21	0.24	0.03	0.23	0.21	0.40	3.06	2.57	1.19	0.20	-0.06	-0.21	
11	0.16	0.24	0.02	0.32	0.44	0.29	2.95	2.34	2.02	0.20	-0.09	-0.25	
12	0.35	0.21	-0.02	0.21	0.82	0.37	2.51	2.14	1.95	0.17	-0.10	-0.27	
13	0.23	0.16	0.16	0.14	1.00	1.29	2.13	1.69	1.88	0.14	-0.13	-0.25	
14	0.19	0.14	1.33	0.11	1.43	1.92	2.33	2.33	1.82	0.13	-0.13	-0.26	
15	0.14	0.24	1.05	0.06	0.58	2.19	1.44	2.69	1.80	0.12	-0.13	-0.26	
16	0.14	0.20	0.40	0.10	0.36	1.25	1.26	2.27	1.78	0.10	-0.16	-0.27	
17	0.15	0.16	0.23	0.04	0.27	1.07	1.39	1.76	1.72	0.08	-0.17	-0.27	
18	0.15	0.12	0.17	0.06	0.20	1.48	1.57	1.59	1.69	0.07	-0.17	-0.35	
19	0.19	0.24	0.16	0.13	0.28	2.44	1.96	1.65	1.63	0.06	-0.17	-0.35	
20	0.22	0.38	0.08	0.15	0.23	2.70	3.76	2.18	1.56	0.06	-0.18	-0.34	
21	0.19	0.28	0.07	0.06	0.18	1.96	3.68	3.03	0.86	0.06	-0.18	-0.34	
22	0.21	0.19	0.19	0.04	0.13	1.26	3.31	2.82	0.57	0.06	-0.18	-0.35	
23	0.28	0.18	0.20	0.06	0.07	0.86	3.13	2.46	0.51	0.05	-0.20	-0.34	
24	0.24	0.30	0.52	0.01	0.05	0.67	3.13	2.30	0.51	0.15	-0.22	-0.34	
25	0.17	0.25	1.36	0.01	0.17	0.70	2.83	2.50	0.50	0.16	-0.24	-0.22	
26	0.18	0.12	0.70	0.01	0.27	0.66	2.14	2.20	0.48	0.09	-0.21	-0.19	
27	0.64	0.10	0.40	-0.03	0.11	0.67	1.69	2.26	0.43	0.07	-0.20	-0.07	
28	1.16	0.10	0.21	-0.01	0.05	0.58	1.75	3.03	0.39	0.06	-0.17	0.14	
29	1.24	0.10	0.21	-0.01	0.07	0.62	1.02	2.79	0.34	0.05		0.31	
30	0.62	0.24	0.43	0.01	0.08	0.75	3.66	2.33	0.31	0.04		1.61	
31		0.17		0.10	0.07		3.21		0.30	0.03		0.51	
Mean	0.32	0.33	0.28	0.20	0.27	1.11	2.63	2.56	1.39	0.14	-0.12	-0.13	
Max	1.24	1.51	1.36	1.20	1.43	2.70	3.96	3.68	2.91	0.28	0.05	1.61	3.96
Min	0.13	0.10	-0.02	-0.03	-0.02	0.28	0.69	1.59	0.30	0.03	-0.24	-0.35	-0.35

Annual Max Momentary Gage Height 4.06 M (A.D), at 15.00 Hours, on Oct 6, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.64 M (A.D)
Left Bank Elevation 4.03 M (A.D)
Right Bank Elevation 4.49 M (A.D), Drainage Area 256 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.78	3.81	0.82	3.30	1.38	1.16	1.98	17.78	6.05	1.16	0.64	0.33	
2	1.54	4.23	0.76	2.38	1.00	3.39	2.61	15.54	4.84	1.12	0.64	0.42	
3	1.32	2.10	0.70	1.70	0.88	4.44	21.98	12.70	4.50	1.12	0.64	0.32	
4	1.18	1.82	0.68	1.50	0.84	2.28	31.84	9.06	12.00	1.12	0.70	0.32	
5	1.04	1.36	0.66	1.26	0.64	2.12	28.24	10.18	13.02	1.06	0.52	0.35	
6	1.00	1.20	0.64	1.14	0.59	3.45	31.60	25.18	7.38	1.00	0.52	0.39	
7	0.92	1.26	0.64	1.02	0.59	5.04	30.40	24.13	6.90	1.00	0.51	0.36	
8	0.86	1.10	0.68	0.96	0.57	2.94	23.50	16.52	5.90	1.00	0.50	0.32	
9	0.92	1.12	0.72	1.08	1.56	1.60	17.36	12.80	3.78	1.00	0.51	0.30	
10	1.02	1.08	0.66	1.06	1.02	1.40	14.88	9.76	3.27	1.00	0.51	0.29	
11	0.92	1.08	0.64	1.24	1.48	1.18	13.50	8.08	6.20	1.00	0.47	0.23	
12	1.30	1.02	0.57	1.02	2.24	1.34	9.28	6.84	5.85	0.94	0.45	0.19	
13	1.06	0.92	0.92	0.88	2.70	3.57	6.78	4.77	5.52	0.88	0.41	0.23	
14	0.98	0.88	3.69	0.82	3.99	5.70	8.01	8.01	5.28	0.86	0.41	0.21	
15	0.88	1.08	2.85	0.72	1.76	7.14	4.02	10.81	5.20	0.84	0.41	0.21	
16	0.88	1.00	1.40	0.80	1.32	3.45	3.48	7.62	5.12	0.80	0.36	0.19	
17	0.90	0.92	1.06	0.68	1.14	2.91	3.87	5.04	4.88	0.76	0.35	0.19	
18	0.90	0.84	0.94	0.72	1.00	4.14	4.41	4.47	4.77	0.74	0.35	0.08	
19	0.98	1.08	0.92	0.86	1.16	8.78	5.90	4.65	4.59	0.72	0.35	0.08	
20	1.04	1.36	0.76	0.90	1.06	10.90	27.04	7.08	4.38	0.72	0.33	0.09	
21	0.98	1.16	0.74	0.72	0.96	5.90	25.18	14.49	2.32	0.72	0.33	0.09	
22	1.02	0.98	0.98	0.68	0.86	3.48	18.36	12.10	1.74	0.72	0.33	0.08	
23	1.16	0.96	1.00	0.72	0.74	2.32	15.82	8.92	1.62	0.70	0.30	0.09	
24	1.08	1.20	1.64	0.62	0.70	1.94	15.82	7.80	1.62	0.90	0.27	0.09	
25	0.94	1.10	3.78	0.62	0.94	2.00	12.20	9.20	1.60	0.92	0.24	0.27	
26	0.96	0.84	2.00	0.62	1.14	1.92	6.84	7.20	1.56	0.78	0.29	0.32	
27	1.88	0.80	1.40	0.56	0.82	1.94	4.77	7.56	1.46	0.74	0.30	0.50	
28	3.18	0.80	1.02	0.59	0.70	1.76	5.00	14.49	1.38	0.72	0.35	0.88	
29	3.42	0.80	1.02	0.59	0.74	1.84	2.76	11.80	1.28	0.70		1.22	
30	1.84	1.08	1.46	0.62	0.76	2.10	24.76	8.01	1.22	0.68		4.53	
31		0.94		0.80	0.74		16.94		1.20	0.66		1.62	
Total	37.88	39.92	35.75	31.18	36.02	102.13	439.13	322.59	136.43	27.08	11.99	14.79	1234.89 CMSDAY
Mean	1.26	1.29	1.19	1.01	1.16	3.40	14.17	10.75	4.40	0.87	0.43	0.48	3.38 CMS
Max	3.42	4.23	3.78	3.30	3.99	10.90	31.84	25.18	13.02	1.16	0.70	4.53	31.84 CMS
Min	0.86	0.80	0.57	0.56	0.57	1.16	1.98	4.47	1.20	0.66	0.24	0.08	0.08 CMS
Runoff	3.273	3.449	3.089	2.694	3.112	8.824	37.941	27.872	11.788	2.340	1.036	1.278	106.695 MCM

Momentary Peak 34.36 CMS, at 4.06 M (A.D), at 15.00 Hours, on Oct 6, 1994

Runoff Yield 13.22 Liters/Second/Square KM, Momentary Peak Yield 134.22 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

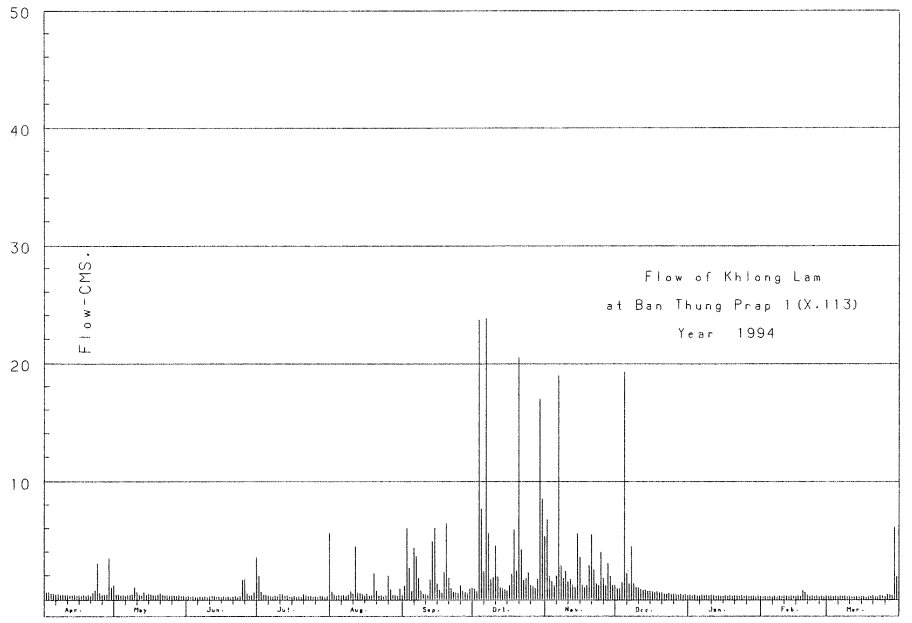
Khlong Lam at Ban Thung Prap (1), Songkhla (X.113)

Location	Lat.06°-37'-59" N., Long. 100°-23'-46" E., on right bank at Ban Thung Prap (i), Amphoe Sadao, Songkhla.
Drainage Area	129 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	About 15 meters from the gage observer's house.
Elevation	+7.140 m.(A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.06 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.59	1.49	1.29	2.29	1.62	1.83	1.71	3.53	1.75	1.42	1.31	1.34	
2	1.56	1.43	1.28	1.58	1.44	3.41	1.64	2.25	1.71	1.41	1.31	1.34	
3	1.53	1.40	1.27	1.46	1.38	2.53	4.86	2.03	1.98	1.41	1.31	1.33	
4	1.50	1.39	1.27	1.40	1.37	1.65	3.67	1.88	4.64	1.40	1.31	1.31	
5	1.48	1.36	1.26	1.36	1.40	3.04	2.45	2.29	2.40	1.39	1.31	1.31	
6	1.47	1.35	1.26	1.34	1.37	2.84	4.87	4.62	1.96	1.40	1.31	1.31	
7	1.45	1.44	1.28	1.31	1.34	2.19	3.31	2.62	3.07	1.40	1.31	1.33	
8	1.44	1.41	1.26	1.32	1.40	1.63	2.10	2.19	1.93	1.40	1.31	1.32	
9	1.43	1.80	1.26	1.33	1.64	1.52	2.22	2.43	1.81	1.40	1.31	1.31	
10	1.40	1.57	1.25	1.46	1.48	1.45	3.09	2.00	1.75	1.39	1.33	1.30	
11	1.39	1.44	1.35	1.46	3.07	1.42	2.22	2.15	1.73	1.38	1.33	1.28	
12	1.39	1.40	1.29	1.37	1.54	2.11	1.79	1.88	1.68	1.38	1.33	1.28	
13	1.40	1.55	1.27	1.34	1.57	3.15	1.74	1.80	1.65	1.36	1.33	1.28	
14	1.38	1.45	1.26	1.30	1.49	3.41	1.71	3.30	1.64	1.36	1.33	1.28	
15	1.37	1.47	1.27	1.29	1.40	1.96	1.62	2.84	1.61	1.35	1.33	1.27	
16	1.36	1.42	1.26	1.29	1.48	1.66	1.89	1.88	1.60	1.35	1.33	1.27	
17	1.37	1.39	1.26	1.28	1.37	1.57	2.32	1.80	1.59	1.35	1.34	1.27	
18	1.37	1.35	1.25	1.28	1.36	2.41	3.37	1.85	1.59	1.34	1.67	1.27	
19	1.38	1.45	1.24	1.28	2.40	3.47	2.47	2.60	1.58	1.34	1.56	1.32	
20	1.39	1.51	1.24	1.46	1.66	2.20	4.70	3.30	1.55	1.34	1.39	1.34	
21	1.57	1.45	1.25	1.35	1.40	1.73	3.00	2.50	1.54	1.35	1.34	1.30	
22	1.64	1.39	1.25	1.33	1.35	1.60	2.08	1.97	1.52	1.34	1.33	1.29	
23	2.68	1.35	1.30	1.30	1.32	1.54	2.19	1.85	1.52	1.34	1.33	1.36	
24	1.53	1.35	2.12	1.29	1.34	1.55	2.40	2.95	1.50	1.35	1.33	1.37	
25	1.44	1.34	2.10	1.26	2.26	1.89	1.90	2.16	1.48	1.34	1.31	1.32	
26	1.41	1.33	1.51	1.25	1.68	1.61	1.80	1.88	1.47	1.34	1.31	1.46	
27	1.48	1.37	1.39	1.36	1.43	1.60	1.76	2.65	1.46	1.34	1.30	1.50	
28	2.80	1.37	1.35	1.28	1.36	1.52	2.11	2.28	1.46	1.32	1.32	1.35	
29	1.80	1.32	1.59	1.26	1.36	1.74	4.51	1.86	1.45	1.32		3.41	
30	1.85	1.31	2.84	1.30	1.74	1.75	3.78	1.86	1.44	1.31		2.27	
31		1.30		3.31	1.44		3.25		1.43	1.31		1.54	
Mean	1.56	1.42	1.40	1.44	1.56	2.07	2.66	2.37	1.79	1.36	1.34	1.43	
Max	2.80	1.80	2.84	3.31	3.07	3.47	4.87	4.62	4.64	1.42	1.67	3.41	4.87
Min	1.36	1.30	1.24	1.25	1.32	1.42	1.62	1.80	1.43	1.31	1.30	1.27	1.24

Annual Max Momentary Gage Height 5.12 M (A.D), at 6.00 Hours, on Oct 3, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.74 M (A.D)
Left Bank Elevation 4.05 M (A.D)
Right Bank Elevation 6.50 M (A.D), Drainage Area 129 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	0.49	0.29	2.08	0.74	1.16	0.92	6.88	1.00	0.42	0.31	0.34	
2	0.62	0.43	0.28	0.66	0.44	6.16	0.78	2.00	0.92	0.41	0.31	0.34	
3	0.56	0.40	0.27	0.46	0.38	2.69	23.70	1.56	1.46	0.41	0.31	0.33	
4	0.50	0.39	0.27	0.40	0.37	0.80	7.79	1.26	19.36	0.40	0.31	0.31	
5	0.48	0.36	0.26	0.36	0.40	4.46	2.45	2.08	2.30	0.39	0.31	0.31	
6	0.47	0.35	0.26	0.34	0.37	3.66	23.90	18.98	1.42	0.40	0.31	0.31	
7	0.45	0.44	0.28	0.31	0.34	1.88	5.65	2.96	4.58	0.40	0.31	0.33	
8	0.44	0.41	0.26	0.32	0.40	0.76	1.70	1.88	1.36	0.40	0.31	0.32	
9	0.43	1.10	0.26	0.33	0.78	0.54	1.94	2.39	1.12	0.40	0.31	0.31	
10	0.40	0.64	0.25	0.46	0.48	0.45	4.66	1.50	1.00	0.39	0.33	0.30	
11	0.39	0.44	0.35	0.46	4.58	0.42	1.94	1.80	0.96	0.38	0.33	0.28	
12	0.39	0.40	0.29	0.37	0.58	1.72	1.08	1.26	0.86	0.38	0.33	0.28	
13	0.40	0.60	0.27	0.34	0.64	4.90	0.98	1.10	0.80	0.36	0.33	0.28	
14	0.38	0.45	0.26	0.30	0.49	6.16	0.92	5.60	0.78	0.36	0.33	0.28	
15	0.37	0.47	0.27	0.29	0.40	1.42	0.74	3.66	0.72	0.35	0.33	0.27	
16	0.36	0.42	0.26	0.29	0.48	0.82	1.28	1.26	0.70	0.35	0.33	0.27	
17	0.37	0.39	0.26	0.28	0.37	0.64	2.14	1.10	0.68	0.35	0.34	0.27	
18	0.37	0.35	0.25	0.28	0.36	2.33	5.95	1.20	0.68	0.34	0.84	0.27	
19	0.38	0.45	0.24	0.28	2.30	6.52	2.51	2.90	0.66	0.34	0.62	0.32	
20	0.39	0.52	0.24	0.46	0.82	1.90	20.50	5.60	0.60	0.34	0.39	0.34	
21	0.64	0.45	0.25	0.35	0.40	0.96	4.30	2.60	0.58	0.35	0.34	0.30	
22	0.78	0.39	0.25	0.33	0.35	0.70	1.66	1.44	0.54	0.34	0.33	0.29	
23	3.14	0.35	0.30	0.30	0.32	0.58	1.88	1.20	0.54	0.34	0.33	0.36	
24	0.56	0.35	1.74	0.29	0.34	0.60	2.30	4.10	0.50	0.35	0.33	0.37	
25	0.44	0.34	1.70	0.26	2.02	1.28	1.30	1.82	0.48	0.34	0.31	0.32	
26	0.41	0.33	0.52	0.25	0.86	0.72	1.10	1.26	0.47	0.34	0.31	0.46	
27	0.48	0.37	0.39	0.36	0.43	0.70	1.02	3.05	0.46	0.34	0.30	0.50	
28	3.50	0.37	0.35	0.28	0.36	0.54	1.72	2.06	0.46	0.32	0.32	0.35	
29	1.10	0.32	0.68	0.26	0.36	0.98	17.07	1.22	0.45	0.32		6.16	
30	1.20	0.31	3.66	0.30	0.98	1.00	8.56	1.22	0.44	0.31		2.04	
31		0.30		5.65	0.44		5.35		0.43	0.31		0.58	
Total	21.08	13.38	15.21	17.70	22.58	57.45	157.79	86.94	47.31	11.23	9.86	17.79	478.32 CMSDAY
Mean	0.70	0.43	0.51	0.57	0.73	1.92	5.09	2.90	1.53	0.36	0.35	0.57	1.31 CMS
Max	3.50	1.10	3.66	5.65	4.58	6.52	23.90	18.98	19.36	0.42	0.84	6.16	23.90 CMS
Min	0.36	0.30	0.24	0.25	0.32	0.42	0.74	1.10	0.43	0.31	0.30	0.27	0.24 CMS
Runoff	1.821	1.156	1.314	1.529	1.951	4.964	13.633	7.512	4.088	0.970	0.852	1.537	41.327 MCM

Momentary Peak 30.26 CMS, at 5.12 M (A.D), at 6.00 Hours, on Oct 3, 1994

Runoff Yield 10.16 Liters/Second/Square KM, Momentary Peak Yield 234.57 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

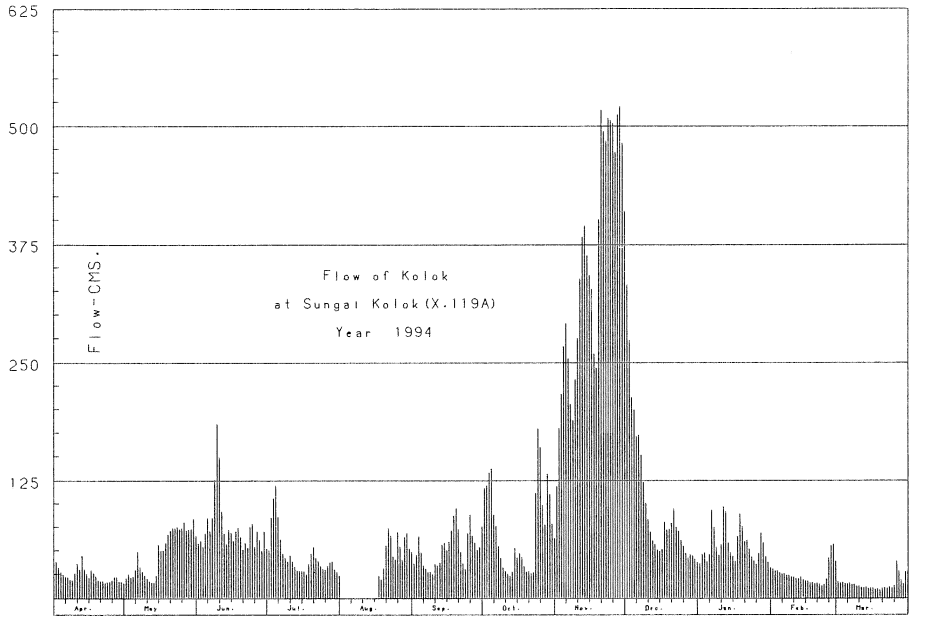
Kolok River at Sungai Kolok, Narathiwat (X.119A)

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	Overbank flow starts at elevation +6.21 m.(A.D.),records are channel flow only.
General Description	Records fair. No records on Aug.1-16,94. Stage-discharge relation defined by 25 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.99	1.46	2.43	2.27	*******	1.92	3.52	3.55	5.80	1.91	1.77	1.31	
2	1.81	1.58	2.49	2.97	*******	2.14	3.55	4.39	5.37	2.18	1.73	1.29	
3	1.68	1.48	2.37	3.35	*******	2.61	3.77	4.83	4.78	2.20	1.71	1.28	
4	1.57	1.49	2.67	3.55	*******	2.23	3.82	5.31	4.64	1.99	1.67	1.27	
5	1.52	1.75	2.96	3.00	*******	1.89	3.04	5.52	4.29	2.17	1.62	1.26	
6	1.47	2.25	2.70	2.54	*******	1.77	2.81	5.21	4.30	3.13	1.60	1.26	
7	1.41	1.82	2.98	2.20	*******	1.67	2.39	4.70	4.03	2.80	1.57	1.23	
8	1.36	1.69	3.66	2.06	*******	1.65	2.06	4.51	3.60	2.35	1.54	1.20	
9	1.64	1.53	4.46	1.99	*******	1.60	1.83	4.98	3.26	2.16	1.51	1.16	
10	1.91	1.44	3.99	2.15	*******	1.90	1.69	5.38	2.93	2.40	1.47	1.13	
11	1.74	1.32	3.09	1.97	*******	1.86	1.59	5.84	2.68	3.18	1.43	1.10	
12	2.15	1.30	2.67	1.83	*******	1.96	1.54	6.11	2.52	3.09	1.45	1.09	
13	1.78	1.27	2.44	1.73	*******	2.40	1.69	6.17	2.41	2.47	1.48	1.08	
14	1.59	1.55	2.73	1.69	*******	2.47	2.35	6.00	2.30	2.21	1.41	1.05	
15	1.48	2.40	2.68	1.71	*******	2.29	2.08	5.87	2.24	2.13	1.37	1.03	
16	1.73	2.28	2.49	1.67	*******	2.47	2.21	5.77	2.31	2.00	1.33	1.02	
17	1.65	2.26	2.71	1.59	1.55	2.73	2.09	5.25	2.90	2.59	1.30	1.00	
18	1.51	2.46	2.77	1.90	1.39	3.01	1.84	5.10	2.73	3.06	1.27	0.98	
19	1.39	2.63	2.59	2.20	1.81	3.17	1.69	6.21	2.76	2.80	1.26	0.96	
20	1.35	2.73	2.28	2.37	2.39	2.74	1.68	6.75	2.86	2.51	1.25	1.02	
21	1.33	2.77	2.44	2.06	2.78	2.22	1.60	6.65	3.14	2.51	1.21	1.05	
22	1.30	2.78	2.35	2.00	2.61	1.94	1.67	6.61	2.80	2.30	1.16	1.07	
23	1.28	2.78	2.81	1.85	2.10	1.75	3.44	6.71	2.70	2.11	1.19	1.08	
24	1.33	2.76	2.85	1.79	2.04	2.67	4.40	6.70	2.52	1.98	1.43	1.08	
25	1.36	2.76	2.35	1.73	2.70	3.03	4.13	6.69	2.37	1.90	2.06	1.14	
26	1.50	2.88	2.71	1.85	2.36	2.60	3.21	6.55	2.21	2.21	2.40	2.00	
27	1.47	2.73	2.53	1.97	2.01	2.47	2.85	6.73	2.08	2.71	2.42	1.72	
28	1.34	2.73	2.25	1.97	2.59	2.30	3.75	6.77	2.15	2.45	2.00	1.37	
29	1.29	2.76	2.69	1.77	2.66	2.34	3.41	6.60	2.15	2.12		1.27	
30	1.25	2.96	2.33	1.65	2.33	2.80	2.85	6.25	2.03	1.95		1.66	
31		2.60		1.55	2.22		2.57		1.94	1.83		1.67	
Mean	1.54	2.17	2.75	2.09	*******	2.29	2.62	5.79	3.06	2.37	1.56	1.22	
Max	2.15	2.96	4.46	3.55	2.78	3.17	4.40	6.77	5.80	3.18	2.42	2.00	6.77
Min	1.25	1.27	2.25	1.55	*******	1.60	1.54	3.55	1.94	1.83	1.16	0.96	*******

Annual Max Momentary Gage Height 6.80 M (A.D), at 18.00 Hours, on Nov 27, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.34 M (A.D)
Left Bank Elevation 6.20 M (A.D)
Right Bank Elevation M (A.D), Drainage Area 1358 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.60	21.80	57.85	50.80	*******	36.80	117.80	119.75	332.00	36.40	31.10	17.30	
2	32.40	25.40	60.55	85.35	*******	45.60	119.75	180.20	274.40	47.20	29.90	16.75	
3	28.40	22.40	55.15	107.00	*******	66.50	134.40	217.70	213.20	48.00	29.30	16.50	
4	25.10	22.70	69.50	119.75	*******	49.20	137.90	267.20	200.90	39.60	28.10	16.25	
5	23.60	30.50	84.80	87.00	*******	35.60	89.20	292.60	172.25	46.80	26.60	16.00	
6	22.10	50.00	71.00	63.00	*******	31.10	76.55	255.20	173.00	94.15	26.00	16.00	
7	20.30	32.80	85.90	48.00	*******	28.10	56.05	206.00	152.75	76.00	25.10	15.25	
8	18.80	28.70	126.90	42.40	*******	27.50	42.40	189.85	123.00	54.25	24.20	14.50	
9	27.20	23.90	185.80	39.60	*******	26.00	33.20	232.00	101.60	46.40	23.30	13.50	
10	36.40	21.20	149.80	46.00	*******	36.00	28.70	275.60	83.15	56.50	22.10	12.75	
11	30.20	17.60	91.95	38.80	*******	34.40	25.70	338.40	70.00	96.90	20.90	12.00	
12	46.00	17.00	69.50	33.20	*******	38.40	24.20	383.80	62.00	91.95	21.50	11.80	
13	31.40	16.25	58.30	29.90	*******	56.50	28.70	394.60	56.95	59.65	22.40	11.60	
14	25.70	24.50	72.50	28.70	*******	59.65	54.25	364.00	52.00	48.40	20.30	11.00	
15	22.40	56.50	70.00	29.30	*******	51.60	43.20	343.20	49.60	45.20	19.10	10.60	
16	29.90	51.20	60.55	28.10	*******	59.65	48.40	327.50	52.45	40.00	17.90	10.40	
17	27.50	50.40	71.50	25.70	24.50	72.50	43.60	260.00	81.50	65.50	17.00	10.00	
18	23.30	59.20	74.50	36.00	19.70	87.55	33.60	244.00	72.50	90.30	16.25	9.60	
19	19.70	67.50	65.50	48.00	32.40	96.35	28.70	402.00	74.00	76.00	16.00	9.20	
20	18.50	72.50	51.20	55.15	56.05	73.00	28.40	518.00	79.30	61.50	15.75	10.40	
21	17.90	74.50	58.30	42.40	75.00	48.80	26.00	494.50	94.70	61.50	14.75	11.00	
22	17.00	75.00	54.25	40.00	66.50	37.60	28.10	485.30	76.00	52.00	13.50	11.40	
23	16.50	75.00	76.55	34.00	44.00	30.50	112.60	508.40	71.00	44.40	14.25	11.60	
24	17.90	74.00	78.75	31.70	41.60	69.50	181.00	506.00	62.00	39.20	20.90	11.60	
25	18.80	74.00	54.25	29.90	71.00	88.65	160.25	503.70	55.15	36.00	42.40	13.00	
26	23.00	80.40	71.50	34.00	54.70	66.00	98.60	472.00	48.40	48.40	56.50	40.00	
27	22.10	72.50	62.50	38.80	40.40	59.65	78.75	513.20	43.20	71.50	57.40	29.60	
28	18.20	72.50	50.00	38.80	65.50	52.00	133.00	522.80	46.00	58.75	40.00	19.10	
29	16.75	74.00	70.50	31.10	69.00	53.80	110.65	483.00	46.00	44.80		16.25	
30	15.75	84.80	53.35	27.50	53.35	76.00	78.75	410.00	41.20	38.00		27.80	
31		66.00		24.50	48.80		64.50		37.60	33.20		28.10	
Total	732.40	1534.75	2262.70	1414.45	*******	1594.50	2266.90	*******	3097.80	1748.45	712.50	480.85	******** CMSDAY
Mean	24.41	49.51	75.42	45.63	*******	53.15	73.13	357.02	99.93	56.40	25.45	15.51	******** CMS
Max	46.00	84.80	185.80	119.75	75.00	96.35	181.00	522.80	332.00	96.90	57.40	40.00	522.80 CMS
Min	15.75	16.25	50.00	24.50	*******	26.00	24.20	119.75	37.60	33.20	13.50	9.20	******** CMS
Runoff	63.279	132.602	195.497	122.208	*******	137.765	195.860	925.387	267.650	151.066	61.560	41.545	******** MCM

Momentary Peak 530.00 CMS, at 6.80 M (A.D), at 18.00 Hours, on Nov 27, 1994

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield 390.28 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

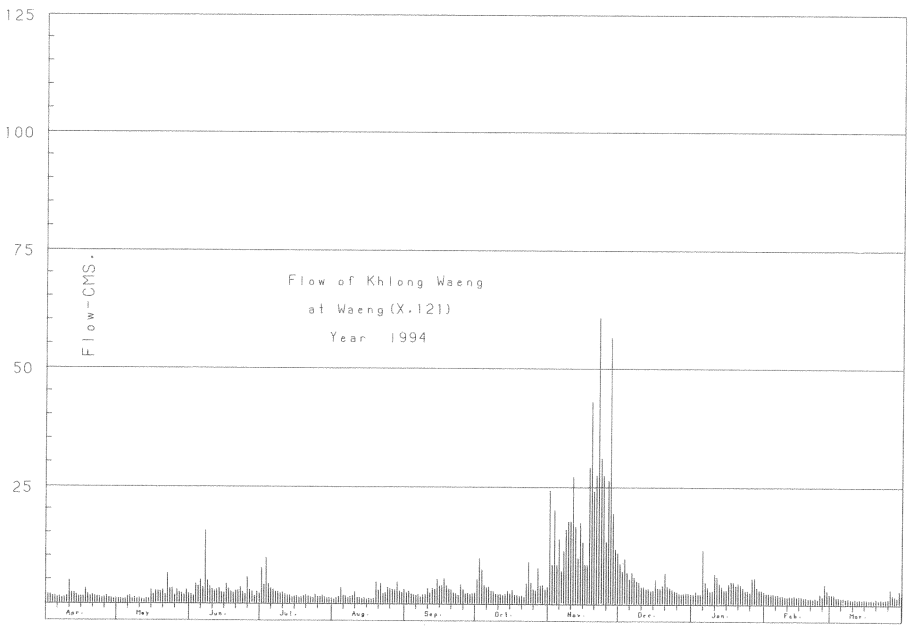
Khlong Waeng at Waeng, Narathiwat (X.121)

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 good. Stage-discharge relation defined by 27 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.86	17.71	17.84	18.54	17.70	17.93	18.29	19.67	18.64	17.88	17.92	17.88	
2	17.83	17.68	17.81	18.13	17.72	17.95	18.74	18.63	18.48	17.95	17.90	17.85	
3	17.80	17.68	18.15	18.76	17.79	17.89	18.53	19.49	18.75	17.89	17.90	17.78	
4	17.78	17.67	18.12	18.18	18.05	17.83	18.15	18.62	18.45	17.86	17.88	17.76	
5	17.76	17.77	18.28	18.06	17.83	17.84	18.09	19.09	18.32	18.92	17.87	17.75	
6	17.75	17.79	18.06	17.99	17.78	17.83	18.09	18.50	18.47	18.24	17.85	17.74	
7	17.73	17.70	19.23	17.95	17.75	17.78	17.99	18.90	18.34	18.08	17.84	17.73	
8	17.73	17.72	18.27	17.92	17.76	17.83	17.95	19.24	18.27	17.98	17.81	17.72	
9	17.80	17.70	18.09	17.90	17.82	17.87	17.89	19.36	18.21	17.98	17.81	17.71	
10	18.26	17.70	18.03	17.90	17.92	18.06	17.88	19.35	18.11	18.44	17.80	17.70	
11	17.89	17.67	17.98	17.85	17.76	17.89	17.85	19.77	18.09	18.35	17.80	17.70	
12	17.91	17.65	17.99	17.83	17.73	18.04	17.85	19.28	18.05	18.20	17.81	17.69	
13	17.82	17.68	18.03	17.81	17.72	18.04	17.86	18.76	18.04	18.10	17.81	17.68	
14	17.78	17.70	17.93	17.78	17.73	18.29	17.99	19.34	18.00	18.02	17.80	17.68	
15	17.75	18.00	17.89	17.79	17.70	18.13	17.88	19.05	17.98	17.99	17.79	17.67	
16	17.76	17.83	18.18	17.78	17.69	18.12	17.99	18.62	18.28	18.17	17.78	17.67	
17	18.05	17.95	18.02	17.75	17.69	18.32	17.86	18.62	18.08	18.25	17.77	17.66	
18	17.85	17.97	17.95	17.74	17.69	18.12	17.83	19.84	18.04	18.22	17.75	17.66	
19	17.80	17.93	17.89	17.81	18.23	18.05	17.82	20.19	18.15	18.15	17.74	17.65	
20	17.82	17.98	17.99	17.82	17.98	18.00	17.81	19.66	18.46	18.19	17.73	17.70	
21	17.78	17.86	17.97	17.77	18.17	17.93	17.79	19.78	18.11	18.17	17.73	17.67	
22	17.78	18.44	18.09	17.76	17.89	17.88	18.18	20.48	18.09	18.07	17.73	17.67	
23	17.74	18.03	17.92	17.74	17.90	17.85	18.67	19.90	18.01	18.00	17.72	17.67	
24	17.73	18.03	17.88	17.83	18.09	18.15	18.22	19.78	17.99	17.98	17.88	17.66	
25	17.73	17.84	18.32	17.76	18.02	18.03	18.04	19.06	17.94	17.95	17.82	17.72	
26	17.79	17.99	17.98	17.79	18.00	17.90	17.98	19.75	17.90	18.32	18.16	18.02	
27	17.72	17.93	17.95	17.83	18.01	17.89	18.57	20.42	17.90	18.34	18.00	17.85	
28	17.70	17.87	17.80	17.75	18.23	17.88	18.14	19.45	17.88	18.07	17.87	17.79	
29	17.70	17.84	17.92	17.73	17.98	17.88	18.13	18.92	17.93	18.01		17.77	
30	17.69	18.01	17.90	17.72	17.91	17.92	18.03	18.86	17.89	17.98		17.99	
31		17.86		17.70	18.01		18.08		17.87	17.95		17.81	
Mean	17.80	17.84	18.05	17.89	17.88	17.97	18.07	19.35	18.15	18.12	17.83	17.74	
Max	18.26	18.44	19.23	18.76	18.23	18.32	18.74	20.48	18.75	18.92	18.16	18.02	20.48
Min	17.69	17.65	17.80	17.70	17.69	17.78	17.79	18.50	17.87	17.86	17.72	17.65	17.65

Annual Max Momentary Gage Height 20.78 M (MSL), at 12.00 Hours, on Nov 22, 1994
Zero Gage at Bottom Elevation 15.85 M (MSL), River Bed 17.29 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.16	1.26	2.04	7.60	1.20	2.61	5.32	24.22	8.64	2.28	2.54	2.28	
2	1.98	1.12	1.86	4.04	1.32	2.75	9.74	8.53	7.02	2.75	2.40	2.10	
3	1.80	1.12	4.20	9.96	1.74	2.34	7.50	20.21	9.85	2.34	2.40	1.68	
4	1.68	1.08	3.96	4.44	3.45	1.98	4.20	8.42	6.75	2.16	2.28	1.56	
5	1.56	1.62	5.24	3.52	1.98	2.04	3.73	13.87	5.58	11.74	2.22	1.50	
6	1.50	1.74	3.52	3.03	1.68	1.98	3.73	7.20	6.93	4.92	2.10	1.44	
7	1.38	1.20	15.75	2.75	1.50	1.68	3.03	11.50	5.76	3.66	2.04	1.38	
8	1.38	1.32	5.16	2.54	1.56	1.98	2.75	15.90	5.16	2.96	1.86	1.32	
9	1.80	1.20	3.73	2.40	1.92	2.22	2.34	17.82	4.68	2.96	1.86	1.26	
10	5.08	1.20	3.31	2.40	2.54	3.52	2.28	17.65	3.88	6.66	1.80	1.20	
11	2.34	1.08	2.96	2.10	1.56	2.34	2.10	27.10	3.73	5.85	1.80	1.20	
12	2.47	1.00	3.03	1.98	1.38	3.38	2.10	16.50	3.45	4.60	1.86	1.16	
13	1.92	1.12	3.31	1.86	1.32	3.38	2.16	9.96	3.38	3.80	1.86	1.12	
14	1.68	1.20	2.61	1.68	1.38	5.32	3.03	17.48	3.10	3.24	1.80	1.12	
15	1.50	3.10	2.34	1.74	1.20	4.04	2.28	13.35	2.96	3.03	1.74	1.08	
16	1.56	1.98	4.44	1.68	1.16	3.96	3.03	8.42	5.24	4.36	1.68	1.08	
17	3.45	2.75	3.24	1.50	1.16	5.58	2.16	8.42	3.66	5.00	1.62	1.04	
18	2.10	2.89	2.75	1.44	1.16	3.96	1.98	29.28	3.38	4.76	1.50	1.04	
19	1.80	2.61	2.34	1.86	4.84	3.45	1.92	43.14	4.20	4.20	1.44	1.00	
20	1.92	2.96	3.03	1.92	2.96	3.10	1.86	23.96	6.84	4.52	1.38	1.20	
21	1.68	2.16	2.89	1.62	4.36	2.61	1.74	27.40	3.88	4.36	1.38	1.08	
22	1.68	6.66	3.73	1.56	2.34	2.28	4.44	60.92	3.73	3.59	1.38	1.08	
23	1.44	3.31	2.54	1.44	2.40	2.10	8.97	31.20	3.17	3.10	1.32	1.08	
24	1.38	3.31	2.28	1.98	3.73	4.20	4.76	27.40	3.03	2.96	2.28	1.04	
25	1.38	2.04	5.58	1.56	3.24	3.31	3.38	13.48	2.68	2.75	1.92	1.32	
26	1.74	3.03	2.96	1.74	3.10	2.40	2.96	26.50	2.40	5.58	4.28	3.24	
27	1.32	2.61	2.75	1.98	3.17	2.34	7.90	56.48	2.40	5.76	3.10	2.10	
28	1.20	2.22	1.80	1.50	4.84	2.28	4.12	19.45	2.28	3.59	2.22	1.74	
29	1.20	2.04	2.54	1.38	2.96	2.28	4.04	11.74	2.61	3.17		1.62	
30	1.16	3.17	2.40	1.32	2.47	2.54	3.31	11.06	2.34	2.96		3.03	
31		2.16		1.20	3.17		3.66		2.22	2.75		1.86	
Total	55.24	66.26	108.29	77.72	72.79	87.95	116.52	628.56	134.93	126.36	56.06	45.95	1576.63 CMSDAY
Mean	1.84	2.14	3.61	2.51	2.35	2.93	3.76	20.95	4.35	4.08	2.00	1.48	4.32 CMS
Max	5.08	6.66	15.75	9.96	4.84	5.58	9.74	60.92	9.85	11.74	4.28	3.24	60.92 CMS
Min	1.16	1.00	1.80	1.20	1.16	1.68	1.74	7.20	2.22	2.16	1.32	1.00	1.00 CMS
Runoff	4.773	5.725	9.356	6.715	6.289	7.599	10.067	54.308	11.658	10.918	4.844	3.970	136.221 MCM

Momentary Peak 91.16 CMS, at 20.78 M (MSL), at 12.00 Hours, on Nov 22, 1994

Runoff Yield 100.45 Liters/Second/Square KM, Momentary Peak Yield 2120.00 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA WEST COAST

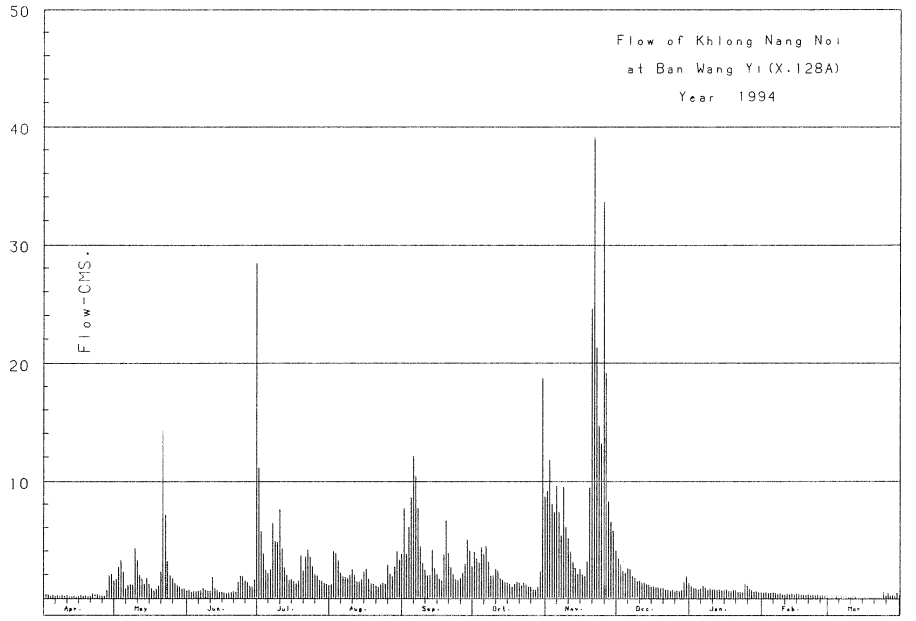
Khlong Nang Noi at Ban Wang Yi, Trang (X.128A)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Khlong Nang Noi weir. Stage-discharge relation defined by 35 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.49	0.23	1.97	0.37	1.50	0.93	1.72	0.85	0.31	0.19	0.09	
2	0.11	0.70	0.21	1.23	0.95	0.90	0.83	2.05	0.74	0.29	0.18	0.09	
3	0.09	0.81	0.20	0.91	0.91	1.28	0.77	1.56	0.63	0.27	0.18	0.09	
4	0.10	0.63	0.22	0.66	0.82	1.63	1.01	1.45	0.61	0.26	0.17	0.12	
5	0.09	0.28	0.22	0.59	0.60	2.09	0.91	1.78	0.69	0.26	0.20	0.09	
6	0.09	0.33	0.22	0.67	0.54	1.89	1.01	1.46	0.66	0.34	0.16	0.09	
7	0.09	0.37	0.29	1.32	0.51	1.51	0.80	1.16	0.55	0.28	0.15	0.08	
8	0.09	0.34	0.23	1.09	0.50	1.01	0.55	1.76	0.50	0.25	0.15	0.07	
9	0.09	0.99	0.23	1.07	0.55	0.78	0.54	1.28	0.44	0.27	0.14	0.07	
10	0.09	0.81	0.21	1.50	0.67	0.65	0.68	1.13	0.43	0.26	0.14	0.07	
11	0.08	0.55	0.51	0.99	0.56	0.54	0.64	0.93	0.40	0.25	0.14	0.07	
12	0.08	0.49	0.29	0.69	0.43	0.57	0.50	0.79	0.39	0.25	0.14	0.06	
13	0.07	0.38	0.23	0.57	0.41	0.97	0.45	0.68	0.38	0.24	0.14	0.06	
14	0.07	0.50	0.21	0.46	0.47	0.68	0.42	0.59	0.35	0.24	0.14	0.06	
15	0.07	0.36	0.20	0.46	0.62	0.59	0.39	0.66	0.32	0.23	0.14	0.05	
16	0.09	0.27	0.17	0.42	0.68	0.47	0.36	0.56	0.31	0.25	0.13	0.05	
17	0.09	0.23	0.17	0.39	0.47	0.45	0.32	0.54	0.31	0.23	0.13	0.05	
18	0.08	0.25	0.17	0.43	0.39	0.89	0.36	0.80	0.29	0.21	0.12	0.05	
19	0.09	0.34	0.20	0.88	0.36	1.36	0.42	1.75	0.29	0.26	0.12	0.05	
20	0.09	0.62	0.20	0.65	0.34	0.91	0.39	3.49	0.28	0.23	0.12	0.05	
21	0.14	2.40	0.21	0.86	0.30	0.71	0.35	4.77	0.26	0.21	0.12	0.05	
22	0.13	1.43	0.42	0.97	0.37	0.57	0.39	3.16	0.24	0.19	0.11	0.05	
23	0.12	0.79	0.53	0.87	0.39	0.48	0.35	2.41	0.23	0.20	0.11	0.04	
24	0.10	0.54	0.52	0.71	0.38	0.44	0.32	2.23	0.24	0.37	0.11	0.18	
25	0.07	0.50	0.45	0.57	0.75	0.50	0.30	4.32	0.22	0.35	0.11	0.10	
26	0.07	0.38	0.40	0.56	0.58	0.61	0.26	2.92	0.22	0.27	0.10	0.15	
27	0.24	0.35	0.33	0.46	0.54	0.75	0.25	1.59	0.22	0.22	0.10	0.09	
28	0.56	0.30	0.30	0.43	0.70	1.10	0.30	1.34	0.23	0.21	0.10	0.10	
29	0.57	0.27	0.47	0.40	0.95	0.96	0.64	1.22	0.42	0.20		0.09	
30	0.43	0.26	3.85	0.36	0.83	0.72	2.87	0.95	0.54	0.19		0.16	
31		0.24		0.34	0.90		1.64		0.38	0.18		0.11	
Mean	0.14	0.55	0.40	0.76	0.58	0.92	0.64	1.70	0.41	0.25	0.14	0.08	
Max	0.57	2.40	3.85	1.97	0.95	2.09	2.87	4.77	0.85	0.37	0.20	0.18	4.77
Min	0.07	0.23	0.17	0.34	0.30	0.44	0.25	0.54	0.22	0.18	0.10	0.04	0.04

