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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 arranged in serial order or volumes to be published. The first issue was published in 1968 as Volume 8. It present records, during 1965 water year, of stage and discharge of 59 streams at 86 actual streamflow data calibrating sites and at 27 previously calibrated ones. Up till now 34 volumes of yearbooks presenting streamflow data as early as 1912 up to 1991 totalling 6,700 station-years of record had been published.

This Volume 35 which is the thirty-fifth issues of the series was prepared by the Data Processing and statistic Branch. It presents records, during 1992 water year, of stage and discharge of 156 streams at 220 currently calibrating sites.

Hydrology Division

May 1994

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

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

Thank to Mr.Thada Sukhabunnaphan for the initiative of Hydrology Data Processing with Computer to Data Processing Section from 1978 and thank to Mrs. Srisuporn Srisuparb, Chief of Data Processing and Statistic Branch, 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 35.

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ILLUSSTRATION OF STREAM GAGING ACTIVITIES

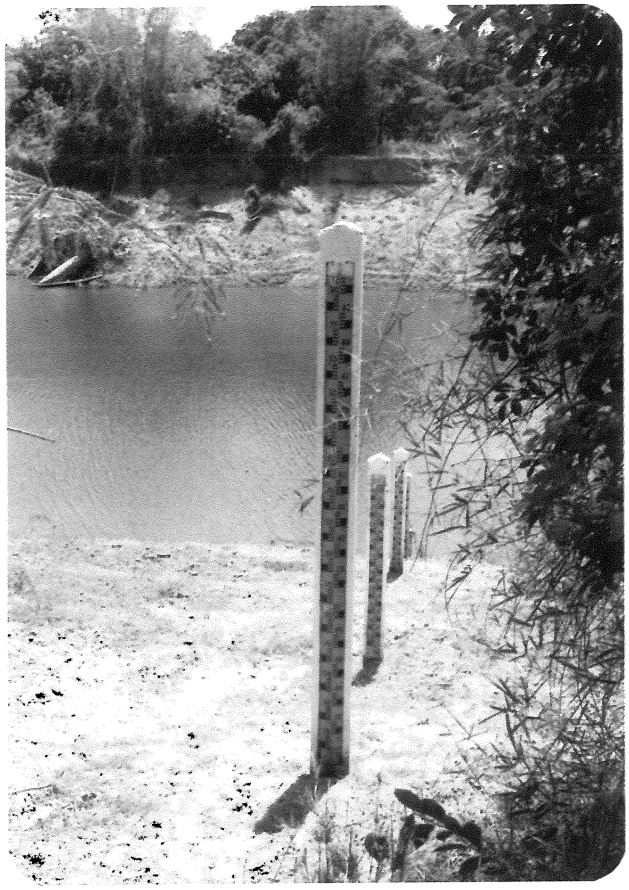

Fig. 1 Typical vertical staff gage

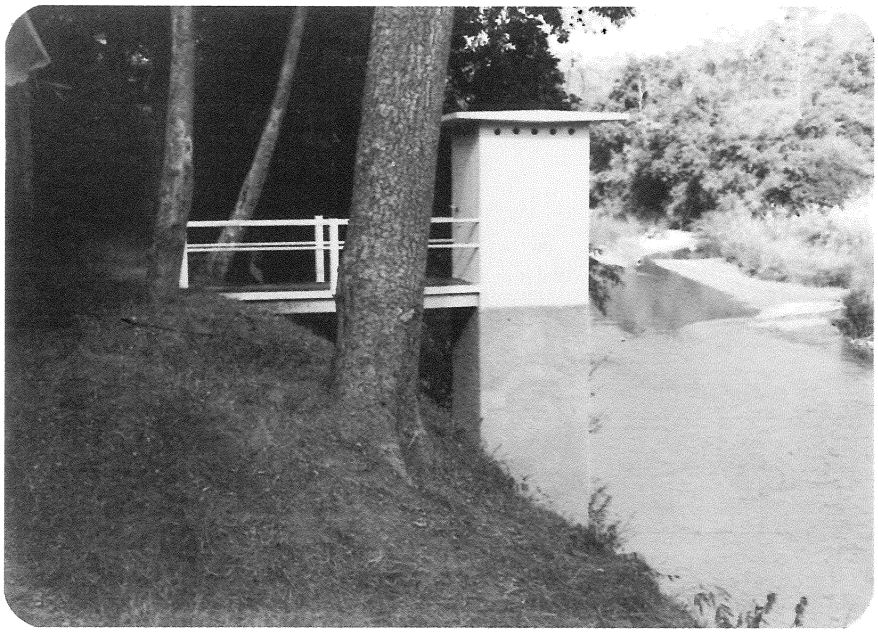

Fig. 2 Typical shelter for water level recorder (Float Type)