Annual Max Momentary Gage Height 5.38 M (A.D), at 15.00 Hours, on Nov 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.14 M (A.D)
Left Bank Elevation 6.56 M (A.D)
Right Bank Elevation 6.33 M (A.D), Drainage Area 75 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	1.76	0.72	11.16	1.28	7.70	3.98	9.24	3.50	1.04	0.57	0.27	
2	0.33	2.70	0.64	5.81	4.10	3.80	3.38	11.80	2.90	0.96	0.54	0.27	
3	0.27	3.26	0.60	3.86	3.86	6.16	3.05	8.12	2.35	0.88	0.54	0.27	
4	0.30	2.35	0.68	2.50	3.32	8.61	4.46	7.35	2.25	0.84	0.51	0.36	
5	0.27	0.92	0.68	2.16	2.20	12.12	3.86	9.66	2.65	0.84	0.60	0.27	
6	0.27	1.12	0.68	2.55	1.96	10.52	4.46	7.42	2.50	1.16	0.48	0.27	
7	0.27	1.28	0.96	6.44	1.84	7.77	3.20	5.36	2.00	0.92	0.45	0.24	
8	0.27	1.16	0.72	4.94	1.80	4.46	2.00	9.52	1.80	0.80	0.45	0.21	
9	0.27	4.34	0.72	4.82	2.00	3.10	1.96	6.16	1.56	0.88	0.42	0.21	
10	0.27	3.26	0.64	7.70	2.55	2.45	2.60	5.18	1.52	0.84	0.42	0.21	
11	0.24	2.00	1.84	4.34	2.04	1.96	2.40	3.98	1.40	0.80	0.42	0.21	
12	0.24	1.76	0.96	2.65	1.52	2.08	1.80	3.15	1.36	0.80	0.42	0.18	
13	0.21	1.32	0.72	2.08	1.44	4.22	1.60	2.60	1.32	0.76	0.42	0.18	
14	0.21	1.80	0.64	1.64	1.68	2.60	1.48	2.16	1.20	0.76	0.42	0.18	
15	0.21	1.24	0.60	1.64	2.30	2.16	1.36	2.50	1.08	0.72	0.42	0.15	
16	0.27	0.88	0.51	1.48	2.60	1.68	1.24	2.04	1.04	0.80	0.39	0.15	
17	0.27	0.72	0.51	1.36	1.68	1.60	1.08	1.96	1.04	0.72	0.39	0.15	
18	0.24	0.80	0.51	1.52	1.36	3.74	1.24	3.20	0.96	0.64	0.36	0.15	
19	0.27	1.16	0.60	3.68	1.24	6.72	1.48	9.45	0.96	0.84	0.36	0.15	
20	0.27	2.30	0.60	2.45	1.16	3.86	1.36	24.70	0.92	0.72	0.36	0.15	
21	0.42	14.60	0.64	3.56	1.00	2.75	1.20	39.14	0.84	0.64	0.36	0.15	
22	0.39	7.21	1.48	4.22	1.28	2.08	1.36	21.40	0.76	0.57	0.33	0.15	
23	0.36	3.15	1.92	3.62	1.36	1.72	1.20	14.68	0.72	0.60	0.33	0.12	
24	0.30	1.96	1.88	2.75	1.32	1.56	1.08	13.24	0.76	1.28	0.33	0.54	
25	0.21	1.80	1.60	2.08	2.95	1.80	1.00	33.74	0.68	1.20	0.33	0.30	
26	0.21	1.32	1.40	2.04	2.12	2.25	0.84	19.18	0.68	0.88	0.30	0.45	
27	0.76	1.20	1.12	1.64	1.96	2.95	0.80	8.33	0.68	0.68	0.30	0.27	
28	2.04	1.00	1.00	1.52	2.70	5.00	1.00	6.58	0.72	0.64	0.30	0.30	
29	2.08	0.88	1.68	1.40	4.10	4.16	2.40	5.74	1.48	0.60		0.27	
30	1.52	0.84	28.55	1.24	3.38	2.80	18.73	4.10	1.96	0.57		0.48	
31		0.76		1.16	3.80		8.68		1.32	0.54		0.33	
Total	13.66	70.85	55.80	100.01	67.90	124.38	86.28	301.68	44.91	24.92	11.52	7.59	909.50 CMSDAY
Mean	0.46	2.29	1.86	3.23	2.19	4.15	2.78	10.06	1.45	0.80	0.41	0.24	2.49 CMS
Max	2.08	14.60	28.55	11.16	4.10	12.12	18.73	39.14	3.50	1.28	0.60	0.54	39.14 CMS
Min	0.21	0.72	0.51	1.16	1.00	1.56	0.80	1.96	0.68	0.54	0.30	0.12	0.12 CMS
Runoff	1.180	6.121	4.821	8.641	5.867	10.746	7.455	26.065	3.880	2.153	0.995	0.656	78.581 MCM

Momentary Peak 46.54 CMS, at 5.38 M (A.D), at 15.00 Hours, on Nov 21, 1994

Runoff Yield 33.22 Liters/Second/Square KM, Momentary Peak Yield 620.53 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

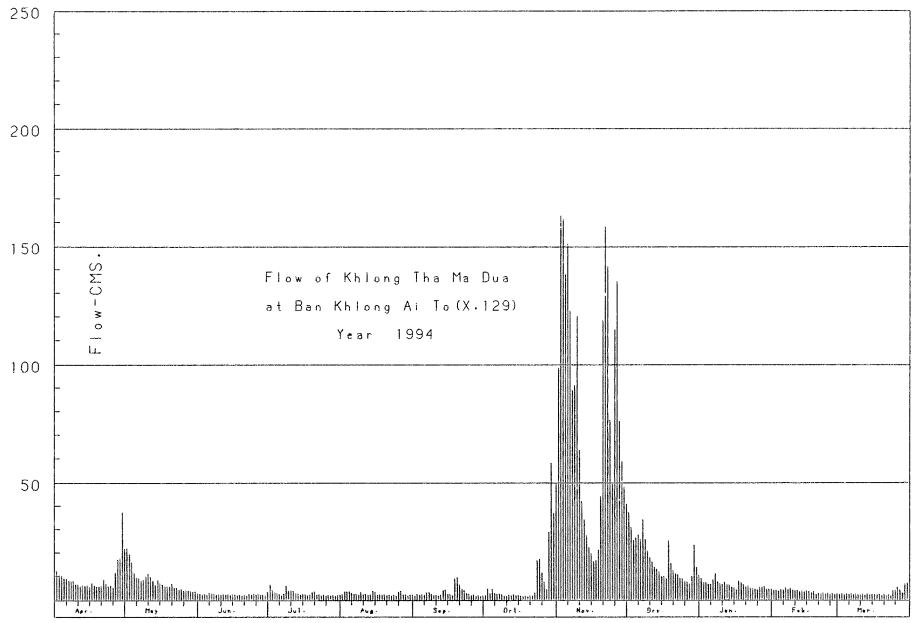
Khlong Tha Madua at Ban Khlong Ai To, Phatthalung (X.129)

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 40 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.53	15.09	13.78	14.14	13.75	13.66	13.69	18.40	15.87	14.32	13.95	13.81	
2	14.44	14.98	13.77	13.93	13.91	13.74	13.98	20.52	15.55	14.22	13.93	13.80	
3	14.39	14.75	13.75	13.87	13.87	13.76	13.84	20.49	15.30	14.19	13.93	13.79	
4	14.35	14.51	13.75	13.82	13.91	13.71	13.96	19.73	15.33	14.17	13.94	13.80	
5	14.31	14.37	13.83	13.74	13.83	13.77	13.85	20.15	15.42	14.13	13.97	13.81	
6	14.28	14.32	13.84	13.69	13.83	13.84	13.77	19.21	15.30	14.28	14.01	13.81	
7	14.27	14.27	13.79	13.80	13.77	13.89	13.82	18.05	15.74	14.48	13.99	13.81	
8	14.23	14.27	13.76	14.11	13.77	13.79	13.70	18.12	15.32	14.26	13.99	13.78	
9	14.16	14.40	13.74	13.93	13.86	13.73	13.64	19.14	15.04	14.16	13.97	13.78	
10	14.12	14.44	13.77	13.94	13.80	13.67	13.61	17.06	14.91	14.16	13.93	13.77	
11	14.10	14.35	13.74	13.90	13.78	13.63	13.65	16.08	14.77	14.20	13.92	13.75	
12	14.09	14.27	13.78	13.84	13.74	13.64	13.67	15.74	14.66	14.16	13.91	13.75	
13	14.11	14.12	13.73	13.80	13.70	13.95	13.72	15.38	14.58	14.11	13.91	13.77	
14	14.09	14.29	13.72	13.76	13.93	13.94	13.67	15.14	14.51	14.07	13.90	13.78	
15	14.07	14.16	13.71	13.73	13.87	13.83	13.61	14.97	14.41	14.01	13.90	13.73	
16	14.17	14.12	13.70	13.72	13.77	13.76	13.57	14.78	14.38	13.98	13.89	13.73	
17	14.12	14.09	13.69	13.69	13.72	13.71	13.57	14.83	14.34	14.24	13.87	13.79	
18	14.05	14.05	13.67	13.70	13.75	14.31	13.55	15.08	15.26	14.22	13.88	13.72	
19	14.09	14.08	13.67	13.88	13.73	14.38	13.56	16.18	14.76	14.12	13.82	13.70	
20	14.07	14.15	13.66	13.88	13.70	14.12	13.59	19.07	14.55	14.08	13.82	13.70	
21	14.31	14.04	13.66	13.78	13.69	14.00	13.66	20.38	14.49	14.08	13.83	13.70	
22	14.14	14.00	13.78	13.72	13.68	13.92	13.84	19.85	14.43	14.04	13.83	13.68	
23	14.10	13.97	13.78	13.69	13.66	13.85	14.80	17.56	14.36	13.99	13.83	13.67	
24	14.08	13.96	13.80	13.66	13.66	13.78	14.86	16.44	14.32	14.00	13.82	13.90	
25	14.05	13.93	13.80	13.65	13.90	13.72	14.51	18.96	14.26	13.96	13.81	13.95	
26	14.47	13.91	13.78	13.63	13.90	13.69	14.22	19.62	14.21	14.03	13.81	14.03	
27	14.84	13.94	13.73	13.67	13.78	13.62	14.00	17.56	14.18	14.07	13.81	13.93	
28	14.85	13.89	13.67	13.61	13.71	13.59	15.45	16.86	14.40	14.06	13.80	13.86	
29	15.89	13.90	13.67	13.60	13.66	13.58	16.82	16.36	15.17	13.99		14.17	
30	15.08	13.88	13.86	13.61	13.66	13.57	15.87	16.05	14.64	13.96		14.20	
31		13.84		13.77	13.69		16.43		14.41	13.96		13.96	
Mean	14.33	14.20	13.75	13.78	13.77	13.81	14.14	17.59	14.80	14.12	13.89	13.82	
Max	15.89	15.09	13.86	14.14	13.93	14.38	16.82	20.52	15.87	14.48	14.01	14.20	20.52
Min	14.05	13.84	13.66	13.60	13.66	13.57	13.55	14.78	14.18	13.96	13.80	13.67	13.55

Annual Max Momentary Gage Height 20.66 M (MSL), at 15.00 Hours, on Nov 2, 1994
Zero Gage at Bottom Elevation 13.30 M (MSL), River Bed 12.91 M (MSL)
Left Bank Elevation 19.81 M (MSL)
Right Bank Elevation 20.27 M (MSL), Drainage Area 332 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.48	22.02	2.73	6.92	2.62	2.31	2.41	99.00	37.40	9.30	4.60	2.92	
2	11.10	20.04	2.70	4.36	4.12	2.59	4.96	162.86	31.00	7.96	4.36	2.80	
3	10.35	16.05	2.62	3.64	3.64	2.66	3.28	161.87	26.00	7.57	4.36	2.76	
4	9.75	12.16	2.62	3.04	4.12	2.48	4.72	138.40	26.60	7.31	4.48	2.80	
5	9.15	10.05	3.16	2.59	3.16	2.70	3.40	151.05	28.40	6.79	4.84	2.92	
6	8.74	9.30	3.28	2.41	3.16	3.28	2.70	122.80	26.00	8.74	5.32	2.92	
7	8.61	8.61	2.76	2.80	2.70	3.88	3.04	89.35	34.80	11.70	5.08	2.92	
8	8.09	8.61	2.66	6.53	2.70	2.76	2.45	91.24	26.40	8.48	5.08	2.73	
9	7.18	10.50	2.59	4.36	3.52	2.55	2.24	120.70	21.12	7.18	4.84	2.73	
10	6.66	11.10	2.70	4.48	2.80	2.34	2.13	64.14	18.78	7.18	4.36	2.70	
11	6.40	9.75	2.59	4.00	2.73	2.20	2.27	41.96	16.39	7.70	4.24	2.62	
12	6.28	8.61	2.73	3.28	2.59	2.24	2.34	34.80	14.56	7.18	4.12	2.62	
13	6.53	6.66	2.55	2.80	2.45	4.60	2.52	27.60	13.28	6.53	4.12	2.70	
14	6.28	8.87	2.52	2.66	4.36	4.48	2.34	22.92	12.16	6.04	4.00	2.73	
15	6.04	7.18	2.48	2.55	3.64	3.16	2.13	19.86	10.65	5.32	4.00	2.55	
16	7.31	6.66	2.45	2.52	2.70	2.66	1.99	16.56	10.20	4.96	3.88	2.55	
17	6.66	6.28	2.41	2.41	2.52	2.48	1.99	17.41	9.60	8.22	3.64	2.76	
18	5.80	5.80	2.34	2.45	2.62	9.15	1.93	21.84	25.20	7.96	3.76	2.52	
19	6.28	6.16	2.34	3.76	2.55	10.20	1.96	44.16	16.22	6.66	3.04	2.45	
20	6.04	7.05	2.31	3.76	2.45	6.66	2.07	118.60	12.80	6.16	3.04	2.45	
21	9.15	5.68	2.31	2.73	2.41	5.20	2.31	158.26	11.85	6.16	3.16	2.45	
22	6.92	5.20	2.73	2.52	2.38	4.24	3.28	142.00	10.95	5.68	3.16	2.38	
23	6.40	4.84	2.73	2.41	2.31	3.40	16.90	76.50	9.90	5.08	3.16	2.34	
24	6.16	4.72	2.80	2.31	2.31	2.73	17.92	49.88	9.30	5.20	3.04	4.00	
25	5.80	4.36	2.80	2.27	4.00	2.52	12.16	115.30	8.48	4.72	2.92	4.60	
26	11.55	4.12	2.73	2.20	4.00	2.41	7.96	135.10	7.83	5.56	2.92	5.56	
27	17.58	4.48	2.55	2.34	2.73	2.17	5.20	76.50	7.44	6.04	2.92	4.36	
28	17.75	3.88	2.34	2.13	2.48	2.07	29.00	59.34	10.50	5.92	2.80	3.52	
29	37.80	4.00	2.34	2.10	2.31	2.03	58.38	48.12	23.46	5.08		7.31	
30	21.84	3.76	3.52	2.13	2.31	1.99	37.40	41.30	14.24	4.72		7.70	
31		3.28		2.70	2.41		49.66		10.65	4.72		4.72	
Total	296.68	249.78	79.39	97.16	90.80	104.14	293.04	2469.42	542.16	207.82	109.24	103.09	4642.72 CMSDAY
Mean	9.89	8.06	2.65	3.13	2.93	3.47	9.45	82.31	17.49	6.70	3.90	3.33	12.72 CMS
Max	37.80	22.02	3.52	6.92	4.36	10.20	58.38	162.86	37.40	11.70	5.32	7.70	162.86 CMS
Min	5.80	3.28	2.31	2.10	2.31	1.99	1.93	16.56	7.44	4.72	2.80	2.34	1.93 CMS
Runoff	25.633	21.581	6.859	8.395	7.845	8.998	25.319	213.358	46.843	17.956	9.438	8.907	401.131 MCM

Momentary Peak 167.48 CMS, at 20.66 M (MSL), at 15.00 Hours, on Nov 2, 1994

Runoff Yield 38.31 Liters/Second/Square KM, Momentary Peak Yield 504.46 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA WEST COAST

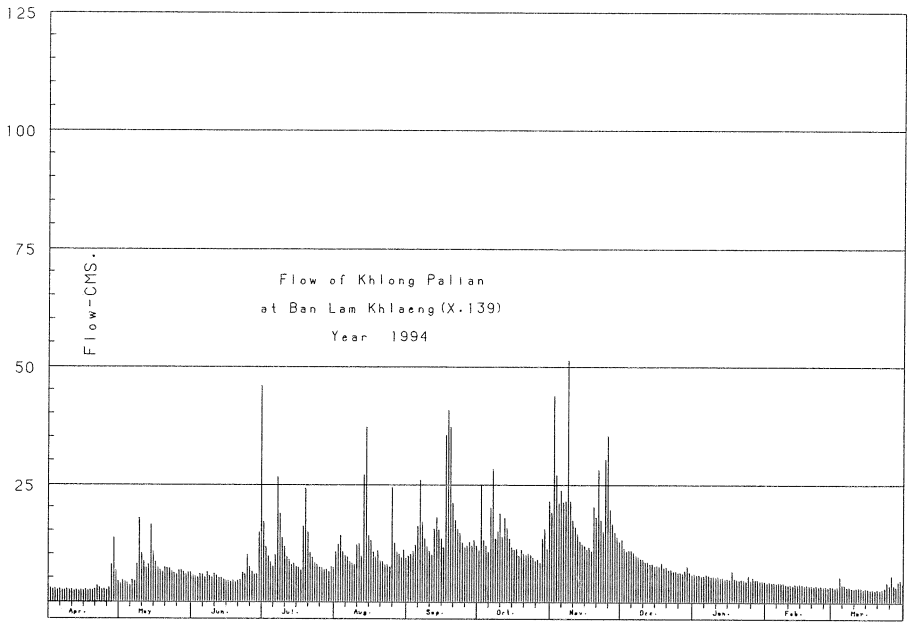
Khlong Palian at Ban Lam Khlaeng(2), Trang (X.139)

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 good. Stage-discharge relation defined by 86 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.02	1.13	1.28	2.01	1.64	1.60	1.67	2.11	1.81	1.30	1.15	1.05	
2	1.01	1.18	1.25	1.72	1.75	1.61	2.40	3.20	1.69	1.29	1.15	1.05	
3	1.01	1.17	1.25	1.59	1.86	1.66	1.80	2.50	1.66	1.28	1.15	1.05	
4	1.00	1.13	1.29	1.49	1.64	1.73	1.72	2.22	1.66	1.27	1.14	1.26	
5	1.00	1.10	1.30	1.43	1.60	1.97	1.65	2.34	1.67	1.26	1.14	1.11	
6	1.00	1.18	1.25	1.60	1.57	2.45	2.17	2.22	1.63	1.30	1.14	1.09	
7	1.00	1.18	1.34	2.48	1.51	2.01	2.55	2.24	1.60	1.27	1.14	1.06	
8	1.00	1.47	1.26	2.11	1.47	1.82	1.82	3.48	1.57	1.26	1.13	1.05	
9	1.00	2.05	1.25	1.82	1.46	1.71	1.91	2.23	1.55	1.25	1.12	1.04	
10	0.99	1.63	1.30	1.71	1.73	1.65	2.10	2.03	1.53	1.25	1.11	1.03	
11	0.98	1.50	1.27	1.58	1.75	1.61	1.83	1.96	1.50	1.25	1.10	1.03	
12	0.98	1.41	1.24	1.53	1.58	1.93	2.06	1.87	1.49	1.24	1.10	1.05	
13	0.98	1.45	1.23	1.46	2.50	2.07	1.94	1.79	1.47	1.23	1.11	1.03	
14	0.98	1.99	1.21	1.47	2.95	1.92	1.82	1.74	1.46	1.22	1.11	1.02	
15	0.98	1.64	1.19	1.43	1.86	1.82	1.70	1.73	1.44	1.21	1.11	1.02	
16	0.99	1.49	1.17	1.40	1.79	1.70	1.67	1.68	1.43	1.20	1.10	1.01	
17	0.98	1.41	1.17	1.37	1.65	2.88	1.68	1.70	1.42	1.35	1.10	1.01	
18	0.98	1.36	1.18	1.96	1.57	3.09	1.60	1.66	1.49	1.23	1.09	1.00	
19	0.99	1.34	1.16	2.36	1.66	2.94	1.68	2.18	1.41	1.20	1.09	1.00	
20	1.00	1.40	1.17	1.90	1.52	2.21	1.62	2.06	1.41	1.20	1.08	1.00	
21	1.09	1.39	1.19	1.64	1.50	2.04	1.61	2.55	1.38	1.20	1.08	1.00	
22	1.03	1.40	1.33	1.56	1.46	1.94	1.62	2.03	1.37	1.19	1.08	1.00	
23	1.01	1.35	1.29	1.49	1.45	1.88	1.61	1.91	1.35	1.18	1.07	1.05	
24	1.00	1.31	1.61	1.45	1.43	1.77	1.56	2.64	1.34	1.28	1.07	1.14	
25	1.00	1.30	1.41	1.42	2.37	1.71	1.52	2.87	1.33	1.19	1.07	1.10	
26	1.03	1.35	1.35	1.40	1.77	1.72	1.53	2.15	1.32	1.23	1.06	1.27	
27	1.46	1.37	1.30	1.38	1.65	1.78	1.49	1.99	1.32	1.21	1.06	1.10	
28	1.83	1.33	1.29	1.37	1.61	1.72	1.82	1.90	1.35	1.19	1.06	1.05	
29	1.35	1.30	1.90	1.35	1.57	1.79	1.93	1.83	1.43	1.18		1.17	
30	1.16	1.32	3.28	1.43	1.67	1.72	1.69	1.77	1.32	1.17		1.18	
31		1.32		1.40	1.55		2.23		1.30	1.16		1.13	
Mean	1.06	1.39	1.36	1.62	1.71	1.95	1.81	2.15	1.47	1.23	1.10	1.07	
Max	1.83	2.05	3.28	2.48	2.95	3.09	2.55	3.48	1.81	1.35	1.15	1.27	3.48
Min	0.98	1.10	1.16	1.35	1.43	1.60	1.49	1.66	1.30	1.16	1.06	1.00	0.98

Annual Max Momentary Gage Height 4.83 M (A.D), at 23.00 Hours, on Sep 17, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.74 M (A.D)
Left Bank Elevation 4.31 M (A.D)
Right Bank Elevation 4.44 M (A.D), Drainage Area 153 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.90	4.03	5.76	17.00	10.64	10.00	11.12	19.00	13.47	6.00	4.25	3.20	
2	2.80	4.58	5.40	11.94	12.45	10.16	25.00	43.80	11.44	5.88	4.25	3.20	
3	2.80	4.47	5.40	9.86	14.32	10.96	13.30	27.20	10.96	5.76	4.25	3.20	
4	2.70	4.03	5.88	8.47	10.64	12.11	11.94	21.22	10.96	5.64	4.14	5.52	
5	2.70	3.70	6.00	7.69	10.00	16.26	10.80	23.74	11.12	5.52	4.14	3.81	
6	2.70	4.58	5.40	10.00	9.58	26.10	20.20	21.22	10.48	6.00	4.14	3.60	
7	2.70	4.58	6.52	26.76	8.74	17.00	28.30	21.64	10.00	5.64	4.14	3.30	
8	2.70	8.21	5.52	19.00	8.21	13.64	13.64	51.54	9.58	5.52	4.03	3.20	
9	2.70	17.80	5.40	13.64	8.08	11.77	15.18	21.43	9.30	5.40	3.92	3.10	
10	2.61	10.48	6.00	11.77	12.11	10.80	18.80	17.40	9.02	5.40	3.81	3.00	
11	2.52	8.60	5.64	9.72	12.45	10.16	13.81	16.08	8.60	5.40	3.70	3.00	
12	2.52	7.43	5.28	9.02	9.72	15.54	18.00	14.49	8.47	5.28	3.70	3.20	
13	2.52	7.95	5.16	8.08	27.20	18.20	15.72	13.13	8.21	5.16	3.81	3.00	
14	2.52	16.62	4.92	8.21	37.45	15.36	13.64	12.28	8.08	5.04	3.81	2.90	
15	2.52	10.64	4.69	7.69	14.32	13.64	11.60	12.11	7.82	4.92	3.81	2.90	
16	2.61	8.47	4.47	7.30	13.13	11.60	11.12	11.28	7.69	4.80	3.70	2.80	
17	2.52	7.43	4.47	6.91	10.80	35.74	11.28	11.60	7.56	6.65	3.70	2.80	
18	2.52	6.78	4.58	16.08	9.58	40.95	10.00	10.96	8.47	5.16	3.60	2.70	
19	2.61	6.52	4.36	24.16	10.96	37.20	11.28	20.40	7.43	4.80	3.60	2.70	
20	2.70	7.30	4.47	15.00	8.88	21.01	10.32	18.00	7.43	4.80	3.50	2.70	
21	3.60	7.17	4.69	10.64	8.60	17.60	10.16	28.30	7.04	4.80	3.50	2.70	
22	3.00	7.30	6.39	9.44	8.08	15.72	10.32	17.40	6.91	4.69	3.50	2.70	
23	2.80	6.65	5.88	8.47	7.95	14.66	10.16	15.18	6.65	4.58	3.40	3.20	
24	2.70	6.13	10.16	7.95	7.69	12.79	9.44	30.28	6.52	5.76	3.40	4.14	
25	2.70	6.00	7.43	7.56	24.37	11.77	8.88	35.51	6.39	4.69	3.40	3.70	
26	3.00	6.65	6.65	7.30	12.79	11.94	9.02	19.80	6.26	5.16	3.30	5.64	
27	8.08	6.91	6.00	7.04	10.80	12.96	8.47	16.62	6.26	4.92	3.30	3.70	
28	13.81	6.39	5.88	6.91	10.16	11.94	13.64	15.00	6.65	4.69	3.30	3.20	
29	6.65	6.00	15.00	6.65	9.58	13.13	15.54	13.81	7.69	4.58		4.47	
30	4.36	6.26	45.96	7.69	11.12	11.94	11.44	12.79	6.26	4.47		4.58	
31		6.26		7.30	9.30		21.43		6.00	4.36		4.03	
Total	103.57	225.92	219.36	335.25	379.70	492.65	423.55	613.21	258.72	161.47	105.10	105.89	3424.39 CMSDAY
Mean	3.45	7.29	7.31	10.81	12.25	16.42	13.66	20.44	8.35	5.21	3.75	3.42	9.38 CMS
Max	13.81	17.80	45.96	26.76	37.45	40.95	28.30	51.54	13.47	6.65	4.25	5.64	51.54 CMS
Min	2.52	3.70	4.36	6.65	7.69	10.00	8.47	10.96	6.00	4.36	3.30	2.70	2.52 CMS
Runoff	8.948	19.519	18.953	28.966	32.806	42.565	36.595	52.981	22.353	13.951	9.081	9.149	295.867 MCM

Momentary Peak 96.81 CMS, at 4.83 M (A.D), at 23.00 Hours, on Sep 17, 1994

Runoff Yield 61.32 Liters/Second/Square KM, Momentary Peak Yield 632.75 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

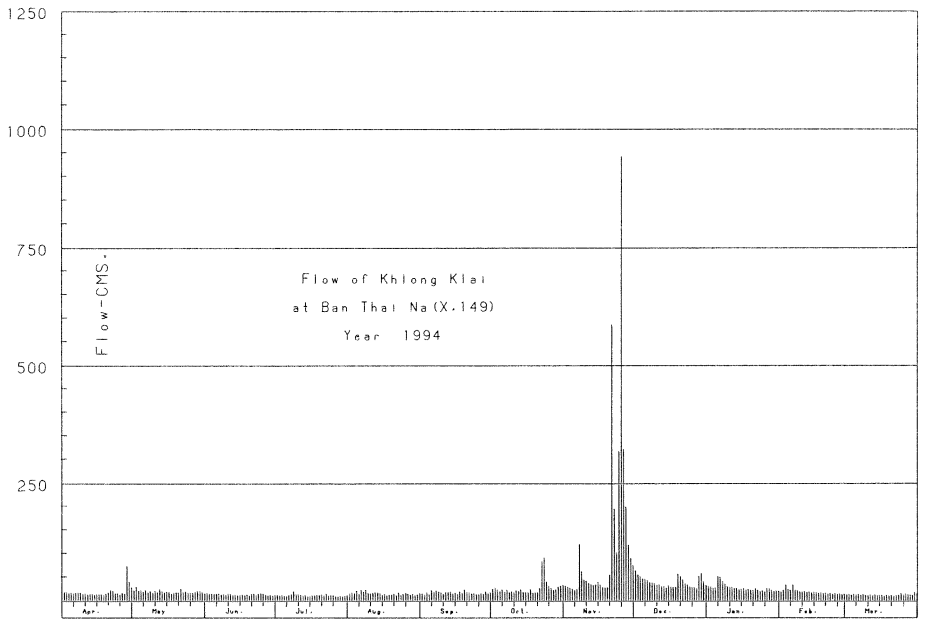
Khlong Klai at Ban Thai Na, Nakhon Si Thammarat (X.149)

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 good. Stage-discharge relation defined by 100 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.91	28.98	28.83	28.73	28.84	28.80	29.00	29.11	29.55	29.10	28.91	28.79	
2	28.88	29.08	28.83	28.75	28.84	28.78	29.07	29.10	29.47	29.08	28.96	28.78	
3	28.86	28.97	28.80	28.73	28.85	28.86	28.98	29.04	29.41	29.06	29.18	28.78	
4	28.85	28.95	28.82	28.73	28.92	28.80	28.94	29.03	29.36	29.05	29.00	28.78	
5	28.84	28.92	28.82	28.72	28.81	28.95	28.98	28.98	29.34	29.43	28.96	28.78	
6	28.83	28.95	28.79	28.72	28.96	28.91	28.92	29.00	29.32	29.39	29.18	28.78	
7	28.88	28.89	28.78	28.80	28.92	28.94	28.97	29.91	29.30	29.29	29.00	28.77	
8	28.83	28.91	28.77	28.90	28.97	28.93	28.89	29.53	29.24	29.18	28.95	28.77	
9	28.82	28.87	28.77	28.80	28.86	28.85	28.90	29.33	29.20	29.12	28.93	28.76	
10	28.80	28.93	28.80	28.76	28.80	28.82	28.89	29.27	29.17	29.10	28.92	28.75	
11	28.79	28.89	28.78	28.74	28.87	28.86	28.94	29.23	29.15	29.07	28.91	28.75	
12	28.81	29.01	28.76	28.73	28.86	28.90	28.95	29.16	29.12	29.06	28.91	28.75	
13	28.78	28.90	28.75	28.72	28.89	28.89	28.98	29.16	29.10	29.03	28.89	28.75	
14	28.78	28.88	28.75	28.71	28.82	28.84	28.90	29.15	29.08	29.01	28.88	28.74	
15	28.77	28.88	28.74	28.70	28.77	28.84	28.86	29.26	29.12	29.00	28.88	28.73	
16	28.80	28.87	28.75	28.71	28.78	28.82	28.89	29.15	29.10	29.03	28.87	28.73	
17	28.77	28.83	28.75	28.74	28.75	28.90	28.99	29.09	29.06	29.00	28.86	28.73	
18	28.76	28.84	28.75	28.73	28.74	28.86	28.87	29.05	29.10	29.00	28.85	28.73	
19	28.79	28.89	28.74	28.77	28.79	28.98	28.85	29.08	29.47	28.99	28.85	28.73	
20	28.88	28.85	28.78	28.75	28.80	28.91	28.89	29.49	29.43	28.95	28.84	28.72	
21	28.99	29.04	28.80	28.74	28.76	28.86	29.03	31.49	29.31	29.06	28.83	28.72	
22	28.92	28.89	28.76	28.79	28.85	28.83	29.70	30.24	29.22	28.97	28.83	28.72	
23	28.85	28.89	28.79	28.73	28.76	28.81	29.74	29.80	29.15	28.94	28.82	28.76	
24	28.81	28.87	28.84	28.72	28.77	28.80	29.27	30.70	29.11	28.94	28.82	28.82	
25	28.79	28.84	28.79	28.72	28.87	28.80	29.11	32.28	29.09	28.92	28.81	28.77	
26	28.83	28.83	28.78	28.70	28.78	28.81	29.04	30.71	29.06	29.03	28.80	28.80	
27	28.83	28.90	28.74	28.69	28.78	28.81	28.99	30.25	29.05	29.05	28.80	28.80	
28	29.64	28.91	28.73	28.68	28.78	28.89	28.98	29.90	29.41	28.95	28.79	28.74	
29	29.24	28.94	28.73	28.70	28.75	28.84	29.10	29.74	29.51	28.94		28.77	
30	29.06	28.86	28.73	28.68	28.75	28.86	29.11	29.64	29.25	28.92		28.86	
31		28.85		28.71	28.85		29.16		29.16	28.92		28.83	
Mean	28.88	28.91	28.77	28.74	28.82	28.86	29.03	29.63	29.24	29.05	28.90	28.76	
Max	29.64	29.08	28.84	28.90	28.97	28.98	29.74	32.28	29.55	29.43	29.18	28.86	32.28
Min	28.76	28.83	28.73	28.68	28.74	28.78	28.85	28.98	29.05	28.92	28.79	28.72	28.68

Annual Max Momentary Gage Height 32.90 M (MSL), at 15.00 Hours, on Nov 25, 1994
Zero Gage at Bottom Elevation 28.30 M (MSL), River Bed 27.95 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.50	24.00	16.85	12.35	17.30	15.50	25.00	31.65	64.25	31.00	20.50	15.05	
2	19.10	29.80	16.85	13.25	17.30	14.60	29.20	31.00	57.10	29.80	23.00	14.60	
3	18.20	23.50	15.50	12.35	17.75	18.20	24.00	27.40	52.30	28.60	36.20	14.60	
4	17.75	22.50	16.40	12.35	21.00	15.50	22.00	26.80	48.70	28.00	25.00	14.60	
5	17.30	21.00	16.40	11.90	15.95	22.50	24.00	24.00	47.30	53.90	23.00	14.60	
6	16.85	22.50	15.05	11.90	23.00	20.50	21.00	25.00	45.90	50.80	36.20	14.60	
7	19.10	19.55	14.60	15.50	21.00	22.00	23.50	122.00	44.50	43.80	25.00	14.15	
8	16.85	20.50	14.15	20.00	23.50	21.50	19.55	62.35	40.30	36.20	22.50	14.15	
9	16.40	18.65	14.15	15.50	18.20	17.75	20.00	46.60	37.50	32.30	21.50	13.70	
10	15.50	21.50	15.50	13.70	15.50	16.40	19.55	42.40	35.55	31.00	21.00	13.25	
11	15.05	19.55	14.60	12.80	18.65	18.20	22.00	39.60	34.25	29.20	20.50	13.25	
12	15.95	25.60	13.70	12.35	18.20	20.00	22.50	34.90	32.30	28.60	20.50	13.25	
13	14.60	20.00	13.25	11.90	19.55	19.55	24.00	34.90	31.00	26.80	19.55	13.25	
14	14.60	19.10	13.25	11.45	16.40	17.30	20.00	34.25	29.80	25.60	19.10	12.80	
15	14.15	19.10	12.80	11.00	14.15	17.30	18.20	41.70	32.30	25.00	19.10	12.35	
16	15.50	18.65	13.25	11.45	14.60	16.40	19.55	34.25	31.00	26.80	18.65	12.35	
17	14.15	16.85	13.25	12.80	13.25	20.00	24.50	30.40	28.60	25.00	18.20	12.35	
18	13.70	17.30	13.25	12.35	12.80	18.20	18.65	28.00	31.00	25.00	17.75	12.35	
19	15.05	19.55	12.80	14.15	15.05	24.00	17.75	29.80	57.10	24.50	17.75	12.35	
20	19.10	17.75	14.60	13.25	15.50	20.50	19.55	58.70	53.90	22.50	17.30	11.90	
21	24.50	27.40	15.50	12.80	13.70	18.20	26.80	586.00	45.20	28.60	16.85	11.90	
22	21.00	19.55	13.70	15.05	17.75	16.85	85.00	196.60	38.90	23.50	16.85	11.90	
23	17.75	19.55	15.05	12.35	13.70	15.95	91.80	102.00	34.25	22.00	16.40	13.70	
24	15.95	18.65	17.30	11.90	14.15	15.50	42.40	319.00	31.65	22.00	16.40	16.40	
25	15.05	17.30	15.05	11.90	18.65	15.50	31.65	944.20	30.40	21.00	15.95	14.15	
26	16.85	16.85	14.60	11.00	14.60	15.95	27.40	321.90	28.60	26.80	15.50	15.50	
27	16.85	20.00	12.80	10.60	14.60	15.95	24.50	199.00	28.00	28.00	15.50	15.50	
28	75.40	20.50	12.35	10.20	14.60	19.55	24.00	120.00	52.30	22.50	15.05	12.80	
29	40.30	22.00	12.35	11.00	13.25	17.30	31.00	91.80	60.45	22.00		14.15	
30	28.60	18.20	12.35	10.20	13.25	18.20	31.65	75.40	41.00	21.00		18.20	
31		17.75		11.45	17.75		34.90		34.90	21.00		16.85	
Total	601.65	634.70	431.25	390.75	514.65	544.85	885.60	3761.60	1260.30	882.80	570.80	430.55	10909.50 CMSDAY
Mean	20.06	20.47	14.38	12.60	16.60	18.16	28.57	125.39	40.65	28.48	20.39	13.89	29.89 CMS
Max	75.40	29.80	17.30	20.00	23.50	24.00	91.80	944.20	64.25	53.90	36.20	18.20	944.20 CMS
Min	13.70	16.85	12.35	10.20	12.80	14.60	17.75	24.00	28.00	21.00	15.05	11.90	10.20 CMS
Runoff	51.983	54.838	37.260	33.761	44.466	47.075	76.516	325.002	108.890	76.274	49.317	37.200	942.581 MCM

Momentary Peak 1322.00 CMS, at 32.90 M (MSL), at 15.00 Hours, on Nov 25, 1994

Runoff Yield 63.73 Liters/Second/Square KM, Momentary Peak Yield 2818.76 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA WEST COAST

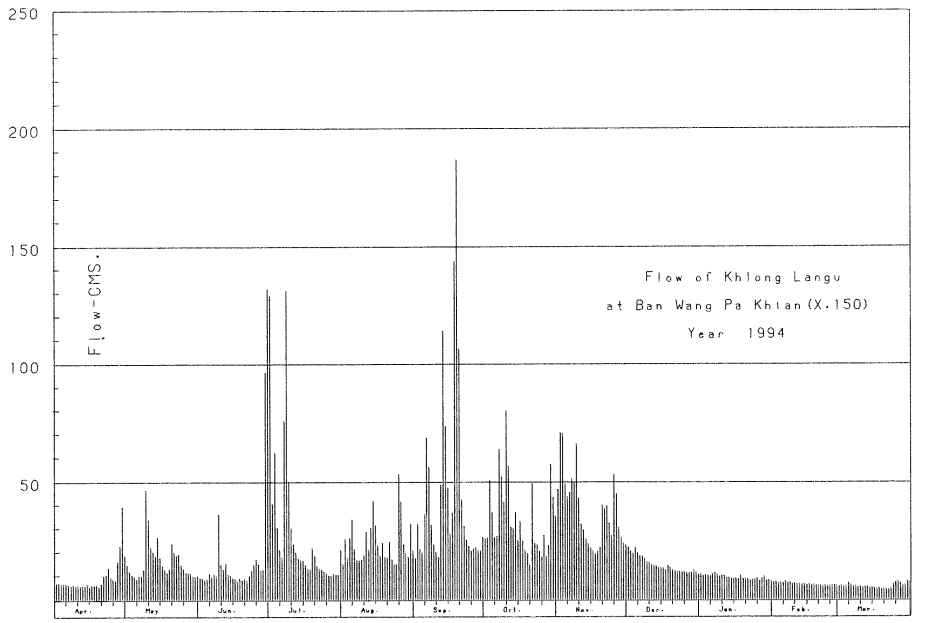
Khlong Langu at Ban Wang Pa Khian, Satun (X.150)

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 89 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	1.38	1.02	5.98	1.44	1.60	2.14	3.18	1.92	1.11	0.89	0.75	
2	0.84	1.19	0.98	2.89	2.11	2.45	2.14	4.22	1.78	1.10	0.88	0.75	
3	0.83	1.11	0.95	3.87	1.59	1.86	3.36	4.19	1.74	1.09	0.87	0.74	
4	0.81	1.03	0.96	2.38	2.16	1.74	2.72	3.30	1.88	1.10	0.86	0.74	
5	0.80	0.98	1.15	1.83	2.57	2.68	2.16	3.04	1.75	1.09	0.86	0.85	
6	0.79	1.06	1.02	1.60	1.83	4.12	2.18	3.14	1.64	1.12	0.89	0.77	
7	0.77	1.07	1.13	4.40	1.55	3.61	3.92	3.38	1.65	1.19	0.86	0.74	
8	0.77	1.24	1.06	6.03	1.51	2.43	3.43	3.31	1.56	1.09	0.85	0.73	
9	0.76	3.17	2.68	3.35	1.56	1.99	2.93	4.02	1.50	1.07	0.83	0.71	
10	0.76	2.57	1.40	2.36	1.66	1.75	4.58	3.01	1.45	1.07	0.82	0.70	
11	0.75	1.89	1.26	1.99	2.27	1.63	3.61	2.47	1.42	1.07	0.81	0.70	
12	0.74	1.78	1.45	1.74	1.84	3.27	2.40	2.32	1.39	1.04	0.81	0.72	
13	0.78	1.66	1.15	1.59	2.36	5.65	2.35	2.13	1.35	1.02	0.80	0.70	
14	0.81	2.15	1.08	1.52	2.97	4.33	2.72	1.99	1.33	1.01	0.79	0.69	
15	0.72	1.59	1.02	1.53	2.44	3.23	2.08	1.89	1.31	0.99	0.79	0.67	
16	0.75	1.38	0.96	1.38	1.94	2.24	2.51	1.79	1.29	0.98	0.79	0.65	
17	0.78	1.25	0.93	1.30	1.64	2.70	2.09	1.72	1.26	0.99	0.79	0.65	
18	0.76	1.18	0.98	1.26	2.03	6.28	1.81	1.77	1.39	1.07	0.78	0.66	
19	0.73	1.27	0.95	1.86	1.64	6.99	1.74	1.91	1.31	1.00	0.78	0.64	
20	0.81	2.01	0.96	1.67	1.60	5.46	1.38	2.86	1.24	0.98	0.77	0.64	
21	1.06	1.74	0.92	1.37	2.04	2.98	3.31	2.80	1.23	0.97	0.77	0.63	
22	1.12	1.68	1.08	1.28	1.57	2.42	2.02	2.84	1.21	0.95	0.76	0.62	
23	1.33	1.69	1.24	1.27	1.42	2.11	1.97	2.49	1.19	0.94	0.75	0.64	
24	1.04	1.40	1.39	1.19	1.41	1.92	1.80	2.19	1.19	0.98	0.75	0.81	
25	0.95	1.27	1.55	1.14	3.46	1.81	1.64	3.48	1.18	0.99	0.74	0.85	
26	0.94	1.19	1.43	1.10	2.95	1.84	2.20	3.12	1.16	0.93	0.76	0.91	
27	1.48	1.19	1.24	1.08	1.99	1.89	1.63	2.37	1.17	1.01	0.79	0.84	
28	1.92	1.14	1.24	1.12	1.72	1.79	1.97	2.17	1.16	1.05	0.75	0.77	
29	2.84	1.08	5.16	1.12	1.61	1.80	3.64	2.00	1.27	0.94		0.77	
30	1.67	1.03	6.05	1.09	2.47	2.15	3.04	1.95	1.18	0.92		0.92	
31		1.06		1.83	1.79		2.62		1.13	0.90		0.85	
Mean	1.00	1.47	1.48	2.07	1.97	2.89	2.52	2.70	1.39	1.02	0.81	0.74	
Max	2.84	3.17	6.05	6.03	3.46	6.99	4.58	4.22	1.92	1.19	0.89	0.92	6.99
Min	0.72	0.98	0.92	1.08	1.41	1.60	1.38	1.72	1.13	0.90	0.74	0.62	0.62

Annual Max Momentary Gage Height 7.03 M (A.D), at 9.00 Hours, on Sep 19, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.32 M (A.D)
Left Bank Elevation 8.79 M (A.D)
Right Bank Elevation 8.36 M (A.D), Drainage Area 552 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.35	14.70	9.58	129.00	15.60	18.00	26.32	46.86	22.80	10.84	7.87	6.10	
2	7.22	11.96	9.04	40.80	25.78	32.15	26.32	71.30	20.70	10.70	7.74	6.10	
3	7.09	10.84	8.65	62.78	17.85	21.90	50.98	70.55	20.10	10.56	7.61	5.98	
4	6.83	9.72	8.78	30.82	26.68	20.10	37.40	49.60	22.20	10.70	7.48	5.98	
5	6.70	9.04	11.40	21.45	34.43	36.60	26.68	43.84	20.25	10.56	7.48	7.35	
6	6.58	10.14	9.58	18.00	21.45	68.80	27.04	45.98	18.60	10.98	7.87	6.34	
7	6.34	10.28	11.12	75.90	17.25	56.73	63.98	51.44	18.75	11.96	7.48	5.98	
8	6.34	12.66	10.14	131.50	16.65	31.77	52.59	49.83	17.40	10.56	7.35	5.86	
9	6.22	46.64	36.60	50.75	17.40	23.85	41.60	66.38	16.50	10.28	7.09	5.62	
10	6.22	34.43	15.00	30.44	18.90	20.25	80.66	43.21	15.75	10.28	6.96	5.50	
11	6.10	22.35	12.94	23.85	28.73	18.45	56.73	32.53	15.30	10.28	6.83	5.50	
12	5.98	20.70	15.75	20.10	21.60	48.91	31.20	29.68	14.85	9.86	6.83	5.74	
13	6.46	18.90	11.40	17.85	30.44	114.10	30.25	26.14	14.25	9.58	6.70	5.50	
14	6.83	26.50	10.42	16.80	42.40	74.08	37.40	23.85	13.95	9.44	6.58	5.38	
15	5.74	17.85	9.58	16.95	31.96	47.99	25.28	22.35	13.65	9.17	6.58	5.14	
16	6.10	14.70	8.78	14.70	23.10	28.16	33.29	20.85	13.36	9.04	6.58	4.90	
17	6.46	12.80	8.39	13.50	18.60	37.00	25.44	19.80	12.94	9.17	6.58	4.90	
18	6.22	11.82	9.04	12.94	24.48	144.00	21.15	20.55	14.85	10.28	6.46	5.02	
19	5.86	13.08	8.65	21.90	18.60	187.15	20.10	22.65	13.65	9.30	6.46	4.78	
20	6.83	24.16	8.78	19.05	18.00	106.60	14.70	40.20	12.66	9.04	6.34	4.78	
21	10.14	20.10	8.26	14.55	24.64	42.60	49.83	39.00	12.52	8.91	6.34	4.66	
22	10.98	19.20	10.42	13.22	17.55	31.58	24.32	39.80	12.24	8.65	6.22	4.54	
23	13.95	19.35	12.66	13.08	15.30	25.78	23.55	32.91	11.96	8.52	6.10	4.78	
24	9.86	15.00	14.85	11.96	15.15	22.80	21.00	27.22	11.96	9.04	6.10	6.83	
25	8.65	13.08	17.25	11.26	53.28	21.15	18.60	53.74	11.82	9.17	5.98	7.35	
26	8.52	11.96	15.45	10.70	42.00	21.60	27.40	45.54	11.54	8.39	6.22	8.13	
27	16.20	11.96	12.66	10.42	23.85	22.35	18.45	30.63	11.68	9.44	6.58	7.22	
28	22.80	11.26	12.66	10.98	19.80	20.85	23.55	26.86	11.54	10.00	6.10	6.34	
29	39.80	10.42	96.80	10.98	18.15	21.00	57.42	24.00	13.08	8.52		6.34	
30	19.05	9.72	132.50	10.56	32.53	26.50	43.84	23.25	11.82	8.26		8.26	
31		10.14		21.45	20.85		35.40		11.12	8.00		7.35	
Total	289.42	505.46	567.13	908.24	753.00	1392.80	1072.47	1140.54	463.79	299.48	190.51	184.25	7767.09 CMSDAY
Mean	9.65	16.31	18.90	29.30	24.29	46.43	34.60	38.02	14.96	9.66	6.80	5.94	21.28 CMS
Max	39.80	46.64	132.50	131.50	53.28	187.15	80.66	71.30	22.80	11.96	7.87	8.26	187.15 CMS
Min	5.74	9.04	8.26	10.42	15.15	18.00	14.70	19.80	11.12	8.00	5.98	4.54	4.54 CMS
Runoff	25.006	43.672	49.000	78.472	65.059	120.338	92.661	98.543	40.071	25.875	16.460	15.919	671.077 MCM

Momentary Peak 189.78 CMS, at 7.03 M (A.D), at 9.00 Hours, on Sep 19, 1994

Runoff Yield 38.55 Liters/Second/Square KM, Momentary Peak Yield 343.80 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

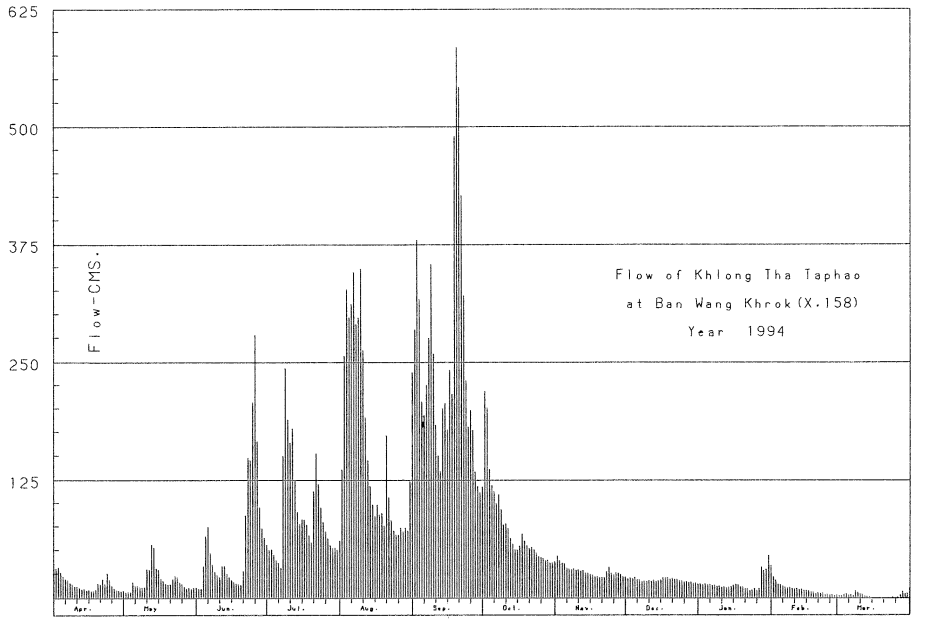
Khlong Tha Taphao at Ban Wang Khrok, Chumphon (X.158)

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	+12.473 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.31	3.79	3.87	4.65	5.92	7.76	7.00	4.56	4.12	3.99	4.16	3.70	
2	4.35	3.78	3.89	4.67	7.43	8.79	6.77	4.46	4.12	3.99	4.07	3.68	
3	4.23	3.80	4.37	4.57	8.23	8.11	5.94	4.43	4.12	3.99	4.00	3.73	
4	4.16	4.03	4.88	4.48	7.90	6.86	5.71	4.41	4.13	3.99	3.97	3.73	
5	4.11	3.96	5.06	4.42	8.05	6.68	5.60	4.34	4.10	3.98	3.96	3.71	
6	4.07	3.94	4.61	4.34	8.42	7.08	5.42	4.31	4.08	3.97	3.92	3.70	
7	4.03	3.93	4.39	6.11	7.82	7.65	5.57	4.31	4.06	3.96	3.91	3.70	
8	3.98	3.90	4.26	7.28	7.89	8.51	5.34	4.31	4.05	3.95	3.91	3.82	
9	3.95	3.93	4.17	6.62	8.47	7.47	5.08	4.30	4.06	3.94	3.90	3.79	
10	3.93	4.30	4.13	6.30	7.50	6.54	5.11	4.29	4.06	3.93	3.89	3.75	
11	3.91	4.30	4.37	6.49	6.64	6.13	5.02	4.28	4.06	3.92	3.88	3.71	
12	3.87	4.76	4.36	5.78	6.06	5.90	4.86	4.28	4.07	3.92	3.87	3.68	
13	3.87	4.69	4.22	5.30	5.68	6.76	4.75	4.24	4.06	3.91	3.86	3.65	
14	3.85	4.33	4.13	5.09	5.41	6.84	4.67	4.22	4.06	3.95	3.85	3.65	
15	3.84	4.29	4.09	5.18	5.23	6.49	4.65	4.21	4.09	3.96	3.83	3.64	
16	3.83	4.12	4.03	5.16	5.40	7.26	4.72	4.18	4.12	4.00	3.82	3.63	
17	3.82	4.05	4.01	5.09	5.24	6.95	4.94	4.16	4.14	3.97	3.81	3.63	
18	3.87	4.01	3.98	4.90	5.28	9.98	4.82	4.15	4.13	3.94	3.78	3.63	
19	4.00	3.97	3.98	4.79	5.06	10.93	4.73	4.14	4.11	3.92	3.76	3.63	
20	4.00	3.98	4.28	5.60	6.41	10.50	4.69	4.13	4.11	3.90	3.76	3.63	
21	4.11	4.11	5.23	6.16	5.51	9.31	4.70	4.14	4.11	3.88	3.76	3.63	
22	3.99	4.18	6.10	5.71	5.16	8.16	4.67	4.25	4.09	3.84	3.76	3.63	
23	4.23	4.13	6.05	5.37	4.99	7.13	4.60	4.36	4.08	3.84	3.72	3.63	
24	4.08	4.04	6.85	5.12	4.91	6.53	4.55	4.22	4.06	3.90	3.72	3.63	
25	3.96	3.98	7.70	4.98	4.92	6.75	4.53	4.20	4.05	3.85	3.72	3.63	
26	3.88	3.92	6.32	4.85	5.03	6.47	4.50	4.23	4.04	3.88	3.70	3.63	
27	3.85	3.89	5.37	4.74	4.98	5.89	4.48	4.24	4.04	4.36	3.70	3.72	
28	3.82	3.89	5.03	4.68	5.03	5.69	4.47	4.19	4.03	4.27	3.70	3.80	
29	3.82	3.88	4.86	4.70	4.99	5.58	4.43	4.16	4.02	4.30		3.75	
30	3.82	3.89	4.75	4.65	5.75	5.67	4.42	4.14	4.01	4.57		3.74	
31		3.92		4.82	7.23		4.44		4.00	4.37		3.90	
Mean	3.98	4.05	4.78	5.25	6.21	7.35	5.01	4.26	4.08	4.00	3.85	3.69	
Max	4.35	4.76	7.70	7.28	8.47	10.93	7.00	4.56	4.14	4.57	4.16	3.90	10.93
Min	3.82	3.78	3.87	4.34	4.91	5.58	4.42	4.13	4.00	3.84	3.70	3.63	3.63

Annual Max Momentary Gage Height 11.03 M (MSL), at 1.00 Hours, on Sep 18, 1994
Zero Gage at Bottom Elevation 3.63 M (MSL), River Bed 2.88 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.05	6.65	9.80	51.00	136.00	285.40	220.00	45.60	21.50	15.05	23.50	3.50	
2	33.25	6.30	10.60	52.20	256.24	379.57	201.60	39.60	21.50	15.05	19.00	2.80	
3	27.00	7.00	34.35	46.20	327.76	316.90	137.50	37.80	21.50	15.05	15.50	4.55	
4	23.50	17.00	65.16	40.80	298.00	208.80	120.70	36.60	22.00	15.05	14.15	4.55	
5	21.00	13.70	76.44	37.20	311.50	194.40	113.00	32.70	20.50	14.60	13.70	3.85	
6	19.00	12.80	48.60	32.70	345.26	226.56	100.40	31.05	19.50	14.15	11.90	3.50	
7	17.00	12.35	35.45	150.25	290.80	275.60	110.90	31.05	18.50	13.70	11.45	3.50	
8	14.60	11.00	28.50	243.30	297.10	353.60	94.80	31.05	18.00	13.25	11.45	7.80	
9	13.25	12.35	24.00	189.60	349.89	259.76	77.72	30.50	18.50	12.80	11.00	6.65	
10	12.35	30.50	22.00	164.50	262.40	183.20	79.65	30.00	18.50	12.35	10.60	5.25	
11	11.45	30.50	34.35	179.20	191.20	151.75	73.88	29.50	18.50	11.90	10.20	3.85	
12	9.80	57.72	33.80	125.60	146.50	134.50	63.92	29.50	19.00	11.90	9.80	2.80	
13	9.80	53.40	26.50	92.00	118.60	200.80	57.10	27.50	18.50	11.45	9.40	1.75	
14	9.00	32.15	22.00	78.36	99.70	207.20	52.20	26.50	18.50	13.25	9.00	1.75	
15	8.60	30.00	20.00	84.20	87.45	179.20	51.00	26.00	20.00	13.70	8.20	1.40	
16	8.20	21.50	17.00	82.90	99.00	241.60	55.24	24.50	21.50	15.50	7.80	1.05	
17	7.80	18.00	16.00	78.36	88.10	216.00	68.88	23.50	22.50	14.15	7.40	1.05	
18	9.80	16.00	14.60	66.40	90.70	491.10	61.44	23.00	22.00	12.80	6.30	1.05	
19	15.50	14.15	14.60	59.58	76.44	585.00	55.86	22.50	21.00	11.90	5.60	1.05	
20	15.50	14.60	29.50	113.00	172.80	542.00	53.40	22.00	21.00	11.00	5.60	1.05	
21	21.00	21.00	87.45	154.00	106.70	427.94	54.00	22.50	21.00	10.20	5.60	1.05	
22	15.05	24.50	149.50	120.70	82.90	321.40	52.20	28.00	20.00	8.60	5.60	1.05	
23	27.00	22.00	145.75	96.90	71.98	230.69	48.00	33.80	19.50	8.60	4.20	1.05	
24	19.50	17.50	208.00	80.30	67.02	182.40	45.00	26.50	18.50	11.00	4.20	1.05	
25	13.70	14.60	280.00	71.36	67.64	200.00	43.80	25.50	18.00	9.00	4.20	1.05	
26	10.20	11.90	166.00	63.30	74.52	177.60	42.00	27.00	17.50	10.20	3.50	1.05	
27	9.00	10.60	96.90	56.48	71.36	133.75	40.80	27.50	17.50	33.80	3.50	4.20	
28	7.80	10.60	74.52	52.80	74.52	119.30	40.20	25.00	17.00	29.00	3.50	7.00	
29	7.80	10.20	63.92	54.00	71.98	111.60	37.80	23.50	16.50	30.50		5.25	
30	7.80	10.60	57.10	51.00	123.50	117.90	37.20	22.50	16.00	46.20		4.90	
31		11.90		61.44	239.05		38.40		15.50	34.35		11.00	
Total	456.30	583.07	1912.39	2829.63	5096.61	7655.52	2328.59	862.25	599.50	500.05	255.85	101.40	23181.16 CMSDAY
Mean	15.21	18.81	63.75	91.28	164.41	255.18	75.12	28.74	19.34	16.13	9.14	3.27	63.51 CMS
Max	33.25	57.72	280.00	243.30	349.89	585.00	220.00	45.60	22.50	46.20	23.50	11.00	585.00 CMS
Min	7.80	6.30	9.80	32.70	67.02	111.60	37.20	22.00	15.50	8.60	3.50	1.05	1.05 CMS
Runoff	39.424	50.377	165.231	244.480	440.347	661.437	201.190	74.498	51.797	43.204	22.105	8.761	2002.852 MCM

Momentary Peak 595.00 CMS, at 11.03 M (MSL), at 1.00 Hours, on Sep 18, 1994

Runoff Yield 34.91 Liters/Second/Square KM, Momentary Peak Yield 327.10 Liters/Second/Square KM

WATER YEAR 1994

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.

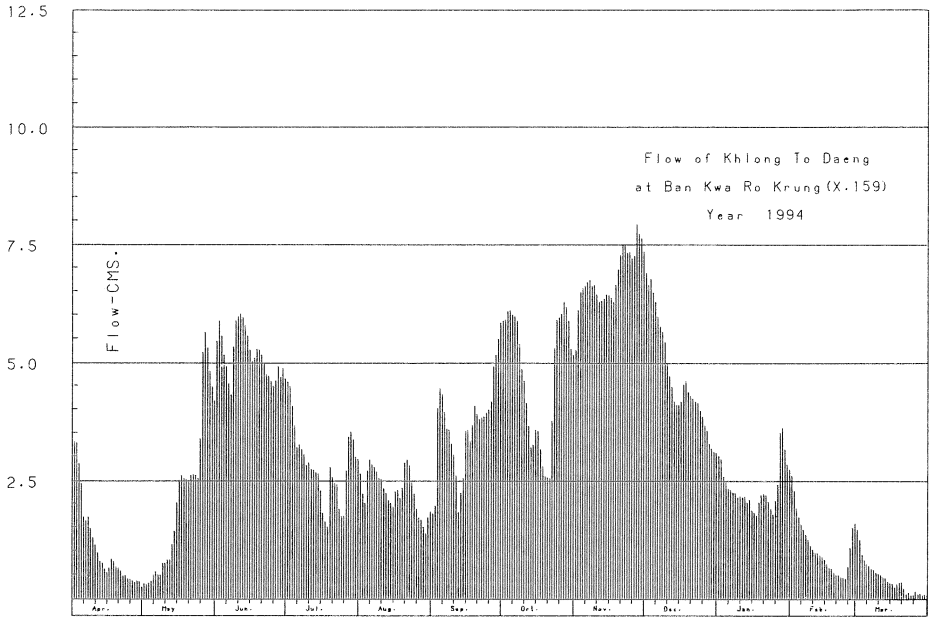
Overbank Flow Conditions — Overbank flow starts at elevation +4.13 m.(M.S.L.) , records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 21 discharge measurements made in 1994.

Gage Height in Meter (MSL), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.49	2.45	3.90	3.75	3.32	3.09	3.97	3.87	4.12	3.42	3.31	2.98	
2	3.48	2.45	3.97	3.73	3.21	3.14	3.97	4.00	4.08	3.40	3.23	2.91	
3	3.38	2.46	3.92	3.65	3.15	3.64	4.00	4.06	4.10	3.31	3.12	2.79	
4	3.27	2.50	3.85	3.56	3.34	3.72	4.00	4.07	4.06	3.28	3.07	2.73	
5	3.07	2.58	3.81	3.46	3.40	3.70	3.99	4.08	4.03	3.24	3.02	2.69	
6	3.04	2.61	3.74	3.47	3.37	3.62	3.98	4.09	3.98	3.23	2.98	2.68	
7	3.07	2.58	3.70	3.45	3.36	3.55	3.97	4.10	3.95	3.22	2.95	2.65	
8	2.99	2.57	3.88	3.42	3.33	3.54	3.89	4.08	3.93	3.21	2.91	2.63	
9	2.93	2.71	3.97	3.37	3.30	3.48	3.80	4.08	3.90	3.19	2.87	2.61	
10	2.87	2.70	3.98	3.38	3.29	3.42	3.75	4.05	3.82	3.19	2.83	2.59	
11	2.81	2.73	3.99	3.35	3.24	3.31	3.66	4.03	3.77	3.19	2.81	2.58	
12	2.72	2.74	3.98	3.34	3.21	3.10	3.56	4.03	3.73	3.19	2.79	2.55	
13	2.71	2.88	3.95	3.33	3.17	3.21	3.46	4.04	3.67	3.16	2.78	2.53	
14	2.64	2.97	3.92	3.32	3.15	3.30	3.47	4.05	3.65	3.17	2.76	2.49	
15	2.61	3.15	3.87	3.23	3.13	3.54	3.54	4.05	3.65	3.11	2.74	2.46	
16	2.65	3.29	3.83	3.09	3.22	3.54	3.54	4.04	3.67	3.09	2.69	2.45	
17	2.75	3.31	3.84	3.04	3.23	3.49	3.45	4.03	3.74	3.08	2.66	2.41	
18	2.72	3.30	3.87	3.00	3.18	3.56	3.36	4.08	3.75	3.16	2.64	2.44	
19	2.67	3.29	3.87	3.36	3.24	3.65	3.31	4.13	3.71	3.20	2.61	2.48	
20	2.65	3.29	3.85	3.30	3.38	3.61	3.30	4.17	3.69	3.21	2.57	2.47	
21	2.62	3.31	3.82	3.27	3.40	3.59	3.30	4.20	3.68	3.20	2.57	2.38	
22	2.57	3.32	3.78	3.26	3.37	3.60	3.58	4.20	3.67	3.16	2.55	2.25	
23	2.56	3.31	3.77	3.12	3.27	3.60	3.88	4.18	3.66	3.12	2.53	2.28	
24	2.53	3.30	3.75	3.07	3.21	3.62	3.97	4.18	3.63	3.08	2.53	2.22	
25	2.51	3.50	3.73	3.07	3.12	3.63	3.98	4.16	3.60	3.17	2.67	2.22	
26	2.49	3.86	3.75	3.34	3.06	3.67	3.99	4.17	3.56	3.26	2.84	2.30	
27	2.48	3.93	3.81	3.51	3.05	3.81	4.03	4.26	3.54	3.53	3.00	2.26	
28	2.50	3.88	3.77	3.53	3.00	3.85	4.01	4.23	3.48	3.55	3.03	2.25	
29	2.48	3.79	3.80	3.50	2.96	3.91	3.97	4.22	3.45	3.45		2.23	
30	2.41	3.73	3.76	3.41	3.06	3.96	3.87	4.18	3.44	3.37		2.23	
31		3.67		3.40	3.10		3.85		3.43	3.35		2.22	
Mean	2.79	3.10	3.85	3.36	3.22	3.55	3.75	4.10	3.75	3.24	2.82	2.48	
Max	3.49	3.93	3.99	3.75	3.40	3.96	4.03	4.26	4.12	3.55	3.31	2.98	4.26
Min	2.41	2.45	3.70	3.00	2.96	3.09	3.30	3.87	3.43	3.08	2.53	2.22	2.22

Annual Max Momentary Gage Height 4.27 M (MSL), at 12.00 Hours, on Nov 27, 1994
Zero Gage at Bottom Elevation 2.10 M (MSL), River Bed 2.06 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.35	0.32	5.45	4.61	2.65	1.82	5.90	5.28	6.92	3.05	2.61	1.46	
2	3.30	0.32	5.90	4.50	2.24	1.99	5.90	6.10	6.64	2.96	2.31	1.25	
3	2.88	0.33	5.58	4.10	2.03	4.05	6.10	6.50	6.77	2.61	1.92	0.95	
4	2.46	0.39	5.16	3.67	2.73	4.45	6.10	6.57	6.50	2.50	1.75	0.82	
5	1.75	0.52	4.93	3.22	2.96	4.34	6.03	6.64	6.30	2.35	1.59	0.73	
6	1.65	0.57	4.55	3.26	2.84	3.95	5.97	6.70	5.97	2.31	1.46	0.71	
7	1.75	0.52	4.34	3.18	2.80	3.62	5.90	6.77	5.78	2.27	1.37	0.65	
8	1.49	0.50	5.33	3.05	2.69	3.57	5.39	6.64	5.65	2.24	1.25	0.61	
9	1.31	0.77	5.90	2.84	2.57	3.30	4.87	6.64	5.45	2.17	1.14	0.57	
10	1.14	0.75	5.97	2.88	2.53	3.05	4.61	6.44	4.99	2.17	1.04	0.53	
11	0.99	0.82	6.03	2.76	2.35	2.61	4.14	6.30	4.71	2.17	0.99	0.52	
12	0.79	0.84	5.97	2.73	2.24	1.85	3.67	6.30	4.50	2.17	0.95	0.47	
13	0.77	1.17	5.78	2.69	2.10	2.24	3.22	6.37	4.19	2.06	0.93	0.44	
14	0.63	1.43	5.58	2.65	2.03	2.57	3.26	6.44	4.10	2.10	0.88	0.38	
15	0.57	2.03	5.28	2.31	1.96	3.57	3.57	6.44	4.10	1.89	0.84	0.33	
16	0.65	2.53	5.04	1.82	2.27	3.57	3.57	6.37	4.19	1.82	0.73	0.32	
17	0.86	2.61	5.10	1.65	2.31	3.35	3.18	6.30	4.55	1.78	0.67	0.26	
18	0.79	2.57	5.28	1.52	2.13	3.67	2.80	6.64	4.61	2.06	0.63	0.31	
19	0.69	2.53	5.28	2.80	2.35	4.10	2.61	6.99	4.39	2.20	0.57	0.36	
20	0.65	2.53	5.16	2.57	2.88	3.90	2.57	7.28	4.29	2.24	0.50	0.35	
21	0.59	2.61	4.99	2.46	2.96	3.80	2.57	7.50	4.24	2.20	0.50	0.23	
22	0.50	2.65	4.76	2.42	2.84	3.85	3.76	7.50	4.19	2.06	0.47	0.11	
23	0.49	2.61	4.71	1.92	2.46	3.85	5.33	7.35	4.14	1.92	0.44	0.13	
24	0.44	2.57	4.61	1.75	2.24	3.95	5.90	7.35	4.00	1.78	0.44	0.08	
25	0.41	3.39	4.50	1.75	1.92	4.00	5.97	7.21	3.85	2.10	0.69	0.08	
26	0.38	5.22	4.61	2.73	1.72	4.19	6.03	7.28	3.67	2.42	1.07	0.15	
27	0.36	5.65	4.93	3.44	1.69	4.93	6.30	7.95	3.57	3.53	1.52	0.11	
28	0.39	5.33	4.71	3.53	1.52	5.16	6.17	7.73	3.30	3.62	1.62	0.11	
29	0.36	4.82	4.87	3.39	1.40	5.52	5.90	7.65	3.18	3.18		0.09	
30	0.26	4.50	4.66	3.00	1.72	5.84	5.28	7.35	3.13	2.84		0.09	
31		4.19		2.96	1.85		5.16		3.09	2.76		0.08	
Total	32.65	67.59	154.96	88.16	70.98	110.66	147.73	204.58	144.96	73.53	30.88	13.28	1139.96 CMSDAY
Mean	1.09	2.18	5.17	2.84	2.29	3.69	4.77	6.82	4.68	2.37	1.10	0.43	3.12 CMS
Max	3.35	5.65	6.03	4.61	2.96	5.84	6.30	7.95	6.92	3.62	2.61	1.46	7.95 CMS
Min	0.26	0.32	4.34	1.52	1.40	1.82	2.57	5.28	3.09	1.78	0.44	0.08	0.08 CMS
Runoff	2.821	5.840	13.389	7.617	6.133	9.561	12.764	17.676	12.525	6.353	2.668	1.147	98.493 MCM

Momentary Peak 8.02 CMS, at 4.27 M (MSL), at 12.00 Hours, on Nov 27, 1994

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

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

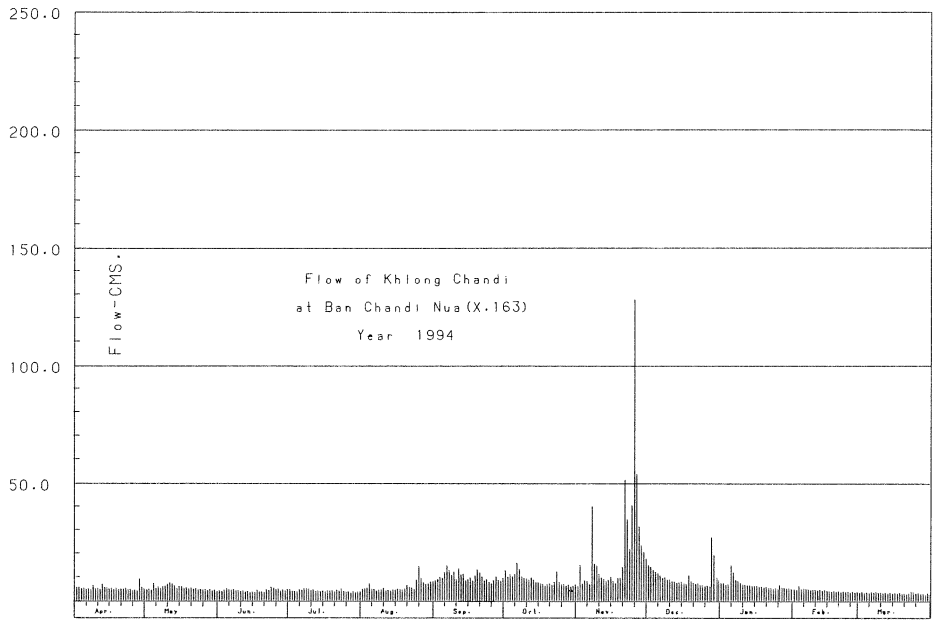
Khlong Chan Di at Ban Chan Di Nua, Nakhon Si Thammarat (X.163)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	0.77	0.72	0.76	0.80	1.03	1.24	0.89	1.35	0.99	0.77	0.67	
2	0.83	0.77	0.72	0.73	0.79	1.08	1.13	1.34	1.31	0.97	0.78	0.67	
3	0.81	0.76	0.74	0.70	0.84	1.11	1.17	0.97	1.27	0.94	0.88	0.67	
4	0.80	0.96	0.82	0.71	0.95	1.11	1.14	1.04	1.22	0.93	0.80	0.66	
5	0.79	0.82	0.75	0.75	0.80	1.21	1.18	1.02	1.21	1.35	0.80	0.66	
6	0.78	0.85	0.77	0.76	0.77	1.34	1.37	0.95	1.15	1.21	0.81	0.67	
7	0.78	0.82	0.76	0.79	0.74	1.25	1.28	2.06	1.11	1.07	0.77	0.68	
8	0.89	0.85	0.75	0.83	0.74	1.17	1.14	1.36	1.11	1.02	0.77	0.68	
9	0.81	0.90	0.73	0.78	0.78	1.22	1.09	1.34	1.08	1.00	0.76	0.67	
10	0.80	0.96	0.72	0.76	0.81	1.06	1.10	1.18	1.06	0.95	0.76	0.66	
11	0.79	0.97	0.71	0.75	0.75	1.29	1.05	1.12	1.04	0.92	0.76	0.65	
12	0.93	0.97	0.70	0.73	0.74	1.18	1.12	1.07	1.01	0.92	0.76	0.65	
13	0.85	0.88	0.69	0.71	0.74	1.18	1.05	1.04	1.00	0.90	0.75	0.65	
14	0.82	0.82	0.67	0.71	0.75	1.05	1.01	1.05	0.99	0.90	0.75	0.65	
15	0.80	0.86	0.67	0.71	0.77	1.06	0.99	1.13	1.01	0.88	0.74	0.64	
16	0.80	0.86	0.68	0.71	0.78	1.10	0.98	1.02	0.98	0.88	0.71	0.64	
17	0.78	0.82	0.74	0.72	0.80	1.05	0.94	0.98	0.94	0.88	0.72	0.64	
18	0.80	0.82	0.70	0.74	0.75	1.16	0.91	1.09	1.17	0.86	0.71	0.64	
19	0.79	0.81	0.67	0.72	0.81	1.26	0.93	1.11	1.04	0.86	0.71	0.63	
20	0.77	0.81	0.68	0.71	0.90	1.22	0.95	1.30	0.98	0.85	0.70	0.61	
21	0.80	0.80	0.75	0.74	0.87	1.12	0.93	2.30	0.97	0.85	0.70	0.61	
22	0.80	0.79	0.75	0.74	0.82	1.05	1.00	1.92	0.97	0.82	0.70	0.61	
23	0.77	0.78	0.84	0.78	0.80	1.06	1.24	1.58	0.93	0.81	0.70	0.72	
24	0.76	0.76	0.84	0.73	1.05	1.02	1.02	2.06	0.91	0.81	0.69	0.67	
25	0.74	0.77	0.79	0.70	1.33	0.98	0.95	3.53	0.90	0.80	0.69	0.64	
26	0.74	0.76	0.78	0.68	1.09	1.04	0.93	2.34	0.89	0.91	0.69	0.63	
27	0.74	0.75	0.74	0.66	1.01	1.14	0.91	1.85	0.89	0.85	0.68	0.62	
28	1.09	0.76	0.75	0.69	0.93	1.04	0.92	1.62	1.73	0.81	0.67	0.60	
29	0.83	0.74	0.75	0.67	0.97	1.04	0.88	1.54	1.50	0.82		0.59	
30	0.78	0.74	0.76	0.67	1.00	1.09	0.88	1.44	1.10	0.80		0.62	
31		0.72		0.68	1.03		0.92		1.04	0.80		0.60	
Mean	0.81	0.82	0.74	0.73	0.86	1.12	1.04	1.44	1.09	0.91	0.74	0.65	
Max	1.09	0.97	0.84	0.83	1.33	1.34	1.37	3.53	1.73	1.35	0.88	0.72	3.53
Min	0.74	0.72	0.67	0.66	0.74	0.98	0.88	0.89	0.89	0.80	0.67	0.59	0.59

Annual Max Momentary Gage Height 4.68 M (A.D), at 18.00 Hours, on Nov 25, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.00 M (A.D)
Left Bank Elevation 6.88 M (A.D)
Right Bank Elevation 6.57 M (A.D), Drainage Area 97 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.15	5.14	4.54	5.02	5.50	8.74	12.96	6.67	15.70	8.06	5.14	3.97	
2	5.89	5.14	4.54	4.66	5.38	9.64	10.60	15.44	14.66	7.78	5.26	3.97	
3	5.63	5.02	4.78	4.30	6.02	10.20	11.40	7.78	13.68	7.36	6.54	3.97	
4	5.50	7.64	5.76	4.42	7.50	10.20	10.80	8.92	12.48	7.22	5.50	3.86	
5	5.38	5.76	4.90	4.90	5.50	12.24	11.60	8.56	12.24	15.70	5.50	3.86	
6	5.26	6.15	5.14	5.02	5.14	15.44	16.22	7.50	11.00	12.24	5.63	3.97	
7	5.26	5.76	5.02	5.38	4.78	13.20	13.92	40.64	10.20	9.46	5.14	4.08	
8	6.67	6.15	4.90	5.89	4.78	11.40	10.80	15.96	10.20	8.56	5.14	4.08	
9	5.63	6.80	4.66	5.26	5.26	12.48	9.82	15.44	9.64	8.20	5.02	3.97	
10	5.50	7.64	4.54	5.02	5.63	9.28	10.00	11.60	9.28	7.50	5.02	3.86	
11	5.38	7.78	4.42	4.90	4.90	14.16	9.10	10.40	8.92	7.08	5.02	3.75	
12	7.22	7.78	4.30	4.66	4.78	11.60	10.40	9.46	8.38	7.08	5.02	3.75	
13	6.15	6.54	4.19	4.42	4.78	11.60	9.10	8.92	8.20	6.80	4.90	3.75	
14	5.76	5.76	3.97	4.42	4.90	9.10	8.38	9.10	8.06	6.80	4.90	3.75	
15	5.50	6.28	3.97	4.42	5.14	9.28	8.06	10.60	8.38	6.54	4.78	3.64	
16	5.50	6.28	4.08	4.42	5.26	10.00	7.92	8.56	7.92	6.54	4.42	3.64	
17	5.26	5.76	4.78	4.54	5.50	9.10	7.36	7.92	7.36	6.54	4.54	3.64	
18	5.50	5.76	4.30	4.78	4.90	11.20	6.94	9.82	11.40	6.28	4.42	3.64	
19	5.38	5.63	3.97	4.54	5.63	13.44	7.22	10.20	8.92	6.28	4.42	3.53	
20	5.14	5.63	4.08	4.42	6.80	12.48	7.50	14.40	7.92	6.15	4.30	3.31	
21	5.50	5.50	4.90	4.78	6.41	10.40	7.22	51.80	7.78	6.15	4.30	3.31	
22	5.50	5.38	4.90	4.78	5.76	9.10	8.20	34.72	7.78	5.76	4.30	3.31	
23	5.14	5.26	6.02	5.26	5.50	9.28	12.96	22.38	7.22	5.63	4.30	4.54	
24	5.02	5.02	6.02	4.66	9.10	8.56	8.56	40.64	6.94	5.63	4.19	3.97	
25	4.78	5.14	5.38	4.30	15.18	7.92	7.50	128.28	6.80	5.50	4.19	3.64	
26	4.78	5.02	5.26	4.08	9.82	8.92	7.22	53.80	6.67	6.94	4.19	3.53	
27	4.78	4.90	4.78	3.86	8.38	10.80	6.94	31.95	6.67	6.15	4.08	3.42	
28	9.82	5.02	4.90	4.19	7.22	8.92	7.08	23.68	27.48	5.63	3.97	3.20	
29	5.89	4.78	4.90	3.97	7.78	8.92	6.54	21.14	19.90	5.76		3.10	
30	5.26	4.78	5.02	3.97	8.20	9.82	6.54	18.16	10.00	5.50		3.42	
31		4.54		4.08	8.74		7.08		8.92	5.50		3.20	
Total	170.13	179.74	142.92	143.32	200.17	317.42	285.94	664.44	320.70	222.32	134.13	114.63	2895.86 CMSDAY
Mean	5.67	5.80	4.76	4.62	6.46	10.58	9.22	22.15	10.35	7.17	4.79	3.70	7.93 CMS
Max	9.82	7.78	6.02	5.89	15.18	15.44	16.22	128.28	27.48	15.70	6.54	4.54	128.28 CMS
Min	4.78	4.54	3.97	3.86	4.78	7.92	6.54	6.67	6.67	5.50	3.97	3.10	3.10 CMS
Runoff	14.699	15.530	12.348	12.383	17.295	27.425	24.705	57.408	27.708	19.208	11.589	9.904	250.202 MCM

Momentary Peak 232.80 CMS, at 4.68 M (A.D), at 18.00 Hours, on Nov 25, 1994

Runoff Yield 81.79 Liters/Second/Square KM, Momentary Peak Yield 2400.00 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENNINSULA EAST COAST

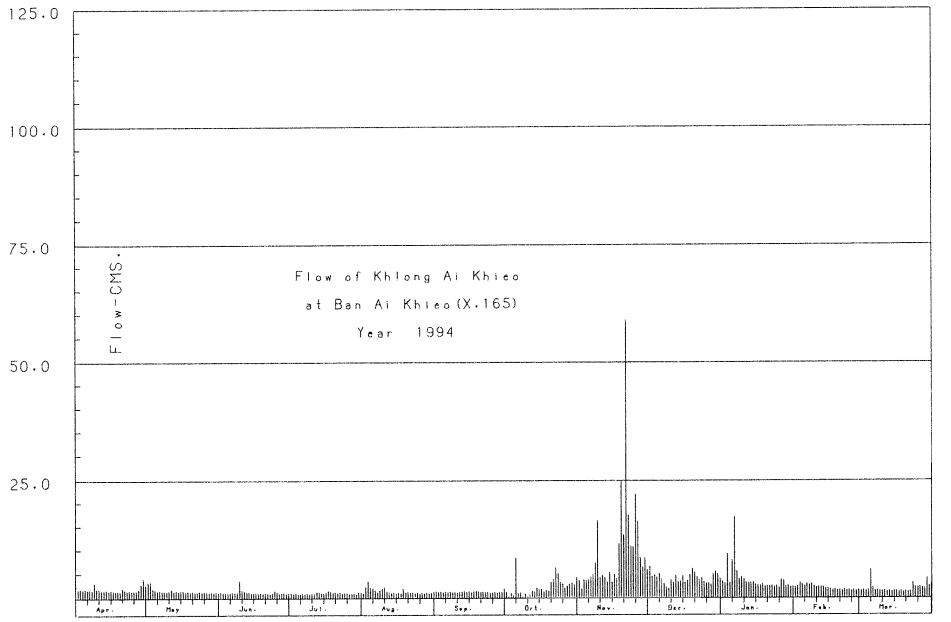
Khlong Ai Khieo at Ban Ai Khieo, Nakhon Si Thammarat (X.165)

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 27 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.13	1.33	1.04	1.01	1.02	1.06	1.04	1.38	1.69	1.36	1.21	1.10	
2	1.13	1.33	1.04	1.01	1.19	1.06	0.92	1.15	1.47	1.30	1.21	1.10	
3	1.13	1.16	1.03	1.00	1.37	1.05	1.03	1.38	1.53	1.85	1.33	1.10	
4	1.13	1.11	1.03	1.00	1.17	1.05	0.92	1.38	1.45	1.33	1.26	1.10	
5	1.12	1.09	1.03	1.00	1.17	1.05	1.81	1.38	1.57	1.77	1.25	1.64	
6	1.11	1.08	1.03	1.00	1.10	1.05	1.02	1.48	1.41	2.31	1.28	1.18	
7	1.11	1.07	1.03	1.00	1.06	1.05	1.02	1.52	1.31	1.62	1.27	1.10	
8	1.32	1.06	1.03	1.00	1.09	1.05	0.90	1.74	1.19	1.43	1.28	1.10	
9	1.13	1.07	1.38	0.99	1.16	1.04	1.00	2.26	1.17	1.46	1.24	1.10	
10	1.12	1.07	1.09	0.99	1.19	1.04	0.91	1.44	1.38	1.42	1.21	1.09	
11	1.11	1.14	1.07	0.99	1.08	1.04	0.96	1.52	1.32	1.31	1.20	1.08	
12	1.10	1.08	1.06	1.07	1.04	1.07	1.10	1.44	1.51	1.33	1.22	1.07	
13	1.10	1.08	1.04	1.04	1.03	1.07	1.05	1.34	1.35	1.31	1.19	1.07	
14	1.09	1.07	1.03	1.03	1.03	1.06	1.19	1.58	1.35	1.34	1.17	1.07	
15	1.09	1.07	1.02	1.02	1.02	1.06	1.12	1.34	1.51	1.26	1.15	1.07	
16	1.08	1.07	1.02	1.02	1.02	1.05	1.13	1.54	1.31	1.24	1.13	1.07	
17	1.08	1.06	1.02	1.10	1.02	1.05	1.07	1.42	1.39	1.26	1.12	1.07	
18	1.07	1.06	1.01	1.05	1.14	1.10	1.10	1.99	1.52	1.27	1.12	1.07	
19	1.07	1.06	1.01	1.04	1.06	1.06	1.10	2.66	1.66	1.23	1.11	1.06	
20	1.18	1.05	1.01	1.03	1.05	1.06	1.32	2.09	1.59	1.22	1.10	1.06	
21	1.10	1.05	1.00	1.03	1.04	1.05	1.42	3.86	1.48	1.24	1.10	1.06	
22	1.09	1.05	1.00	1.02	1.03	1.05	1.66	2.33	1.37	1.23	1.12	1.06	
23	1.08	1.05	1.00	1.02	1.02	1.04	1.58	1.96	1.45	1.22	1.11	1.32	
24	1.08	1.05	1.10	1.01	1.02	1.04	1.32	1.94	1.33	1.23	1.10	1.19	
25	1.07	1.05	1.03	1.01	1.02	1.04	1.30	2.54	1.31	1.20	1.10	1.20	
26	1.07	1.04	1.02	1.00	1.02	1.04	1.16	2.25	1.30	1.38	1.10	1.20	
27	1.14	1.04	1.02	1.00	1.02	1.04	1.24	1.81	1.28	1.38	1.10	1.19	
28	1.28	1.04	1.01	0.99	1.02	1.04	1.27	1.68	1.53	1.21	1.10	1.15	
29	1.41	1.04	1.01	0.99	1.02	1.05	1.32	1.80	1.61	1.23		1.44	
30	1.24	1.04	1.01	1.02	1.02	1.15	1.26	1.63	1.53	1.21		1.24	
31		1.04		1.02	1.07		1.44		1.42	1.20		1.26	
Mean	1.13	1.08	1.04	1.02	1.07	1.06	1.18	1.79	1.43	1.37	1.17	1.15	
Max	1.41	1.33	1.38	1.10	1.37	1.15	1.81	3.86	1.69	2.31	1.33	1.64	3.86
Min	1.07	1.04	1.00	0.99	1.02	1.04	0.90	1.15	1.17	1.20	1.10	1.06	0.90

Annual Max Momentary Gage Height 4.09 M (A.D), at 6.00 Hours, on Nov 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.71 M (A.D)
Left Bank Elevation 10.49 M (A.D)
Right Bank Elevation 10.59 M (A.D), Drainage Area 25 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.91	3.44	1.28	1.07	1.14	1.42	1.28	3.84	6.86	3.68	2.48	1.70	
2	1.91	3.44	1.28	1.07	2.33	1.42	0.52	2.05	4.56	3.20	2.48	1.70	
3	1.91	2.12	1.21	1.00	3.76	1.35	1.21	3.84	5.04	9.30	3.44	1.70	
4	1.91	1.77	1.21	1.00	2.19	1.35	0.52	3.84	4.40	3.44	2.88	1.70	
5	1.84	1.63	1.21	1.00	2.19	1.35	8.66	3.84	5.36	8.05	2.80	6.16	
6	1.77	1.56	1.21	1.00	1.70	1.35	1.14	4.64	4.08	17.40	3.04	2.26	
7	1.77	1.49	1.21	1.00	1.42	1.35	1.14	4.96	3.28	5.88	2.96	1.70	
8	3.36	1.42	1.21	1.00	1.63	1.35	0.40	7.60	2.33	4.24	3.04	1.70	
9	1.91	1.49	3.84	0.94	2.12	1.28	1.00	16.44	2.19	4.48	2.72	1.70	
10	1.84	1.49	1.63	0.94	2.33	1.28	0.46	4.32	3.84	4.16	2.48	1.63	
11	1.77	1.98	1.49	0.94	1.56	1.28	0.76	4.96	3.36	3.28	2.40	1.56	
12	1.70	1.56	1.42	1.49	1.28	1.49	1.70	4.32	4.88	3.44	2.56	1.49	
13	1.70	1.56	1.28	1.28	1.21	1.49	1.35	3.52	3.60	3.28	2.33	1.49	
14	1.63	1.49	1.21	1.21	1.21	1.42	2.33	5.44	3.60	3.52	2.19	1.49	
15	1.63	1.49	1.14	1.14	1.14	1.42	1.84	3.52	4.88	2.88	2.05	1.49	
16	1.56	1.49	1.14	1.14	1.14	1.35	1.91	5.12	3.28	2.72	1.91	1.49	
17	1.56	1.42	1.14	1.70	1.14	1.35	1.49	4.16	3.92	2.88	1.84	1.49	
18	1.49	1.42	1.07	1.35	1.98	1.70	1.70	11.63	4.96	2.96	1.84	1.49	
19	1.49	1.42	1.07	1.28	1.42	1.42	1.70	24.88	6.44	2.64	1.77	1.42	
20	2.26	1.35	1.07	1.21	1.35	1.42	3.36	13.33	5.52	2.56	1.70	1.42	
21	1.70	1.35	1.00	1.21	1.28	1.35	4.16	59.10	4.64	2.72	1.70	1.42	
22	1.63	1.35	1.00	1.14	1.21	1.35	6.44	17.80	3.76	2.64	1.84	1.42	
23	1.56	1.35	1.00	1.14	1.14	1.28	5.44	11.12	4.40	2.56	1.77	3.36	
24	1.56	1.35	1.70	1.07	1.14	1.28	3.36	10.78	3.44	2.64	1.70	2.33	
25	1.49	1.35	1.21	1.07	1.14	1.28	3.20	22.18	3.28	2.40	1.70	2.40	
26	1.49	1.28	1.14	1.00	1.14	1.28	2.12	16.25	3.20	3.84	1.70	2.40	
27	1.98	1.28	1.14	1.00	1.14	1.28	2.72	8.66	3.04	3.84	1.70	2.33	
28	3.04	1.28	1.07	0.94	1.14	1.28	2.96	6.72	5.04	2.48	1.70	2.05	
29	4.08	1.28	1.07	0.94	1.14	1.35	3.36	8.50	5.74	2.64		4.32	
30	2.72	1.28	1.07	1.14	1.14	2.05	2.88	6.02	5.04	2.48		2.72	
31		1.28		1.14	1.49		4.32		4.16	2.40		2.88	
Total	58.17	49.46	38.72	34.55	47.34	41.62	75.43	303.38	132.12	124.63	62.72	64.41	1032.55 CMSDAY
Mean	1.94	1.60	1.29	1.11	1.53	1.39	2.43	10.11	4.26	4.02	2.24	2.08	2.83 CMS
Max	4.08	3.44	3.84	1.70	3.76	2.05	8.66	59.10	6.86	17.40	3.44	6.16	59.10 CMS
Min	1.49	1.28	1.00	0.94	1.14	1.28	0.40	2.05	2.19	2.40	1.70	1.42	0.40 CMS
Runoff	5.026	4.273	3.345	2.985	4.090	3.596	6.517	26.212	11.415	10.768	5.419	5.565	89.212 MCM

Momentary Peak 67.15 CMS, at 4.09 M (A.D), at 6.00 Hours, on Nov 21, 1994

Runoff Yield 113.16 Liters/Second/Square KM, Momentary Peak Yield 2686.00 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

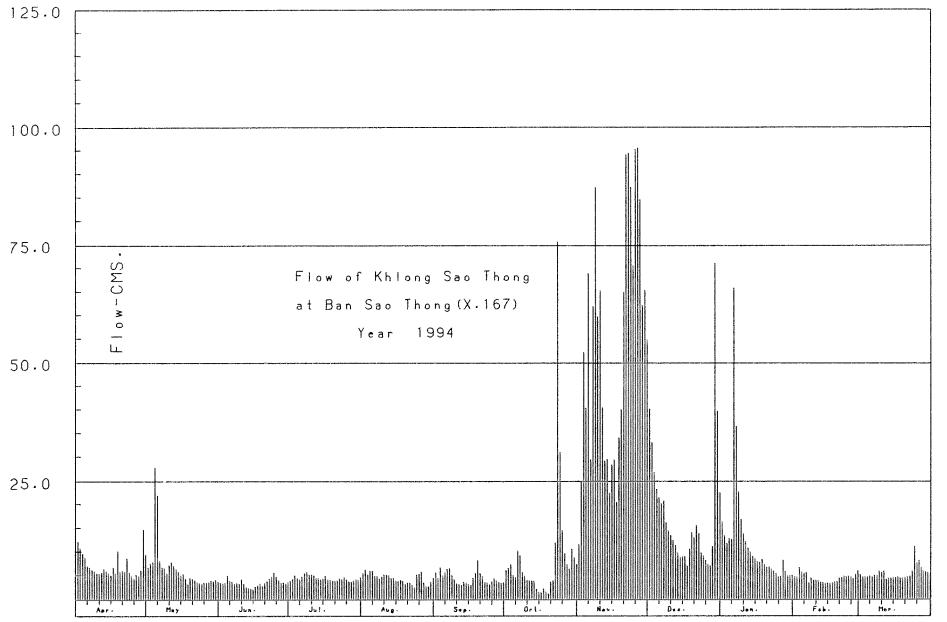
Khlong Sao Thong at Ban Sao Thong, Nakhon Si Thammarat (X.167)