Fig. 3 Standard bench mark



Fig. 4 Close - up of rating operation



Fig. 5 Standard hydrologic equipment

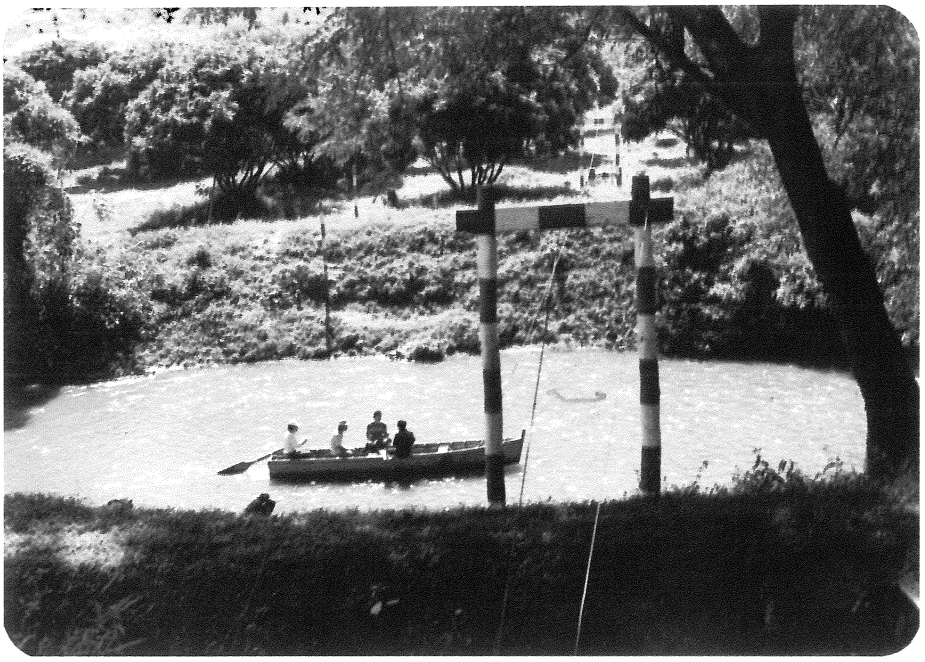

Fig. 6 Measuring line



Fig. 7 Camp for hydrological station

HYDROLOGICAL YEAR BOOK PUBLICATION

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Introduction

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

Definition of terms and abbreviations

Table for converting Metric Units to English Units is on page XXIV. 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