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 good. Stage-discharge relation defined by 29 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.02	0.73	0.50	0.53	0.65	0.66	0.69	0.98	2.14	1.21	0.60	0.62	
2	0.94	0.77	0.50	0.57	0.69	0.57	0.71	1.55	1.88	1.07	0.58	0.60	
3	0.89	0.80	0.50	0.61	0.63	0.72	0.77	2.54	1.63	1.00	0.73	0.59	
4	0.84	1.67	0.62	0.58	0.67	0.62	0.61	2.14	1.50	1.04	0.66	0.60	
5	0.75	1.45	0.54	0.56	0.68	0.65	0.59	3.04	1.42	1.04	0.65	0.60	
6	0.72	0.81	0.51	0.59	0.60	0.70	0.92	1.74	1.37	2.95	0.65	0.60	
7	0.70	0.73	0.49	0.65	0.61	0.72	0.86	2.84	1.40	2.01	0.51	0.61	
8	0.67	0.71	0.49	0.66	0.56	0.62	0.66	3.50	1.21	1.47	0.57	0.62	
9	0.65	0.65	0.49	0.63	0.60	0.55	0.60	2.77	1.12	1.24	0.55	0.67	
10	0.63	0.76	0.55	0.62	0.62	0.50	0.55	2.94	1.08	1.10	0.55	0.66	
11	0.66	0.79	0.48	0.61	0.63	0.47	0.53	2.15	1.02	1.01	0.53	0.67	
12	0.70	0.74	0.43	0.58	0.61	0.47	0.54	1.72	0.98	0.95	0.52	0.56	
13	0.68	0.71	0.40	0.57	0.58	0.51	0.52	1.74	0.89	0.90	0.50	0.57	
14	0.64	0.66	0.40	0.56	0.57	0.51	0.39	1.46	0.85	0.86	0.50	0.58	
15	0.62	0.62	0.38	0.57	0.54	0.47	0.30	1.69	0.85	0.83	0.49	0.58	
16	0.73	0.63	0.42	0.60	0.52	0.47	0.29	1.74	0.85	0.80	0.48	0.59	
17	0.64	0.57	0.46	0.56	0.55	0.57	0.40	1.39	0.75	0.79	0.51	0.59	
18	0.92	0.49	0.48	0.54	0.53	0.64	0.31	1.91	0.94	0.83	0.51	0.58	
19	0.66	0.57	0.45	0.54	0.49	0.82	0.28	2.13	1.10	0.77	0.53	0.57	
20	0.69	0.56	0.49	0.53	0.50	0.65	0.51	2.93	1.05	0.72	0.57	0.59	
21	0.66	0.55	0.52	0.54	0.51	0.60	0.54	3.63	1.18	0.74	0.59	0.59	
22	0.83	0.52	0.57	0.56	0.46	0.52	1.00	3.64	1.10	0.70	0.60	0.61	
23	0.66	0.49	0.59	0.56	0.42	0.50	3.23	3.50	0.90	0.67	0.60	0.67	
24	0.60	0.49	0.66	0.58	0.62	0.48	1.80	3.09	0.86	0.65	0.60	0.96	
25	0.57	0.50	0.59	0.55	0.64	0.53	1.12	3.65	0.82	0.60	0.60	0.79	
26	0.62	0.50	0.55	0.53	0.66	0.56	0.89	3.66	0.76	0.60	0.56	0.81	
27	0.61	0.52	0.51	0.52	0.51	0.53	0.77	3.44	0.75	0.82	0.63	0.73	
28	0.68	0.53	0.50	0.53	0.43	0.52	0.70	2.84	0.96	0.66	0.67	0.67	
29	1.14	0.53	0.49	0.56	0.44	0.49	0.94	2.94	3.11	0.61		0.67	
30	0.87	0.54	0.51	0.54	0.51	0.50	0.84	2.62	2.12	0.60		0.65	
31		0.53		0.58	0.58		0.77		1.47	0.61		0.65	
Mean	0.73	0.68	0.50	0.57	0.57	0.57	0.76	2.53	1.23	0.96	0.57	0.64	
Max	1.14	1.67	0.66	0.66	0.69	0.82	3.23	3.66	3.11	2.95	0.73	0.96	3.66
Min	0.57	0.49	0.38	0.52	0.42	0.47	0.28	0.98	0.75	0.60	0.48	0.56	0.28

Annual Max Momentary Gage Height 3.68 M (A.D), at 12.00 Hours, on Nov 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.07 M (A.D)
Left Bank Elevation 3.52 M (A.D)
Right Bank Elevation 3.92 M (A.D), Drainage Area 268 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.42	6.88	3.50	3.92	5.65	5.80	6.25	11.60	40.42	16.43	4.90	5.20	
2	10.80	7.52	3.50	4.48	6.25	4.48	6.56	24.80	33.38	13.47	4.62	4.90	
3	9.80	8.00	3.50	5.05	5.35	6.72	7.52	52.38	26.88	12.00	6.88	4.76	
4	8.80	27.92	5.20	4.62	5.95	5.20	5.05	40.42	23.50	12.84	5.80	4.90	
5	7.20	22.25	4.06	4.34	6.10	5.65	4.76	68.96	21.50	12.84	5.65	4.90	
6	6.72	8.20	3.64	4.76	4.90	6.40	10.40	29.74	20.25	65.90	5.65	4.90	
7	6.40	6.88	3.39	5.65	5.05	6.72	9.20	62.16	21.00	36.78	3.64	5.05	
8	5.95	6.56	3.39	5.80	4.34	5.20	5.80	87.50	16.43	22.75	4.48	5.20	
9	5.65	5.65	3.39	5.35	4.90	4.20	4.90	59.81	14.52	17.12	4.20	5.95	
10	5.35	7.36	4.20	5.20	5.20	3.50	4.20	65.56	13.68	14.10	4.20	5.80	
11	5.80	7.84	3.28	5.05	5.35	3.17	3.92	40.70	12.42	12.21	3.92	5.95	
12	6.40	7.04	2.73	4.62	5.05	3.17	4.06	29.22	11.60	11.00	3.78	4.34	
13	6.10	6.56	2.40	4.48	4.62	3.64	3.78	29.74	9.80	10.00	3.50	4.48	
14	5.50	5.80	2.40	4.34	4.48	3.64	2.31	22.50	9.00	9.20	3.50	4.62	
15	5.20	5.20	2.22	4.48	4.06	3.17	1.50	28.44	9.00	8.60	3.39	4.62	
16	6.88	5.35	2.62	4.90	3.78	3.17	1.41	29.74	9.00	8.00	3.28	4.76	
17	5.50	4.48	3.06	4.34	4.20	4.48	2.40	20.75	7.20	7.84	3.64	4.76	
18	10.40	3.39	3.28	4.06	3.92	5.50	1.59	34.16	10.80	8.60	3.64	4.62	
19	5.80	4.48	2.95	4.06	3.39	8.40	1.32	40.14	14.10	7.52	3.92	4.48	
20	6.25	4.34	3.39	3.92	3.50	5.65	3.64	65.22	13.05	6.72	4.48	4.76	
21	5.80	4.20	3.78	4.06	3.64	4.90	4.06	94.15	15.78	7.04	4.76	4.76	
22	8.60	3.78	4.48	4.34	3.06	3.78	12.00	94.70	14.10	6.40	4.90	5.05	
23	5.80	3.39	4.76	4.34	2.62	3.50	75.70	87.50	10.00	5.95	4.90	5.95	
24	4.90	3.39	5.80	4.62	5.20	3.28	31.30	70.66	9.20	5.65	4.90	11.20	
25	4.48	3.50	4.76	4.20	5.50	3.92	14.52	95.25	8.40	4.90	4.90	7.84	
26	5.20	3.50	4.20	3.92	5.80	4.34	9.80	95.80	7.36	4.90	4.34	8.20	
27	5.05	3.78	3.64	3.78	3.64	3.92	7.52	84.62	7.20	8.40	5.35	6.88	
28	6.10	3.92	3.50	3.92	2.73	3.78	6.40	62.16	11.20	5.80	5.95	5.95	
29	14.94	3.92	3.39	4.34	2.84	3.39	10.80	65.56	71.35	5.05		5.95	
30	9.40	4.06	3.64	4.06	3.64	3.50	8.80	54.94	39.86	4.90		5.65	
31		3.92		4.62	4.62		7.52		22.75	5.05		5.65	
Total	213.19	203.06	108.05	139.62	139.33	136.17	278.99	1648.88	554.73	377.96	127.07	172.03	4099.08 CMSDAY
Mean	7.11	6.55	3.60	4.50	4.49	4.54	9.00	54.96	17.89	12.19	4.54	5.55	11.23 CMS
Max	14.94	27.92	5.80	5.80	6.25	8.40	75.70	95.80	71.35	65.90	6.88	11.20	95.80 CMS
Min	4.48	3.39	2.22	3.78	2.62	3.17	1.32	11.60	7.20	4.90	3.28	4.34	1.32 CMS
Runoff	18.420	17.544	9.336	12.063	12.038	11.765	24.105	142.463	47.929	32.656	10.979	14.863	354.161 MCM

Momentary Peak 96.90 CMS, at 3.68 M (A.D), at 12.00 Hours, on Nov 21, 1994

Runoff Yield 41.90 Liters/Second/Square KM, Momentary Peak Yield 361.57 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

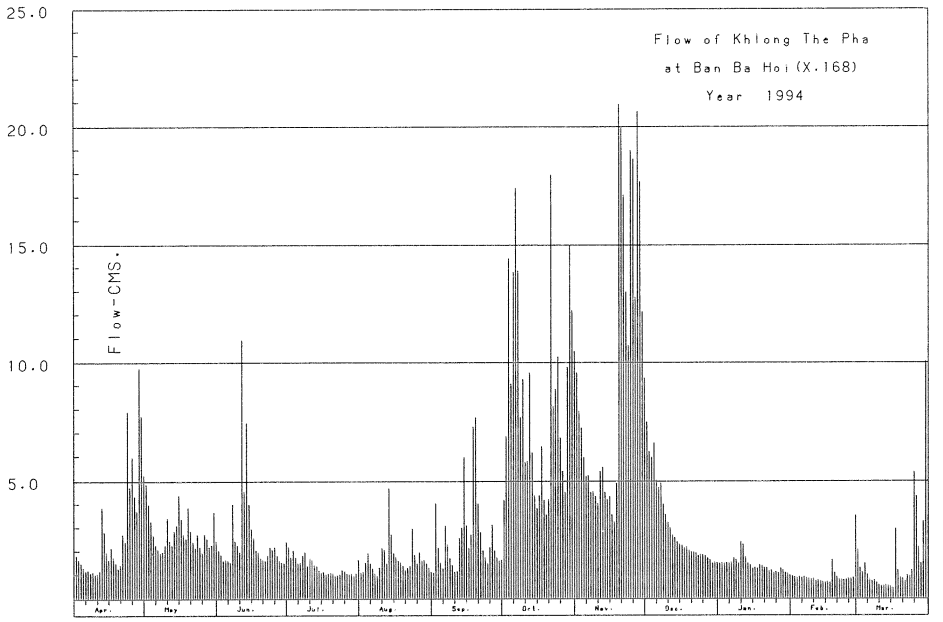
Khlong Thepha at Ban Bahoi, Yala (X.168)

Location	Lat.06°-25'-40" N., Long. 100°-55'-41" E., on right bank at the bridge near Wat Bahoi, Tambon Bahoi, King Amphoe Ka Bang, Yala.
Drainage Area	315 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.38 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 5 meters from the station office.
Elevation	+8.991 m.(A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 57 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.66	0.87	0.68	0.69	0.59	0.59	0.83	1.09	1.00	0.63	0.57	0.68	
2	0.64	0.82	0.66	0.65	0.59	0.82	0.97	1.02	0.94	0.63	0.56	0.61	
3	0.63	0.77	0.64	0.68	0.63	0.69	1.28	0.99	0.93	0.63	0.56	0.59	
4	0.61	0.73	0.64	0.65	0.67	0.63	1.07	0.93	0.96	0.63	0.56	0.63	
5	0.60	0.70	0.64	0.63	0.63	0.61	1.26	0.89	0.88	0.63	0.56	0.58	
6	0.60	0.68	0.63	0.63	0.61	0.76	1.38	0.89	0.86	0.63	0.56	0.55	
7	0.59	0.67	0.82	0.66	0.58	0.70	1.26	0.85	0.87	0.65	0.56	0.54	
8	0.59	0.67	0.71	0.67	0.57	0.65	1.01	0.85	0.82	0.64	0.55	0.54	
9	0.58	0.70	0.70	0.62	0.61	0.62	1.08	0.84	0.79	0.63	0.55	0.53	
10	0.58	0.78	0.67	0.65	0.69	0.59	0.92	0.82	0.77	0.71	0.55	0.51	
11	0.60	0.71	1.15	0.64	0.68	0.60	0.92	0.90	0.75	0.70	0.54	0.51	
12	0.81	0.70	0.85	0.62	0.63	0.72	1.09	0.91	0.73	0.65	0.54	0.51	
13	0.74	0.74	1.00	0.62	0.86	0.75	0.94	0.85	0.72	0.63	0.54	0.51	
14	0.67	0.76	0.82	0.60	0.73	0.93	0.84	0.83	0.71	0.62	0.53	0.51	
15	0.64	0.84	0.75	0.59	0.67	0.76	0.81	0.84	0.70	0.61	0.53	0.50	
16	0.69	0.78	0.72	0.59	0.65	0.69	0.84	0.79	0.70	0.61	0.53	0.49	
17	0.65	0.73	0.68	0.58	0.64	0.73	0.95	0.77	0.69	0.61	0.53	0.75	
18	0.63	0.72	0.67	0.58	0.63	0.99	0.83	0.87	0.69	0.62	0.64	0.60	
19	0.61	0.81	0.65	0.59	0.62	1.01	0.79	1.49	0.68	0.62	0.59	0.56	
20	0.62	0.74	0.64	0.58	0.60	0.82	0.83	1.46	0.67	0.61	0.56	0.55	
21	0.73	0.71	0.64	0.57	0.61	0.74	1.40	1.37	0.67	0.61	0.55	0.54	
22	0.71	0.69	0.66	0.57	0.62	0.68	1.03	1.23	0.67	0.60	0.55	0.57	
23	1.02	0.73	0.69	0.58	0.75	0.65	1.06	1.14	0.66	0.60	0.54	0.57	
24	0.86	0.69	0.68	0.60	0.66	0.63	1.12	1.43	0.66	0.59	0.55	0.60	
25	0.93	0.67	0.69	0.60	0.63	0.69	0.97	1.42	0.66	0.59	0.55	0.90	
26	0.84	0.73	0.66	0.58	0.67	0.76	0.90	1.22	0.66	0.59	0.55	0.84	
27	0.80	0.72	0.64	0.58	0.64	0.68	0.85	1.48	0.65	0.61	0.56	0.69	
28	1.10	0.69	0.63	0.58	0.64	0.65	1.10	1.39	0.64	0.60	0.79	0.63	
29	1.01	0.70	0.63	0.57	0.63	0.64	1.30	1.20	0.63	0.59		0.77	
30	0.89	0.80	0.71	0.58	0.61	0.64	1.20	1.08	0.63	0.58		1.11	
31		0.71		0.64	0.59		1.13		0.63	0.57		0.79	
Mean	0.72	0.73	0.71	0.61	0.64	0.71	1.03	1.06	0.74	0.62	0.56	0.62	
Max	1.10	0.87	1.15	0.69	0.86	1.01	1.40	1.49	1.00	0.71	0.79	1.11	1.49
Min	0.58	0.67	0.63	0.57	0.57	0.59	0.79	0.77	0.63	0.57	0.53	0.49	0.49

Annual Max Momentary Gage Height 2.08 M (A.D), at 22.00 Hours, on Oct 28, 1994
Zero Gage at Bottom Elevation 0.38 M (A.D), River Bed 0.15 M (A.D)
Left Bank Elevation 8.27 M (A.D)
Right Bank Elevation 8.72 M (A.D), Drainage Area 315 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.86	4.89	2.08	2.19	1.13	1.13	4.21	9.57	7.50	1.53	0.99	2.08	
2	1.64	4.04	1.86	1.75	1.13	4.04	6.87	7.96	6.24	1.53	0.92	1.31	
3	1.53	3.28	1.64	2.08	1.53	2.19	14.44	7.29	6.03	1.53	0.92	1.13	
4	1.31	2.72	1.64	1.75	1.97	1.53	9.11	6.03	6.66	1.53	0.92	1.53	
5	1.20	2.30	1.64	1.53	1.53	1.31	13.88	5.23	5.06	1.53	0.92	1.06	
6	1.20	2.08	1.53	1.53	1.31	3.14	17.40	5.23	4.72	1.53	0.92	0.85	
7	1.13	1.97	4.04	1.86	1.06	2.30	13.88	4.55	4.89	1.75	0.92	0.78	
8	1.13	1.97	2.44	1.97	0.99	1.75	7.73	4.55	4.04	1.64	0.85	0.78	
9	1.06	2.30	2.30	1.42	1.31	1.42	9.34	4.38	3.56	1.53	0.85	0.71	
10	1.06	3.42	1.97	1.75	2.19	1.13	5.82	4.04	3.28	2.44	0.85	0.57	
11	1.20	2.44	11.00	1.64	2.08	1.20	5.82	5.40	3.00	2.30	0.78	0.57	
12	3.87	2.30	4.55	1.42	1.53	2.58	9.57	5.61	2.72	1.75	0.78	0.57	
13	2.86	2.86	7.50	1.42	4.72	3.00	6.24	4.55	2.58	1.53	0.78	0.57	
14	1.97	3.14	4.04	1.20	2.72	6.03	4.38	4.21	2.44	1.42	0.71	0.57	
15	1.64	4.38	3.00	1.13	1.97	3.14	3.87	4.38	2.30	1.31	0.71	0.50	
16	2.19	3.42	2.58	1.13	1.75	2.19	4.38	3.56	2.30	1.31	0.71	0.45	
17	1.75	2.72	2.08	1.06	1.64	2.72	6.45	3.28	2.19	1.31	0.71	3.00	
18	1.53	2.58	1.97	1.06	1.53	7.29	4.21	4.89	2.19	1.42	1.64	1.20	
19	1.31	3.87	1.75	1.13	1.42	7.73	3.56	20.97	2.08	1.42	1.13	0.92	
20	1.42	2.86	1.64	1.06	1.20	4.04	4.21	19.98	1.97	1.31	0.92	0.85	
21	2.72	2.44	1.64	0.99	1.31	2.86	18.00	17.10	1.97	1.31	0.85	0.78	
22	2.44	2.19	1.86	0.99	1.42	2.08	8.19	13.04	1.97	1.20	0.85	0.99	
23	7.96	2.72	2.19	1.06	3.00	1.75	8.88	10.76	1.86	1.20	0.78	0.99	
24	4.72	2.19	2.08	1.20	1.86	1.53	10.28	18.99	1.86	1.13	0.85	1.20	
25	6.03	1.97	2.19	1.20	1.53	2.19	6.87	18.66	1.86	1.13	0.85	5.40	
26	4.38	2.72	1.86	1.06	1.97	3.14	5.40	12.76	1.86	1.13	0.85	4.38	
27	3.70	2.58	1.64	1.06	1.64	2.08	4.55	20.64	1.75	1.31	0.92	2.19	
28	9.80	2.19	1.53	1.06	1.64	1.75	9.80	17.70	1.64	1.20	3.56	1.53	
29	7.73	2.30	1.53	0.99	1.53	1.64	15.00	12.20	1.53	1.13		3.28	
30	5.23	3.70	2.44	1.06	1.31	1.64	12.20	9.34	1.53	1.06		10.04	
31		2.44		1.64	1.13		10.52		1.53	0.99		3.56	
Total	87.57	86.98	80.21	42.39	53.05	80.52	265.06	286.85	95.11	44.41	27.44	54.34	1203.93 CMSDAY
Mean	2.92	2.81	2.67	1.37	1.71	2.68	8.55	9.56	3.07	1.43	0.98	1.75	3.30 CMS
Max	9.80	4.89	11.00	2.19	4.72	7.73	18.00	20.97	7.50	2.44	3.56	10.04	20.97 CMS
Min	1.06	1.97	1.53	0.99	0.99	1.13	3.56	3.28	1.53	0.99	0.71	0.45	0.45 CMS
Runoff	7.566	7.515	6.930	3.662	4.584	6.957	22.901	24.784	8.218	3.837	2.371	4.695	104.020 MCM

Momentary Peak 44.30 CMS, at 2.08 M (A.D), at 22.00 Hours, on Oct 28, 1994

Runoff Yield 10.47 Liters/Second/Square KM, Momentary Peak Yield 140.63 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENNINSULA EAST COAST

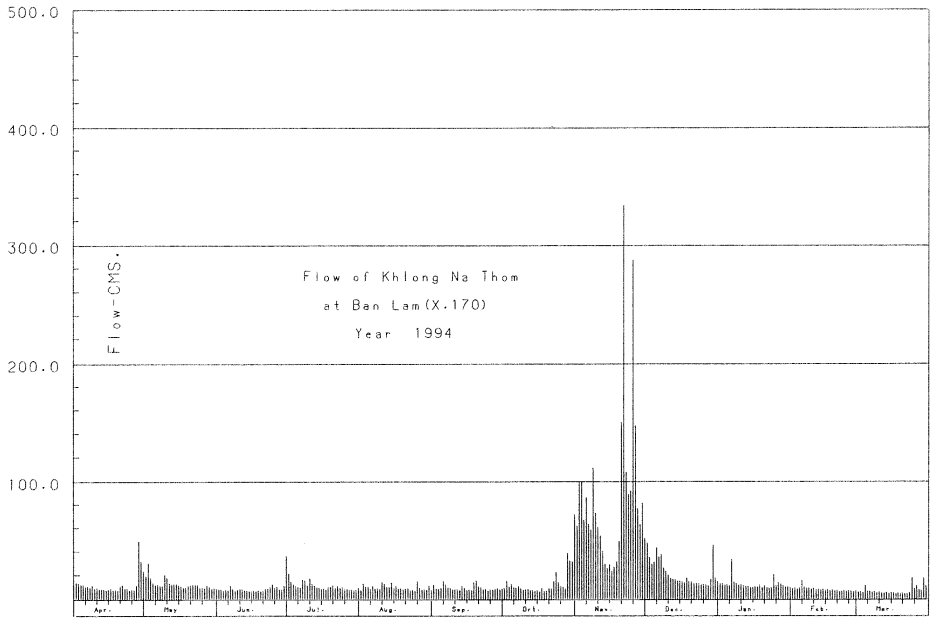
Khlong Na Thom at Ban Lam, Phattalung (X.170)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.09	1.24	0.90	1.29	0.87	1.00	0.91	1.97	1.76	1.06	0.92	0.82	
2	1.05	1.46	0.87	1.09	1.04	0.91	1.13	2.44	1.54	1.04	0.92	0.82	
3	1.03	1.20	0.86	1.04	0.95	0.88	0.97	2.45	1.45	1.02	0.91	0.81	
4	1.00	1.08	0.86	0.97	0.96	0.93	1.02	2.03	1.47	1.01	0.92	0.99	
5	0.97	1.02	0.87	0.94	0.91	1.13	0.95	2.29	1.69	1.00	1.15	0.84	
6	0.96	1.02	1.00	0.95	0.97	1.01	0.91	1.98	1.56	1.51	0.94	0.82	
7	0.95	0.99	0.88	1.17	0.91	0.95	0.98	1.92	1.58	1.10	0.93	0.81	
8	0.98	0.97	0.86	1.12	0.90	0.91	0.90	2.57	1.38	1.04	0.91	0.81	
9	0.92	1.27	0.86	1.01	0.91	0.89	0.88	2.12	1.31	1.02	0.90	0.80	
10	0.91	1.20	0.91	1.20	1.08	0.87	0.87	1.94	1.25	1.01	0.90	0.80	
11	0.90	1.07	0.88	1.03	1.03	0.87	0.90	1.85	1.21	0.99	0.89	0.79	
12	0.89	1.04	0.87	0.98	0.94	0.87	0.87	1.63	1.18	0.98	0.89	0.79	
13	0.88	1.02	0.85	0.95	0.96	0.97	0.85	1.45	1.15	0.97	0.88	0.79	
14	0.87	1.05	0.85	0.92	1.08	0.93	0.85	1.36	1.13	0.96	0.88	0.78	
15	0.87	0.99	0.84	0.91	0.93	0.87	0.84	1.44	1.11	0.95	0.87	0.78	
16	0.90	0.96	0.84	0.90	0.97	0.86	0.83	1.31	1.09	0.95	0.87	0.78	
17	0.87	0.94	0.84	0.89	0.91	0.87	0.90	1.38	1.08	0.96	0.86	0.77	
18	0.86	0.92	0.84	0.94	0.90	1.07	0.84	1.49	1.21	1.00	0.86	0.77	
19	0.87	0.99	0.84	0.97	0.89	1.14	0.83	1.78	1.09	0.94	0.85	0.77	
20	0.98	0.99	0.84	0.99	0.89	0.96	0.92	2.97	1.09	0.98	0.85	0.77	
21	1.00	1.03	0.89	0.93	0.92	0.93	0.89	4.44	1.07	0.95	0.84	0.77	
22	0.92	1.02	0.91	0.97	0.87	0.89	1.12	2.54	1.06	0.93	0.84	0.77	
23	0.90	1.00	0.94	0.93	0.86	0.88	1.31	2.32	1.04	0.92	0.84	0.78	
24	0.87	0.94	1.04	0.94	0.85	0.86	1.07	2.35	1.02	1.27	0.84	1.22	
25	0.86	0.92	0.92	0.90	1.10	0.87	0.99	4.11	1.01	0.99	0.84	0.92	
26	0.86	0.91	0.95	0.91	0.91	0.88	0.94	2.95	1.00	1.07	0.83	0.98	
27	1.01	1.01	0.89	0.88	0.88	0.90	0.92	2.16	0.99	1.05	0.83	0.89	
28	1.78	0.94	0.87	0.87	0.87	0.90	1.60	1.99	1.18	0.98	0.83	0.84	
29	1.48	0.91	1.00	0.87	0.88	0.89	1.49	2.22	1.73	0.96		1.21	
30	1.31	0.90	1.56	0.86	0.98	0.89	1.49	1.81	1.20	0.94		0.97	
31		0.89		0.91	0.88		2.10		1.10	0.93		0.92	
Mean	0.99	1.03	0.91	0.98	0.94	0.93	1.03	2.18	1.25	1.02	0.89	0.85	
Max	1.78	1.46	1.56	1.29	1.10	1.14	2.10	4.44	1.76	1.51	1.15	1.22	4.44
Min	0.86	0.89	0.84	0.86	0.85	0.86	0.83	1.31	0.99	0.92	0.83	0.77	0.77

Annual Max Momentary Gage Height 5.00 M (A.D), at 17.00 Hours, on Nov 21, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.42 M (A.D)
Left Bank Elevation 6.73 M (A.D)
Right Bank Elevation 7.27 M (A.D), Drainage Area 269 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.70	20.00	9.00	22.50	8.10	12.00	9.30	62.90	48.60	13.80	9.60	6.60	
2	13.50	31.00	8.10	14.70	13.20	9.30	15.90	99.60	35.40	13.20	9.60	6.60	
3	12.90	18.00	7.80	13.20	10.50	8.40	11.10	100.50	30.50	12.60	9.30	6.30	
4	12.00	14.40	7.80	11.10	10.80	9.90	12.60	67.10	31.50	12.30	9.60	11.70	
5	11.10	12.60	8.10	10.20	9.30	15.90	10.50	87.20	44.40	12.00	16.50	7.20	
6	10.80	12.60	12.00	10.50	11.10	12.30	9.30	63.60	36.60	33.60	10.20	6.60	
7	10.50	11.70	8.40	17.10	9.30	10.50	11.40	59.40	37.80	15.00	9.90	6.30	
8	11.40	11.10	7.80	15.60	9.00	9.30	9.00	111.30	27.00	13.20	9.30	6.30	
9	9.60	21.50	7.80	12.30	9.30	8.70	8.40	73.60	23.50	12.60	9.00	6.00	
10	9.30	18.00	9.30	18.00	14.40	8.10	8.10	60.80	20.50	12.30	9.00	6.00	
11	9.00	14.10	8.40	12.90	12.90	8.10	9.00	54.50	18.50	11.70	8.70	5.70	
12	8.70	13.20	8.10	11.40	10.20	8.10	8.10	40.80	17.40	11.40	8.70	5.70	
13	8.40	12.60	7.50	10.50	10.80	11.10	7.50	30.50	16.50	11.10	8.40	5.70	
14	8.10	13.50	7.50	9.60	14.40	9.90	7.50	26.00	15.90	10.80	8.40	5.40	
15	8.10	11.70	7.20	9.30	9.90	8.10	7.20	30.00	15.30	10.50	8.10	5.40	
16	9.00	10.80	7.20	9.00	11.10	7.80	6.90	23.50	14.70	10.50	8.10	5.40	
17	8.10	10.20	7.20	8.70	9.30	8.10	9.00	27.00	14.40	10.80	7.80	5.10	
18	7.80	9.60	7.20	10.20	9.00	14.10	7.20	32.50	18.50	12.00	7.80	5.10	
19	8.10	11.70	7.20	11.10	8.70	16.20	6.90	49.80	14.70	10.20	7.50	5.10	
20	11.40	11.70	7.20	11.70	8.70	10.80	9.60	150.00	14.70	11.40	7.50	5.10	
21	12.00	12.90	8.70	9.90	9.60	9.90	8.70	334.40	14.10	10.50	7.20	5.10	
22	9.60	12.60	9.30	11.10	8.10	8.70	15.60	108.60	13.80	9.90	7.20	5.10	
23	9.00	12.00	10.20	9.90	7.80	8.40	23.50	89.60	13.20	9.60	7.20	5.40	
24	8.10	10.20	13.20	10.20	7.50	7.80	14.10	92.00	12.60	21.50	7.20	19.00	
25	7.80	9.60	9.60	9.00	15.00	8.10	11.70	287.40	12.30	11.70	7.20	9.60	
26	7.80	9.30	10.50	9.30	9.30	8.40	10.20	148.00	12.00	14.10	6.90	11.40	
27	12.30	12.30	8.70	8.40	8.40	9.00	9.60	76.80	11.70	13.50	6.90	8.70	
28	49.80	10.20	8.10	8.10	8.10	9.00	39.00	64.30	17.40	11.40	6.90	7.20	
29	32.00	9.30	12.00	8.10	8.40	8.70	32.50	81.60	46.80	10.80		18.50	
30	23.50	9.00	36.60	7.80	11.40	8.70	32.50	51.70	18.00	10.20		11.10	
31		8.70		9.30	8.40		72.00		15.00	9.90		9.60	
Total	374.40	406.10	287.70	350.70	312.00	293.40	453.90	2585.00	683.30	394.10	239.70	234.00	6614.30 CMSDAY
Mean	12.48	13.10	9.59	11.31	10.06	9.78	14.64	86.17	22.04	12.71	8.56	7.55	18.12 CMS
Max	49.80	31.00	36.60	22.50	15.00	16.20	72.00	334.40	48.60	33.60	16.50	19.00	334.40 CMS
Min	7.80	8.70	7.20	7.80	7.50	7.80	6.90	23.50	11.70	9.60	6.90	5.10	5.10 CMS
Runoff	32.348	35.087	24.857	30.300	26.957	25.350	39.217	223.344	59.037	34.050	20.710	20.218	571.476 MCM

Momentary Peak 424.00 CMS, at 5.00 M (A.D), at 17.00 Hours, on Nov 21, 1994

Runoff Yield 67.37 Liters/Second/Square KM, Momentary Peak Yield 1576.21 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENINSULA EAST COAST

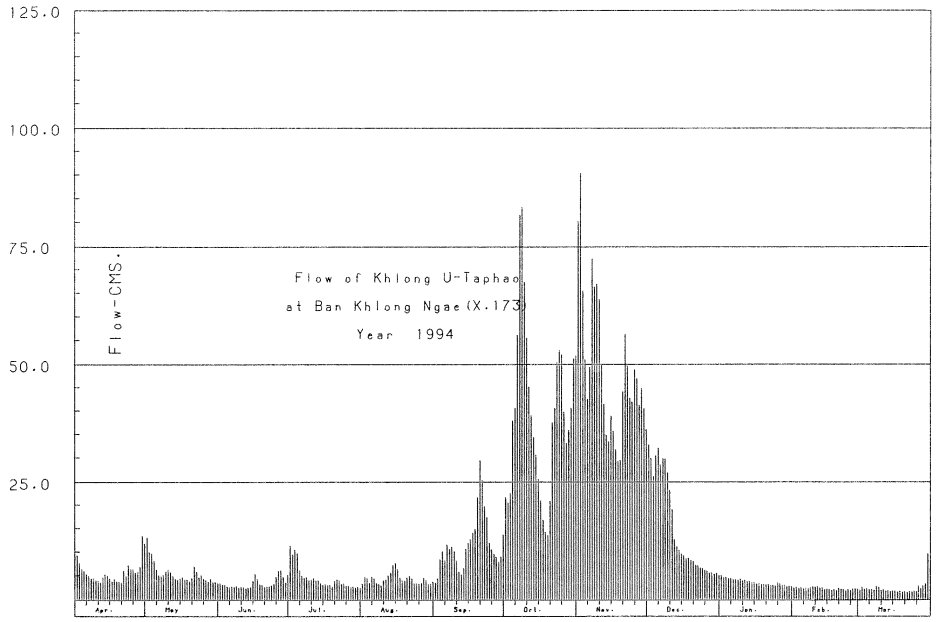
Khlong U Taphao at Ban Khlong Ngae, Songkhla (X.173)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.82	2.32	0.79	2.09	0.77	0.84	3.17	5.35	4.05	1.12	0.63	0.54	
2	1.56	1.89	0.76	1.85	1.10	0.99	3.07	5.46	3.85	1.08	0.62	0.63	
3	1.41	1.85	0.72	1.97	1.00	1.67	3.27	5.13	3.57	1.05	0.61	0.58	
4	1.30	1.65	0.68	1.88	0.83	1.94	4.33	4.80	3.89	1.02	0.60	0.57	
5	1.20	1.38	0.65	1.36	1.09	1.66	4.45	4.53	4.01	1.00	0.59	0.56	
6	1.10	1.12	0.64	1.10	0.98	2.12	4.93	4.75	3.75	0.98	0.59	0.53	
7	1.02	1.10	0.66	1.04	0.82	2.01	5.37	5.24	3.86	0.95	0.60	0.53	
8	0.99	1.14	0.66	1.03	0.74	2.05	5.39	5.14	3.84	0.96	0.61	0.66	
9	0.94	1.32	0.63	0.94	0.72	1.94	5.16	5.15	3.63	0.97	0.68	0.65	
10	0.89	1.35	0.62	0.93	0.90	1.63	4.92	5.10	3.32	0.94	0.67	0.53	
11	0.85	1.25	0.62	1.00	0.97	1.28	4.62	4.77	2.93	0.93	0.66	0.52	
12	1.06	1.12	0.61	0.94	1.11	1.18	4.38	4.48	2.26	0.90	0.63	0.50	
13	1.16	0.99	0.60	0.91	1.26	1.43	4.14	4.17	2.09	0.88	0.60	0.48	
14	1.14	0.92	0.65	0.82	1.49	1.99	3.90	4.08	1.96	0.85	0.56	0.47	
15	0.97	1.01	0.92	0.75	1.58	2.19	3.53	4.38	1.87	0.83	0.55	0.45	
16	0.89	1.03	1.18	0.74	1.37	2.26	3.10	4.21	1.79	0.80	0.54	0.45	
17	0.96	0.97	0.96	0.73	1.04	2.43	2.70	3.99	1.72	0.79	0.53	0.44	
18	0.89	0.93	0.77	0.71	0.91	2.49	2.43	3.82	1.72	0.78	0.53	0.44	
19	0.84	0.89	0.70	0.67	0.92	3.18	2.38	3.82	1.67	0.75	0.52	0.43	
20	0.85	0.99	0.65	0.88	1.02	3.83	3.11	4.59	1.61	0.76	0.58	0.42	
21	1.31	1.48	0.64	0.98	1.09	3.50	4.31	4.94	1.52	0.75	0.58	0.42	
22	1.12	1.30	0.68	0.91	1.01	2.97	4.45	4.76	1.48	0.74	0.53	0.43	
23	1.49	1.03	0.69	0.78	0.81	2.76	4.78	4.54	1.44	0.71	0.51	0.44	
24	1.40	1.12	0.79	0.77	0.77	2.19	4.85	4.50	1.41	0.71	0.52	0.45	
25	1.36	1.01	1.05	0.71	0.76	1.98	4.83	4.74	1.37	0.85	0.53	0.46	
26	1.22	0.92	1.30	0.68	0.83	1.86	4.41	4.68	1.31	0.77	0.56	0.68	
27	1.31	0.88	1.35	0.65	1.04	1.75	4.07	4.47	1.27	0.74	0.59	0.60	
28	1.46	0.96	1.07	0.64	0.91	1.62	4.22	4.61	1.24	0.71	0.55	0.67	
29	2.34	0.86	0.86	0.63	0.77	1.75	4.45	4.45	1.21	0.68		0.80	
30	2.15	0.83	1.14	0.62	0.75	2.37	4.81	4.23	1.22	0.66		1.84	
31		0.82		0.63	0.85		4.82		1.16	0.65		1.49	
Mean	1.23	1.18	0.80	0.98	0.97	2.06	4.14	4.63	2.32	0.85	0.58	0.60	
Max	2.34	2.32	1.35	2.09	1.58	3.83	5.39	5.46	4.05	1.12	0.68	1.84	5.46
Min	0.84	0.82	0.60	0.62	0.72	0.84	2.38	3.82	1.16	0.65	0.51	0.42	0.42

Annual Max Momentary Gage Height 5.51 M (A.D), at 6.00 Hours, on Nov 2, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -3.08 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, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.54	13.28	3.45	11.43	3.35	3.70	21.70	80.25	33.05	5.10	2.65	2.20	
2	7.72	10.03	3.30	9.75	5.00	4.45	20.70	90.60	30.00	4.90	2.60	2.65	
3	6.67	9.75	3.10	10.59	4.50	8.49	22.70	65.80	26.31	4.75	2.55	2.40	
4	6.00	8.35	2.90	9.96	3.65	10.38	37.99	51.00	30.56	4.60	2.50	2.35	
5	5.50	6.48	2.75	6.36	4.95	8.42	40.80	42.78	32.37	4.50	2.45	2.30	
6	5.00	5.10	2.70	5.00	4.40	11.64	56.20	49.40	28.65	4.40	2.45	2.15	
7	4.60	5.00	2.80	4.70	3.60	10.87	81.75	72.60	30.14	4.25	2.50	2.15	
8	4.45	5.20	2.80	4.65	3.20	11.15	83.25	66.40	29.86	4.30	2.55	2.80	
9	4.20	6.12	2.65	4.20	3.10	10.38	67.60	67.00	27.09	4.35	2.90	2.75	
10	3.95	6.30	2.60	4.15	4.00	8.21	55.80	64.00	23.24	4.20	2.85	2.15	
11	3.75	5.75	2.60	4.50	4.35	5.90	45.24	50.04	19.30	4.15	2.80	2.10	
12	4.80	5.10	2.55	4.20	5.05	5.40	39.14	41.52	12.74	4.00	2.65	2.00	
13	5.30	4.45	2.50	4.05	5.80	6.81	34.58	35.09	11.43	3.90	2.50	1.92	
14	5.20	4.10	2.75	3.60	7.23	10.73	30.70	33.56	10.52	3.75	2.30	1.88	
15	4.35	4.55	4.10	3.25	7.86	12.13	25.79	39.14	9.89	3.65	2.25	1.80	
16	3.95	4.65	5.40	3.20	6.42	12.74	21.00	35.77	9.33	3.50	2.20	1.80	
17	4.30	4.35	4.30	3.15	4.70	14.30	17.00	32.05	8.84	3.45	2.15	1.76	
18	3.95	4.15	3.35	3.05	4.05	14.90	14.30	29.58	8.84	3.40	2.15	1.76	
19	3.70	3.95	3.00	2.85	4.10	21.80	13.82	29.58	8.49	3.25	2.10	1.72	
20	3.75	4.45	2.75	3.90	4.60	29.72	21.10	44.34	8.07	3.30	2.40	1.68	
21	6.06	7.16	2.70	4.40	4.95	25.40	37.53	56.60	7.44	3.25	2.40	1.68	
22	5.10	6.00	2.90	4.05	4.55	19.70	40.80	49.72	7.16	3.20	2.15	1.72	
23	7.23	4.65	2.95	3.40	3.55	17.60	50.36	43.04	6.88	3.05	2.05	1.76	
24	6.60	5.10	3.45	3.35	3.35	12.13	53.00	42.00	6.67	3.05	2.10	1.80	
25	6.36	4.55	4.75	3.05	3.30	10.66	52.20	49.08	6.42	3.75	2.15	1.84	
26	5.60	4.10	6.00	2.90	3.65	9.82	39.84	47.16	6.06	3.35	2.30	2.90	
27	6.06	3.90	6.30	2.75	4.70	9.05	33.39	41.28	5.85	3.20	2.45	2.50	
28	7.02	4.30	4.85	2.70	4.05	8.14	35.94	44.92	5.70	3.05	2.25	2.85	
29	13.46	3.80	3.80	2.65	3.35	9.05	40.80	40.80	5.55	2.90		3.50	
30	11.85	3.65	5.20	2.60	3.25	13.73	51.40	36.11	5.60	2.80		9.68	
31		3.60		2.65	3.75		51.80		5.30	2.75		7.23	
Total	176.02	171.92	105.25	141.04	136.36	357.40	1238.22	1471.21	467.35	116.05	67.35	79.78	4527.95 CMSDAY
Mean	5.87	5.55	3.51	4.55	4.40	11.91	39.94	49.04	15.08	3.74	2.41	2.57	12.41 CMS
Max	13.46	13.28	6.30	11.43	7.86	29.72	83.25	90.60	33.05	5.10	2.90	9.68	90.60 CMS
Min	3.70	3.60	2.50	2.60	3.10	3.70	13.82	29.58	5.30	2.75	2.05	1.68	1.68 CMS
Runoff	15.208	14.854	9.094	12.186	11.782	30.879	106.982	127.113	40.379	10.027	5.819	6.893	391.215 MCM

Momentary Peak 96.40 CMS, at 5.51 M (A.D), at 6.00 Hours, on Nov 2, 1994

Runoff Yield 12.63 Liters/Second/Square KM. Momentary Peak Yield 98.17 Liters/Second/Square KM

WATER YEAR 1994

SOUTHERN PENNINSULA EAST COAST

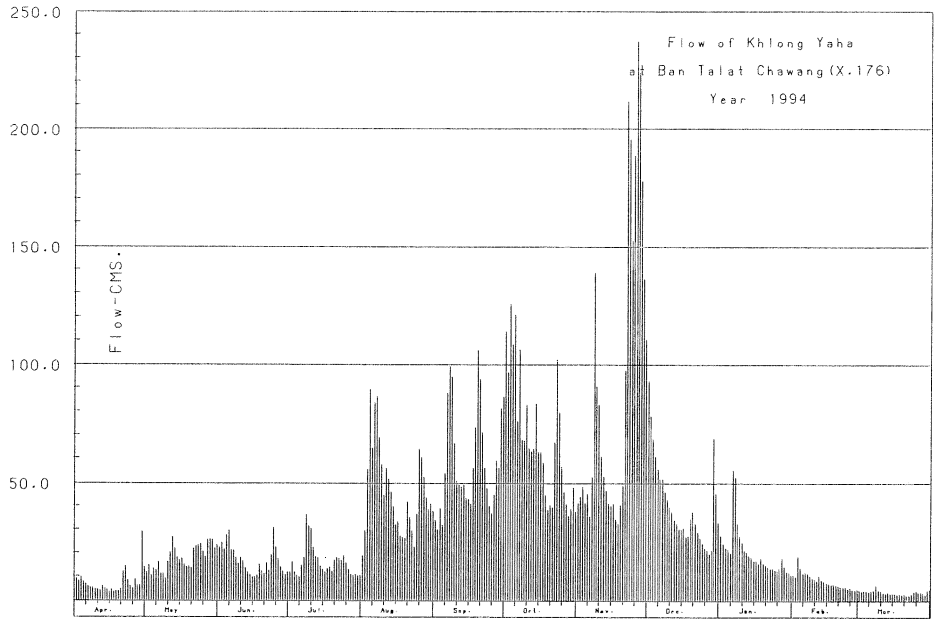
Tapi River at Chawang, Nakhon Si Thammarat (X.176)

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	5-time daily readings at 06.00, 09.00, 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	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 +4.01 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 48 discharge measurements made in 1994.

Gage Height in Meter (A.D), Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.18	1.25	1.53	1.25	1.45	1.78	2.90	1.91	2.65	1.64	1.21	1.01	
2	1.14	1.34	1.58	1.38	1.68	1.69	2.70	1.95	2.46	1.56	1.20	1.01	
3	1.19	1.22	1.52	1.26	2.14	1.87	3.03	2.02	2.32	1.53	1.44	1.00	
4	1.14	1.29	1.64	1.21	2.61	1.73	2.84	1.91	2.22	1.51	1.30	1.01	
5	1.10	1.28	1.69	1.20	2.27	2.11	2.98	1.97	2.14	1.48	1.24	1.00	
6	1.08	1.38	1.51	1.33	2.53	2.59	2.43	1.81	2.07	2.13	1.24	1.00	
7	1.06	1.24	1.51	1.43	2.57	2.73	2.81	2.09	2.07	2.09	1.24	1.02	
8	1.05	1.23	1.42	1.82	2.33	2.67	2.32	3.18	1.99	1.75	1.20	1.08	
9	1.04	1.18	1.36	1.73	2.17	2.30	2.31	2.63	1.93	1.63	1.18	1.02	
10	1.02	1.37	1.42	1.70	1.96	2.06	2.52	2.52	1.88	1.57	1.16	1.00	
11	1.02	1.48	1.38	1.53	2.14	2.04	2.27	2.22	1.84	1.51	1.15	0.98	
12	1.07	1.63	1.31	1.44	2.07	2.02	2.25	2.09	1.78	1.48	1.20	0.97	
13	1.05	1.52	1.25	1.42	1.99	2.04	2.26	2.00	1.74	1.45	1.16	0.97	
14	1.02	1.43	1.23	1.33	1.88	1.94	2.53	1.90	1.70	1.42	1.13	0.96	
15	1.00	1.39	1.20	1.29	1.74	1.94	2.24	1.89	1.69	1.39	1.12	0.95	
16	1.02	1.42	1.19	1.25	1.76	1.90	2.24	1.90	1.71	1.38	1.10	0.95	
17	1.00	1.34	1.22	1.30	1.64	2.15	2.18	1.78	1.63	1.36	1.10	0.95	
18	1.00	1.32	1.34	1.31	1.62	2.39	1.96	1.75	1.63	1.41	1.09	0.94	
19	1.01	1.32	1.26	1.27	1.62	2.81	1.86	1.89	1.79	1.36	1.09	0.94	
20	1.03	1.31	1.23	1.39	1.92	2.66	1.89	2.03	1.84	1.33	1.07	0.94	
21	1.27	1.52	1.37	1.43	1.80	2.36	1.88	2.71	1.74	1.32	1.06	0.93	
22	1.32	1.55	1.28	1.41	1.68	2.15	2.30	3.90	1.67	1.30	1.06	0.93	
23	1.16	1.55	1.46	1.40	1.54	2.01	2.76	3.75	1.61	1.29	1.05	0.94	
24	1.07	1.57	1.71	1.44	1.83	1.89	2.48	3.32	1.57	1.28	1.04	1.00	
25	1.05	1.50	1.54	1.36	2.26	1.83	2.15	3.68	1.52	1.26	1.04	1.00	
26	1.17	1.43	1.41	1.29	2.21	1.97	1.99	4.13	1.50	1.29	1.03	0.99	
27	1.08	1.60	1.32	1.23	2.09	2.19	1.90	4.01	1.47	1.42	1.02	0.99	
28	1.08	1.61	1.26	1.21	1.95	2.15	1.81	3.58	1.51	1.31	1.02	0.96	
29	1.68	1.60	1.23	1.23	1.86	2.50	1.86	3.15	2.33	1.26		0.94	
30	1.31	1.53	1.25	1.20	1.90	2.57	2.02	2.86	1.97	1.24		1.01	
31		1.55		1.21	1.85		1.84		1.75	1.22		1.03	
Mean	1.11	1.42	1.39	1.36	1.97	2.17	2.31	2.55	1.86	1.46	1.14	0.98	
Max	1.68	1.63	1.71	1.82	2.61	2.81	3.03	4.13	2.65	2.13	1.44	1.08	4.13
Min	1.00	1.18	1.19	1.20	1.45	1.69	1.81	1.75	1.47	1.22	1.02	0.93	0.93

Annual Max Momentary Gage Height 4.29 M (A.D), at 18.00 Hours, on Nov 26, 1994
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.14 M (A.D)
Left Bank Elevation 4.12 M (A.D)
Right Bank Elevation 4.00 M (A.D), Drainage Area 684 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.64	12.05	22.52	12.05	19.25	34.35	114.00	41.60	93.00	27.73	10.65	4.30	
2	8.32	15.24	24.89	16.68	29.62	30.09	97.00	44.00	78.44	23.94	10.30	4.30	
3	9.97	11.00	22.05	12.40	55.98	39.29	125.70	48.26	68.40	22.52	18.88	4.00	
4	8.32	13.45	27.73	10.65	89.80	31.99	108.84	41.60	61.40	21.57	13.80	4.30	
5	7.00	13.10	30.09	10.30	64.90	53.97	121.20	45.20	55.98	20.36	11.70	4.00	
6	6.40	16.68	21.57	14.88	83.68	88.24	76.22	35.87	51.41	55.31	11.70	4.00	
7	5.80	11.70	21.57	18.51	86.72	99.52	106.26	52.67	51.41	52.67	11.70	4.60	
8	5.50	11.35	18.14	36.44	69.10	94.60	68.40	139.20	46.40	32.93	10.30	6.40	
9	5.20	9.64	15.96	31.99	57.99	67.00	67.70	91.40	42.80	27.25	9.64	4.60	
10	4.60	16.32	18.14	30.57	44.60	50.78	82.92	82.92	39.86	24.41	8.98	4.00	
11	4.60	20.36	16.68	22.52	55.98	49.52	64.90	61.40	37.58	21.57	8.65	3.56	
12	6.10	27.25	14.16	18.88	51.41	48.26	63.50	52.67	34.35	20.36	10.30	3.34	
13	5.50	22.05	12.05	18.14	46.40	49.52	64.20	47.00	32.46	19.25	8.98	3.34	
14	4.60	18.51	11.35	14.88	39.86	43.40	83.68	41.00	30.57	18.14	7.99	3.12	
15	4.00	17.04	10.30	13.45	32.46	43.40	62.80	40.43	30.09	17.04	7.66	2.90	
16	4.60	18.14	9.97	12.05	33.41	41.00	62.80	41.00	31.04	16.68	7.00	2.90	
17	4.00	15.24	11.00	13.80	27.73	56.65	58.66	34.35	27.25	15.96	7.00	2.90	
18	4.00	14.52	15.24	14.16	26.78	73.30	44.60	32.93	27.25	17.77	6.70	2.68	
19	4.30	14.52	12.40	12.75	26.78	106.26	38.72	40.43	34.83	15.96	6.70	2.68	
20	4.90	14.16	11.35	17.04	42.20	93.80	40.43	48.89	37.58	14.88	6.10	2.68	
21	12.75	22.05	16.32	18.51	35.30	71.20	39.86	97.84	32.46	14.52	5.80	2.46	
22	14.52	23.47	13.10	17.77	29.62	56.65	67.00	211.50	29.15	13.80	5.80	2.46	
23	8.98	23.47	19.62	17.40	22.99	47.63	102.04	195.75	26.31	13.45	5.50	2.68	
24	6.10	24.41	31.04	18.88	37.01	40.43	79.92	152.32	24.41	13.10	5.20	4.00	
25	5.50	21.10	22.99	15.96	64.20	37.01	56.65	188.40	22.05	12.40	5.20	4.00	
26	9.31	18.51	17.77	13.45	60.70	45.20	46.40	237.45	21.10	13.45	4.90	3.78	
27	6.40	25.83	14.52	11.35	52.67	59.33	41.00	223.65	19.99	18.14	4.60	3.78	
28	6.40	26.31	12.40	10.65	44.00	56.65	35.87	178.00	21.57	14.16	4.60	3.12	
29	29.62	25.83	11.35	11.35	38.72	81.40	38.72	136.50	69.10	12.40		2.68	
30	14.16	22.52	12.05	10.30	41.00	86.72	48.26	110.56	45.20	11.70		4.30	
31		23.47		10.65	38.15		37.58		32.93	11.00		4.90	
Total	231.09	569.29	518.32	508.41	1449.01	1777.16	2145.83	2794.79	1256.37	634.42	236.33	112.76	12233.78 CMSDAY
Mean	7.70	18.36	17.28	16.40	46.74	59.24	69.22	93.16	40.53	20.47	8.44	3.64	33.52 CMS
Max	29.62	27.25	31.04	36.44	89.80	106.26	125.70	237.45	93.00	55.31	18.88	6.40	237.45 CMS
Min	4.00	9.64	9.97	10.30	19.25	30.09	35.87	32.93	19.99	11.00	4.60	2.46	2.46 CMS
Runoff	19.966	49.187	44.783	43.927	125.194	153.547	185.400	241.470	108.550	54.814	20.419	9.742	1056.999 MCM

Momentary Peak 256.30 CMS, at 4.29 M (A.D), at 18.00 Hours, on Nov 26, 1994
Runoff Yield 49.00 Liters/Second/Square KM, Momentary Peak Yield 374.71 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. Khlong Khlung at Ban Pang Wai, Kamphaeng Phet (P.35)
5. Ping River at Ban Pong Nam Ron, Kamphaeng Phet (P.47)
6. Mae Taeng River at Ban Muang Pog, Chiantg Mai (P.65)
7. Wang River at Setu Wari Bridge, Lampang (W.1C)
8. Wang River at Ban Wang Man, Tak (W.4A)
9. Nan River at Muang, Phitsanulok (N.5A)
10. Nan River at Ban Bun Nak, Nan (N.13A)
11. Nam Mae Ing at Ban Nam Ing, Chiang Rai (I.14)
12. Pasak River at Ban Muang Nua, Saraburi (S.9)
13. Pasak River at Ban Pang Hu Sua, Lop Buri (S.31)
14. Chi River at Ban Nong O, Chaiyaphum (E.32A)
15. Mun River at Seri Prachathipatai Bridge, Ubon Ratchaburi (M.7)
16. Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80)
17. Khlong Samo Pun at Haew Narok, Prachin Buri (Ny.4)
18. Khlong Phra Prong at Ban Kaeng, Sa Kaeo (Kgt.12)
19. Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt.18)
20. Khlong Luang at Ban Mai, Chon Buri (Kgt.19)
21. Chanthaburi River at Ban Puk, Chanthaburi (Z.13)
22. Khlong Phayat at Ban Chaman, Chanthaburi (Z.14)
23. Khlong Yai at Ban Pak Phraek, Rayong (Z.15)
24. Khlong Hin Dat at Ban Rong Sen, Chanthaburi (Z.21)
25. Huai Tha Khoei at Ban Kha, Ratchaburi (K.25A)
26. Huai Phak at Ban Kariang, Phetchaburi (B.8)
27. Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)
28. Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan (Gt.9)
29. Khlong Cha Kra at Ban Cha Kra Bon, Prachuap Khiri Khan (Gt.18)

30. Khlong Phum Duang at Khiri Ratthanikhom, Surat Thani (X.36)
31. Tapi River at Phrasaeng, Surat Thani (X.37A)
32. Khlong Tha Di at Ban Pak Prik, Nakhon Si Thammarat (X.55)
33. Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)
34. Khlong U Taphao at Ban Bang Sala, Songkhla (X.90)
35. Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103)
36. Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104)
37. Khlong Sadao at Ban Phrai, Songkhla (X.111)
38. Khlong Lam at Ban Thung Prap(1), Songkhla (X.113)
39. Khlong Palian at Ban Lam Khlaeng (2), Trang (X.139)
40. Khlong Chandi at Ban Chandi Nua, Nakhon Si Thammarat (X.163)

WATER YEAR 1994

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	1994
Remarks	Continued Sediment Station Using Rating Curve Water Year 1994

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LQS/LQSO2D/12

Station - Nawarat Bridge, Muang, Chiang Mai, (P.1)
Stream - Ping
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division 290494
1.62023
QS = 0.9127 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	274.1	33.0	659.4	630.5	2703.8	20558.2	3169.0	810.8	873.4	327.1	76.9	26.1	
2	174.1	29.5	449.3	1037.4	7152.7	21178.9	2703.8	780.2	905.3	308.2	61.9	40.6	
3	129.2	40.6	427.9	1037.4	8128.7	15865.3	2462.1	780.2	905.3	327.1	57.4	44.6	
4	101.8	44.6	427.9	630.5	5780.1	11774.2	2422.7	718.8	970.5	274.1	53.0	36.7	
5	69.3	44.6	386.4	366.2	3880.5	8595.2	2501.8	718.8	810.8	258.8	53.0	29.5	
6	53.0	40.6	546.6	274.1	2744.9	7823.3	2703.8	688.9	749.3	229.2	53.0	33.0	
7	53.0	29.5	841.9	258.8	2383.5	7152.7	2662.9	630.5	841.9	214.9	48.7	40.6	
8	44.6	29.5	937.7	289.8	2116.1	6164.6	2305.9	688.9	873.4	214.9	48.7	36.7	
9	40.6	36.7	718.8	366.2	2078.9	6035.4	2041.9	718.8	780.2	214.9	48.7	44.6	
10	33.0	69.3	718.8	366.2	1755.6	4294.2	2153.5	749.3	718.8	200.9	53.0	48.7	
11	26.1	101.8	688.9	346.4	1446.2	3679.8	2116.1	718.8	718.8	200.9	36.7	44.6	
12	22.9	138.9	659.4	274.1	1003.7	4920.6	1896.7	718.8	630.5	200.9	29.5	40.6	
13	20.1	148.8	810.8	214.9	749.3	8991.4	1790.5	688.9	574.0	174.1	29.5	36.7	
14	21.5	138.9	688.9	161.3	546.6	8832.1	1618.7	688.9	546.6	138.9	26.1	33.0	
15	26.1	119.8	659.4	187.3	749.3	12531.1	1486.1	780.2	519.6	138.9	22.9	33.0	
16	29.5	129.2	519.6	243.8	2422.7	19701.3	1290.7	873.4	493.2	129.2	26.1	29.5	
17	33.0	214.9	406.9	229.2	4137.2	18501.5	1215.5	780.2	471.1	110.6	29.5	29.5	
18	44.6	229.2	327.1	200.9	4626.5	17808.5	1968.8	659.4	519.6	110.6	33.0	29.5	
19	44.6	187.3	274.1	229.2	5529.2	14618.2	2229.2	659.4	493.2	119.8	29.5	26.1	
20	48.7	101.8	214.9	274.1	7975.5	11073.4	1755.6	688.9	493.2	110.6	26.1	26.1	
21	69.3	110.6	161.3	327.1	18029.6	9639.6	2041.9	602.0	449.3	110.6	26.1	22.9	
22	61.9	274.1	129.2	274.1	22186.5	6364.7	2229.2	602.0	406.9	110.6	21.5	22.9	
23	53.0	274.1	110.6	229.2	14720.6	5100.3	1652.5	718.8	406.9	101.8	22.9	22.9	
24	36.7	274.1	110.6	200.9	9232.5	4033.8	1367.6	718.8	386.4	101.8	29.5	26.1	
25	21.5	214.9	161.3	187.3	9071.5	4347.1	1178.6	718.8	366.2	93.2	29.5	26.1	
26	20.1	148.8	327.1	174.1	12627.7	4189.3	1037.4	749.3	366.2	93.2	33.0	26.1	
27	18.8	101.8	327.1	200.9	13609.0	3345.2	970.5	873.4	366.2	84.9	29.5	26.1	
28	33.0	110.6	229.2	346.4	13808.6	3082.4	937.7	1037.4	327.1	93.2	33.0	29.5	
29	29.5	200.9	200.9	1618.7	11957.6	3434.6	1037.4	1037.4	327.1	84.9		40.6	
30	36.7	386.4	274.1	2191.2	10389.2	3389.7	1037.4	970.5	346.4	84.9		48.7	
31		602.0		1446.2	12147.6		937.7		327.1	84.9		44.6	
Total	1670.3	4606.8	13396.1	14814.4	215691.4	277026.6	56923.2	22570.5	17964.5	5048.6	1068.2	1046.2	631826.8 Ton
Mean	55.7	148.6	446.5	477.9	6957.8	9234.2	1836.2	752.4	579.5	162.9	38.2	33.7	
Max	274.1	602.0	937.7	2191.2	22186.5	21178.9	3169.0	1037.4	970.5	327.1	76.9	48.7	22186.5
Min	18.8	29.5	110.6	161.3	546.6	3082.4	937.7	602.0	327.1	84.9	21.5	22.9	18.8

WATER YEAR 1994

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 1994

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LQS/LQSO2D/12

Station - Ban Tha Khae, Muang, Tak, (P.2A)
Stream - Ping
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division
1.42905
QS = 0.8326 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1438.8	737.9	1091.4	543.9	444.4	3459.1	2682.5	2115.9	2682.5	597.1	509.2	4262.7	
2	179.8	136.7	2075.9	597.1	509.2	4023.7	1541.3	1841.0	2368.2	597.1	1614.7	3567.0	
3	123.2	128.5	2196.5	878.5	1689.2	4592.6	1469.0	1204.0	2732.4	597.1	1918.3	2986.0	
4	117.9	1204.0	2682.5	1290.5	1319.8	4202.6	3089.3	878.5	2036.2	92.5	2115.9	3512.9	
5	69.9	1349.2	1261.5	3089.3	2196.5	4262.7	3788.8	982.2	1577.9	1841.0	1091.4	2156.1	
6	107.5	162.1	1119.3	2075.9	2196.5	5717.6	2501.4	633.4	1879.5	1204.0	325.9	1036.4	
7	97.4	615.2	1879.5	1063.8	1841.0	6413.4	2883.7	413.4	3246.2	1147.3	1651.8	3730.7	
8	107.5	170.9	2237.1	807.3	1841.0	6178.8	2036.2	1541.3	2324.2	692.6	1577.9	3405.5	
9	117.9	162.1	2075.9	783.9	1957.4	5501.1	1261.5	878.5	2501.4	162.1	2237.1	3246.2	
10	107.5	170.9	1614.7	543.9	1996.7	3193.7	878.5	1319.8	2782.5	1232.6	2156.1	3352.1	
11	97.4	854.6	1036.4	476.1	1918.3	2368.2	2036.2	615.2	1957.4	1541.3	2368.2	3675.9	
12	92.5	509.2	929.0	492.2	2324.2	1879.5	1957.4	2546.3	955.5	1541.3	2196.5	2546.3	
13	112.6	1438.8	878.5	526.5	1408.7	1802.7	1996.7	2412.3	1918.3	2368.2	251.6	1541.3	
14	112.6	2456.8	1469.0	715.1	1175.5	2196.5	2280.6	1378.9	2075.9	2237.1	2986.0	3512.9	
15	102.4	1378.9	878.5	807.3	783.9	1957.4	1918.3	2636.8	2833.0	807.3	2412.3	3567.0	
16	107.5	353.4	1879.5	878.5	955.5	2368.2	1802.7	2501.4	2986.0	353.4	2732.4	3459.1	
17	145.0	1541.3	902.7	760.8	692.6	2732.4	715.1	2732.4	2412.3	1614.7	3246.2	3621.3	
18	145.0	1651.8	1290.5	807.3	633.4	3405.5	2280.6	2636.8	1175.5	1505.0	3141.3	3405.5	
19	878.5	543.9	651.8	1349.2	597.1	4457.2	1879.5	2833.0	368.1	1505.0	2636.8	2368.2	
20	1204.0	413.4	597.1	783.9	783.9	4797.8	1802.7	1879.5	1204.0	1091.4	561.5	1349.2	
21	737.9	597.1	670.4	597.1	1408.7	2732.4	1764.6	1764.6	1879.5	1408.7	3352.1	3730.7	
22	1204.0	615.2	413.4	460.1	1614.7	8618.6	579.2	2237.1	878.5	1438.8	2986.0	4262.7	
23	1614.7	460.1	325.9	398.1	2412.3	10065.7	492.2	2732.4	1469.0	275.7	2324.2	2986.0	
24	170.9	597.1	288.0	353.4	1689.2	3788.8	509.2	2324.2	1091.4	1879.5	2456.8	3847.1	
25	92.5	715.1	854.6	288.0	1841.0	2412.3	476.1	2546.3	353.4	2115.9	3037.5	3621.3	
26	633.4	1261.5	275.7	325.9	2115.9	1726.7	413.4	2986.0	300.5	2115.9	1996.7	2934.7	
27	1469.0	2237.1	207.3	561.5	2324.2	1726.7	383.0	2036.2	1577.9	2156.1	353.4	1841.0	
28	1651.8	1918.3	1290.5	878.5	2324.2	1577.9	476.1	1651.8	670.4	2368.2	3675.9	3405.5	
29	1349.2	807.3	760.8	692.6	2501.4	2591.5	1614.7	2682.5	188.8	597.1		3621.3	
30	1319.8	633.4	670.4	509.2	2591.5	2324.2	1119.3	2833.0	670.4	179.8		3405.5	
31		1438.8		460.1	2833.0		398.1		597.1	902.7		3352.1	
Total	15708.1	27260.6	34504.3	24795.5	50920.9	113075.5	49027.9	57774.7	51693.9	38166.5	57913.7	97310.2	618151.8 Ton
Mean	523.6	879.4	1150.1	799.9	1642.6	3769.2	1581.5	1925.8	1667.5	1231.2	2068.3	3139.0	
Max	1651.8	2456.8	2682.5	3089.3	2833.0	10065.7	3788.8	2986.0	3246.2	2368.2	3675.9	4262.7	10065.7
Min	69.9	128.5	207.3	288.0	444.4	1577.9	383.0	413.4	188.8	92.5	251.6	1036.4	69.9

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 21-AUG-1996 11:30:50.47 LQS/LQSO2D/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
1.50566
QS = 4.0537 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.4	15.1	482.2	847.3	1627.0	8324.5	834.4	128.7	332.8	86.9	23.1	3.3	
2	35.2	35.2	464.1	758.9	10446.6	5135.4	638.6	117.8	455.2	86.9	5.5	3.3	
3	17.5	41.7	638.6	439.2	3432.3	4061.0	758.9	114.2	347.3	68.8	4.6	2.6	
4	15.1	39.0	783.8	198.6	1822.7	3246.2	860.1	114.2	332.8	19.0	4.6	2.2	
5	22.3	41.7	796.4	86.9	1094.8	2884.4	886.1	114.2	332.8	11.2	4.6	2.6	
6	12.9	43.0	860.1	71.5	650.3	2390.2	1006.1	110.6	332.8	9.3	3.8	2.6	
7	10.0	53.1	965.5	68.8	1309.4	1996.3	758.9	110.6	377.1	9.3	3.8	2.6	
8	11.0	82.5	685.9	110.6	1487.4	2175.2	615.3	110.6	311.3	9.3	3.8	2.6	
9	8.5	75.6	509.8	63.5	992.5	1908.9	615.3	132.4	272.3	9.3	3.3	2.6	
10	7.6	39.0	491.4	36.4	650.3	1822.7	783.8	152.4	247.6	9.3	3.0	2.6	
11	6.3	117.8	500.6	29.1	407.8	1794.3	650.3	152.4	253.7	14.1	3.0	2.6	
12	6.3	136.2	509.8	23.1	241.5	3432.3	447.1	156.7	311.3	15.1	3.0	2.2	
13	8.5	92.1	473.1	17.7	165.6	4481.2	392.3	148.1	284.9	9.3	2.6	2.2	
14	11.0	56.6	354.7	9.3	354.7	3292.4	332.8	165.6	284.9	14.1	2.6	2.2	
15	14.4	136.2	247.6	23.1	834.4	5284.0	284.9	174.6	284.9	12.1	2.6	2.2	
16	23.4	236.0	247.6	347.3	3736.2	7114.6	266.0	183.7	278.6	10.2	2.6	1.9	
17	27.9	537.9	236.0	247.6	3943.5	6905.6	266.0	203.8	278.6	9.3	1.8	1.8	
18	16.7	272.3	161.1	20.3	3432.3	5202.8	710.0	161.1	272.3	8.5	1.8	1.8	
19	8.1	117.8	143.8	10.2	3787.7	4002.1	431.2	156.7	272.3	50.9	1.8	1.8	
20	32.7	86.9	125.0	9.3	7646.1	3432.3	362.1	340.0	230.6	103.7	1.8	1.8	
21	33.9	74.3	26.0	7.6	15449.7	3018.4	821.7	369.6	188.3	103.7	1.8	1.8	
22	27.9	156.7	26.0	7.6	9588.3	2175.2	384.7	362.1	148.1	103.7	1.5	1.8	
23	26.7	297.7	26.0	7.6	5135.4	1737.9	266.0	354.7	148.1	114.2	1.5	1.7	
24	24.5	259.8	24.6	7.6	3532.7	1554.5	209.1	304.2	152.4	96.9	1.5	1.7	
25	23.4	161.1	36.4	2.6	3532.7	2145.0	174.6	332.8	156.7	77.4	1.5	1.7	
26	22.3	38.4	86.9	1.5	4299.4	1421.4	156.7	332.8	156.7	77.4	1.5	1.7	
27	19.1	86.9	183.7	21.7	4299.4	1127.0	148.1	407.8	183.7	74.3	2.2	1.7	
28	20.1	219.7	140.0	697.9	3839.4	952.1	148.1	407.8	143.8	71.5	3.3	1.7	
29	8.1	464.1	30.9	415.5	3736.2	1006.1	148.1	528.5	93.5	71.5		1.7	
30	11.5	809.0	128.7	473.1	3154.4	938.8	148.1	304.2	93.5	55.9		1.6	
31		1258.7		710.0	6291.3		148.1		86.9	55.9		1.6	
Total	564.3	6082.1	10386.3	5771.4	110922.0	94962.8	14653.5	6752.9	7645.8	1469.0	98.5	66.2	259374.8 Ton
Mean	18.8	196.2	346.2	186.2	3578.1	3165.4	472.7	225.1	246.6	47.4	3.5	2.1	
Max	51.4	1258.7	965.5	847.3	15449.7	8324.5	1006.1	528.5	455.2	114.2	23.1	3.3	15449.7
Min	6.3	15.1	24.6	1.5	165.6	938.8	148.1	110.6	86.9	8.5	1.5	1.6	1.5

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 21-AUG-1996 11:30:59.24 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
1.27805
QS = 4.0788 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.86	0.66	100.60	194.50	49.41	149.24	230.83	9.33	4.50	0.56	0.39	0.03	
2	12.22	0.62	167.03	149.24	52.48	415.30	219.23	8.34	4.50	0.52	0.39	0.03	
3	6.39	0.62	172.31	99.34	48.69	447.78	170.43	10.08	4.24	0.49	0.36	0.07	
4	4.50	0.77	248.92	71.39	41.91	352.41	138.15	9.02	4.08	0.49	0.33	0.03	
5	3.72	0.73	251.22	44.88	42.69	292.14	139.73	7.68	4.08	0.49	0.30	0.03	
6	3.07	0.69	219.23	27.41	26.78	217.25	154.05	6.73	3.31	0.46	0.30	0.03	
7	1.94	1.43	150.84	20.67	19.49	179.64	136.59	6.10	3.07	0.46	0.27	0.03	
8	1.60	2.12	94.36	19.12	12.55	126.49	108.20	5.48	2.68	0.49	0.27	0.03	
9	1.43	292.14	57.15	12.55	11.11	86.99	104.38	4.50	2.40	0.46	0.27	0.03	
10	1.26	257.88	42.69	9.02	7.68	86.99	85.77	3.97	2.12	0.46	0.27	0.03	
11	1.03	365.53	41.22	8.34	9.33	77.87	54.02	4.24	2.12	0.42	0.27	0.03	
12	0.95	397.85	39.76	9.02	11.50	181.42	41.22	3.97	1.94	0.39	0.27	0.03	
13	0.88	336.81	67.14	9.33	12.22	301.95	45.67	3.82	1.94	0.39	0.27	0.00	
14	0.88	230.83	64.00	8.04	8.04	215.40	76.78	3.72	1.68	0.39	0.27	0.00	
15	8.04	123.63	38.31	8.04	6.10	223.09	282.80	3.97	1.60	0.39	0.24	0.00	
16	28.04	73.54	24.91	7.02	5.76	248.92	276.00	3.82	1.51	0.36	0.22	0.00	
17	26.15	66.09	17.53	6.10	5.76	255.70	185.12	3.72	1.26	0.36	0.22	0.00	
18	6.39	41.91	13.29	12.22	5.48	188.84	120.79	3.46	1.11	0.33	0.16	0.00	
19	3.82	33.30	10.40	39.76	5.15	152.44	70.32	3.56	1.11	0.30	0.16	0.00	
20	2.40	31.90	7.02	108.20	4.50	129.36	57.15	3.21	1.03	0.27	0.16	0.00	
21	1.68	66.09	5.15	142.88	9.02	108.20	77.87	2.82	0.95	0.30	0.16	0.00	
22	1.43	205.81	6.10	113.76	16.75	257.88	78.96	3.07	0.95	0.30	0.11	0.00	
23	1.26	202.02	10.40	80.05	24.91	257.88	61.92	2.82	1.03	0.30	0.07	0.00	
24	1.11	175.97	50.94	51.75	21.86	269.24	49.41	2.82	0.77	0.27	0.07	0.00	
25	0.95	123.63	108.20	21.86	16.33	177.74	41.91	2.68	0.77	0.27	0.07	0.00	
26	0.84	100.60	38.31	15.55	19.49	135.13	29.96	2.49	0.73	0.24	0.07	0.00	
27	0.77	68.20	20.08	14.79	54.76	136.59	21.26	2.49	0.66	0.24	0.03	0.00	
28	0.73	46.38	48.69	12.55	141.30	135.13	16.75	2.40	0.66	0.36	0.03	0.27	
29	0.73	39.76	84.56	24.91	160.51	135.13	11.83	2.40	0.62	0.42		0.30	
30	0.69	56.41	165.40	36.12	104.38	174.08	13.29	2.40	0.62	0.42		0.27	
31		108.20		41.22	77.87		11.83		0.59	0.42		0.24	
Total	146.76	3452.12	2365.76	1419.63	1033.81	6116.22	3112.22	135.11	58.63	12.02	6.00	1.48	17859.76 Ton
Mean	4.89	111.36	78.86	45.79	33.35	203.87	100.39	4.50	1.89	0.39	0.21	0.05	
Max	28.04	397.85	251.22	194.50	160.51	447.78	282.80	10.08	4.50	0.56	0.39	0.30	447.78
Min	0.69	0.62	5.15	6.10	4.50	77.87	11.83	2.40	0.59	0.24	0.03	0.00	0.00

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:08:48.03 LQS/LQSO2D/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
1.28279
QS = 1.0751 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.16	0.62	9.35	22.49	37.83	72.11	28.58	8.04	4.59	2.29	1.48	0.74	
2	1.48	1.21	12.95	19.30	34.83	70.75	20.35	7.72	4.03	2.29	1.48	0.68	
3	2.29	1.30	18.78	21.41	27.45	74.84	16.61	7.40	3.84	2.16	1.48	0.68	
4	1.90	1.13	17.91	12.95	24.12	65.39	14.50	6.86	3.66	2.16	1.39	0.68	
5	1.30	1.13	52.82	9.35	20.88	40.88	13.33	6.59	3.48	2.03	1.39	0.68	
6	1.21	0.81	20.88	8.04	18.34	29.15	12.57	6.32	3.48	2.03	1.39	0.68	
7	1.05	0.74	13.72	8.37	17.47	23.03	12.19	6.06	3.48	2.03	1.30	0.68	
8	0.97	29.15	10.36	6.59	16.18	21.41	13.72	6.06	3.30	2.03	1.30	0.68	
9	0.89	13.33	8.69	7.72	16.18	19.83	11.82	5.80	3.30	1.90	1.30	0.74	
10	0.81	9.35	14.11	6.59	18.78	17.47	9.69	5.54	3.13	1.90	1.30	0.68	
11	0.74	27.45	11.82	12.57	17.04	16.18	10.02	5.54	3.13	1.78	1.21	0.81	
12	0.74	22.49	14.50	14.50	14.50	30.44	10.71	5.28	2.96	1.78	1.13	0.81	
13	0.74	12.57	10.36	13.33	12.57	25.77	9.35	5.28	2.96	1.78	1.13	0.74	
14	0.74	7.40	7.72	13.33	10.71	31.16	14.50	5.03	2.96	1.66	1.13	0.68	
15	1.39	5.28	6.59	11.44	12.57	38.58	36.32	4.78	2.82	1.66	1.13	0.68	
16	2.55	3.66	6.32	14.11	12.95	29.72	18.78	4.40	2.82	1.66	1.13	0.62	
17	1.66	2.96	6.06	16.18	12.95	25.22	14.92	4.21	2.82	1.66	1.05	0.62	
18	2.16	2.68	5.03	26.33	15.34	20.35	19.83	4.21	2.82	1.66	0.97	0.56	
19	1.78	6.06	5.28	204.62	12.95	17.04	14.11	4.21	2.82	1.66	0.97	0.56	
20	1.30	4.21	4.59	79.51	14.11	15.34	13.33	4.21	2.82	1.48	0.97	0.56	
21	1.05	9.35	4.40	42.42	13.33	13.72	59.88	4.03	2.68	1.48	0.89	0.62	
22	0.97	6.06	4.03	28.01	11.44	20.88	28.58	4.03	2.68	1.48	0.89	0.62	
23	0.89	4.59	4.03	21.95	10.36	15.76	20.35	4.03	2.68	1.48	0.89	0.74	
24	0.89	5.80	4.40	17.47	10.02	18.34	17.04	3.84	2.55	1.39	0.81	0.74	
25	0.74	8.37	4.78	16.61	11.82	24.12	14.11	3.84	2.55	1.39	0.81	0.68	
26	0.68	6.32	6.32	16.18	12.95	18.78	12.57	3.84	2.55	1.39	0.81	0.68	
27	0.68	4.40	4.40	13.72	14.50	20.88	11.44	4.59	2.55	1.56	0.81	0.68	
28	0.68	4.78	4.21	16.61	13.72	18.34	10.02	6.86	2.42	1.48	0.74	0.62	
29	0.62	10.71	7.40	36.32	13.72	17.91	9.35	4.78	2.42	1.66		0.62	
30	0.62	11.82	7.13	33.35	14.11	19.83	9.02	5.03	2.42	2.16		0.62	
31		8.37		32.62	14.11		8.37		2.42	1.78		0.62	
Total	35.68	234.10	308.94	803.99	507.83	873.22	515.96	158.41	93.14	54.85	31.28	20.80	3638.20 Ton
Mean	1.19	7.55	10.30	25.94	16.38	29.11	16.64	5.28	3.00	1.77	1.12	0.67	
Max	2.55	29.15	52.82	204.62	37.83	74.84	59.88	8.04	4.59	2.29	1.48	0.81	204.62
Min	0.62	0.62	4.03	6.59	10.02	13.72	8.37	3.84	2.42	1.39	0.74	0.56	0.56

WATER YEAR 1994

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 1992 - 1994

RID Computer Center, Processing : 16-AUG-1996 14:16:59.63

LQS/LQSO2D/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

1.68449
QS = 2.8426 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.75	1.20	14.87	27.42	199.93	1390.52	96.40	20.27	22.22	2.08	1.56	1.38	
2	1.63	0.94	28.51	24.25	242.31	897.04	93.41	19.32	6.27	2.16	1.63	1.38	
3	1.48	0.94	36.62	19.32	432.98	604.95	124.98	20.27	5.13	2.16	1.56	1.38	
4	1.48	0.94	22.22	18.40	177.55	518.83	148.05	18.40	4.77	2.16	1.56	1.38	
5	1.48	0.94	27.42	21.24	90.46	382.56	118.37	16.59	4.42	2.08	1.48	1.38	
6	1.38	0.88	219.44	21.24	93.41	360.71	111.90	14.03	4.08	2.16	1.48	1.31	
7	1.38	1.63	64.14	68.27	382.56	332.39	96.40	14.03	3.76	2.16	1.56	1.31	
8	1.38	1.10	29.62	31.88	128.34	285.13	128.34	13.22	3.76	2.16	1.56	1.31	
9	1.31	1.31	18.40	41.62	84.67	242.31	248.17	11.73	3.76	2.16	1.63	1.20	
10	1.31	2.16	22.22	27.42	60.12	209.18	136.09	10.40	3.44	2.16	1.56	1.31	
11	1.31	2.29	24.25	24.25	46.88	332.39	96.40	11.73	3.44	2.16	1.48	1.31	
12	1.31	5.50	17.48	21.24	39.93	682.99	87.55	7.37	3.44	1.87	1.38	1.20	
13	1.48	5.88	10.40	20.27	31.88	555.08	68.27	5.50	3.44	1.87	1.38	1.31	
14	1.63	2.08	10.40	19.32	136.09	382.56	62.12	4.77	3.44	2.08	1.38	1.31	
15	5.13	1.63	10.40	17.48	914.48	750.93	56.20	4.77	3.44	2.08	1.48	1.31	
16	1.87	8.53	9.76	19.32	542.88	567.38	52.39	4.42	3.44	2.16	1.56	1.31	
17	1.63	2.38	6.81	19.32	1700.98	555.08	99.42	5.50	3.14	2.16	1.56	1.38	
18	1.56	1.63	6.81	19.32	555.08	412.51	68.27	5.50	2.84	2.08	1.56	1.38	
19	1.56	1.04	6.27	17.48	914.48	339.39	48.69	5.13	2.84	2.08	1.63	1.38	
20	1.56	1.56	4.42	15.72	2637.36	242.31	50.53	5.13	2.84	1.95	1.63	1.38	
21	1.38	1.56	6.27	17.48	1635.85	199.93	45.10	5.13	2.84	1.87	1.56	1.31	
22	1.31	84.67	2.38	7.37	604.95	173.20	38.26	5.13	2.75	1.75	1.48	1.20	
23	1.38	12.42	6.27	12.42	507.75	148.05	31.88	5.13	2.75	1.75	1.48	1.31	
24	1.31	5.88	7.37	11.06	389.96	152.13	26.34	4.77	2.61	1.75	1.56	1.20	
25	1.04	2.75	8.53	9.76	617.69	140.03	25.29	4.77	2.61	1.75	1.56	1.20	
26	0.74	2.52	12.42	10.40	464.43	118.37	24.25	5.13	2.61	1.75	1.56	1.20	
27	0.74	3.44	6.81	11.73	453.85	173.20	23.23	6.27	2.38	1.75	1.48	1.20	
28	0.74	25.29	9.76	164.64	453.85	144.02	22.22	19.32	2.29	1.75	1.48	1.20	
29	0.83	16.59	17.48	43.35	360.71	132.19	21.24	5.88	2.29	1.63		1.31	
30	0.83	58.14	33.43	28.51	1604.30	108.73	22.22	5.13	2.16	1.75		1.31	
31		14.03		26.34	2195.32		21.24		2.29	1.75		1.31	
Total	43.92	271.85	701.18	837.84	18701.03	11534.09	2293.22	284.74	121.49	61.18	42.78	40.36	34933.68 Ton
Mean	1.46	8.77	23.37	27.03	603.26	384.47	73.97	9.49	3.92	1.97	1.53	1.30	
Max	5.13	84.67	219.44	164.64	2637.36	1390.52	248.17	20.27	22.22	2.16	1.63	1.38	2637.36
Min	0.74	0.88	2.38	7.37	31.88	108.73	21.24	4.42	2.16	1.63	1.38	1.20	0.74

WATER YEAR 1994

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1994
Actual Measurement	1994
Remarks	Continued Sediment Station Using Rating Curve Water Year 1994

RID Computer Center, Processing : 16-AUG-1996 14:19:53.22

LQS/LQS02D/12

Station - Setuwaree Bridge, Muang, Lampang, (W.1C)
Stream - Wang
River - Wang
River System - Wang River

Royal Irrigation Department
Thailand
Hydrology Division
1.27250
QS = 3.1478 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.34	5.05	114.08	507.64	1014.32	2901.14	1438.38	63.95	184.39	9.29	5.27	6.18	
2	7.12	4.40	175.81	458.21	2008.00	3471.26	1268.17	61.82	70.43	9.29	4.40	5.27	
3	6.42	5.72	222.52	400.83	1160.64	2088.19	1146.45	57.61	43.61	9.29	4.83	4.83	
4	6.42	5.05	341.44	370.66	1002.60	1276.86	451.24	55.53	39.84	8.44	4.83	5.27	
5	5.72	4.40	376.56	313.07	1329.27	2201.57	255.93	57.61	37.99	10.15	4.83	5.72	
6	4.40	2.68	388.43	353.07	1316.13	1618.36	255.93	45.51	55.53	13.77	4.40	5.72	
7	4.40	2.45	413.31	341.44	1462.22	172.03	154.77	66.09	92.94	11.04	4.40	7.12	
8	4.40	2.91	465.20	538.04	1276.86	88.82	114.52	114.52	118.42	10.15	4.83	9.29	
9	4.40	9.34	458.21	837.81	948.56	77.52	343.52	53.46	126.32	10.15	5.72	9.29	
10	4.40	16.64	444.87	1073.31	458.21	198.87	507.64	126.32	92.94	12.85	6.65	8.44	
11	5.05	21.95	486.32	979.27	259.94	769.56	296.12	118.42	61.82	12.85	12.85	8.44	
12	5.05	29.48	724.33	628.71	187.27	2040.00	167.33	130.30	57.61	10.15	15.67	8.44	
13	5.05	25.65	847.76	432.18	164.52	3160.13	154.77	154.77	55.53	9.29	14.72	7.12	
14	6.42	13.28	620.26	382.49	172.03	6861.78	566.02	146.51	43.61	10.15	11.93	5.72	
15	14.94	10.10	394.62	280.00	226.51	4411.69	514.78	154.77	30.78	8.44	6.65	4.40	
16	14.11	18.37	235.96	226.51	546.13	6708.40	198.87	158.93	34.34	8.44	5.27	3.97	
17	14.11	14.11	175.81	198.87	1049.63	7967.40	130.30	154.77	39.84	5.72	4.40	3.55	
18	12.47	13.28	172.03	168.26	1186.26	6885.69	122.36	154.77	49.38	5.27	3.55	4.40	
19	11.67	29.48	202.77	157.08	1135.13	6268.06	96.26	150.63	51.41	3.55	3.55	5.27	
20	10.10	15.78	183.43	138.81	1263.83	2572.69	96.26	130.30	53.46	3.55	3.15	6.18	
21	5.72	13.28	172.03	128.09	1896.89	536.36	142.42	110.64	34.34	3.97	3.15	6.65	
22	5.05	17.50	179.61	103.82	2785.01	343.52	102.97	130.30	22.07	4.83	3.55	7.60	
23	4.40	18.37	172.03	86.53	2831.34	708.96	106.79	208.66	19.31	5.27	5.72	8.44	
24	3.76	12.47	206.69	79.75	2831.34	968.32	118.42	208.66	17.96	5.27	7.12	15.67	
25	4.40	9.34	198.87	77.52	2306.33	1023.29	296.12	106.79	17.96	6.18	8.44	106.79	
26	3.76	7.12	206.69	77.52	1648.16	700.03	301.96	59.71	16.64	7.12	11.04	114.52	
27	4.40	10.88	198.87	77.52	2201.57	691.12	130.30	53.46	11.93	8.44	11.93	114.52	
28	5.05	18.37	183.43	168.26	2808.16	818.00	76.72	51.41	9.29	7.60	9.29	34.34	
29	3.76	240.72	318.66	135.21	2692.85	1067.73	70.43	198.87	9.29	8.44		6.65	
30	5.72	168.26	493.40	103.82	2578.59	1365.19	66.09	290.30	9.29	8.44		5.27	
31		73.09		96.26	2647.02		66.09		10.15	7.12		4.40	
Total	202.01	839.52	9774.00	9920.56	45395.32	69962.53	9757.93	3575.39	1518.42	254.51	192.14	549.47	151941.83 Ton
Mean	6.73	27.08	325.80	320.02	1464.37	2332.08	314.77	119.18	48.98	8.21	6.86	17.72	
Max	14.94	240.72	847.76	1073.31	2831.34	7967.40	1438.38	290.30	184.39	13.77	15.67	114.52	7967.40
Min	3.76	2.45	114.08	77.52	164.52	77.52	66.09	45.51	9.29	3.55	3.15	3.55	2.45

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:09:16.47 LQS/LQSO2D/12

Station - Ban Wang Man, Sam Ngao, Tak, (W.4A)
Stream - Wang
River - Wang
River System - Wang River

Royal Irrigation Department
Thailand
Hydrology Division
1.26205
QS = 2.4034 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.36	4.01	2158.20	527.95	146.04	2524.00	1094.92	176.55	80.78	42.39	29.28	12.96	
2	37.93	3.67	2094.91	1210.75	156.80	2513.08	1456.23	163.33	87.12	41.63	31.60	14.92	
3	42.84	3.67	1611.61	1819.28	158.97	2524.00	1531.19	154.64	127.10	41.19	30.05	16.27	
4	40.37	3.51	1204.13	1836.12	817.63	2524.00	1456.23	150.33	137.56	41.19	30.05	18.32	
5	37.13	3.19	1088.97	1508.62	2200.61	2513.08	1330.63	148.18	104.72	41.19	30.05	19.02	
6	30.05	3.84	1053.46	1125.28	2253.87	2469.47	1138.34	143.91	84.57	40.80	27.01	19.72	
7	27.76	8.62	1197.52	812.03	2024.64	2371.94	868.32	139.67	75.78	40.80	25.51	18.32	
8	22.58	13.61	1265.10	595.72	2105.43	2318.12	733.09	127.10	73.30	41.19	24.77	16.95	
9	18.32	19.72	1158.00	482.37	1878.35	2105.43	643.27	116.82	69.62	41.19	24.04	14.92	
10	14.26	34.73	948.40	519.60	1810.88	1743.92	600.01	108.73	72.07	41.63	21.86	13.61	
11	11.68	46.62	840.08	544.73	1603.41	1286.87	527.95	102.74	79.52	42.39	21.14	12.96	
12	10.43	133.35	845.71	625.89	1562.55	1463.69	540.52	106.72	82.04	43.28	20.43	12.96	
13	8.62	248.38	728.12	778.64	1041.67	1286.87	582.88	98.78	83.30	44.11	20.43	13.61	
14	6.32	276.51	638.91	931.12	773.11	1628.03	527.95	96.17	75.78	43.66	20.43	14.26	
15	5.76	301.52	600.01	840.08	582.88	2105.43	437.67	90.98	72.07	43.28	21.14	21.86	
16	5.58	355.40	651.99	621.56	449.77	2211.24	393.47	93.56	68.40	42.84	23.30	20.43	
17	5.76	282.21	612.92	498.85	379.53	2285.94	511.28	92.27	67.19	42.39	27.01	19.02	
18	7.45	178.77	570.10	407.51	379.53	2415.19	515.43	92.27	63.58	42.01	30.05	18.32	
19	11.68	120.91	433.66	331.60	738.07	2491.25	407.51	90.98	60.00	41.63	29.28	18.32	
20	14.26	129.18	318.16	285.07	1603.41	2502.16	355.40	88.40	57.65	41.19	27.01	17.63	
21	11.68	185.47	251.17	251.17	1836.12	2491.25	331.60	88.40	57.65	39.12	23.30	16.27	
22	11.05	334.98	234.56	222.07	1768.97	2436.87	338.36	88.40	57.65	37.56	20.43	15.59	
23	10.43	936.87	219.74	205.89	1702.34	2105.43	365.70	85.85	55.31	36.33	19.02	14.92	
24	8.62	1018.18	189.97	185.47	1956.09	1595.22	321.51	78.27	57.65	34.73	17.63	14.92	
25	5.76	834.45	181.00	156.80	2094.91	1224.02	282.21	80.78	52.99	33.16	16.27	14.92	
26	5.40	758.05	192.23	135.45	2243.19	1217.38	253.96	98.78	49.56	32.37	14.26	12.96	
27	5.40	669.52	187.72	118.86	2328.86	1230.66	234.56	125.03	47.86	33.16	13.61	12.32	
28	5.40	540.52	217.42	112.76	2404.36	1197.52	270.84	112.76	46.17	32.37	12.32	12.32	
29	4.87	651.99	242.83	104.72	2458.59	1071.18	298.21	90.98	44.89	32.37		14.92	
30	4.35	1286.87	294.92	98.78	2469.47	994.81	226.74	83.30	43.66	32.37		14.92	
31		1595.22		112.76	2502.16		192.23		42.84	32.37		14.92	
Total	470.10	10983.54	22231.52	18007.50	46432.21	58848.05	18768.21	3314.68	2178.38	1215.89	651.28	493.36	183594.73 Ton
Mean	15.67	354.31	741.05	580.89	1497.81	1961.60	605.43	110.49	70.27	39.22	23.26	15.91	
Max	42.84	1595.22	2158.20	1836.12	2502.16	2524.00	1531.19	176.55	137.56	44.11	31.60	21.86	2524.00
Min	4.35	3.19	181.00	98.78	146.04	994.81	192.23	78.27	42.84	32.37	12.32	12.32	3.19

WATER YEAR 1994

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	1978 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1983 - 1994

RID Computer Center, Processing : 20-AUG-1996 10:54:09.46

LQS/LQS02D/12

Station - Muang, Muang, Phitsanulok, (N.5A)
Stream - Nan
River - Nan
River System - Nan River

Royal Irrigation Department
Thailand
Hydrology Division
1.81465

QS = 0.1283 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	312.	296.	1155.	3208.	561.	26865.	7053.	330.	2771.	296.	1461.	1913.	
2	405.	246.	906.	2581.	735.	30743.	7691.	486.	2948.	135.	1276.	3614.	
3	236.	154.	952.	1946.	1565.	34867.	4251.	1033.	3330.	128.	1403.	3778.	
4	83.	122.	2335.	1946.	6975.	34001.	2539.	696.	3306.	122.	1997.	3859.	
5	61.	175.	6032.	1642.	9166.	29359.	3996.	522.	2705.	113.	1815.	3940.	
6	39.	161.	7815.	1491.	9986.	23577.	6480.	324.	2158.	119.	1461.	1704.	
7	29.	216.	7936.	1704.	9022.	22577.	5543.	236.	2119.	236.	458.	501.	
8	28.	257.	9116.	2296.	6631.	21052.	4308.	183.	3065.	1346.	1719.	1751.	
9	19.	284.	11209.	2414.	5244.	20106.	2335.	164.	3458.	787.	3136.	3379.	
10	56.	56.	10586.	3589.	4281.	19191.	1388.	570.	3887.	268.	3458.	3355.	
11	71.	175.	15680.	3431.	3778.	15213.	1022.	438.	2748.	93.	2948.	3804.	
12	32.	1346.	20342.	2643.	3330.	10284.	851.	486.	2176.	444.	2581.	3750.	
13	15.	2275.	22089.	1913.	2581.	11048.	613.	862.	1235.	605.	2081.	3614.	
14	151.	2685.	16701.	1304.	1946.	22577.	570.	2275.	2217.	1318.	641.	2414.	
15	56.	2837.	12706.	1033.	1519.	28295.	561.	1235.	2498.	1491.	1656.	2196.	
16	56.	1611.	8417.	862.	1194.	33786.	677.	2158.	3208.	975.	2335.	3458.	
17	54.	641.	5819.	1182.	1248.	40734.	756.	2665.	3887.	231.	2559.	3184.	
18	67.	405.	4052.	1913.	4699.	38429.	819.	2858.	2498.	279.	2176.	3330.	
19	135.	819.	3724.	2395.	10137.	32614.	851.	2858.	1736.	840.	3113.	4137.	
20	171.	1168.	3750.	2296.	12142.	28775.	766.	2601.	677.	929.	1766.	3065.	
21	536.	756.	2994.	1979.	12366.	26962.	777.	1979.	766.	1069.	659.	1475.	
22	307.	1611.	2793.	1736.	12030.	23669.	613.	1045.	998.	641.	1535.	2314.	
23	515.	2119.	2837.	1346.	12536.	20970.	507.	1736.	650.	405.	3281.	3996.	
24	677.	2099.	2176.	998.	12763.	20106.	458.	2314.	536.	108.	3887.	3859.	
25	379.	1432.	2047.	830.	16358.	16770.	623.	2013.	561.	226.	4052.	3996.	
26	135.	895.	2623.	746.	16770.	10185.	605.	2581.	257.	1475.	3431.	3750.	
27	95.	529.	3257.	605.	19802.	7172.	515.	2623.	90.	1432.	2256.	2971.	
28	354.	715.	2665.	451.	21364.	6704.	279.	2013.	80.	1783.	458.	1783.	
29	236.	1656.	3233.	438.	28488.	7691.	251.	998.	251.	1751.		3018.	
30	236.	1155.	4025.	529.	29847.	8512.	438.	2013.	151.	1130.		4025.	
31		1155.		588.	26304.		486.		231.	458.		4366.	
Total	5546.	30051.	199972.	52035.	305368.	672834.	58622.	42295.	57198.	21233.	59599.	96299.	1601052. Ton
Mean	185.	969.	6666.	1679.	9851.	22428.	1891.	1410.	1845.	685.	2129.	3106.	
Max	677.	2837.	22089.	3589.	29847.	40734.	7691.	2858.	3887.	1783.	4052.	4366.	40734.
Min	15.	56.	906.	438.	561.	6704.	251.	164.	80.	93.	458.	501.	15.