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

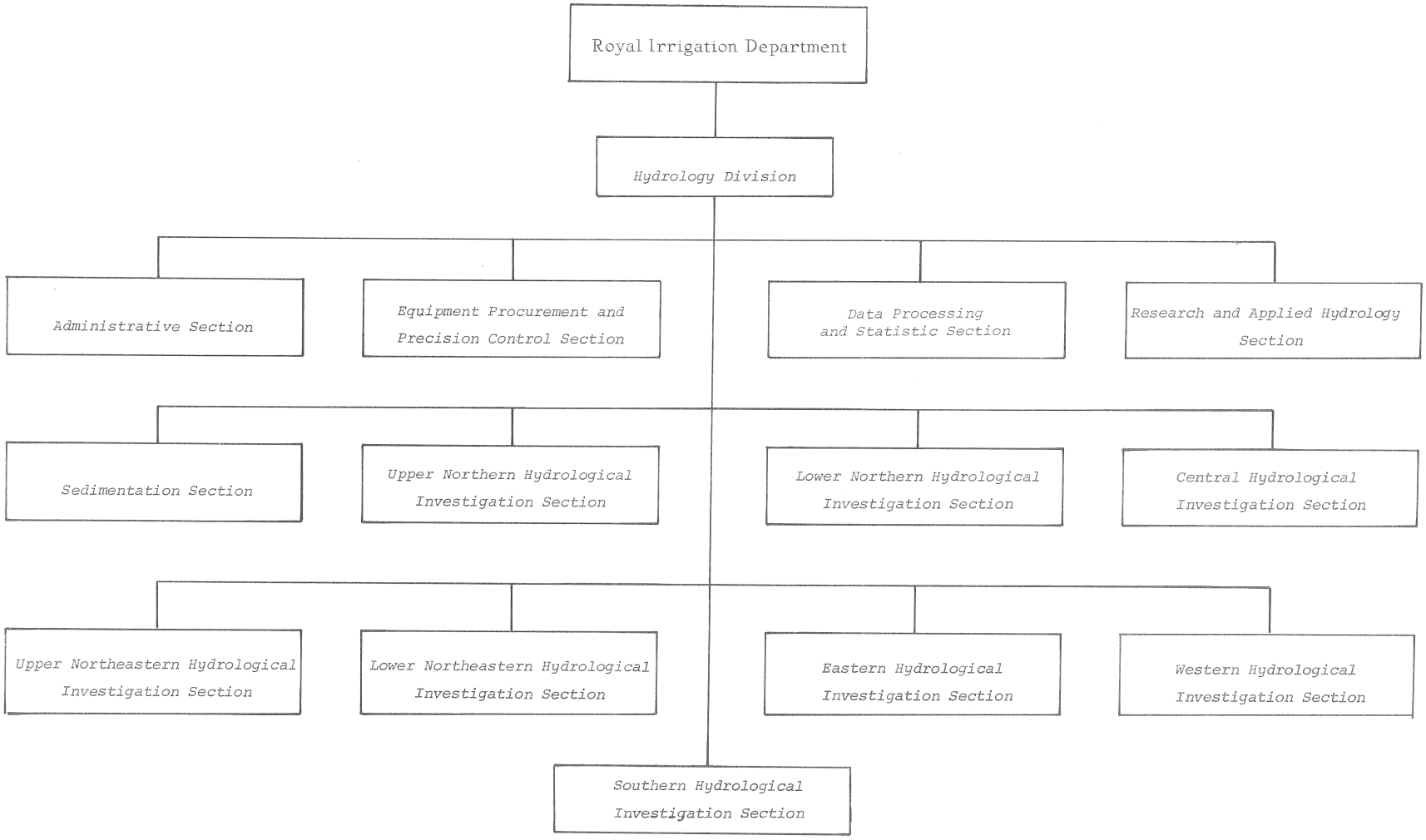
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID. in 1976, the National Economic and Social Development Board has made in agreement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

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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 1992

WATER YEAR 1992

PING RIVER BASIN

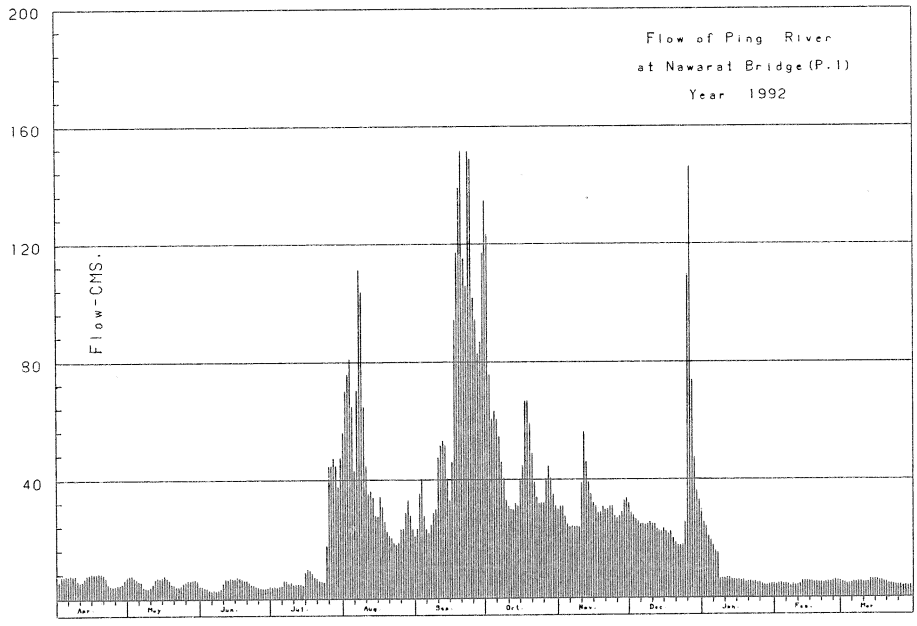
Ping River at Nawarat Bridge, Chiang Mai (P.1)