WATER YEAR 1994

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
Actual Measurement	1994
Remarks	Continued Sediment Station
	Using Rating Curve Water Year 1994

RID Computer Center, Processing : 16-AUG-1996 12:06:33.02

LQS/LQSO2D/12

Station - Ban Bun Nak, Sa, Nan, (N.13A)
Stream - Nan
River - Nan
River System - Nan River

Royal Irrigation Department
Thailand
Hydrology Division
1.43283
QS = 1.0877 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.	63.	847.	1722.	106536.	56210.	8921.	1676.	851.	241.	150.	96.	
2	118.	63.	665.	2799.	99000.	38658.	6888.	1578.	826.	253.	142.	96.	
3	101.	63.	1666.	2186.	66715.	28703.	6049.	1514.	1643.	253.	136.	96.	
4	85.	59.	1109.	1584.	25493.	25434.	6176.	1450.	1235.	253.	136.	96.	
5	81.	51.	1042.	1272.	32877.	22410.	6049.	1388.	956.	253.	136.	96.	
6	72.	47.	2217.	1155.	30084.	17245.	5305.	1357.	826.	253.	136.	96.	
7	67.	47.	3670.	1612.	21739.	20107.	5184.	1296.	776.	230.	136.	96.	
8	63.	63.	2471.	2832.	12830.	19968.	4707.	1265.	1205.	230.	136.	96.	
9	63.	81.	1584.	1612.	10792.	14267.	4189.	1205.	1147.	230.	130.	91.	
10	59.	113.	1296.	2280.	10313.	10667.	4132.	1175.	851.	221.	130.	91.	
11	59.	185.	1749.	3419.	7518.	17112.	4360.	1147.	751.	203.	130.	85.	
12	59.	1109.	2471.	4521.	6219.	21254.	5123.	1119.	702.	203.	130.	85.	
13	59.	1178.	1397.	3104.	4865.	14267.	6888.	1092.	678.	203.	130.	85.	
14	55.	1019.	997.	2186.	6653.	10457.	5184.	1064.	631.	194.	124.	85.	
15	101.	406.	744.	1722.	14111.	11518.	4076.	1064.	609.	185.	124.	81.	
16	107.	287.	613.	2217.	63989.	18049.	3714.	1037.	587.	185.	124.	81.	
17	91.	230.	613.	2535.	98220.	25708.	3622.	1010.	565.	185.	118.	76.	
18	85.	264.	515.	4352.	79514.	28703.	4766.	1010.	565.	176.	118.	76.	
19	72.	241.	499.	14569.	73343.	28508.	5366.	1037.	544.	167.	107.	72.	
20	81.	406.	499.	14878.	80249.	20247.	3964.	1010.	544.	167.	107.	72.	
21	107.	580.	452.	14646.	67173.	14141.	3908.	983.	544.	167.	107.	72.	
22	101.	704.	467.	7935.	51996.	13891.	3483.	983.	502.	159.	101.	72.	
23	81.	847.	1155.	4821.	41118.	10155.	2824.	956.	502.	150.	101.	72.	
24	72.	785.	1695.	3419.	40622.	10057.	2535.	929.	481.	150.	101.	72.	
25	63.	630.	2155.	2832.	51150.	11410.	2381.	929.	481.	150.	101.	72.	
26	59.	406.	2343.	2535.	47395.	9568.	2192.	903.	481.	142.	101.	72.	
27	55.	287.	1806.	2343.	38293.	15799.	2085.	877.	460.	150.	101.	72.	
28	55.	287.	1557.	6079.	30324.	10353.	1945.	877.	440.	150.	96.	91.	
29	67.	348.	1531.	23149.	27743.	11196.	1877.	1010.	440.	159.		96.	
30	63.	335.	1920.	13454.	29605.	12611.	1843.	929.	460.	159.		96.	
31		647.		29964.	56061.		1776.		241.	150.		91.	
Total	2337.	11831.	41745.	183734.	1332540.	568673.	131512.	33870.	21524.	5971.	3389.	2626.	2339752. Ton
Mean	78.	382.	1392.	5927.	42985.	18956.	4242.	1129.	694.	193.	121.	85.	
Max	136.	1178.	3670.	29964.	106536.	56210.	8921.	1676.	1643.	253.	150.	96.	106536.
Min	55.	47.	452.	1155.	4865.	9568.	1776.	877.	241.	142.	96.	72.	47.

WATER YEAR 1994

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 kms. 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
Actual Measurement	1994
Remarks	Continued Sediment Station Using Rating Curve Water Year 1994

RID Computer Center, Processing : 20-AUG-1996 10:54:55.37

LQS/LQSO2D/12

Station - Tambon Banta, 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 030594
1.09602
QS = 6.6229 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.3	29.4	861.3	1019.3	4459.5	10292.9	4351.7	608.1	243.4	119.5	52.4	16.5	
2	31.9	27.8	911.5	1138.4	5144.5	9538.2	4147.1	553.4	247.4	116.7	54.1	16.5	
3	23.7	20.5	901.4	1166.9	5478.3	8764.1	3925.6	518.2	254.4	114.8	52.4	19.7	
4	18.9	16.5	915.9	1132.7	5593.4	8104.2	3640.8	477.9	271.4	106.4	52.4	17.3	
5	16.5	11.8	1075.8	1053.2	5457.4	7553.8	3383.0	451.5	260.4	100.9	50.7	13.4	
6	30.3	11.1	1479.7	1053.2	5206.9	7231.6	3173.0	424.3	257.4	98.1	48.9	13.4	
7	31.9	8.8	1822.2	1127.0	4910.9	6916.0	2953.0	411.8	264.4	96.3	48.9	13.4	
8	29.4	5.9	1850.7	1319.6	4639.6	6716.1	2705.0	385.8	346.6	90.8	48.9	13.4	
9	27.8	8.8	1729.8	1822.2	4459.5	6483.5	2485.8	368.2	333.3	85.3	42.0	13.4	
10	27.0	10.3	1800.8	2145.1	4336.3	6267.5	2261.0	342.5	333.3	80.8	35.3	14.9	
11	21.3	12.6	2252.5	2400.5	4245.5	6180.3	2087.4	329.2	295.6	71.8	33.6	15.7	
12	18.9	20.5	2198.2	2494.3	4147.1	6325.8	2029.8	325.1	291.6	67.4	31.9	14.9	
13	18.9	33.6	2044.1	2468.7	3952.3	6450.4	2001.0	325.1	284.5	67.4	28.6	13.4	
14	17.3	78.1	1857.8	2285.2	3739.3	6325.8	1893.5	322.0	267.4	62.0	30.3	12.6	
15	16.5	70.0	1666.0	2022.6	4091.0	6180.3	1687.3	310.8	247.4	62.0	31.9	13.4	
16	17.3	48.9	1212.6	1836.4	4552.0	6035.1	1498.3	318.0	230.5	64.7	27.0	13.4	
17	18.9	37.0	1247.0	1715.6	5045.7	5890.2	1288.4	313.9	216.7	71.8	21.3	13.4	
18	20.5	34.4	1024.9	2261.0	5520.1	5777.1	1152.0	310.8	207.8	76.3	20.5	13.4	
19	22.9	71.8	921.5	2980.3	6682.8	5645.9	1221.8	306.8	220.6	73.6	19.7	12.6	
20	21.3	150.6	570.5	3236.6	8331.8	5567.3	1041.9	302.7	200.9	76.3	18.9	12.6	
21	21.3	166.9	519.2	3292.8	9390.0	5457.4	1008.0	298.6	185.3	76.3	18.9	12.6	
22	25.3	212.7	425.3	3110.7	8968.7	5415.5	1036.2	295.6	175.6	73.6	17.3	12.6	
23	27.0	312.9	402.4	2741.9	8696.0	5352.9	979.9	288.5	130.7	76.3	20.5	12.6	
24	27.0	334.3	432.7	2400.5	8388.8	5311.1	929.4	277.4	114.8	71.8	21.3	12.6	
25	29.4	481.1	441.1	2213.9	8502.9	5186.1	884.7	267.4	136.4	67.4	19.7	12.6	
26	27.8	587.7	493.7	1972.3	8388.8	5026.2	856.9	267.4	148.7	69.1	18.9	12.6	
27	29.4	639.5	570.5	1900.7	8274.8	4892.7	851.3	271.4	151.6	69.1	17.3	12.6	
28	30.3	677.5	536.3	1900.7	7990.6	4747.9	845.8	271.4	142.1	64.7	17.3	13.4	
29	36.1	756.3	498.0	1829.3	7650.6	4567.4	820.3	267.4	133.6	62.0		28.6	
30	29.4	835.8	786.0	1595.5	8217.9	4474.9	775.0	243.4	130.7	60.3		27.0	
31		885.8		2759.2	10292.9		696.0		125.1	54.1		27.0	
Total	754.5	6598.9	33449.4	62396.3	194755.9	188678.2	58610.9	10454.6	6849.6	2447.6	900.9	471.5	566368.4 Ton
Mean	25.1	212.9	1115.0	2012.8	6282.4	6289.3	1890.7	348.5	221.0	79.0	32.2	15.2	
Max	40.3	885.8	2252.5	3292.8	10292.9	10292.9	4351.7	608.1	346.6	119.5	54.1	28.6	10292.9
Min	16.5	5.9	402.4	1019.3	3739.3	4474.9	696.0	243.4	114.8	54.1	17.3	12.6	5.9

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 20-AUG-1996 10:55:43.02 LQS/LQSO2D/12

Station - Ban Muang Nua, Kaeng Khoi, Saraburi, (S.9)
Stream - Pasak
River - Pasak
River System - Pasak River

Royal Irrigation Department
Thailand
Hydrology Division

$QS = 2.8790\ QW^{1.35766}$

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.6	18.9	677.0	1760.3	1168.3	4630.9	15745.5	246.3	104.6	45.2	15.2	11.7	
2	18.3	16.4	380.5	1671.9	1122.8	4878.7	16143.0	209.3	104.6	45.2	14.6	10.5	
3	16.4	12.8	298.1	1354.5	1122.8	5186.0	16428.5	182.0	100.6	42.8	14.0	10.0	
4	13.4	11.1	311.5	1366.4	913.9	5584.2	16257.1	150.1	104.6	42.8	14.0	10.0	
5	11.1	10.0	366.4	1527.3	989.5	5774.6	15915.5	126.3	111.7	25.6	14.0	8.4	
6	10.5	9.5	416.3	1584.7	839.8	5966.6	15182.1	122.1	111.7	23.5	14.0	7.9	
7	9.5	8.4	338.6	1584.7	747.1	6290.3	13929.2	118.9	111.7	21.5	13.4	7.9	
8	7.9	17.0	478.3	1584.7	839.8	6841.7	12120.6	104.6	111.7	20.9	13.4	7.9	
9	7.9	487.3	523.9	1657.3	1402.2	7134.2	10205.0	90.7	118.9	20.9	13.4	8.4	
10	7.4	298.1	460.3	1745.5	1319.0	8453.7	8495.3	90.7	130.5	20.2	13.4	7.9	
11	7.4	84.0	430.8	1775.1	1307.3	9683.5	7097.5	84.0	138.1	20.2	13.4	7.9	
12	6.9	50.9	469.3	1745.5	1330.8	10778.1	5774.6	81.2	145.7	20.2	13.4	7.4	
13	5.9	126.3	505.5	1760.3	1295.5	11581.4	4658.3	84.0	145.7	20.2	13.4	7.4	
14	8.4	122.1	533.2	1775.1	1354.5	12666.2	3675.4	81.2	145.7	15.2	13.4	7.4	
15	11.7	93.7	570.6	1804.9	1402.2	13470.9	2908.9	81.2	145.7	17.0	13.4	6.9	
16	11.7	59.4	589.6	1819.9	1484.6	13929.2	2470.8	71.9	133.8	17.0	13.4	6.9	
17	17.6	40.4	599.2	1834.9	1599.2	15575.9	2197.0	71.9	114.8	17.6	13.4	7.4	
18	84.0	21.5	628.1	2089.9	1715.9	15519.5	1834.9	71.9	114.8	16.4	12.8	7.9	
19	28.4	118.9	647.5	2143.3	2001.7	14962.0	1442.2	71.9	107.6	17.0	12.8	7.9	
20	16.4	438.2	667.1	2125.4	2269.2	14237.0	1248.8	71.9	97.6	17.0	12.8	7.9	
21	15.2	460.3	696.8	1790.0	2397.0	14237.0	1145.5	71.9	90.7	17.0	12.8	8.4	
22	13.4	252.7	1111.6	1686.6	2629.6	14598.4	1122.8	77.4	84.0	17.0	12.8	8.4	
23	14.6	130.5	1022.4	1570.3	2650.8	14340.0	1077.9	90.7	81.2	17.0	12.8	7.9	
24	17.0	145.7	935.3	1390.2	2843.8	14082.9	1033.5	84.0	77.4	17.0	12.8	7.9	
25	16.4	104.6	946.1	1354.5	3240.1	14082.9	946.1	77.4	71.9	17.0	12.8	7.9	
26	16.4	68.3	967.8	1179.7	3603.6	13929.2	839.8	71.9	71.9	17.0	12.8	17.0	
27	12.8	104.6	956.9	1100.3	3726.9	14185.6	706.8	71.9	62.1	17.0	12.8	14.6	
28	11.7	126.3	1022.4	1077.9	3882.7	14546.6	561.2	77.4	45.2	17.0	12.8	11.1	
29	11.7	172.7	1022.4	1111.6	4119.4	15126.1	438.2	87.9	45.2	15.2		11.1	
30	11.7	338.6	1202.6	1156.9	4252.5	15406.8	366.4	100.6	42.8	15.2		10.0	
31		618.4		1168.3	4521.9		298.1		45.2	15.2		10.0	
Total	459.3	4567.6	19776.1	49297.9	64094.4	337680.1	182266.5	3023.2	3117.7	668.0	374.0	279.9	665604.7 Ton
Mean	15.3	147.3	659.2	1590.3	2067.6	11256.0	5879.6	100.8	100.6	21.5	13.4	9.0	
Max	84.0	618.4	1202.6	2143.3	4521.9	15575.9	16428.5	246.3	145.7	45.2	15.2	17.0	16428.5
Min	5.9	8.4	298.1	1077.9	747.1	4630.9	298.1	71.9	42.8	15.2	12.8	6.9	5.9

WATER YEAR 1994

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 1994

RID Computer Center, Processing : 9-AUG-1996 11:09:48.97 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
1.31483
QS = 44.6713 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.06	10.40	11.23	10.40	0.00	0.00	14.73	0.87	0.00	0.00	0.00	0.00	
2	2.16	9.17	41.76	36.64	0.00	0.26	12.09	0.87	0.00	0.00	0.00	0.00	
3	5.38	7.99	11.23	10.40	0.00	2.16	10.40	0.87	0.00	0.00	0.00	0.00	
4	7.99	5.38	7.22	41.76	0.26	26.90	7.99	0.87	0.00	0.00	0.00	0.00	
5	3.69	3.69	15.63	11.23	7.99	26.90	7.99	0.87	0.00	0.00	0.00	0.00	
6	2.16	2.16	11.23	7.22	11.23	7.99	9.17	0.87	0.00	0.00	0.00	0.00	
7	2.16	2.16	7.22	16.55	3.69	3.06	10.40	0.00	0.00	0.00	0.00	0.00	
8	2.16	1860.09	5.38	9.17	2.16	0.87	15.63	0.00	0.00	0.00	0.00	0.00	
9	2.16	346.55	4.35	5.38	3.06	0.87	9.17	0.00	0.00	0.00	0.00	0.00	
10	0.26	497.13	3.69	4.35	3.06	0.26	7.22	0.00	0.00	0.00	0.00	0.00	
11	0.00	47.04	3.69	3.69	2.16	0.26	5.38	0.00	0.00	0.00	0.00	0.00	
12	0.00	16.55	3.06	3.06	0.87	69.53	11.23	0.00	0.00	0.00	0.00	0.00	
13	0.00	11.23	3.06	2.16	0.26	14.73	7.22	0.00	0.00	0.00	0.00	0.00	
14	0.00	10.40	3.06	2.16	0.87	9.17	7.22	0.00	0.00	0.00	0.00	0.00	
15	0.00	7.22	2.16	1.35	0.26	10.40	5.38	0.00	0.00	0.00	0.00	0.00	
16	14.73	5.38	2.16	1.35	0.26	6.10	7.22	0.00	0.00	0.00	0.00	0.00	
17	111.13	4.35	2.16	0.87	4.35	7.22	6.10	0.00	0.00	0.00	0.00	0.00	
18	52.46	7.22	2.16	0.26	1.35	7.22	6.10	0.00	0.00	0.00	0.00	0.00	
19	10.40	172.16	1.35	0.00	0.87	7.99	13.39	0.00	0.00	0.00	0.00	0.00	
20	7.22	22.32	1.35	0.00	1.35	7.22	11.23	0.00	0.00	0.00	0.00	0.00	
21	5.38	111.13	1.35	1.35	1.35	3.06	6.10	0.00	0.00	0.00	0.00	0.00	
22	4.35	26.90	5.38	2.16	0.87	3.06	5.38	0.00	0.00	0.00	0.00	0.00	
23	3.06	26.90	3.69	1.35	0.87	2.16	4.35	0.00	0.00	0.00	0.00	0.00	
24	93.94	10.40	6.10	1.35	0.87	4.35	3.69	0.00	0.00	0.00	0.00	0.00	
25	13.39	7.99	3.69	1.35	0.87	119.98	3.69	0.00	0.00	0.00	0.00	0.00	
26	7.22	7.22	3.06	0.26	0.87	15.63	3.69	0.00	0.00	0.00	0.00	4.35	
27	31.68	5.38	3.06	0.00	0.26	36.64	1.35	0.00	0.00	0.00	0.00	0.00	
28	15.63	36.64	3.06	0.00	0.00	346.55	0.87	0.00	0.00	0.00	0.00	0.00	
29	41.76	52.46	3.06	0.00	0.00	253.08	0.87	0.00	0.00	0.00		0.00	
30	12.09	12.09	9.17	0.00	0.00	41.76	0.87	0.00	0.00	0.00		0.00	
31		10.40		0.00	0.00		0.87		0.00	0.00		0.00	
Total	455.62	3356.10	184.77	175.82	50.01	1035.38	216.99	5.22	0.00	0.00	0.00	4.35	5484.26 Ton
Mean	15.19	108.26	6.16	5.67	1.61	34.51	7.00	0.17	0.00	0.00	0.00	0.14	
Max	111.13	1860.09	41.76	41.76	11.23	346.55	15.63	0.87	0.00	0.00	0.00	4.35	1860.09
Min	0.00	2.16	1.35	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 20-AUG-1996 10:57:34.23 LQS/LQS02D/12

Station - Ban Nong O, Ban Khwao, Chaiyaphum, (E.32A)
Stream - Chi
River - Chi
River System - Chi River

Royal Irrigation Department
Thailand
Hydrology Division
1.36382
QS = 3.4980 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.2	14.9	947.9	2924.7	164.0	8237.8	630.7	76.9	21.6	8.4	4.5	0.7	
2	12.2	11.5	735.9	5544.0	282.1	11024.7	572.3	73.0	24.8	8.4	4.0	0.7	
3	20.1	12.2	563.0	4867.6	248.0	14132.6	539.1	65.4	25.6	8.4	3.0	0.7	
4	12.9	8.4	662.4	1722.1	564.9	13797.0	465.6	61.7	25.6	8.4	2.6	0.7	
5	7.2	3.5	786.0	786.0	1647.8	10987.9	423.9	58.2	56.5	8.4	2.6	0.4	
6	4.0	1.7	709.2	990.6	1389.9	7320.9	486.8	56.5	27.2	7.8	2.6	0.2	
7	3.0	5.5	449.8	1239.1	960.6	4133.4	552.0	54.8	24.0	7.2	2.6	0.2	
8	2.2	7.8	218.8	973.5	1115.2	2043.7	460.3	51.5	21.6	6.6	2.6	0.2	
9	1.4	54.8	148.3	645.0	1574.3	1401.7	329.2	48.2	20.8	6.6	2.2	0.2	
10	1.0	113.2	110.8	537.3	1767.2	986.3	259.2	46.5	19.3	6.1	2.2	0.2	
11	1.0	150.9	103.7	537.3	3313.1	822.6	251.8	43.5	18.6	6.6	2.2	0.2	
12	1.0	434.2	274.4	682.7	3821.7	834.9	266.8	42.1	18.6	6.6	2.2	0.2	
13	1.0	188.5	174.8	583.5	2075.1	1016.5	300.7	40.7	17.1	6.6	2.2	0.2	
14	1.0	140.5	138.0	413.6	1007.9	1552.4	296.0	39.4	16.4	6.6	2.2	0.0	
15	1.0	65.4	101.3	286.7	738.9	2635.7	413.6	38.0	14.9	6.6	1.7	0.0	
16	2.2	38.0	87.5	388.3	718.0	3082.3	444.6	36.7	14.9	6.6	1.7	0.0	
17	12.9	26.4	78.9	561.2	729.9	3540.8	408.5	35.3	14.2	6.1	1.7	0.0	
18	13.6	38.0	59.9	574.2	662.4	2753.7	492.1	32.7	13.6	5.0	1.7	0.0	
19	9.0	296.0	42.1	552.0	585.4	2201.9	486.8	31.4	12.9	5.0	1.4	0.0	
20	6.6	756.8	32.7	439.4	602.3	1692.3	259.2	29.7	12.9	5.0	1.4	0.0	
21	6.1	863.8	28.9	393.3	994.9	1233.4	199.6	28.9	12.9	5.5	1.0	0.0	
22	4.5	922.4	28.0	622.1	2387.6	943.6	177.5	28.0	12.9	5.5	1.4	0.0	
23	3.5	470.8	26.4	486.8	2106.6	1022.0	156.1	27.2	12.2	5.5	1.4	0.0	
24	3.0	161.4	28.0	291.3	1087.6	1176.7	143.1	26.4	12.2	5.5	1.0	0.0	
25	2.2	94.4	46.5	240.6	1154.3	1455.0	127.9	25.6	11.5	5.0	1.0	0.0	
26	1.7	61.7	94.4	233.3	3468.5	1313.9	118.1	24.8	10.9	4.5	1.0	0.0	
27	1.7	58.2	145.7	177.5	6949.4	1043.7	123.0	24.0	10.9	4.5	1.0	0.0	
28	1.7	99.0	296.0	145.7	8799.2	914.0	103.7	22.4	10.3	4.5	0.7	0.2	
29	3.0	110.8	439.4	140.5	6590.2	859.7	99.0	22.4	9.6	4.5		0.2	
30	12.2	127.9	750.8	123.0	3565.0	741.8	89.8	22.4	9.6	4.5		0.0	
31		559.4		110.8	5256.5		83.1		9.0	4.5		0.0	
Total	165.1	5898.0	8309.5	28213.7	66328.5	104902.9	9760.1	1214.3	543.1	191.0	55.8	5.2	225587.2 Ton
Mean	5.5	190.3	277.0	910.1	2139.6	3496.8	314.8	40.5	17.5	6.2	2.0	0.2	
Max	20.1	922.4	947.9	5544.0	8799.2	14132.6	630.7	76.9	56.5	8.4	4.5	0.7	14132.6
Min	1.0	1.7	26.4	110.8	164.0	741.8	83.1	22.4	9.0	4.5	0.7	0.0	0.0

WATER YEAR 1994

MUN RIVER BASIN

Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M.7)

Location	Lat. 15-13-17 N., Long. 104-51-39 E., on left bank at the Seri Prachathipatai, Amphoe Muang, Ubon Ratchathani.
Drainage Area	106,673 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.P - 61
Period of Available Records	1964 - Cont'd
Actual Measurement	1964 - 1965, 1967 - 1981, 1983 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1978 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:10:04.66

LQS/LQS02D/12

Station - Seri Prachathipatai Bridge, Muang, Ubon Ratchathani, (M.7)
Stream - Mun
River - Mun
River System - Mun

Royal Irrigation Department
Thailand
Hydrology Division
1.07268
QS = 5.0982 QW

Water Year - 1994

Suspended Sediment, in Hundred Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.38	50.05	19.86	148.12	225.08	43.02	14.58	0.05	0.00	0.02	
2	0.00	0.00	2.83	51.23	20.84	151.17	222.18	39.53	13.86	0.04	0.00	0.01	
3	0.00	0.00	3.83	54.38	29.16	153.62	217.84	36.83	13.15	0.03	0.00	0.01	
4	0.00	0.00	3.66	57.54	39.14	159.74	214.95	36.45	11.72	0.03	0.00	0.01	
5	0.00	0.00	3.33	56.35	44.57	163.42	214.23	33.22	11.01	0.03	0.00	0.01	
6	0.00	0.00	2.83	50.83	46.91	178.88	209.90	29.50	10.22	0.03	0.00	0.02	
7	0.00	0.00	2.67	41.85	48.87	188.21	202.70	28.15	9.83	0.03	0.00	0.02	
8	0.00	0.00	3.66	33.55	50.44	192.89	194.90	27.15	10.61	0.02	0.00	0.03	
9	0.00	0.00	5.14	29.83	49.65	196.24	186.88	26.81	10.61	0.02	0.00	0.03	
10	0.00	0.00	5.95	31.18	46.52	196.95	179.54	29.16	10.61	0.02	0.00	0.04	
11	0.00	0.00	6.36	37.99	41.08	198.39	171.57	29.83	9.83	0.02	0.00	0.05	
12	0.00	0.00	6.63	43.41	36.45	199.11	165.88	25.14	8.66	0.02	0.00	0.05	
13	0.00	0.00	7.70	46.52	33.55	198.39	163.42	27.48	10.22	0.02	0.00	0.05	
14	0.00	0.00	7.70	48.48	31.52	195.57	163.42	22.82	10.22	0.02	0.00	0.05	
15	0.00	0.00	7.97	44.18	29.83	192.89	162.81	14.58	9.44	0.02	0.00	0.05	
16	0.00	0.00	7.97	38.76	29.50	197.67	159.13	18.22	9.05	0.02	0.01	0.05	
17	0.00	0.00	8.78	36.45	29.50	202.70	151.17	16.03	8.66	0.02	0.01	0.04	
18	0.00	0.00	8.51	33.55	31.52	201.26	139.59	10.22	7.13	0.02	0.01	0.04	
19	0.00	0.00	11.08	35.68	30.17	200.55	125.66	10.61	6.67	0.02	0.02	0.04	
20	0.00	0.00	14.38	36.83	35.30	200.55	114.56	10.22	9.44	0.02	0.02	0.03	
21	0.00	0.01	17.90	35.68	38.76	199.83	105.72	10.61	10.61	0.01	0.02	0.03	
22	0.00	0.01	27.15	33.22	38.76	202.70	96.62	10.22	10.61	0.01	0.02	0.03	
23	0.00	0.01	37.99	31.18	43.79	203.42	88.12	15.31	5.08	0.01	0.02	0.03	
24	0.00	0.02	44.57	29.50	59.66	203.42	81.07	14.58	2.31	0.00	0.02	0.03	
25	0.00	0.02	48.48	27.82	117.33	204.14	74.33	13.15	0.77	0.00	0.02	0.03	
26	0.00	0.04	48.87	25.81	132.92	207.74	67.63	13.15	0.45	0.00	0.02	0.02	
27	0.00	0.07	46.91	23.15	135.34	214.23	64.52	13.15	0.47	0.00	0.02	0.02	
28	0.00	0.07	42.24	20.51	137.16	223.63	57.94	11.72	0.31	0.00	0.02	0.02	
29	0.00	0.07	40.69	21.17	140.81	227.25	51.62	12.43	0.18	0.00		0.02	
30	0.00	0.08	45.74	20.19	141.42	227.25	46.91	12.43	0.07	0.00		0.03	
31		0.56		18.88	144.46		44.96		0.06	0.00		0.03	
Total	0.00	0.96	522.90	1145.75	1854.79	5829.93	4364.85	641.72	236.44	0.53	0.23	0.94	14599.04 100Ton
Mean	0.00	0.03	17.43	36.96	59.83	194.33	140.80	21.39	7.63	0.02	0.01	0.03	
Max	0.00	0.56	48.87	57.54	144.46	227.25	225.08	43.02	14.58	0.05	0.02	0.05	227.25
Min	0.00	0.00	1.38	18.88	19.86	148.12	44.96	10.22	0.06	0.00	0.00	0.01	0.00

WATER YEAR 1994

MUN RIVER BASIN

Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80)

Location	Lat. 14-53-53 N., Long. 105-05-08 E., on left bank about 20 meters downstream from the bridge on road, Amphoe Det Udom, Ubon Ratchathani.
Drainage Area	3,363 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1978 - Cont'd
Actual Measurement	1978 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1978 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:10:11.89 LQS/LQS02D/12

Station - Det Udom, Det Udom, Ubon Ratchathani, (M.80)
Stream - Lam Dom Yai
River - Mun
River System - Mun

Royal Irrigation Department
Thailand
Hydrology Division
1.30817
QS = 2.2209 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.22	1.14	19.19	163.01	244.22	1884.03	4972.41	129.38	23.15	5.50	2.82	3.45	
2	2.22	1.14	19.19	166.70	445.31	1907.54	5220.59	104.41	23.15	5.50	2.82	2.82	
3	2.82	1.14	17.29	137.77	978.55	1736.78	5318.47	80.79	21.15	5.50	2.82	2.82	
4	2.22	1.14	15.43	116.22	1978.47	1569.88	5253.17	89.01	21.15	5.50	2.82	2.82	
5	2.22	1.14	13.62	113.28	2921.25	1458.41	5133.94	80.79	21.15	4.79	2.22	2.82	
6	2.22	1.14	13.62	141.31	3260.74	1622.55	4929.54	72.75	21.15	4.11	2.22	2.82	
7	1.66	1.14	15.43	170.40	3223.23	2318.64	4328.39	64.93	21.15	4.11	2.22	2.82	
8	1.66	1.66	17.29	185.42	3002.44	2751.61	3487.89	57.32	21.15	4.11	2.22	2.82	
9	1.66	0.67	17.29	170.40	2454.15	2903.28	2957.27	53.60	21.15	4.11	2.22	2.82	
10	1.14	1.14	11.86	159.34	1690.87	2813.83	2628.15	49.94	21.15	4.11	2.22	2.82	
11	1.14	1.66	13.62	236.16	1363.40	2436.90	2894.31	49.94	19.19	4.11	2.22	2.22	
12	1.66	1.14	13.62	747.94	1192.07	2310.27	3065.94	49.94	19.19	4.11	2.22	2.22	
13	1.66	1.14	13.62	1320.06	1021.44	2377.37	3223.23	46.34	19.19	4.11	2.22	2.22	
14	0.67	1.14	19.19	1143.14	882.18	2619.39	3002.44	46.34	17.29	4.11	2.22	2.22	
15	1.14	1.14	53.60	805.66	708.14	3029.62	2488.72	42.81	17.29	4.11	2.22	2.22	
16	1.14	1.14	114.75	635.62	464.86	3241.97	2130.18	42.81	15.43	3.45	2.22	1.66	
17	1.14	1.14	46.34	499.53	332.43	3527.09	1736.78	35.95	15.43	3.45	2.22	1.66	
18	1.14	2.22	29.38	402.08	256.42	3816.73	1569.88	35.95	13.62	3.45	2.22	1.66	
19	1.14	3.45	21.15	440.46	224.20	3927.99	1377.92	35.95	13.62	3.45	2.82	1.66	
20	1.14	15.43	17.29	770.90	244.22	3988.99	1074.09	35.95	11.86	3.45	2.82	1.66	
21	1.14	32.62	49.94	1027.60	315.14	3968.63	864.38	35.95	11.86	3.45	3.45	1.66	
22	1.14	21.15	1003.00	882.18	359.91	3887.45	663.29	35.95	8.54	3.45	3.45	1.66	
23	0.67	11.86	565.43	770.90	435.62	3776.46	534.78	35.95	8.54	3.45	3.45	1.66	
24	1.66	8.54	494.54	570.58	747.94	3556.80	406.83	35.95	8.54	3.45	3.45	1.66	
25	1.14	8.54	519.60	421.17	1164.05	3421.27	378.52	32.62	6.98	3.45	3.45	1.66	
26	1.14	35.95	581.13	315.14	1385.19	3279.53	336.97	29.38	6.98	3.45	3.45	2.22	
27	1.14	72.75	421.17	248.27	1675.63	3646.29	256.42	29.38	6.98	3.45	3.45	2.82	
28	0.67	46.34	260.52	196.87	1630.11	4204.22	224.20	29.38	5.50	3.45	3.45	3.45	
29	0.67	32.62	185.42	163.01	1436.35	4474.33	193.03	26.22	5.50	3.45		3.45	
30	0.67	15.43	159.34	155.70	1510.19	4663.62	170.40	26.22	5.50	3.45		3.45	
31		23.15		148.46	1736.78		155.70		5.50	3.45		3.45	
Total	42.05	350.00	4742.86	13425.28	39285.50	91121.46	70977.84	1521.90	458.03	123.09	75.60	75.37	222199.00 Ton
Mean	1.40	11.29	158.10	433.07	1267.27	3037.38	2289.61	50.73	14.78	3.97	2.70	2.43	
Max	2.82	72.75	1003.00	1320.06	3260.74	4663.62	5318.47	129.38	23.15	5.50	3.45	3.45	5318.47
Min	0.67	0.67	11.86	113.28	224.20	1458.41	155.70	26.22	5.50	3.45	2.22	1.66	0.67

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 20-AUG-1996 10:59:06.09 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 = 0.5395 QW 1.63638

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.01	51.95	841.55	160.68	897.71	26.09	1.16	0.34	0.03	0.01	0.00	
2	0.01	0.01	189.96	164.75	129.61	207.53	30.40	1.05	0.45	0.03	0.01	0.00	
3	0.01	0.01	62.78	76.80	76.80	207.53	20.56	0.94	0.30	0.02	0.01	0.00	
4	0.01	0.02	164.75	43.87	460.78	137.13	18.77	0.73	0.14	0.02	0.01	0.00	
5	0.01	0.01	118.63	76.80	1004.30	67.33	17.05	0.73	0.17	0.02	0.01	0.00	
6	0.01	0.01	74.39	410.71	1134.44	72.01	17.90	0.63	0.17	0.02	0.01	0.00	
7	0.01	0.01	27.50	598.62	800.36	477.96	24.70	0.54	0.16	0.02	0.01	0.00	
8	0.01	0.06	41.93	344.54	786.81	225.70	21.47	0.45	0.16	0.02	0.01	0.00	
9	0.01	0.20	76.80	185.66	449.38	140.96	22.40	0.41	0.14	0.02	0.01	0.00	
10	0.01	0.41	49.88	93.21	177.18	281.68	24.70	0.37	0.14	0.02	0.01	0.00	
11	0.01	5.76	105.28	79.25	108.39	172.99	28.94	0.34	0.13	0.02	0.01	0.00	
12	0.01	1.68	96.17	62.78	125.91	125.91	26.09	0.30	0.11	0.02	0.01	0.00	
13	0.01	0.54	93.21	45.84	45.84	140.96	21.47	0.30	0.10	0.02	0.01	0.00	
14	0.01	0.37	45.84	41.93	31.90	235.01	16.21	0.23	0.08	0.02	0.01	0.00	
15	0.01	0.23	30.40	47.84	30.40	483.66	14.58	0.20	0.08	0.02	0.01	0.00	
16	0.01	0.16	21.47	87.39	31.90	216.54	14.58	0.17	0.08	0.02	0.01	0.00	
17	0.01	0.94	16.21	125.91	93.21	1115.47	13.80	0.17	0.07	0.01	0.00	0.00	
18	0.01	10.12	13.03	148.73	49.88	246.37	11.54	0.17	0.06	0.01	0.00	0.00	
19	0.01	331.58	10.82	1211.56	67.33	410.71	10.12	0.17	0.04	0.01	0.00	0.00	
20	0.01	8.78	8.78	1403.43	54.05	198.67	7.51	0.17	0.04	0.01	0.00	0.00	
21	0.01	17.90	8.78	455.07	72.01	225.70	6.44	0.16	0.04	0.01	0.00	0.00	
22	0.01	8.78	17.90	466.40	235.01	140.96	5.43	0.14	0.04	0.01	0.00	0.00	
23	0.01	4.49	13.03	269.71	87.39	87.39	4.19	0.14	0.04	0.01	0.00	0.00	
24	0.00	2.11	17.05	144.82	54.05	90.28	4.19	0.11	0.03	0.01	0.00	0.00	
25	0.00	1.29	31.90	137.13	99.17	76.80	3.62	0.11	0.03	0.01	0.00	0.00	
26	0.00	0.94	23.35	93.21	1336.41	67.33	3.62	0.11	0.03	0.01	0.00	0.00	
27	0.00	1.29	49.88	84.54	373.29	99.17	3.08	0.10	0.03	0.01	0.00	0.00	
28	0.01	2.34	125.91	62.78	133.35	72.01	2.58	0.07	0.03	0.01	0.00	0.00	
29	0.01	7.51	47.84	43.87	111.53	45.84	2.11	0.11	0.03	0.02		0.00	
30	0.01	4.49	950.42	38.16	513.06	30.40	2.11	0.20	0.03	0.01		0.00	
31		54.05		45.84	897.71		1.68		0.03	0.01		0.00	
Total	0.27	466.10	2585.84	7932.70	9732.13	6997.71	427.93	10.48	3.32	0.50	0.16	0.00	28157.14 Ton
Mean	0.01	15.04	86.19	255.89	313.94	233.26	13.80	0.35	0.11	0.02	0.01	0.00	
Max	0.02	331.58	950.42	1403.43	1336.41	1115.47	30.40	1.16	0.45	0.03	0.01	0.00	1403.43
Min	0.00	0.01	8.78	38.16	30.40	30.40	1.68	0.07	0.03	0.01	0.00	0.00	0.00

WATER YEAR 1994

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng, Prachin Buri (KGT.12)

Location	Lat. 13-56-02 N., Long. 101-58-41 E., on left bank near the railway station at Ban Kaeng and about 200 meters upstream from Thot Saphon Sawmill, Amphoe Sa Kaeo, Prachin Buri.
Drainage Area	1,540 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1967 - Cont'd
Actual Measurement	1969 - Cont'd
Remarks	Continued Sediment Station
	Using Rating Curve Water Year 1969 - 1994

RID Computer Center, Processing : 20-AUG-1996 10:23:05.87 LQS/LQSO2D/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
1.06710
QS = 3.8871 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	3.39	120.91	120.91	672.36	268.09	28.18	6.25	2.33	0.85	0.19	
2	0.00	0.00	10.16	254.15	127.41	783.02	275.57	26.77	5.91	2.25	1.00	0.48	
3	0.00	0.00	10.95	366.04	143.38	835.24	297.37	25.83	6.42	2.25	1.08	0.48	
4	0.00	0.00	8.58	428.07	173.23	891.17	305.76	23.51	5.74	2.01	1.00	0.26	
5	0.00	0.00	7.54	489.21	234.94	918.40	286.32	22.11	5.57	1.93	1.00	0.19	
6	0.00	0.00	7.28	496.52	337.63	903.44	259.49	19.07	5.57	1.86	1.00	0.26	
7	0.00	0.00	6.25	438.22	432.42	856.19	241.33	17.70	5.57	1.86	0.92	0.06	
8	0.00	0.00	5.57	294.97	499.44	772.60	231.77	16.34	6.59	1.54	1.15	0.00	
9	0.00	0.00	5.74	142.65	530.24	631.15	206.33	15.52	6.76	1.62	1.31	0.00	
10	0.00	0.00	6.76	70.52	554.34	451.30	160.93	14.17	5.40	1.62	1.38	0.00	
11	0.00	0.00	7.80	55.60	573.40	296.17	129.58	13.36	5.23	1.38	1.31	0.00	
12	0.00	0.00	7.54	50.22	540.53	238.16	113.00	12.55	4.89	1.46	1.15	0.00	
13	0.00	0.00	6.93	47.79	474.60	378.97	97.99	11.48	5.06	1.46	1.00	0.00	
14	0.00	0.00	6.76	41.50	374.66	582.94	88.07	12.29	5.40	1.31	0.92	0.00	
15	0.00	0.00	8.06	39.58	265.93	679.25	87.36	11.75	5.23	1.23	0.92	0.00	
16	0.00	0.00	9.10	34.32	173.23	694.76	93.02	10.42	5.23	1.23	0.85	0.00	
17	0.00	0.00	9.10	28.18	123.80	693.03	98.71	9.89	4.89	1.23	0.85	0.00	
18	0.00	0.00	6.76	33.85	108.70	675.81	95.15	9.37	4.72	1.15	0.70	0.00	
19	0.00	0.00	5.40	68.43	110.85	665.48	89.48	9.10	5.06	1.15	0.62	0.00	
20	0.00	0.33	3.89	223.25	125.24	686.14	98.71	8.32	4.22	1.15	0.55	0.00	
21	0.00	0.70	4.05	429.52	147.55	731.02	120.19	7.54	3.80	1.15	0.40	0.00	
22	0.00	1.08	10.69	573.40	175.13	767.40	121.64	7.11	3.56	1.00	0.26	0.00	
23	0.00	1.46	20.18	660.33	180.08	762.19	102.27	7.28	3.31	1.00	0.33	0.00	
24	0.00	1.86	39.10	710.28	181.09	710.28	77.51	6.25	3.15	1.00	0.33	0.00	
25	0.00	2.25	44.40	713.74	181.09	605.25	61.01	6.42	2.98	1.00	0.40	0.00	
26	0.00	2.66	44.40	658.61	180.08	519.96	51.69	5.91	2.82	1.00	0.40	0.00	
27	0.00	3.06	41.50	555.93	225.39	452.75	45.85	5.74	2.82	1.00	0.19	0.00	
28	0.00	3.56	40.06	381.85	297.37	396.26	42.47	5.57	2.74	1.00	0.19	0.00	
29	0.00	4.89	40.06	202.13	326.22	297.37	41.02	6.25	2.74	0.92		0.00	
30	0.00	3.72	62.98	131.76	331.04	257.33	35.75	6.25	2.66	0.92		0.00	
31		2.90		120.19	486.28		32.42		2.49	0.92		0.00	
Total	0.00	28.47	490.98	8861.72	8736.20	18805.39	4255.85	382.05	142.78	42.93	22.06	1.92	41770.36 Ton
Mean	0.00	0.92	16.37	285.86	281.81	626.85	137.29	12.74	4.61	1.38	0.79	0.06	
Max	0.00	4.89	62.98	713.74	573.40	918.40	305.76	28.18	6.76	2.33	1.38	0.48	918.40
Min	0.00	0.00	3.39	28.18	108.70	238.16	32.42	5.57	2.49	0.92	0.19	0.00	0.00

WATER YEAR 1993

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 Sanam Chai Khet, 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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:11:47.20 LQS/LQSO2D/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
1.22680
QS = 2.9497 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	0.13	5.66	581.76	17.81	926.49	190.76	5.33	1.08	0.46	0.31	0.22	
2	0.22	0.13	7.33	676.83	15.37	1912.45	192.40	5.01	0.96	0.43	0.31	0.20	
3	0.24	0.11	14.39	334.32	15.37	1931.15	130.82	4.54	0.96	0.43	0.31	0.20	
4	0.31	0.09	10.89	378.47	167.64	792.73	90.96	4.22	0.90	0.41	0.31	0.20	
5	0.34	0.09	10.66	474.17	346.94	540.04	117.81	4.07	0.90	0.41	0.31	0.20	
6	0.31	0.07	8.19	182.81	148.09	317.13	199.00	3.61	0.79	0.41	0.29	0.17	
7	0.29	0.13	6.32	109.85	112.11	175.08	274.47	3.39	0.84	0.36	0.29	0.17	
8	0.26	0.09	5.33	75.93	149.43	122.98	144.07	3.17	0.79	0.36	0.26	0.17	
9	0.24	0.07	4.07	52.05	341.88	93.15	96.45	2.95	0.73	0.36	0.26	0.17	
10	0.22	0.07	6.15	38.98	389.51	71.73	117.81	2.73	0.73	0.36	0.31	0.17	
11	0.22	0.09	6.48	30.53	240.17	110.98	47.78	2.52	0.67	0.36	0.31	0.17	
12	0.15	0.09	4.85	26.35	169.10	487.16	47.78	2.42	0.65	0.36	0.31	0.15	
13	0.13	0.09	3.84	24.25	97.55	314.73	76.98	2.11	0.62	0.36	0.31	0.15	
14	0.11	0.07	3.28	25.33	63.46	157.54	84.45	2.21	0.62	0.31	0.31	0.13	
15	0.11	0.09	3.17	21.04	40.38	214.48	90.96	2.00	0.57	0.31	0.31	0.13	
16	0.09	0.09	36.20	18.16	28.93	346.94	78.04	1.90	0.57	0.31	0.31	0.11	
17	0.11	0.09	117.81	21.40	26.35	411.94	55.52	1.77	0.54	0.31	0.29	0.13	
18	0.96	0.09	38.98	23.77	47.78	603.27	62.57	1.64	0.54	0.29	0.26	0.24	
19	1.14	1.02	21.77	28.93	34.14	523.22	51.19	1.58	0.51	0.24	0.26	0.24	
20	0.90	1.77	17.10	28.37	89.87	550.30	33.46	1.51	0.49	0.22	0.24	0.22	
21	0.54	2.95	27.88	105.34	287.33	496.95	25.33	1.45	0.49	0.20	0.22	0.22	
22	0.36	5.98	106.47	319.54	282.95	346.94	20.31	1.39	0.46	0.17	0.24	0.22	
23	0.29	5.17	352.01	285.14	160.42	240.17	15.37	1.32	0.51	0.22	0.24	0.22	
24	0.24	3.17	334.32	200.66	126.89	197.35	12.67	1.32	0.51	0.22	0.29	0.22	
25	0.34	2.42	232.69	115.52	248.03	614.32	11.12	1.20	0.51	0.22	0.29	0.22	
26	0.36	1.84	124.28	81.24	370.50	432.23	9.98	1.20	0.49	0.17	0.26	0.22	
27	0.26	3.17	71.73	52.92	729.99	397.83	8.86	1.20	0.49	0.20	0.26	0.22	
28	0.29	14.68	40.38	32.78	409.06	302.76	7.98	1.14	0.46	0.20	0.22	0.22	
29	0.22	14.68	36.89	24.25	190.76	305.15	7.16	1.14	0.46	0.36		0.22	
30	0.15	9.98	200.66	21.04	128.19	240.17	6.65	1.02	0.46	0.36		0.22	
31		5.66		19.59	307.54		5.98		0.46	0.34		0.24	
Total	9.64	74.17	1859.78	4411.32	5783.54	14177.36	2314.69	71.06	19.76	9.72	7.89	5.98	28744.91 Ton
Mean	0.32	2.39	61.99	142.30	186.57	472.58	74.67	2.37	0.64	0.31	0.28	0.19	
Max	1.14	14.68	352.01	676.83	729.99	1931.15	274.47	5.33	1.08	0.46	0.31	0.24	1931.15
Min	0.09	0.07	3.17	18.16	15.37	71.73	5.98	1.02	0.46	0.17	0.22	0.11	0.07

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:11:55.41 LQS/LQSO2D/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
0.90026
QS = 23.8019 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.03	14.58	60.14	794.45	21.65	67.82	56.26	15.93	2.99	1.31	0.00	0.00	
2	15.03	13.21	66.87	587.37	20.78	270.89	37.56	15.48	4.57	1.31	0.00	0.00	
3	14.58	11.37	73.52	359.28	19.91	321.94	41.21	15.03	6.09	1.31	0.00	0.00	
4	14.12	10.90	48.40	221.25	18.15	162.74	40.00	14.58	6.59	1.31	0.00	0.00	
5	13.67	9.49	51.37	148.82	20.34	141.80	210.51	8.05	5.59	1.31	0.00	0.00	
6	13.21	8.05	31.39	96.60	19.47	91.45	267.94	6.09	4.05	1.31	0.00	2.17	
7	16.82	7.57	32.64	78.23	22.51	53.33	281.18	9.01	3.53	1.31	0.00	4.31	
8	15.93	9.01	26.36	52.35	19.91	45.42	226.60	18.59	3.26	1.31	0.00	2.45	
9	17.71	8.53	41.21	42.42	23.37	41.82	101.73	19.91	3.53	1.31	0.00	2.99	
10	16.37	8.53	40.00	36.34	25.51	34.49	60.14	19.91	4.05	1.31	0.00	0.70	
11	14.12	8.53	36.95	33.26	32.64	30.14	133.33	18.59	4.57	1.31	0.00	0.00	
12	12.29	7.81	36.95	32.64	29.31	125.70	104.28	18.15	4.05	1.31	0.00	0.00	
13	10.43	6.59	28.05	31.39	23.80	104.28	144.61	17.71	4.57	1.31	4.57	0.00	
14	10.90	25.51	47.41	30.14	17.71	53.33	161.35	16.82	4.57	1.31	7.57	0.00	
15	11.37	23.80	35.73	28.89	17.71	78.23	144.61	7.32	3.79	0.38	8.53	0.00	
16	18.15	18.59	74.47	25.93	16.37	157.19	124.45	7.32	2.72	0.00	6.09	0.00	
17	38.17	16.37	197.00	44.42	15.93	159.97	129.43	6.83	2.45	1.31	4.05	0.00	
18	25.08	15.48	60.14	76.35	15.93	183.38	183.38	6.34	2.72	1.31	2.99	0.00	
19	35.73	17.71	32.64	34.49	19.47	182.01	116.93	6.09	2.72	1.31	1.60	0.00	
20	26.78	25.93	32.02	27.20	16.37	155.80	188.84	6.09	2.45	1.31	3.26	0.00	
21	18.15	18.15	67.82	40.61	28.47	140.39	162.74	5.84	1.31	1.31	3.53	0.00	
22	16.37	20.78	259.08	143.21	30.77	77.29	137.58	5.08	1.31	1.31	3.53	0.00	
23	15.93	22.51	504.67	65.91	27.63	61.11	50.38	4.05	1.31	1.31	2.45	0.00	
24	14.58	25.51	436.31	90.16	19.47	47.41	23.37	2.99	1.31	1.31	1.31	0.00	
25	18.15	20.34	197.00	81.05	29.73	77.29	21.65	1.89	1.31	0.00	0.00	0.00	
26	26.36	48.40	81.05	54.31	60.14	61.11	19.91	1.31	1.31	0.38	0.00	0.00	
27	22.08	48.40	53.33	33.26	84.96	78.23	18.59	1.31	1.01	0.70	0.00	0.00	
28	15.48	83.66	41.82	27.20	37.56	128.19	32.02	1.31	1.01	0.70	0.00	0.00	
29	14.12	329.16	82.35	24.66	26.78	158.58	17.26	2.17	1.31	0.00		0.00	
30	14.12	226.60	568.41	23.80	23.37	78.23	16.37	2.72	1.60	0.00		0.00	
31		75.41		22.51	22.94		17.26		1.89	0.00		0.00	
Total	530.83	1186.48	3345.10	3388.50	808.66	3369.56	3271.47	282.51	93.54	30.98	49.48	12.62	16369.73 Ton
Mean	17.69	38.27	111.50	109.31	26.09	112.32	105.53	9.42	3.02	1.00	1.77	0.41	
Max	38.17	329.16	568.41	794.45	84.96	321.94	281.18	19.91	6.59	1.31	8.53	4.31	794.45
Min	10.43	6.59	26.36	22.51	15.93	30.14	16.37	1.31	1.01	0.00	0.00	0.00	0.00

WATER YEAR 1994

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.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1978 - 1986 , 1994
Actual Measurement	1978 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1994

RID Computer Center, Processing : 16-AUG-1996 11:55:44.07 LQS/LQSO2D/12

Station - Ban Puk, Makham, Chanthaburi, (Z.13)
Stream - Chanthaburi
River - Chanthaburi
River System - East Coast-Gulf

Royal Irrigation Department
Thailand
Hydrology Division
1.68163
QS = 0.2674 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.86	133.03	3028.07	1235.51	2486.00	299.07	29.52	0.67	0.05	0.00	0.00	
2	0.00	0.93	165.69	3097.61	2949.39	2021.55	251.23	25.97	0.62	0.05	0.00	0.00	
3	0.00	1.01	518.88	1658.31	2114.73	1560.36	212.19	23.44	0.57	0.04	0.00	0.00	
4	0.00	1.08	635.94	797.28	1279.13	1291.71	204.17	18.69	0.52	0.04	0.00	0.00	
5	0.00	1.17	771.55	518.88	1342.51	1192.51	333.90	17.21	0.48	0.04	0.00	0.00	
6	0.01	1.25	598.58	390.73	844.46	711.19	289.85	15.78	0.44	0.03	0.00	0.00	
7	0.02	1.33	473.29	308.42	678.53	518.88	251.23	13.72	0.40	0.03	0.00	0.00	
8	0.04	1.42	308.42	268.78	644.37	440.22	212.19	13.06	0.37	0.03	0.00	0.00	
9	0.06	1.51	265.82	231.38	731.09	390.73	214.89	10.56	0.34	0.02	0.00	0.00	
10	0.08	1.60	366.89	236.98	721.11	370.26	174.30	9.97	0.31	0.02	0.00	0.00	
11	0.10	1.70	327.45	220.33	751.21	488.30	151.04	8.83	0.29	0.02	0.00	0.00	
12	0.11	2.20	225.83	274.73	534.45	262.88	155.17	7.32	0.27	0.02	0.00	0.00	
13	0.13	2.75	194.33	366.89	408.13	761.35	198.90	6.39	0.25	0.02	0.00	0.00	
14	0.15	3.35	204.17	823.36	346.95	652.84	212.19	5.08	0.22	0.02	0.00	0.00	
15	0.16	4.00	242.64	265.82	283.76	511.16	183.09	4.28	0.21	0.01	0.00	0.00	
16	0.18	5.75	495.87	373.64	236.98	443.85	153.10	2.94	0.19	0.01	0.00	0.00	
17	0.20	7.74	380.44	324.25	321.06	582.27	136.95	2.94	0.17	0.01	0.00	0.00	
18	0.22	9.97	530.54	422.27	373.64	942.09	121.53	2.94	0.16	0.01	0.00	0.00	
19	0.25	12.42	425.84	1055.59	380.44	701.33	108.67	2.94	0.15	0.01	0.00	0.00	
20	0.27	15.08	1229.33	1162.17	534.45	792.11	96.39	2.35	0.14	0.01	0.00	0.00	
21	0.31	19.97	1198.61	1038.23	458.47	602.69	87.99	2.07	0.12	0.01	0.00	0.00	
22	0.36	37.80	1067.23	594.49	330.67	480.77	79.90	1.57	0.11	0.01	0.00	0.00	
23	0.42	68.26	1235.51	495.87	274.73	741.12	73.66	1.33	0.10	0.01	0.00	0.00	
24	0.47	91.31	1705.05	534.45	440.22	766.44	69.11	1.33	0.10	0.01	0.00	0.00	
25	0.53	78.32	1533.25	462.16	1156.14	887.32	60.38	1.12	0.09	0.01	0.00	0.00	
26	0.59	123.42	844.46	451.14	2089.15	606.81	49.86	1.03	0.08	0.01	0.00	0.00	
27	0.65	172.13	619.23	360.19	1946.58	507.32	45.45	0.95	0.08	0.01	0.00	0.00	
28	0.72	123.42	436.61	302.18	1038.23	397.66	41.21	0.86	0.07	0.00	0.00	0.00	
29	0.79	115.95	440.22	265.82	726.09	447.49	37.14	0.79	0.06	0.00		0.00	
30	0.86	121.53	1666.06	277.73	781.80	340.40	34.20	0.73	0.06	0.00		0.00	
31		129.15		274.73	1650.57		30.43		0.05	0.00		0.00	
Total	7.68	1158.38	19240.76	20882.48	27604.55	22899.61	4569.38	235.71	7.69	0.56	0.00	0.00	96606.81 Ton
Mean	0.26	37.37	641.36	673.63	890.47	763.32	147.40	7.86	0.25	0.02	0.00	0.00	
Max	0.86	172.13	1705.05	3097.61	2949.39	2486.00	333.90	29.52	0.67	0.05	0.00	0.00	3097.61
Min	0.00	0.86	133.03	220.33	236.98	262.88	30.43	0.73	0.05	0.00	0.00	0.00	0.00

WATER YEAR 1994

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
Actual Measurement	1994
Remarks	Continued Sediment Station Using Rating Curve Water Year 1994

RID Computer Center, Processing : 20-AUG-1996 10:32:02.95

LQS/LQS02D/12

Station - Ban Chaman, Makham, Chanthaburi, (Z.14)
Stream - Khlong Phayat
River - Chanthaburi
River System - East Coast-Gulf

Royal Irrigation Department
Thailand
Hydrology Division

1.48634
QS = 0.8750 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.04	2.10	26.81	736.19	4788.58	1454.30	162.21	21.28	10.09	3.62	2.45	3.83	
2	3.62	1.86	54.77	434.99	4157.78	728.66	129.03	19.67	9.68	3.62	2.45	3.02	
3	3.62	1.86	997.49	403.25	1094.61	584.22	135.14	18.67	8.90	3.42	1.98	2.82	
4	3.83	2.10	395.43	220.08	1037.69	908.66	129.03	18.67	9.29	3.42	1.86	1.20	
5	2.27	2.27	180.63	129.03	1069.75	459.31	160.63	18.18	8.51	2.64	1.63	3.21	
6	2.64	1.98	117.03	97.04	937.97	344.66	165.52	16.73	8.51	3.02	1.41	2.10	
7	2.82	1.98	95.65	111.20	988.91	291.51	154.09	17.21	5.63	2.45	1.31	3.02	
8	2.10	3.02	123.01	73.90	822.59	310.50	136.70	15.78	8.13	2.64	1.31	2.45	
9	1.98	3.42	30.48	71.80	751.32	234.68	124.46	15.31	7.75	2.10	2.27	1.31	
10	1.86	4.66	82.49	141.41	543.42	222.15	123.01	15.78	5.97	2.45	1.10	1.31	
11	1.52	36.78	68.68	98.44	379.96	253.89	106.91	15.31	7.75	2.45	0.85	1.20	
12	1.52	19.17	47.30	215.97	308.10	200.23	78.16	13.94	7.75	2.45	2.10	2.10	
13	1.74	16.25	38.47	484.05	280.27	667.42	59.62	13.05	9.29	2.64	2.27	2.10	
14	1.98	10.49	33.52	826.62	367.22	296.22	51.93	13.49	5.63	2.27	2.10	2.10	
15	1.98	10.49	41.06	612.96	236.79	390.26	50.99	13.05	7.39	2.27	2.45	1.63	
16	3.02	9.29	70.75	349.63	198.39	543.42	43.70	13.05	7.02	1.98	1.74	1.31	
17	3.42	11.75	87.14	342.18	584.22	660.36	48.21	12.61	7.02	2.10	2.10	1.41	
18	3.02	31.23	120.01	379.96	372.30	790.55	50.99	13.05	6.31	1.63	2.27	1.41	
19	5.63	39.33	80.31	1409.05	374.85	411.11	55.73	12.18	6.67	1.86	2.45	2.64	
20	4.35	28.26	497.98	1910.38	395.43	467.51	36.78	11.75	6.67	1.63	2.27	3.21	
21	7.02	48.21	470.25	988.91	347.14	398.03	36.78	12.18	6.31	1.74	2.27	1.86	
22	3.21	22.47	224.22	437.67	196.55	369.76	32.75	9.68	5.63	1.74	2.27	1.86	
23	2.45	18.67	315.30	349.63	192.89	362.17	31.23	11.75	4.98	1.86	2.45	1.98	
24	3.02	16.73	798.52	379.96	429.64	587.39	26.81	11.33	4.66	2.10	3.21	1.98	
25	2.45	12.18	578.34	260.41	1573.46	315.30	28.99	10.91	4.35	2.27	2.82	1.41	
26	2.10	14.39	224.22	191.07	1611.52	282.50	24.92	10.49	4.04	2.45	2.82	3.83	
27	2.10	16.25	141.41	163.86	770.73	269.18	24.92	9.29	3.83	2.45	2.82	3.62	
28	2.64	14.39	124.46	165.52	581.28	205.80	23.69	8.90	4.04	2.45	3.02	3.83	
29	2.45	16.25	273.60	133.59	724.91	182.35	23.08	9.29	4.98	2.45		3.21	
30	2.27	31.23	1846.04	271.38	632.92	165.52	21.28	10.09	5.63	2.10		3.42	
31		24.30		256.06	4707.07		21.28		4.04	2.64		3.02	
Total	86.67	473.36	8185.37	12646.19	31458.27	13357.62	2298.57	412.67	206.45	74.91	60.05	73.40	69333.52 Ton
Mean	2.89	15.27	272.85	407.94	1014.78	445.25	74.15	13.76	6.66	2.42	2.14	2.37	
Max	7.02	48.21	1846.04	1910.38	4788.58	1454.30	165.52	21.28	10.09	3.62	3.21	3.83	4788.58
Min	1.52	1.86	26.81	71.80	192.89	165.52	21.28	8.90	3.83	1.63	0.85	1.20	0.85

WATER YEAR 1994

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
Actual Measurement	1994
Remarks	Continued Sediment Station Using Rating Curve Water Year 1994

RID Computer Center, Processing : 9-AUG-1996 11:11:16.50

LQS/LQSO2D/12

Station - Ban Pak Phraek, A. Pluak Daeng, Rayong, (Z.15)
Stream - Khlong Yai
River - Khlong Yai
River System - East Coast-Gulf

Royal Irrigation Department
Thailand
Hydrology Division
1.29510
QS = 6.4100 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.18	0.32	1.18	268.80	3.45	242.65	82.64	7.42	12.74	0.32	0.32	0.00	
2	0.80	0.24	1.47	85.32	3.03	117.85	42.13	7.25	89.39	0.32	0.28	0.00	
3	0.60	0.13	2.89	151.21	2.61	49.41	204.98	6.24	15.02	0.32	0.28	0.00	
4	0.55	0.10	2.89	242.65	2.61	22.65	107.48	6.08	5.11	0.41	0.24	0.00	
5	0.28	0.07	2.61	123.36	2.48	13.53	66.10	5.59	4.04	0.41	0.24	0.00	
6	0.24	0.04	4.04	40.11	2.48	11.02	126.13	5.43	3.60	0.41	0.20	0.00	
7	0.75	0.02	2.21	29.97	2.89	9.45	151.21	5.27	3.17	0.46	0.20	0.00	
8	0.60	1.18	1.47	23.98	11.31	27.40	105.59	4.80	2.61	0.46	0.17	0.00	
9	1.47	5.92	1.29	18.74	4.96	24.66	63.01	4.65	2.48	0.46	0.13	0.00	
10	0.75	12.07	15.32	15.02	3.45	12.55	40.61	4.34	2.21	0.55	0.10	0.00	
11	0.46	2.48	44.70	13.04	5.92	25.68	32.47	4.04	1.96	0.55	0.10	0.00	
12	0.32	1.06	28.79	12.74	5.27	92.12	29.50	3.89	1.83	0.75	0.10	0.00	
13	0.20	0.65	7.86	12.55	3.03	62.46	56.93	3.74	1.77	0.75	0.07	0.00	
14	0.13	0.46	5.11	11.31	2.34	151.21	115.12	3.74	1.65	0.75	0.07	0.00	
15	0.10	0.80	4.19	9.73	2.08	69.52	42.65	3.31	1.59	0.65	0.04	0.00	
16	0.10	0.46	3.89	8.38	1.83	48.88	28.79	3.03	1.59	0.65	0.02	0.00	
17	0.07	0.32	3.31	7.68	1.65	29.50	27.05	2.89	1.47	0.65	0.02	0.00	
18	0.04	0.32	2.61	7.42	1.59	98.11	82.64	2.75	1.47	0.60	0.00	0.00	
19	0.13	0.65	2.34	7.25	4.49	225.69	55.84	2.61	1.18	0.60	0.00	0.02	
20	24.32	18.11	14.12	6.41	49.94	61.34	25.68	2.48	1.06	0.60	0.00	0.28	
21	4.49	2.61	43.67	5.75	14.42	31.15	21.98	2.48	0.96	0.60	0.00	0.32	
22	1.18	1.83	33.68	6.66	5.92	23.31	18.74	2.21	0.90	0.60	0.00	0.24	
23	0.65	1.59	18.74	9.00	3.60	19.38	15.93	2.08	0.80	0.55	0.00	0.17	
24	0.60	1.23	9.91	7.08	4.04	89.39	13.82	2.08	0.75	0.55	0.00	0.10	
25	0.60	0.90	9.18	5.27	72.10	504.36	12.74	1.96	0.65	0.55	0.00	0.07	
26	0.55	1.06	6.83	5.43	28.10	184.74	11.59	1.96	0.60	0.46	0.00	0.04	
27	0.55	3.89	6.83	4.49	8.56	89.39	10.65	1.77	0.55	0.46	0.00	0.04	
28	0.55	9.45	5.59	4.04	5.59	61.34	9.91	1.65	0.46	0.46	0.00	0.02	
29	0.46	2.34	28.10	3.45	4.65	44.70	9.18	1.47	0.41	0.41		0.02	
30	0.46	1.83	131.73	3.45	5.27	66.10	8.12	1.41	0.41	0.41		0.02	
31		1.41		3.60	34.65		7.68		0.32	0.41		0.02	
Total	43.18	73.54	446.55	1153.89	304.31	2509.54	1626.89	108.62	162.75	16.13	2.58	1.36	6449.34 Ton
Mean	1.44	2.37	14.88	37.22	9.82	83.65	52.48	3.62	5.25	0.52	0.09	0.04	
Max	24.32	18.11	131.73	268.80	72.10	504.36	204.98	7.42	89.39	0.75	0.32	0.32	504.36
Min	0.04	0.02	1.18	3.45	1.59	9.45	7.68	1.41	0.32	0.32	0.00	0.00	0.00

WATER YEAR 1994

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
Actual Measurement	1994
Remarks	Continued Sediment Station Using Rating Curve Water Year 1994

RID Computer Center, Processing : 9-AUG-1996 11:11:23.03 LQS/LQSO2D/12

Station - Ban Rong Sen, Makham, Chanthaburi, (Z.21)
Stream - Khlong Hindad
River - Khlong Hindad
River System - East Coast-Gulf

Royal Irrigation Department
Thailand
Hydrology Division
QS = 1.5704 QW 1.56626

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.03	4.26	15.99	190.46	4739.63	587.30	213.23	6.03	3.06	1.09	0.76	2.57	
2	4.69	3.84	25.72	86.41	947.37	389.31	57.48	6.03	2.87	1.09	0.86	1.33	
3	4.69	2.72	272.19	127.95	394.02	311.54	145.25	6.03	2.57	1.20	0.86	1.09	
4	5.71	3.61	102.40	90.21	1441.57	297.01	142.73	5.71	2.72	0.98	0.76	0.98	
5	4.05	3.61	42.39	54.62	379.97	224.96	222.00	5.40	2.57	1.09	0.76	1.09	
6	4.05	3.61	41.10	43.70	1145.43	213.23	176.70	5.40	2.57	0.98	0.98	0.98	
7	6.03	2.72	29.04	35.18	778.06	190.46	155.48	5.40	2.57	1.09	0.86	0.76	
8	4.47	3.41	31.62	33.38	581.86	210.33	147.78	5.17	2.12	0.98	0.76	5.40	
9	6.03	6.03	33.38	37.33	456.99	171.31	140.22	4.95	5.40	0.98	0.67	2.12	
10	0.48	7.36	34.28	75.76	311.54	168.63	132.81	4.95	2.26	0.86	0.00	6.03	
11	1.20	15.42	23.33	96.02	268.71	176.70	130.37	4.69	2.26	0.86	0.67	0.14	
12	2.87	13.24	19.53	106.89	239.94	160.70	37.33	4.47	2.12	0.86	0.58	0.48	
13	3.41	15.42	15.99	587.30	216.14	222.00	12.71	4.47	7.36	1.09	0.58	0.14	
14	3.61	9.24	13.77	239.94	293.42	174.00	14.32	4.26	1.85	0.86	0.67	3.06	
15	3.21	4.69	17.73	236.91	198.89	487.18	12.19	4.26	1.98	0.98	3.41	2.43	
16	3.06	7.70	23.33	168.63	187.68	477.04	11.17	3.84	1.98	0.98	0.48	2.57	
17	3.41	13.24	45.01	130.37	571.04	472.00	16.56	3.61	1.85	0.98	0.58	7.70	
18	3.41	34.28	45.01	219.06	275.69	417.84	37.33	3.84	1.98	0.86	0.48	0.19	
19	12.71	26.53	100.19	649.59	330.06	297.01	11.17	3.61	1.85	0.98	0.48	0.86	
20	10.19	21.78	158.08	1237.92	279.21	326.32	10.19	3.61	1.45	0.76	0.58	9.24	
21	11.17	18.32	198.89	300.62	230.91	252.17	9.71	5.17	1.85	0.86	0.48	2.72	
22	4.05	14.32	84.53	227.92	193.25	307.89	8.78	3.61	1.70	0.76	0.58	0.40	
23	4.05	13.77	315.21	158.08	182.16	300.62	8.41	3.41	1.45	0.67	0.86	3.06	
24	0.98	9.71	403.49	106.89	398.74	384.63	8.05	3.21	1.20	0.67	0.86	5.40	
25	9.24	7.36	163.33	90.21	900.01	198.89	8.05	3.06	1.20	0.86	0.86	0.14	
26	10.68	10.19	78.98	72.59	785.50	190.46	7.36	2.87	1.09	0.76	0.76	2.72	
27	4.95	11.68	64.88	66.40	398.74	184.91	7.36	2.87	1.09	0.86	0.58	1.45	
28	4.26	10.19	63.37	69.47	528.51	193.25	7.01	2.57	1.20	1.20	0.86	1.45	
29	4.95	10.19	979.43	82.67	705.16	168.63	7.01	5.17	1.20	1.20		1.20	
30	4.47	15.99	571.04	137.73	518.07	165.97	6.68	2.72	1.20	1.20		1.20	
31		14.32		193.25	2042.04		6.35		1.20	1.20		0.86	
Total	152.11	338.75	4013.23	5953.46	20920.31	8322.29	1911.79	130.39	67.77	29.79	21.62	69.76	41931.27 Ton
Mean	5.07	10.93	133.77	192.05	674.85	277.41	61.67	4.35	2.19	0.96	0.77	2.25	
Max	12.71	34.28	979.43	1237.92	4739.63	587.30	222.00	6.03	7.36	1.20	3.41	9.24	4739.63
Min	0.48	2.72	13.77	33.38	182.16	160.70	6.35	2.57	1.09	0.67	0.00	0.14	0.00

WATER YEAR 1994

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.
Drainage Area	250 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1994
Actual Measurement	1994
Remarks	Continued Sediment Station Using Rating Curve Watér Year 1994

RID Computer Center, Processing : 20-AUG-1996 11:01:25.24

LQS/LQSO2D/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
1.22033
QS = 1.1150 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.138	0.022	1.088	0.236	1.034	0.278	1.142	1.253	0.176	0.036	0.022	0.004	
2	0.119	0.036	2.254	0.176	1.829	0.278	0.928	1.197	0.176	0.029	0.022	0.004	
3	0.823	0.236	1.755	0.278	1.755	0.257	0.772	1.034	0.156	0.029	0.022	0.009	
4	0.398	0.022	1.197	0.176	1.393	0.257	0.647	0.875	0.176	0.029	0.015	0.004	
5	0.176	0.015	0.928	0.128	1.088	0.215	0.610	0.823	0.138	0.092	0.022	0.004	
6	0.119	0.015	0.823	0.101	0.772	0.176	0.647	0.772	0.128	0.092	0.022	0.004	
7	0.101	0.022	0.772	0.092	0.875	0.156	0.823	0.722	0.176	0.036	0.022	0.004	
8	0.075	0.092	0.610	0.092	1.088	0.156	0.684	0.684	0.156	0.036	0.022	0.004	
9	0.051	0.022	0.574	0.101	1.393	0.138	0.647	0.647	0.138	0.029	0.022	0.009	
10	0.036	0.022	0.502	0.128	1.197	0.138	0.502	0.610	0.128	0.051	0.022	0.009	
11	0.036	0.029	0.502	0.156	1.088	0.138	0.502	0.538	0.101	0.036	0.015	0.009	
12	0.029	0.022	0.364	0.215	0.875	0.138	0.574	0.467	0.092	0.036	0.022	0.004	
13	0.029	0.022	0.364	0.299	1.197	0.119	1.322	0.467	0.101	0.036	0.022	0.004	
14	0.022	0.022	0.320	0.236	0.772	0.156	5.197	0.398	0.101	0.101	0.015	0.004	
15	0.029	0.015	0.320	0.195	0.610	0.138	11.194	0.364	0.138	0.036	0.015	0.004	
16	0.036	1.034	0.299	0.176	0.574	0.128	8.849	0.320	0.119	0.036	0.015	0.004	
17	0.051	0.320	0.320	0.176	0.610	0.128	9.506	0.299	0.119	0.092	0.015	0.004	
18	0.051	0.119	0.278	0.176	0.538	0.156	5.869	0.278	0.156	0.036	0.009	0.004	
19	0.022	1.393	0.299	0.215	0.467	0.156	4.244	0.278	0.128	0.067	0.009	0.004	
20	0.022	4.875	0.320	0.342	0.467	0.128	3.495	0.278	0.119	0.036	0.015	0.004	
21	0.075	2.347	0.320	0.257	0.364	0.128	12.487	0.278	0.092	0.029	0.009	0.004	
22	0.036	1.755	0.342	0.195	0.342	0.075	6.425	0.257	0.075	0.036	0.015	0.004	
23	0.029	1.464	0.278	0.156	0.299	0.138	4.716	0.236	0.101	0.029	0.009	0.004	
24	0.022	1.755	0.215	0.128	0.278	0.128	3.730	0.236	0.067	0.029	0.009	0.004	
25	0.022	1.142	0.215	0.119	0.320	0.299	3.147	0.195	0.051	0.022	0.009	0.036	
26	0.022	0.875	0.156	0.101	0.398	0.467	2.630	0.176	0.051	0.029	0.009	0.022	
27	0.022	0.722	0.176	0.101	0.610	0.467	2.254	0.195	0.092	0.029	0.004	0.022	
28	0.015	2.918	0.138	0.092	0.398	0.538	1.979	0.215	0.092	0.036	0.004	0.015	
29	0.015	2.440	0.128	0.119	0.342	0.684	1.755	0.195	0.051	0.029		0.015	
30	0.015	1.903	0.176	0.364	0.320	0.875	1.608	0.156	0.092	0.022		0.022	
31		1.681		0.538	0.278		1.393		0.036	0.022		0.022	
Total	2.636	27.357	16.033	5.864	23.571	7.233	100.278	14.443	3.522	1.283	0.433	0.270	202.923 Ton
Mean	0.088	0.882	0.534	0.189	0.760	0.241	3.235	0.481	0.114	0.041	0.015	0.009	
Max	0.823	4.875	2.254	0.538	1.829	0.875	12.487	1.253	0.176	0.101	0.022	0.036	12.487
Min	0.015	0.015	0.128	0.092	0.278	0.075	0.502	0.156	0.036	0.022	0.004	0.004	0.004

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 20-AUG-1996 11:00:41.10

LQS/LQSO2D/12

Station - Ban Kariang, Tha Yang, Phetchaburi, (B.8)
Stream - Huai Phak
River - Phetchaburi
River System - Phetchaburi River

Royal Irrigation Department
Thailand
Hydrology Division
1.41876
QS = 3.9659 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	5.381	8.420	2.488	0.587	5.629	1.483	0.173	0.057	0.000	0.000	
2	0.000	0.000	4.658	5.137	13.571	0.587	3.743	1.318	0.173	0.057	0.000	0.000	
3	0.000	0.000	4.895	6.719	9.859	0.524	2.488	1.158	0.196	0.057	0.000	0.000	
4	0.000	0.000	4.423	3.743	6.392	0.404	2.687	1.005	0.196	0.073	0.000	0.000	
5	0.000	0.000	3.097	2.488	4.658	0.376	8.420	0.858	0.173	0.057	0.000	0.000	
6	0.000	0.000	2.295	1.742	3.523	0.348	6.392	0.652	0.173	0.027	0.000	0.000	
7	0.000	0.000	1.742	1.483	2.890	0.321	4.193	0.587	0.173	0.015	0.000	0.000	
8	0.000	0.000	1.568	1.400	2.488	0.321	2.687	0.524	0.173	0.006	0.000	0.000	
9	0.000	0.000	1.400	1.400	1.921	0.348	1.921	0.463	0.151	0.000	0.000	0.000	
10	0.000	0.000	1.237	1.318	1.655	0.321	1.655	0.348	0.130	0.000	0.000	0.000	
11	0.000	0.000	1.158	1.318	1.400	0.269	1.400	0.348	0.130	0.000	0.000	0.000	
12	0.000	0.000	1.005	1.318	1.318	0.348	1.318	0.376	0.110	0.000	0.000	0.000	
13	0.000	0.000	0.858	1.318	1.318	2.295	18.670	0.376	0.130	0.000	0.000	0.000	
14	0.000	0.000	0.719	1.318	1.081	1.568	43.395	0.348	0.130	0.000	0.000	0.000	
15	0.000	0.000	0.524	1.237	0.931	1.158	77.138	0.295	0.130	0.000	0.000	0.000	
16	0.000	0.000	0.376	1.237	0.931	0.931	40.684	0.269	0.130	0.000	0.000	0.000	
17	0.000	0.000	0.348	1.081	0.858	0.858	37.151	0.219	0.130	0.000	0.000	0.000	
18	0.000	0.000	0.376	0.931	0.931	1.158	18.670	0.244	0.130	0.000	0.000	0.000	
19	0.000	0.000	0.321	0.931	0.931	0.719	9.859	0.219	0.130	0.000	0.000	0.000	
20	0.000	0.000	0.376	1.081	0.788	0.587	23.646	0.219	0.130	0.000	0.000	0.000	
21	0.000	0.000	0.348	1.158	0.719	0.463	121.234	0.219	0.130	0.000	0.000	0.000	
22	0.000	0.173	0.348	1.158	0.587	0.404	41.582	0.219	0.110	0.000	0.000	0.000	
23	0.000	1.400	0.321	0.931	0.524	0.524	19.205	0.219	0.110	0.000	0.000	0.000	
24	0.000	1.318	0.295	0.788	0.524	0.587	11.210	0.196	0.110	0.000	0.000	0.000	
25	0.000	1.400	0.269	0.719	0.587	22.982	7.385	0.219	0.110	0.000	0.000	0.000	
26	0.000	1.568	0.244	0.652	0.587	24.991	5.137	0.196	0.110	0.000	0.000	0.000	
27	0.000	15.553	0.219	0.587	0.524	9.131	3.743	0.196	0.091	0.000	0.000	0.000	
28	0.000	14.059	0.376	0.463	0.524	4.658	2.890	0.173	0.091	0.000	0.000	0.000	
29	0.000	47.556	2.488	0.463	0.524	4.193	2.295	0.173	0.091	0.000		0.000	
30	0.000	21.670	22.982	0.587	0.463	5.137	1.831	0.173	0.073	0.000		0.000	
31		9.493		0.719	0.524		1.655		0.073	0.000		0.000	
Total	0.000	114.190	64.647	53.845	66.019	87.098	529.913	13.292	4.090	0.349	0.000	0.000	933.443 Ton
Mean	0.000	3.684	2.155	1.737	2.130	2.903	17.094	0.443	0.132	0.011	0.000	0.000	
Max	0.000	47.556	22.982	8.420	13.571	24.991	121.234	1.483	0.196	0.073	0.000	0.000	121.234
Min	0.000	0.000	0.219	0.463	0.463	0.269	1.318	0.173	0.073	0.000	0.000	0.000	0.000

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:10:35.65

LQS/LQSO2D/12

Station - Wang Yao, Bang Saphan, Prachuap, (GT.7)
Stream - Bang Saphan Yai
River - Bang Saphan Yai
River System - West Coast-Gulf

Royal Irrigation Department
Thailand
Hydrology Division
1.49248
QS = 3.7584 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	89.09	1.98	0.96	10.58	170.03	95.21	373.78	10.58	1.98	0.78	17.47	0.62	
2	51.28	1.98	1.14	14.58	510.68	188.09	165.70	9.41	1.98	0.78	10.58	0.62	
3	31.32	20.54	1.34	10.58	634.29	122.08	98.33	8.30	1.98	0.78	7.23	0.62	
4	25.43	6.21	1.34	7.23	407.53	80.16	80.16	8.30	1.98	0.78	5.24	0.62	
5	20.54	3.48	1.98	6.21	486.20	66.27	66.27	8.30	1.34	0.78	3.48	0.78	
6	17.47	2.69	1.34	8.30	615.49	63.68	108.20	7.23	1.34	0.78	2.69	0.78	
7	11.86	1.98	1.34	10.58	712.90	51.28	140.55	7.23	1.34	0.78	1.98	0.78	
8	9.41	1.98	1.14	31.32	596.88	44.27	74.38	6.21	1.34	0.62	1.98	0.78	
9	7.23	16.00	1.14	37.61	462.12	35.47	80.16	6.21	1.34	0.62	1.34	0.78	
10	6.21	16.00	1.34	152.96	280.84	29.31	51.28	6.21	1.34	0.62	1.34	0.62	
11	5.24	9.41	1.98	226.84	170.03	27.35	71.54	5.24	1.34	0.62	1.34	0.62	
12	4.33	11.86	1.34	98.33	111.62	56.13	48.90	5.24	1.34	0.62	1.34	0.62	
13	4.33	7.23	1.34	58.61	80.16	48.90	39.79	5.24	1.34	0.62	1.14	0.47	
14	3.48	5.24	1.14	39.79	61.13	39.79	29.31	5.24	1.34	2.69	1.14	0.34	
15	3.48	4.33	1.14	66.27	53.69	58.61	61.13	4.33	1.34	1.98	1.14	0.34	
16	3.48	3.48	1.14	71.54	46.57	242.64	95.21	4.33	1.14	1.14	1.14	0.34	
17	2.69	2.69	1.34	48.90	42.01	221.86	63.68	3.48	0.96	0.96	1.14	0.22	
18	23.76	2.69	0.96	35.47	37.61	415.19	42.01	3.48	0.62	0.96	0.96	0.12	
19	17.47	2.69	1.98	37.61	35.47	280.84	31.32	3.48	0.47	0.96	0.96	0.04	
20	7.23	2.69	29.31	152.96	33.38	170.03	31.32	3.48	0.22	0.78	0.96	0.12	
21	35.47	6.21	13.20	108.20	27.35	115.07	39.79	1.98	0.62	0.78	0.78	0.62	
22	9.41	4.33	20.54	111.62	23.76	83.10	44.27	1.98	1.14	0.78	0.78	0.47	
23	20.54	2.69	111.62	71.54	20.54	66.27	27.35	1.98	1.14	0.78	0.78	0.47	
24	9.41	1.98	80.16	48.90	20.54	51.28	23.76	1.98	1.14	0.78	0.78	0.34	
25	5.24	1.98	140.55	35.47	20.54	733.26	20.54	1.98	0.96	0.78	0.78	0.22	
26	11.86	1.34	66.27	29.31	18.98	258.79	17.47	1.98	0.96	1.34	0.78	0.12	
27	3.48	1.34	35.47	22.13	18.98	129.22	17.47	1.98	0.96	3.48	0.78	1.14	
28	1.98	1.14	22.13	20.54	22.13	86.08	16.00	1.98	0.96	1.34	0.78	0.78	
29	2.69	1.14	17.47	20.54	29.31	83.10	14.58	1.98	0.96	17.47		0.62	
30	2.69	1.14	17.47	20.54	161.42	470.10	13.20	1.98	0.96	422.90		1.14	
31		1.14		29.31	108.20		11.86		0.78	44.27		0.96	
Total	448.10	149.58	579.61	1644.37	6020.38	4413.43	1999.31	141.32	36.65	513.35	70.83	17.11	16034.04 Ton
Mean	14.94	4.83	19.32	53.04	194.21	147.11	64.49	4.71	1.18	16.56	2.53	0.55	
Max	89.09	20.54	140.55	226.84	712.90	733.26	373.78	10.58	1.98	422.90	17.47	1.14	733.26
Min	1.98	1.14	0.96	6.21	18.98	27.35	11.86	1.98	0.22	0.62	0.78	0.04	0.04

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:10:43.60 LQS/LQSO2D/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
1.28153
QS = 29.8901 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.94	0.99	0.99	4.29	281.86	63.48	196.10	1.97	0.81	0.08	41.84	3.80	
2	8.07	0.99	0.99	22.82	1091.75	68.04	70.34	1.17	0.64	0.08	26.11	3.80	
3	6.39	0.81	0.99	16.53	328.43	43.91	48.12	0.81	0.48	0.08	21.74	3.80	
4	5.85	0.48	1.17	8.07	254.57	33.77	41.84	0.81	0.48	0.08	19.62	3.32	
5	4.80	0.33	1.17	5.85	302.08	32.21	75.00	0.81	0.33	0.08	17.55	3.32	
6	4.80	0.48	1.17	5.85	328.43	32.21	142.35	1.37	0.48	0.08	16.53	3.32	
7	3.80	0.33	1.37	5.32	536.63	25.00	104.72	1.17	0.33	0.00	15.53	3.32	
8	3.32	3.80	1.17	5.85	465.49	20.67	50.26	1.17	0.33	0.00	13.57	2.85	
9	2.41	1.17	0.99	4.80	457.80	20.67	40.19	0.81	0.81	0.08	13.57	2.85	
10	1.97	1.17	2.85	4.80	291.93	15.53	32.21	0.99	0.33	0.08	10.74	2.85	
11	1.37	3.32	2.85	6.39	188.03	18.58	26.11	1.17	0.64	0.08	9.83	2.85	
12	1.17	2.41	2.41	7.22	148.86	12.61	18.58	0.99	5.32	0.00	8.94	2.85	
13	0.99	1.17	1.97	7.22	98.70	9.83	10.74	0.81	1.97	0.00	8.94	2.41	
14	1.37	0.99	1.37	12.61	72.66	11.67	8.07	0.64	0.64	0.81	8.94	2.41	
15	1.37	0.64	1.17	61.23	61.23	18.58	29.13	0.64	0.64	0.81	8.07	2.41	
16	1.56	0.48	0.99	59.00	54.59	43.91	40.19	0.48	0.48	4.29	7.22	2.41	
17	1.17	0.33	0.99	33.77	48.12	38.57	32.21	0.48	0.33	1.17	7.22	5.85	
18	1.17	0.48	0.81	16.53	41.84	48.12	22.82	0.64	0.33	0.33	6.39	5.32	
19	1.37	0.48	2.85	50.26	38.57	35.36	20.67	0.81	0.20	0.08	5.85	4.80	
20	1.56	0.33	8.07	79.72	35.36	26.11	17.55	0.81	0.20	0.08	5.85	4.29	
21	7.22	1.17	7.22	54.59	29.13	21.74	48.12	1.17	0.20	0.00	5.32	4.80	
22	4.29	2.41	21.74	86.91	21.74	20.67	26.11	0.81	0.20	0.00	4.80	3.32	
23	5.85	8.07	15.53	52.41	14.54	16.53	16.53	0.81	0.20	0.00	4.80	3.32	
24	4.29	4.29	8.94	33.77	16.53	16.53	13.57	0.48	0.08	0.00	4.80	2.85	
25	3.32	3.32	6.39	22.82	33.77	16.53	10.74	0.64	1.97	0.00	4.29	2.85	
26	2.41	2.41	5.85	18.58	32.21	46.00	6.39	0.48	7.22	0.00	4.29	1.97	
27	1.37	1.37	4.80	14.54	22.82	30.66	4.80	0.64	1.17	0.00	3.80	2.41	
28	1.17	1.97	4.29	8.07	35.36	23.91	3.80	0.81	0.48	0.00	3.80	1.97	
29	1.37	2.41	3.32	9.83	40.19	46.00	1.97	0.81	0.33	48.12		1.17	
30	1.37	1.37	4.29	13.57	75.00	113.89	1.37	0.81	0.20	725.07		1.37	
31		0.99		30.66	79.72		2.85		0.08	98.70		6.39	
Total	96.11	50.96	118.71	763.88	5527.94	971.29	1163.45	26.01	27.90	880.18	309.95	101.25	10037.63 Ton
Mean	3.20	1.64	3.96	24.64	178.32	32.38	37.53	0.87	0.90	28.39	11.07	3.27	
Max	8.94	8.07	21.74	86.91	1091.75	113.89	196.10	1.97	7.22	725.07	41.84	6.39	1091.75
Min	0.99	0.33	0.81	4.29	14.54	9.83	1.37	0.48	0.08	0.00	3.80	1.17	0.00

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:10:50.69 LQS/LQSO2D/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
1.42595
QS = 44.4167 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.17	0.45	0.30	7.98	2267.71	228.09	145.66	15.60	5.46	6.15	40.05	0.62	
2	16.53	0.30	0.30	61.06	2218.66	249.02	90.71	15.60	5.46	7.23	19.93	0.62	
3	12.03	0.30	0.30	21.44	653.48	183.08	67.42	14.22	5.46	6.15	16.53	0.62	
4	9.14	0.30	0.30	13.33	571.67	128.81	58.29	13.33	4.80	6.15	13.33	0.62	
5	7.23	0.30	0.30	9.14	699.19	105.96	73.97	12.03	4.80	5.46	9.94	0.62	
6	5.46	0.30	0.45	9.94	2671.39	94.66	71.04	13.33	6.15	6.15	7.23	0.62	
7	2.42	0.30	0.45	9.14	2671.39	83.74	73.97	12.03	6.15	5.46	6.15	0.62	
8	1.43	0.30	0.30	23.51	1114.09	71.04	55.56	11.18	7.98	5.46	5.46	0.62	
9	0.62	0.30	0.30	29.47	886.27	61.06	101.88	11.18	7.98	5.46	5.46	0.62	
10	1.43	0.30	0.62	35.23	469.99	55.56	71.04	11.18	9.14	6.15	5.46	0.62	
11	1.91	0.45	1.00	128.81	324.10	50.22	52.87	11.18	9.14	6.15	4.80	0.45	
12	0.62	1.00	1.43	105.96	207.72	67.42	45.05	9.94	6.15	5.46	4.16	0.45	
13	0.62	0.45	0.62	61.06	141.17	55.56	37.62	9.94	5.46	6.15	4.16	0.30	
14	0.62	0.30	0.45	80.69	105.96	63.86	42.53	9.14	5.46	6.15	3.55	0.17	
15	0.62	0.30	0.30	494.53	83.74	94.66	55.56	9.14	7.23	9.14	3.55	12.03	
16	0.62	0.30	0.30	207.72	83.74	228.09	55.56	9.14	9.14	7.23	3.55	3.55	
17	0.62	0.30	0.30	97.85	67.42	183.08	40.05	9.14	9.14	7.23	2.97	3.55	
18	0.62	0.30	0.30	58.29	61.06	233.27	31.17	7.98	9.14	6.15	2.97	3.55	
19	2.97	0.30	0.62	254.33	52.87	187.94	29.47	7.98	9.14	7.23	2.97	3.55	
20	0.62	0.30	37.62	312.69	50.22	150.20	29.47	7.23	9.14	5.46	2.42	4.16	
21	1.43	0.45	16.53	183.08	42.53	109.26	90.71	7.98	7.98	2.97	2.42	4.16	
22	5.46	7.98	27.26	259.68	35.23	83.74	40.05	7.23	7.98	6.15	2.42	4.80	
23	3.55	5.46	55.56	109.26	31.17	71.04	29.47	7.23	7.98	6.15	1.91	16.53	
24	2.97	1.91	23.51	63.86	29.47	55.56	23.51	7.23	7.98	4.16	1.91	2.42	
25	1.43	0.62	15.60	45.05	37.62	71.04	21.44	6.15	6.15	6.15	1.91	2.42	
26	0.62	0.45	13.33	27.26	45.05	71.04	21.44	6.15	6.15	6.15	1.43	0.62	
27	0.62	0.30	12.03	21.44	35.23	52.87	19.93	6.15	6.15	7.98	1.00	0.62	
28	0.62	0.30	9.14	15.60	58.29	47.62	19.93	6.15	6.15	6.15	0.45	2.42	
29	0.45	0.30	5.46	16.53	83.74	47.62	17.96	6.15	6.15	141.17		2.42	
30	0.45	0.30	4.80	33.47	212.76	202.72	16.53	6.15	6.15	803.83		2.42	
31		0.30		212.76	288.03		16.53		6.15	116.80		9.94	
Total	114.90	25.52	229.78	3010.16	16300.96	3387.83	1546.39	287.06	217.49	1233.83	178.09	86.73	26618.74 Ton
Mean	3.83	0.82	7.66	97.10	525.84	112.93	49.88	9.57	7.02	39.80	6.36	2.80	
Max	31.17	7.98	55.56	494.53	2671.39	249.02	145.66	15.60	9.14	803.83	40.05	16.53	2671.39
Min	0.45	0.30	0.30	7.98	29.47	47.62	16.53	6.15	4.80	2.97	0.45	0.17	0.17

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:12:06.87

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
1.16928
QS = 1.2986 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	271.94	34.93	368.72	1000.42	191.35	1004.80	659.23	368.72	289.93	19.63	46.07	53.89	
2	198.63	24.43	395.24	843.88	616.03	1347.12	509.49	359.24	152.79	20.42	44.14	56.88	
3	92.41	26.93	556.44	476.77	700.57	900.61	234.80	359.24	87.59	23.62	45.10	78.55	
4	16.51	204.17	596.07	260.78	655.49	576.21	572.91	347.45	84.08	15.75	49.96	48.01	
5	122.97	246.64	402.54	414.76	876.23	776.99	616.03	294.45	65.95	189.53	34.03	50.94	
6	148.26	256.73	145.25	417.21	819.73	1936.31	640.56	101.03	58.87	117.70	28.68	97.28	
7	244.63	373.47	317.22	1335.71	1088.81	2986.72	569.61	111.17	74.17	56.88	34.03	168.04	
8	250.67	179.27	349.80	2171.48	582.82	2995.33	497.98	331.03	80.76	32.23	59.88	184.11	
9	223.24	109.87	407.42	2020.19	512.45	2155.93	263.01	395.24	194.98	35.83	168.04	338.05	
10	177.66	248.65	414.76	1151.84	466.65	1103.31	213.68	383.10	230.94	33.13	179.27	368.72	
11	8.73	317.22	285.42	677.98	387.95	512.45	464.16	342.74	310.36	61.89	61.89	102.29	
12	4.15	700.57	65.95	536.78	439.36	476.77	469.14	338.05	72.10	140.75	82.97	98.52	
13	17.28	761.53	47.03	232.87	271.94	1268.08	380.68	269.70	193.16	289.93	73.14	198.63	
14	14.99	589.44	229.01	240.61	314.93	1835.41	404.98	77.45	267.47	298.99	177.66	345.09	
15	5.25	484.71	179.27	206.07	176.05	1176.22	354.52	283.16	252.69	72.10	179.27	356.88	
16	4.69	229.01	169.64	280.91	373.47	757.68	200.45	308.08	298.99	46.07	373.47	294.45	
17	3.09	331.03	168.04	130.34	407.42	1040.69	347.45	185.92	116.39	104.81	285.42	280.91	
18	42.27	509.49	166.50	87.59	371.09	1074.34	340.40	134.78	54.89	111.17	189.53	223.24	
19	263.01	314.93	116.39	229.01	169.64	1427.63	280.91	128.86	66.97	109.87	133.30	139.26	
20	278.67	124.44	61.89	215.59	352.16	1462.42	324.10	119.02	271.94	45.10	34.03	87.59	
21	217.50	109.87	298.99	326.39	328.69	1117.84	252.69	109.87	296.72	49.96	48.98	287.67	
22	265.24	88.79	366.34	294.45	230.94	965.54	225.16	276.42	303.53	81.86	122.97	274.18	
23	242.62	193.16	407.42	342.74	454.21	956.84	207.97	324.10	151.28	22.01	269.70	319.51	
24	211.77	312.65	456.70	402.54	431.96	592.76	125.91	298.99	125.91	185.92	263.01	400.10	
25	67.99	209.87	492.66	242.62	354.52	310.36	70.04	314.93	47.03	229.01	99.78	155.82	
26	359.24	446.78	324.10	301.26	356.88	250.67	148.26	296.72	28.68	250.67	48.98	55.88	
27	278.67	419.67	285.42	338.05	182.49	492.66	154.31	250.67	122.97	283.16	72.10	55.88	
28	292.19	359.24	326.39	312.65	258.75	563.02	189.53	140.75	36.74	124.44	204.17	176.05	
29	278.67	213.68	301.26	308.08	157.34	579.51	211.77	331.03	71.07	42.27		98.52	
30	397.67	130.34	566.31	184.11	338.05	592.76	236.74	464.16	151.28	12.74		60.88	
31		456.70		109.87	431.96		92.41		53.89	26.93		131.82	
Total	5000.61	9008.21	9268.19	16093.55	13299.93	33236.98	10258.88	8046.07	4614.12	3134.37	3409.57	5587.64	120958.13 Ton
Mean	166.69	290.59	308.94	519.15	429.03	1107.90	330.93	268.20	148.84	101.11	121.77	180.25	
Max	397.67	761.53	596.07	2171.48	1088.81	2995.33	659.23	464.16	310.36	298.99	373.47	400.10	2995.33
Min	3.09	24.43	47.03	87.59	157.34	250.67	70.04	77.45	28.68	12.74	28.68	48.01	3.09

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:12:16.29

LQS/LQS02D/12

Station - Phrasaeng, Phrasaeng, Surat Thani, (X.37A)
Stream - Tapi
River - Tapi
River System - Peninsular East Coast

Royal Irrigation Department
Thailand
Hydrology Division
1.24061
QS = 1.2809 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.49	296.39	468.74	207.45	198.33	1231.84	1406.33	1225.22	2112.40	477.44	115.65	58.88	
2	135.25	237.87	468.74	280.49	254.08	1258.39	1435.73	1188.64	2152.58	393.94	112.69	58.88	
3	127.64	214.81	423.84	372.82	385.99	1271.71	1594.61	1158.81	2072.36	324.09	111.21	57.68	
4	120.12	182.44	418.36	357.83	445.88	1265.05	1653.06	1125.58	1959.08	282.75	120.12	55.30	
5	114.17	180.69	548.97	296.39	564.45	1278.38	1698.44	1072.11	1817.14	260.61	130.67	54.11	
6	102.44	189.45	567.56	239.88	690.35	1353.70	1736.97	1041.83	1698.44	245.95	118.63	56.49	
7	94.00	189.45	492.01	245.95	799.73	1473.98	1762.75	1033.44	1587.33	328.84	112.69	58.88	
8	89.85	191.21	418.36	385.99	796.24	1543.81	1780.85	1063.44	1473.98	378.08	111.21	60.09	
9	91.23	189.45	367.71	663.76	747.74	1690.75	1798.97	1089.72	1347.87	328.84	106.81	58.88	
10	89.85	203.79	345.56	775.38	680.35	1879.67	1780.85	1107.62	1192.53	275.98	101.00	58.88	
11	84.45	271.57	348.00	697.03	650.54	1996.70	1762.75	1125.58	1037.52	241.90	96.79	54.11	
12	79.18	340.76	370.19	548.97	653.84	1996.70	1753.72	1125.58	884.91	220.49	94.00	49.43	
13	79.18	407.45	357.83	451.43	727.24	1946.57	1690.75	1107.62	754.63	207.45	92.61	49.43	
14	85.78	412.90	294.11	357.83	814.04	1901.92	1645.73	1063.44	647.24	194.74	91.23	47.11	
15	79.18	385.99	250.01	300.97	789.28	1846.40	1616.48	984.78	558.25	182.44	88.48	44.82	
16	75.28	338.37	218.59	243.92	730.61	1817.14	1594.61	896.78	494.94	173.87	84.45	43.68	
17	73.98	314.77	218.59	218.59	680.35	1762.75	1558.29	835.77	454.30	165.47	83.13	43.68	
18	73.98	303.26	237.87	209.28	650.54	1706.13	1494.58	744.29	415.63	158.89	83.13	45.96	
19	80.49	280.49	231.93	201.97	617.98	1683.07	1435.73	640.66	402.02	158.89	84.45	44.82	
20	135.25	291.83	207.45	191.21	680.35	1698.44	1365.36	589.40	412.90	155.65	91.23	42.55	
21	120.12	331.21	189.45	216.70	796.24	1736.97	1318.83	624.41	407.45	149.23	79.18	40.31	
22	130.67	415.63	209.28	256.25	854.40	1771.80	1265.05	744.29	375.44	142.94	73.98	39.19	
23	182.44	518.61	245.95	285.02	865.69	1780.85	1208.10	932.59	345.56	138.31	70.13	37.05	
24	203.79	586.27	294.11	310.16	821.27	1744.70	1196.42	1041.83	321.72	132.19	67.58	37.05	
25	201.97	545.88	357.83	331.21	821.27	1675.40	1200.31	1158.81	300.97	129.15	66.32	41.43	
26	185.94	512.61	383.35	289.56	896.78	1587.33	1196.42	1289.91	326.46	132.19	65.05	52.93	
27	163.80	494.94	335.98	239.88	1005.00	1529.35	1184.75	1400.46	407.45	136.78	62.54	71.41	
28	194.74	509.61	289.56	203.79	1098.66	1480.84	1139.80	1494.58	503.73	146.04	60.09	67.58	
29	216.70	521.61	241.90	182.44	1139.80	1453.43	1158.81	1667.73	548.97	138.31		57.68	
30	352.91	494.94	211.12	180.69	1212.00	1423.95	1188.64	1913.06	524.62	126.13		50.59	
31		480.35		196.51	1212.00		1231.84		512.61	120.12		50.59	
Total	3908.87	10834.60	10012.95	9939.35	23281.02	48787.72	45855.54	32487.98	28051.03	6647.70	2575.05	1589.47	223971.30 Ton
Mean	130.30	349.50	333.77	320.62	751.00	1626.26	1479.21	1082.93	904.87	214.44	91.97	51.27	
Max	352.91	586.27	567.56	775.38	1212.00	1996.70	1798.97	1913.06	2152.58	477.44	130.67	71.41	2152.58
Min	73.98	180.69	189.45	180.69	198.33	1231.84	1139.80	589.40	300.97	120.12	60.09	37.05	37.05

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:12:23.85

LQS/LQSO2D/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
1.48301
QS = 1.2976 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.31	16.70	8.32	4.18	12.07	9.03	10.90	18.04	91.56	37.14	17.59	8.67	
2	29.40	21.79	7.97	3.90	11.68	6.95	12.07	146.87	68.04	36.57	16.70	8.67	
3	26.78	17.59	7.28	3.63	7.28	11.68	10.52	47.92	52.99	27.82	31.55	8.32	
4	23.74	15.82	12.07	3.10	22.76	8.32	12.07	92.79	43.62	30.47	21.79	8.32	
5	22.27	13.70	10.52	2.61	10.52	17.59	14.12	83.07	41.11	72.56	21.79	7.97	
6	19.89	12.88	8.32	2.85	9.77	27.82	10.14	37.72	46.19	158.69	26.27	12.07	
7	18.50	12.07	7.97	4.46	8.32	19.42	8.67	695.07	36.00	78.34	22.27	9.77	
8	16.70	12.07	7.62	10.90	6.62	13.70	8.32	327.25	33.75	118.83	19.42	8.67	
9	16.26	12.07	7.62	10.14	7.97	10.52	11.29	176.50	29.93	37.14	18.04	8.32	
10	15.39	13.29	7.97	6.62	6.29	9.40	10.90	113.17	27.30	33.20	17.59	7.97	
11	14.96	17.14	7.62	5.35	8.67	8.67	7.97	72.56	25.75	30.47	16.26	7.62	
12	16.70	17.14	5.97	4.75	10.14	10.14	14.54	52.99	24.24	28.34	15.82	7.28	
13	14.54	13.29	4.75	3.90	7.97	12.07	11.29	41.11	22.27	26.78	14.96	6.95	
14	13.29	15.82	5.97	3.63	6.62	9.40	12.07	39.46	25.75	25.25	14.12	6.62	
15	12.47	13.29	5.05	3.36	7.28	9.40	8.67	69.16	25.75	23.25	13.29	6.62	
16	12.88	12.88	5.66	3.10	7.97	8.32	9.03	50.94	20.36	22.27	12.88	6.29	
17	12.07	11.68	7.28	2.85	5.97	8.67	7.97	37.72	18.50	22.76	12.47	5.97	
18	12.88	10.90	5.66	2.61	5.05	9.40	7.28	92.79	47.92	22.27	12.07	5.97	
19	12.47	10.90	4.75	2.37	4.46	14.96	6.62	183.79	37.14	20.36	11.68	5.97	
20	12.07	11.68	5.05	2.37	6.29	12.47	8.67	140.45	39.46	19.42	11.29	5.66	
21	18.04	12.88	8.67	5.66	5.05	9.77	14.96	2553.44	36.57	18.96	10.90	5.66	
22	14.12	11.29	5.97	2.61	4.18	7.62	57.17	661.97	38.88	18.04	10.52	5.35	
23	11.68	10.52	8.67	5.35	3.63	7.62	165.74	503.93	31.01	17.14	10.14	14.12	
24	10.90	10.14	10.14	4.75	9.40	9.40	33.75	654.36	27.82	16.70	9.77	18.50	
25	10.14	9.03	11.68	2.85	9.40	7.28	21.79	3816.61	24.74	15.82	9.40	17.59	
26	10.14	8.67	6.95	2.61	8.32	7.62	17.14	1321.06	22.76	41.11	9.40	13.70	
27	10.90	8.32	5.66	1.91	6.62	6.62	14.12	460.69	21.31	26.78	9.03	11.68	
28	36.00	7.97	5.35	2.37	5.66	6.95	12.88	219.92	118.83	22.27	8.67	9.77	
29	21.31	7.97	4.46	2.14	5.66	8.32	13.29	193.63	302.62	21.79		8.67	
30	17.14	7.62	4.46	1.91	6.95	6.62	14.12	127.90	65.82	19.89		11.68	
31		6.95		2.85	8.67		14.96		40.28	18.50		13.29	
Total	517.94	384.06	215.43	121.69	247.24	315.75	583.03	13032.88	1488.27	1108.93	425.68	283.71	18724.61 Ton
Mean	17.26	12.39	7.18	3.93	7.98	10.52	18.81	434.43	48.01	35.77	15.20	9.15	
Max	36.00	21.79	12.07	10.90	22.76	27.82	165.74	3816.61	302.62	158.69	31.55	18.50	3816.61
Min	10.14	6.95	4.46	1.91	3.63	6.62	6.62	18.04	18.50	15.82	8.67	5.35	1.91

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:12:31.19 LQS/LQSO2D/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
1.43389
QS = 3.4085 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.08	11.60	2.65	1.64	1.64	2.30	5.08	14.92	40.72	14.16	7.17	3.41	
2	12.32	13.79	2.48	1.64	6.45	1.64	5.08	53.25	30.40	14.16	7.17	3.41	
3	11.60	9.21	2.48	2.65	1.64	2.48	3.41	22.25	24.43	14.16	15.30	3.21	
4	9.74	8.69	3.41	1.96	2.84	1.64	3.21	34.75	22.25	14.54	9.21	3.21	
5	8.95	6.69	2.84	1.80	2.48	2.84	4.01	39.07	26.23	37.85	9.74	3.02	
6	7.92	6.21	2.48	1.64	2.13	6.93	3.02	17.66	43.65	65.30	10.56	4.43	
7	7.67	5.52	2.30	1.64	1.96	3.41	2.65	221.90	23.55	45.99	13.05	3.81	
8	7.17	5.75	2.30	2.30	1.80	2.30	2.48	119.07	21.82	36.24	9.21	3.61	
9	7.42	5.75	2.13	2.30	1.52	1.96	1.96	90.98	17.26	21.39	7.42	3.41	
10	6.45	5.75	2.30	2.13	1.30	1.52	2.48	48.38	14.16	17.66	6.93	3.21	
11	5.98	6.45	2.30	1.80	2.84	1.64	5.52	37.35	14.16	14.92	6.69	2.84	
12	5.98	5.30	2.13	1.64	2.48	1.52	6.69	27.60	13.41	13.79	6.21	2.84	
13	5.52	4.64	1.96	1.96	1.64	1.64	4.43	22.68	12.32	12.32	5.52	1.64	
14	5.08	5.08	1.80	1.80	1.64	1.64	7.17	14.16	11.60	10.01	5.30	2.65	
15	3.81	4.64	1.80	1.52	1.52	1.64	5.98	28.52	11.60	9.47	5.30	2.65	
16	5.52	4.43	1.80	1.52	1.41	1.64	4.64	30.40	10.28	9.21	5.08	2.48	
17	4.86	4.43	2.48	1.41	1.30	1.52	3.21	20.12	9.47	9.21	4.86	2.48	
18	5.30	4.64	1.80	1.30	2.84	1.80	2.65	56.30	29.93	9.47	5.08	2.48	
19	4.64	4.43	1.64	1.30	1.64	3.02	2.48	109.60	21.82	7.92	4.64	2.48	
20	5.30	4.01	1.80	1.30	1.41	2.84	3.41	66.62	29.93	7.67	4.43	2.48	
21	7.17	4.43	3.02	2.13	1.30	1.64	7.42	535.21	24.43	7.42	4.22	2.30	
22	5.98	3.81	1.96	1.41	1.41	1.52	50.68	207.18	23.99	6.93	4.22	2.48	
23	4.64	3.81	3.02	1.30	1.52	1.52	99.68	180.96	17.26	6.69	4.22	3.61	
24	4.64	3.81	3.02	1.30	1.64	1.41	23.12	166.50	14.92	6.69	4.01	4.43	
25	4.22	3.41	2.48	1.19	1.52	1.64	12.68	411.81	12.68	6.21	4.01	5.52	
26	4.22	3.41	2.13	1.19	1.64	1.64	9.21	315.53	11.25	21.39	3.81	5.30	
27	4.86	3.21	1.80	1.08	1.41	1.52	7.17	145.07	10.56	10.28	3.61	3.41	
28	18.47	3.02	1.80	1.19	1.52	1.64	5.52	85.22	23.99	8.17	3.61	3.41	
29	10.01	2.84	1.64	0.61	1.41	1.80	8.43	70.01	100.49	9.47		3.21	
30	8.17	2.65	1.64	1.08	1.41	1.64	7.42	47.72	31.35	7.67		4.01	
31		2.65		1.30	1.52		9.21		22.25	7.17		7.67	
Total	219.69	164.06	67.39	49.03	58.78	61.89	320.10	3240.79	722.16	483.53	180.58	105.10	5673.10 Ton
Mean	7.32	5.29	2.25	1.58	1.90	2.06	10.33	108.03	23.30	15.60	6.45	3.39	
Max	18.47	13.79	3.41	2.65	6.45	6.93	99.68	535.21	100.49	65.30	15.30	7.67	535.21
Min	3.81	2.65	1.64	0.61	1.30	1.41	1.96	14.16	9.47	6.21	3.61	1.64	0.61

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:12:38.12 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
1.14124
QS = 3.7600 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	120.06	291.13	23.87	29.61	11.83	15.20	150.13	1083.34	522.84	38.05	13.27	9.10	
2	74.86	375.57	21.88	56.83	14.03	21.46	211.78	1529.61	419.50	36.34	12.52	9.44	
3	58.03	263.37	19.45	72.57	23.49	35.21	186.53	1450.44	349.14	34.25	12.18	9.44	
4	49.09	153.19	17.51	90.90	25.11	44.98	224.54	1219.71	304.40	32.96	11.43	9.10	
5	40.35	118.09	15.96	77.23	28.78	55.63	263.37	929.53	302.56	31.72	11.09	8.82	
6	35.78	74.86	17.93	58.81	34.65	64.09	286.73	665.72	298.87	31.28	10.70	8.20	
7	31.28	56.83	18.66	42.66	29.22	72.57	328.54	566.93	289.67	31.28	10.41	8.20	
8	26.75	49.09	16.74	36.34	22.26	67.15	494.49	700.03	275.02	30.89	10.07	7.87	
9	24.68	47.91	14.79	33.41	20.29	63.36	665.72	1071.68	264.82	30.05	9.44	7.87	
10	22.68	53.24	14.79	30.89	21.46	58.03	651.49	1246.08	248.90	29.22	9.10	7.87	
11	21.08	50.86	14.43	28.78	23.87	48.50	575.32	1110.63	223.12	28.39	8.82	7.31	
12	22.68	42.08	13.68	24.68	27.13	39.20	462.05	861.95	190.71	27.57	8.48	6.38	
13	26.31	35.21	16.37	22.68	29.61	42.08	358.55	597.77	156.25	26.31	8.48	5.79	
14	31.72	32.12	17.93	22.26	38.05	56.23	286.73	448.46	133.99	24.68	8.20	5.21	
15	29.22	28.78	19.87	20.29	44.98	67.88	247.46	409.90	117.10	23.49	8.20	4.63	
16	25.49	30.05	23.06	17.51	43.82	70.96	214.60	390.78	103.42	21.88	7.87	4.11	
17	23.06	29.61	27.95	15.60	35.78	78.79	187.92	373.67	92.82	21.08	7.87	4.11	
18	20.66	27.57	25.11	14.79	28.78	85.83	146.08	377.47	85.07	20.66	7.59	4.11	
19	19.08	28.78	22.68	16.37	23.49	98.58	127.00	425.27	77.23	19.87	7.59	4.11	
20	25.49	28.78	19.45	19.45	21.08	125.02	108.28	845.15	71.76	19.87	7.59	3.85	
21	36.91	29.61	16.37	21.46	22.26	147.09	141.03	1098.93	66.35	18.66	7.31	3.85	
22	55.63	31.72	17.15	23.87	26.31	151.15	193.50	1063.91	62.57	17.93	6.38	3.85	
23	53.24	32.56	23.49	21.46	23.87	133.99	280.87	885.53	58.81	17.51	5.79	3.85	
24	51.46	30.44	28.39	18.29	21.46	107.31	479.60	697.16	56.23	17.93	7.59	3.85	
25	47.33	29.61	32.12	15.96	18.66	87.41	603.39	855.22	54.43	17.51	8.82	4.11	
26	53.24	26.75	35.78	14.79	16.74	71.76	561.35	932.92	53.24	17.15	9.73	5.48	
27	53.84	25.11	41.50	12.52	15.96	62.57	432.98	865.31	47.91	16.74	11.09	6.98	
28	77.23	24.68	40.92	10.70	15.60	53.84	394.59	967.38	44.98	16.37	11.09	8.20	
29	166.49	32.56	33.41	11.09	15.20	53.24	583.72	865.31	42.66	15.60		9.44	
30	190.71	28.39	29.61	10.70	14.79	68.68	651.49	694.30	41.50	15.20		17.51	
31		24.68		10.70	13.68		679.99		40.92	14.03		38.63	
Total	1514.43	2133.23	680.85	903.20	752.24	2147.79	11179.82	25230.10	5096.79	744.47	258.70	241.27	50882.88 Ton
Mean	50.48	68.81	22.69	29.14	24.27	71.59	360.64	841.00	164.41	24.02	9.24	7.78	
Max	190.71	375.57	41.50	90.90	44.98	151.15	679.99	1529.61	522.84	38.05	13.27	38.63	1529.61
Min	19.08	24.68	13.68	10.70	11.83	15.20	108.28	373.67	40.92	14.03	5.79	3.85	3.85

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:12:45.90

LQS/LQSO2D/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
1.31424
QS = 1.1186 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.64	0.13	0.11	1.06	0.64	1.64	2.39	10.14	41.27	4.53	0.81	0.07	
2	0.46	0.36	0.11	1.06	1.06	2.11	2.67	10.14	32.49	4.13	0.75	0.06	
3	0.36	0.31	0.10	1.13	1.00	2.32	2.53	9.52	26.55	3.93	0.81	0.06	
4	0.31	0.22	0.10	1.52	0.93	2.32	2.25	9.67	22.76	3.73	0.81	0.06	
5	0.17	0.17	0.10	2.39	1.00	2.32	2.04	10.92	20.67	3.53	0.75	0.05	
6	0.13	0.13	0.09	2.32	1.06	2.75	1.91	9.67	20.37	4.23	0.69	0.05	
7	0.13	0.12	0.08	2.89	1.06	3.73	1.84	12.02	18.63	4.03	0.64	0.05	
8	0.13	0.11	0.08	4.64	1.13	5.16	1.91	12.20	16.14	3.63	0.52	0.05	
9	0.12	0.10	0.08	5.59	1.19	4.95	1.84	11.40	14.00	3.34	0.41	0.05	
10	0.11	0.11	0.08	5.16	1.00	4.23	1.58	9.37	13.01	3.12	0.36	0.04	
11	0.10	0.12	0.13	4.23	1.33	3.83	1.39	14.00	12.02	2.97	0.26	0.04	
12	0.09	0.13	0.22	3.53	1.97	3.93	1.84	17.48	11.07	2.82	0.22	0.04	
13	0.09	0.13	0.13	2.97	2.25	4.13	1.71	14.41	10.14	2.60	0.22	0.03	
14	0.08	0.13	0.11	2.67	2.60	4.95	1.58	14.65	9.67	2.46	0.17	0.03	
15	0.08	0.13	0.41	2.39	2.32	5.59	1.45	13.17	9.08	2.25	0.17	0.03	
16	0.08	0.12	0.64	2.18	1.91	4.84	1.77	12.02	8.62	2.11	0.13	0.03	
17	0.07	0.10	0.69	1.91	1.64	4.33	1.71	10.61	8.34	2.04	0.13	0.03	
18	0.06	0.09	0.52	1.71	1.84	5.05	1.45	9.52	7.75	1.97	0.12	0.03	
19	0.06	0.09	0.46	1.58	1.91	4.95	1.33	8.62	13.01	1.84	0.12	0.03	
20	0.06	0.08	0.41	1.52	2.11	5.27	3.83	8.48	13.84	1.77	0.11	0.03	
21	0.08	0.09	0.69	1.45	2.04	4.84	6.60	10.14	9.99	1.64	0.11	0.02	
22	0.31	0.11	1.45	1.45	1.77	4.33	25.86	11.86	8.48	1.52	0.10	0.02	
23	0.52	0.09	2.97	1.33	1.45	3.83	109.96	13.49	7.61	1.45	0.09	0.02	
24	0.46	0.10	2.75	1.19	1.19	3.44	87.33	17.48	6.89	1.39	0.09	0.02	
25	0.36	0.08	2.25	1.00	1.13	3.27	38.13	51.40	6.35	1.33	0.08	0.02	
26	0.26	0.07	1.91	0.75	1.13	2.97	23.67	364.00	5.91	1.27	0.08	0.02	
27	0.17	0.06	1.58	0.36	1.06	2.75	17.77	237.16	5.48	1.13	0.08	0.03	
28	0.13	0.06	1.39	0.36	0.93	2.75	14.65	96.44	5.27	1.06	0.07	0.03	
29	0.13	0.09	1.19	0.26	0.81	2.75	13.01	60.69	5.48	1.00		0.02	
30	0.12	0.10	1.13	0.26	0.93	2.53	11.86	54.50	5.37	0.93		0.02	
31		0.12		0.36	1.13		10.92		4.95	0.81		0.02	
Total	5.87	3.85	21.96	61.22	43.52	111.86	398.78	1145.17	401.21	74.56	8.90	1.10	2278.00 Ton
Mean	0.20	0.12	0.73	1.97	1.40	3.73	12.86	38.17	12.94	2.41	0.32	0.04	
Max	0.64	0.36	2.97	5.59	2.60	5.59	109.96	364.00	41.27	4.53	0.81	0.07	364.00
Min	0.06	0.06	0.08	0.26	0.64	1.64	1.33	8.48	4.95	0.81	0.07	0.02	0.02

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:12:53.00

LQS/LQSO2D/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
1.13772
QS = 1.9885 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.63	4.68	4.68	7.47	5.49	18.20	15.39	16.79	99.21	9.90	5.28	2.54	
2	8.81	6.42	4.68	7.47	5.28	42.26	14.92	15.85	85.50	9.63	5.28	2.54	
3	8.00	12.64	4.48	7.20	5.28	37.97	14.46	14.92	81.09	9.08	5.08	2.35	
4	7.47	10.45	4.48	6.94	13.55	31.06	14.00	18.20	56.68	8.54	5.08	2.35	
5	7.20	8.00	4.68	6.68	11.73	28.55	13.55	17.73	60.77	8.27	4.88	2.17	
6	6.68	7.20	4.88	5.90	11.29	31.70	13.09	14.00	54.64	10.73	4.88	2.17	
7	5.90	7.47	4.88	7.47	11.73	71.27	11.29	13.55	45.88	12.64	4.68	1.99	
8	5.69	7.20	4.68	35.13	23.85	66.96	9.63	40.11	40.11	11.01	4.68	1.99	
9	5.69	6.94	5.08	39.39	22.21	62.82	8.81	32.33	36.55	9.90	4.48	1.99	
10	5.49	5.49	4.88	31.70	20.10	59.74	8.54	29.18	34.43	8.81	4.48	1.88	
11	5.08	5.08	9.08	27.93	27.31	52.62	8.27	21.12	27.31	8.00	4.28	1.88	
12	4.88	4.88	9.08	22.76	27.93	40.82	8.00	20.58	26.07	7.73	4.28	1.88	
13	4.88	4.88	9.90	15.39	31.70	41.54	8.00	20.10	24.96	7.47	4.28	1.88	
14	4.68	4.68	10.18	14.46	22.76	59.74	7.73	24.96	22.76	7.20	4.08	1.76	
15	4.48	4.48	9.63	12.64	21.67	56.68	7.47	23.85	21.12	6.68	4.08	1.76	
16	3.88	4.28	9.35	11.29	16.32	56.68	7.47	22.76	20.10	7.20	3.88	1.76	
17	3.88	5.08	5.90	11.01	15.85	53.63	7.20	19.62	18.67	6.94	3.88	1.65	
18	3.88	4.88	5.69	10.18	15.39	52.62	8.81	17.25	18.20	6.68	3.69	1.65	
19	4.48	4.68	5.49	8.81	14.46	51.61	8.81	16.32	25.51	6.42	3.69	1.65	
20	5.08	4.48	6.16	8.54	14.00	50.61	10.18	19.15	24.41	6.42	3.69	1.54	
21	7.20	4.88	6.16	8.27	13.55	51.61	13.55	33.03	23.85	6.16	3.49	1.43	
22	7.20	5.28	5.90	8.00	13.09	45.88	118.68	41.54	16.79	5.90	3.49	1.43	
23	6.94	5.08	8.81	7.73	13.09	43.71	154.91	47.61	16.32	5.90	3.49	1.43	
24	6.68	4.88	15.85	7.73	12.18	40.82	76.71	86.60	15.39	5.90	3.30	1.54	
25	4.68	4.68	14.00	7.47	10.45	33.03	72.36	1188.82	14.46	5.69	3.11	1.54	
26	4.68	4.68	11.29	7.47	8.27	27.93	66.96	2373.06	13.09	5.49	2.92	1.88	
27	4.48	4.28	10.18	6.94	8.27	24.41	29.18	417.08	12.18	5.49	2.73	1.76	
28	4.88	4.68	8.54	5.90	9.08	18.67	26.69	221.82	11.29	5.28	2.54	1.76	
29	4.68	5.49	8.00	5.08	8.81	18.67	23.85	143.58	11.29	5.08		1.76	
30	4.48	6.94	7.73	5.28	9.90	15.85	20.10	115.79	10.73	5.08		1.65	
31		4.88		5.49	12.18		17.73		10.18	4.88		1.65	
Total	171.66	179.64	224.32	373.72	456.77	1287.66	826.34	5087.30	979.54	230.10	113.70	57.21	9987.96 Ton
Mean	5.72	5.79	7.48	12.06	14.73	42.92	26.66	169.58	31.60	7.42	4.06	1.85	
Max	9.63	12.64	15.85	39.39	31.70	71.27	154.91	2373.06	99.21	12.64	5.28	2.54	2373.06
Min	3.88	4.28	4.48	5.08	5.28	15.85	7.20	13.55	10.18	4.88	2.54	1.43	1.43

WATER YEAR 1994

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	1982 - Cont'd
Remarks	Continued Sediment Station
	Using Rating Curve Water Year 1980 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:13:00.04 LQS/LQSO2D/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
1.26710
QS = 2.7756 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.76	15.12	2.16	12.60	4.17	3.35	6.60	106.45	27.16	3.35	1.58	0.68	
2	4.80	17.26	1.96	8.33	2.78	13.04	9.36	89.75	20.47	3.20	1.58	0.92	
3	3.95	7.11	1.77	5.44	2.36	18.35	139.27	69.50	18.67	3.20	1.58	0.66	
4	3.42	5.93	1.70	4.64	2.23	7.89	222.73	45.30	64.68	3.20	1.77	0.66	
5	2.92	4.10	1.64	3.72	1.58	7.19	191.32	52.51	71.73	2.99	1.21	0.73	
6	2.78	3.50	1.58	3.28	1.42	13.33	220.60	165.44	34.94	2.78	1.21	0.84	
7	2.50	3.72	1.58	2.85	1.42	21.55	210.04	156.75	32.08	2.78	1.18	0.76	
8	2.29	3.13	1.70	2.64	1.36	10.88	151.58	96.98	26.31	2.78	1.15	0.66	
9	2.50	3.20	1.83	3.06	4.88	5.03	103.27	70.19	14.97	2.78	1.18	0.60	
10	2.85	3.06	1.64	2.99	2.85	4.25	84.95	49.78	12.45	2.78	1.18	0.58	
11	2.50	3.06	1.58	3.65	4.56	3.42	75.09	39.19	28.02	2.78	1.07	0.43	
12	3.87	2.85	1.36	2.85	7.71	4.02	46.70	31.73	26.03	2.57	1.01	0.34	
13	2.99	2.50	2.50	2.36	9.77	13.92	31.38	20.10	24.18	2.36	0.90	0.43	
14	2.71	2.36	14.52	2.16	16.03	25.18	38.76	38.76	22.86	2.29	0.90	0.38	
15	2.36	3.06	10.46	1.83	5.68	33.50	16.18	56.67	22.42	2.23	0.90	0.38	
16	2.36	2.78	4.25	2.09	3.95	13.33	13.48	36.38	21.98	2.09	0.76	0.34	
17	2.43	2.50	2.99	1.70	3.28	10.74	15.42	21.55	20.68	1.96	0.73	0.34	
18	2.43	2.23	2.57	1.83	2.78	16.79	18.19	18.51	20.10	1.90	0.73	0.11	
19	2.71	3.06	2.50	2.29	3.35	43.54	26.31	19.46	19.14	1.83	0.73	0.11	
20	2.92	4.10	1.96	2.43	2.99	57.26	181.07	33.15	18.04	1.83	0.68	0.13	
21	2.71	3.35	1.90	1.83	2.64	26.31	165.44	82.14	8.06	1.83	0.68	0.13	
22	2.85	2.71	2.71	1.70	2.29	13.48	110.87	65.37	5.60	1.83	0.68	0.11	
23	3.35	2.64	2.78	1.83	1.90	8.06	91.81	44.42	5.11	1.77	0.60	0.13	
24	3.06	3.50	5.19	1.51	1.77	6.43	91.81	37.47	5.11	2.43	0.53	0.13	
25	2.57	3.13	14.97	1.51	2.57	6.68	66.05	46.19	5.03	2.50	0.46	0.53	
26	2.64	2.23	6.68	1.51	3.28	6.34	31.73	33.86	4.88	2.03	0.58	0.66	
27	6.18	2.09	4.25	1.33	2.16	6.43	20.10	36.02	4.48	1.90	0.60	1.15	
28	12.02	2.09	2.85	1.42	1.77	5.68	21.33	82.14	4.17	1.83	0.73	2.36	
29	13.18	2.09	2.85	1.42	1.90	6.01	10.05	63.32	3.79	1.77		3.57	
30	6.01	3.06	4.48	1.51	1.96	7.11	161.95	38.76	3.57	1.70		18.82	
31		2.57		2.09	1.90		100.12		3.50	1.64		5.11	
Total	115.62	124.09	110.91	90.40	109.29	419.09	2673.56	1747.84	600.21	72.91	26.89	42.78	6133.59 Ton
Mean	3.85	4.00	3.70	2.92	3.53	13.97	86.24	58.26	19.36	2.35	0.96	1.38	
Max	13.18	17.26	14.97	12.60	16.03	57.26	222.73	165.44	71.73	3.35	1.77	18.82	222.73
Min	2.29	2.09	1.36	1.33	1.36	3.35	6.60	18.51	3.50	1.64	0.46	0.11	0.11

WATER YEAR 1994

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	1980 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1981 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:13:07.21

LQS/LQSO2D/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
1.41327
QS = 6.4641 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.75	2.36	1.12	18.20	4.22	7.97	5.75	98.68	6.46	1.90	1.23	1.41	
2	3.29	1.96	1.07	3.59	2.03	84.41	4.55	17.22	5.75	1.83	1.23	1.41	
3	2.85	1.77	1.02	2.16	1.65	26.17	566.76	12.12	11.04	1.83	1.23	1.35	
4	2.43	1.71	1.02	1.77	1.59	4.72	117.62	8.96	425.85	1.77	1.23	1.23	
5	2.29	1.53	0.96	1.53	1.77	53.48	22.94	18.20	20.98	1.71	1.23	1.23	
6	2.22	1.47	0.96	1.41	1.59	40.44	573.53	414.08	10.61	1.77	1.23	1.23	
7	2.09	2.03	1.07	1.23	1.41	15.77	74.71	29.96	55.52	1.77	1.23	1.35	
8	2.03	1.83	0.96	1.29	1.77	4.39	13.68	15.77	9.98	1.77	1.23	1.29	
9	1.96	7.40	0.96	1.35	4.55	2.71	16.49	22.15	7.59	1.77	1.23	1.23	
10	1.77	3.44	0.91	2.16	2.29	2.09	56.90	11.46	6.46	1.71	1.35	1.18	
11	1.71	2.03	1.47	2.16	55.52	1.90	16.49	14.83	6.10	1.65	1.35	1.07	
12	1.71	1.77	1.12	1.59	2.99	13.91	7.21	8.96	5.22	1.65	1.35	1.07	
13	1.77	3.14	1.02	1.41	3.44	61.09	6.28	7.40	4.72	1.53	1.35	1.07	
14	1.65	2.09	0.96	1.18	2.36	84.41	5.75	73.77	4.55	1.53	1.35	1.07	
15	1.59	2.22	1.02	1.12	1.77	10.61	4.22	40.44	4.06	1.47	1.35	1.02	
16	1.53	1.90	0.96	1.12	2.29	4.88	9.16	8.96	3.90	1.47	1.35	1.02	
17	1.59	1.71	0.96	1.07	1.59	3.44	18.94	7.40	3.75	1.47	1.41	1.02	
18	1.59	1.47	0.91	1.07	1.53	21.36	80.37	8.36	3.75	1.41	5.05	1.02	
19	1.65	2.09	0.86	1.07	20.98	91.47	23.73	29.11	3.59	1.41	3.29	1.29	
20	1.71	2.57	0.86	2.16	4.88	16.01	461.71	73.77	3.14	1.41	1.71	1.41	
21	3.44	2.09	0.91	1.47	1.77	6.10	50.79	24.94	2.99	1.47	1.41	1.18	
22	4.55	1.71	0.91	1.35	1.47	3.90	13.23	10.82	2.71	1.41	1.35	1.12	
23	32.57	1.47	1.18	1.18	1.29	2.99	15.77	8.36	2.71	1.41	1.35	1.53	
24	2.85	1.47	14.14	1.12	1.41	3.14	20.98	47.48	2.43	1.47	1.35	1.59	
25	2.03	1.41	13.68	0.96	17.46	9.16	9.37	15.07	2.29	1.41	1.23	1.29	
26	1.83	1.35	2.57	0.91	5.22	4.06	7.40	8.96	2.22	1.41	1.23	2.16	
27	2.29	1.59	1.71	1.53	1.96	3.90	6.65	31.26	2.16	1.41	1.18	2.43	
28	37.97	1.59	1.47	1.07	1.53	2.71	13.91	17.95	2.16	1.29	1.29	1.47	
29	7.40	1.29	3.75	0.96	1.53	6.28	356.44	8.56	2.09	1.29		84.41	
30	8.36	1.23	40.44	1.18	6.28	6.46	134.38	8.56	2.03	1.23		17.71	
31		1.18		74.71	2.03		69.16		1.96	1.23		2.99	
Total	144.47	62.87	100.95	135.08	162.17	599.93	2784.87	1103.56	628.77	47.86	42.37	141.85	5954.75 Ton
Mean	4.82	2.03	3.37	4.36	5.23	20.00	89.83	36.79	20.28	1.54	1.51	4.58	
Max	37.97	7.40	40.44	74.71	55.52	91.47	573.53	414.08	425.85	1.90	5.05	84.41	573.53
Min	1.53	1.18	0.86	0.91	1.29	1.90	4.22	7.40	1.96	1.23	1.18	1.02	0.86

WATER YEAR 1994

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$_y$, 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 1984 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:13:16.97 LQS/LQSO2D/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
1.83541
QS = 0.4390 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.10	5.67	10.92	79.59	33.68	30.05	36.52	97.62	51.92	11.77	6.25	3.71	
2	2.91	7.17	9.70	41.61	44.93	30.94	161.54	452.14	38.47	11.34	6.25	3.71	
3	2.91	6.86	9.70	29.29	58.09	35.56	50.72	188.59	35.56	10.92	6.25	3.71	
4	2.72	5.67	11.34	22.16	33.68	42.71	41.61	119.57	35.56	10.51	5.96	10.10	
5	2.72	4.85	11.77	18.56	30.05	73.35	34.61	146.91	36.52	10.10	5.96	5.11	
6	2.72	7.17	9.70	30.05	27.78	174.83	109.23	119.57	32.75	11.77	5.96	4.61	
7	2.72	7.17	13.71	183.03	23.47	79.59	202.82	123.95	30.05	10.51	5.96	3.93	
8	2.72	20.93	10.10	97.62	20.93	53.13	53.13	609.51	27.78	10.10	5.67	3.71	
9	2.72	86.60	9.70	53.13	20.32	40.53	64.66	121.75	26.31	9.70	5.39	3.50	
10	2.55	32.75	11.77	40.53	42.71	34.61	95.74	83.06	24.87	9.70	5.11	3.30	
11	2.39	22.79	10.51	28.53	44.93	30.94	54.35	71.87	22.79	9.70	4.85	3.30	
12	2.39	17.42	9.31	24.87	28.53	67.50	88.40	59.36	22.16	9.31	4.85	3.71	
13	2.39	19.73	8.92	20.32	188.59	90.21	68.94	49.54	20.93	8.92	5.11	3.30	
14	2.39	76.36	8.18	20.93	339.17	66.07	53.13	43.81	20.32	8.55	5.11	3.10	
15	2.39	33.68	7.49	18.56	58.09	53.13	39.46	42.71	19.14	8.18	5.11	3.10	
16	2.55	22.16	6.86	16.87	49.54	39.46	36.52	37.49	18.56	7.81	4.85	2.91	
17	2.39	17.42	6.86	15.25	34.61	311.29	37.49	39.46	17.99	14.21	4.85	2.91	
18	2.39	14.73	7.17	71.87	27.78	399.61	30.05	35.56	22.16	8.92	4.61	2.72	
19	2.55	13.71	6.55	151.72	35.56	335.03	37.49	111.22	17.42	7.81	4.61	2.72	
20	2.72	16.87	6.86	63.26	24.17	117.41	31.84	88.40	17.42	7.81	4.38	2.72	
21	4.61	16.32	7.49	33.68	22.79	84.82	30.94	202.82	15.78	7.81	4.38	2.72	
22	3.30	16.87	13.21	27.04	20.32	68.94	31.84	83.06	15.25	7.49	4.38	2.72	
23	2.91	14.21	11.34	22.16	19.73	60.65	30.94	64.66	14.21	7.17	4.15	3.71	
24	2.72	12.24	30.94	19.73	18.56	47.21	27.04	229.63	13.71	10.92	4.15	5.96	
25	2.72	11.77	17.42	17.99	154.15	40.53	24.17	307.63	13.21	7.49	4.15	4.85	
26	3.30	14.21	14.21	16.87	47.21	41.61	24.87	105.29	12.72	8.92	3.93	10.51	
27	20.32	15.25	11.77	15.78	34.61	48.37	22.16	76.36	12.72	8.18	3.93	4.85	
28	54.35	13.21	11.34	15.25	30.94	41.61	53.13	63.26	14.21	7.49	3.93	3.71	
29	14.21	11.77	63.26	14.21	27.78	49.54	67.50	54.35	18.56	7.17		6.86	
30	6.55	12.72	493.90	18.56	36.52	41.61	38.47	47.21	12.72	6.86		7.17	
31		12.72		16.87	26.31		121.75		11.77	6.55		5.67	
Total	167.33	591.00	862.00	1245.89	1605.53	2630.84	1801.06	3876.36	693.54	283.69	140.09	134.61	14031.94 Ton
Mean	5.58	19.06	28.73	40.19	51.79	87.69	58.10	129.21	22.37	9.15	5.00	4.34	
Max	54.35	86.60	493.90	183.03	339.17	399.61	202.82	609.51	51.92	14.21	6.25	10.51	609.51
Min	2.39	4.85	6.55	14.21	18.56	30.05	22.16	35.56	11.77	6.55	3.93	2.72	2.39

WATER YEAR 1994

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 - 1994

RID Computer Center, Processing : 9-AUG-1996 11:13:23.77 LQS/LQSO2D/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
1.68757
QS = 1.0204 QW

Water Year - 1994

Suspended Sediment, in Tons per Day, Water Year April 1, 1994 to March 31, 1995

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.88	16.16	13.11	15.53	18.12	39.59	76.98	25.09	106.40	34.54	16.16	10.45	
2	20.34	16.16	13.11	13.70	17.46	46.72	54.83	103.44	94.77	32.53	16.81	10.45	
3	18.85	15.53	14.30	11.96	21.10	51.39	62.00	32.53	84.33	29.63	24.27	10.45	
4	18.12	31.55	19.59	12.53	30.58	51.39	56.59	40.98	72.23	28.68	18.12	9.97	
5	17.46	19.59	14.91	14.91	18.12	69.90	63.84	38.23	69.90	106.40	18.12	9.97	
6	16.81	21.88	16.16	15.53	16.16	103.44	112.41	30.58	58.37	69.90	18.85	10.45	
7	16.81	19.59	15.53	17.46	14.30	79.40	86.84	529.64	51.39	45.25	16.16	10.95	
8	25.09	21.88	14.91	20.34	14.30	62.00	56.59	109.39	51.39	38.23	16.16	10.95	
9	18.85	25.92	13.70	16.81	16.81	72.23	48.20	103.44	46.72	35.55	15.53	10.45	
10	18.12	31.55	13.11	15.53	18.85	43.81	49.70	63.84	43.81	30.58	15.53	9.97	
11	17.46	32.53	12.53	14.91	14.91	89.38	42.38	53.10	40.98	27.75	15.53	9.49	
12	28.68	32.53	11.96	13.70	14.30	63.84	53.10	45.25	36.88	27.75	15.53	9.49	
13	21.88	24.27	11.45	12.53	14.30	63.84	42.38	40.98	35.55	25.92	14.91	9.49	
14	19.59	19.59	10.45	12.53	14.91	42.38	36.88	42.38	34.54	25.92	14.91	9.49	
15	18.12	22.67	10.45	12.53	16.16	43.81	34.54	54.83	36.88	24.27	14.30	9.03	
16	18.12	22.67	10.95	12.53	16.81	49.70	33.53	38.23	33.53	24.27	12.53	9.03	
17	16.81	19.59	14.30	13.11	18.12	42.38	29.63	33.53	29.63	24.27	13.11	9.03	
18	18.12	19.59	11.96	14.30	14.91	60.17	26.83	48.20	62.00	22.67	12.53	9.03	
19	17.46	18.85	10.45	13.11	18.85	81.85	28.68	51.39	40.98	22.67	12.53	8.57	
20	16.16	18.85	10.95	12.53	25.92	72.23	30.58	91.96	33.53	21.88	11.96	7.69	
21	18.12	18.12	14.91	14.30	23.46	53.10	28.68	797.65	32.53	21.88	11.96	7.69	
22	18.12	17.46	14.91	14.30	19.59	42.38	35.55	406.07	32.53	19.59	11.96	7.69	
23	16.16	16.81	21.10	16.81	18.12	43.81	76.98	193.53	28.68	18.85	11.96	13.11	
24	15.53	15.53	21.10	13.70	42.38	38.23	38.23	529.64	26.83	18.85	11.45	10.45	
25	14.30	16.16	17.46	11.96	100.52	33.53	30.58	3684.93	25.92	18.12	11.45	9.03	
26	14.30	15.53	16.81	10.95	48.20	40.98	28.68	850.31	25.09	26.83	11.45	8.57	
27	14.30	14.91	14.30	9.97	36.88	56.59	26.83	352.91	25.09	21.88	10.95	8.13	
28	48.20	15.53	14.91	11.45	28.68	40.98	27.75	212.88	273.65	18.85	10.45	7.26	
29	20.34	14.30	14.91	10.45	32.53	40.98	24.27	175.78	158.73	19.59		6.89	
30	16.81	14.30	15.53	10.45	35.55	48.20	24.27	136.02	49.70	18.12		8.13	
31		13.11		10.95	39.59		27.75		40.98	18.12		7.26	
Total	580.91	622.71	429.82	421.37	780.49	1668.23	1396.08	8916.73	1783.54	919.34	405.18	288.61	18213.01 Ton
Mean	19.36	20.09	14.33	13.59	25.18	55.61	45.03	297.22	57.53	29.66	14.47	9.31	
Max	48.20	32.53	21.10	20.34	100.52	103.44	112.41	3684.93	273.65	106.40	24.27	13.11	3684.93
Min	14.30	13.11	10.45	9.97	14.30	33.53	24.27	25.09	25.09	18.12	10.45	6.89	6.89