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	+300.500 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near automatic gage building.
Elevation	+305.31 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1921 to date.
Rating Operation	
Period of Rating	1954-1960, 1967 to date.
Rated by Float	1936-1938
Rated by Current Meter	1954-1960, 1967 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Upstream state diversions for irrigation about 11,200 hectares at Mae Faek Weir. Stage-discharge relation defined by 49 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.63	301.74	301.50	301.50	302.13	301.77	302.41	301.85	301.83	301.80	301.54	301.59	
2	301.72	301.74	301.48	301.50	302.16	301.89	302.16	301.85	301.82	301.78	301.56	301.57	
3	301.73	301.71	301.45	301.49	302.19	301.93	302.07	301.82	301.81	301.74	301.58	301.55	
4	301.74	301.66	301.41	301.50	302.10	301.82	302.09	301.79	301.80	301.72	301.55	301.55	
5	301.74	301.64	301.39	301.53	301.95	301.77	302.07	301.78	301.79	301.70	301.56	301.58	
6	301.75	301.61	301.40	301.65	302.13	301.75	302.03	301.78	301.79	301.66	301.53	301.59	
7	301.74	301.50	301.39	301.63	302.35	301.79	301.97	301.78	301.79	301.65	301.50	301.59	
8	301.74	301.46	301.40	301.59	302.31	301.83	301.93	301.78	301.79	301.66	301.54	301.60	
9	301.65	301.46	301.46	301.60	302.10	301.84	301.87	301.78	301.80	301.68	301.52	301.61	
10	301.60	301.49	301.58	301.55	301.96	301.98	301.85	301.92	301.79	301.68	301.52	301.59	
11	301.63	301.58	301.67	301.55	301.89	302.01	301.84	302.04	301.79	301.69	301.55	301.58	
12	301.70	301.68	301.67	301.57	301.90	302.02	301.84	301.97	301.77	301.69	301.61	301.60	
13	301.75	301.70	301.69	301.55	301.88	302.01	301.86	301.92	301.76	301.66	301.62	301.65	
14	301.77	301.70	301.69	301.54	301.82	301.93	301.85	301.89	301.76	301.64	301.62	301.65	
15	301.78	301.71	301.69	301.81	301.82	301.87	301.93	301.86	301.77	301.64	301.62	301.65	
16	301.78	301.74	301.71	301.86	301.88	301.97	301.96	301.85	301.76	301.64	301.60	301.64	
17	301.77	301.71	301.70	301.85	301.85	302.26	302.11	301.83	301.75	301.64	301.59	301.63	
18	301.80	301.65	301.67	301.78	301.80	302.38	302.11	301.83	301.76	301.63	301.59	301.62	
19	301.78	301.58	301.66	301.72	301.76	302.48	302.06	301.85	301.73	301.60	301.59	301.60	
20	301.77	301.54	301.64	301.68	301.74	302.53	301.99	301.84	301.71	301.60	301.58	301.58	
21	301.70	301.51	301.60	301.64	301.73	302.37	301.92	301.84	301.70	301.61	301.58	301.56	
22	301.57	301.51	301.56	301.61	301.71	302.32	301.88	301.85	301.70	301.60	301.59	301.55	
23	301.52	301.52	301.56	301.62	301.70	302.53	301.86	301.85	301.70	301.60	301.60	301.53	
24	301.52	301.60	301.52	301.70	301.71	302.52	301.86	301.82	301.80	301.58	301.60	301.53	
25	301.51	301.61	301.48	301.96	301.77	302.30	301.86	301.81	302.34	301.58	301.62	301.51	
26	301.54	301.64	301.47	301.96	301.77	302.26	301.93	301.82	302.51	301.56	301.64	301.51	
27	301.56	301.65	301.47	301.98	301.83	302.20	301.96	301.83	302.15	301.53	301.63	301.50	
28	301.59	301.65	301.48	301.96	301.87	302.22	301.93	301.87	301.98	301.51	301.61	301.50	
29	301.66	301.67	301.48	301.91	301.82	302.38	301.89	301.88	301.90	301.54		301.50	
30	301.73	301.63	301.50	301.98	301.77	302.46	301.85	301.86	301.87	301.55		301.50	
31		301.52		302.04	301.74		301.84		301.84	301.55		301.49	
Mean	301.68	301.62	301.55	301.70	301.91	302.11	301.96	301.85	301.84	301.64	301.58	301.57	
Max	301.80	301.74	301.71	302.04	302.35	302.53	302.41	302.04	302.51	301.80	301.64	301.65	302.53
Min	301.51	301.46	301.39	301.49	301.70	301.75	301.84	301.78	301.70	301.51	301.50	301.49	301.39

Annual Max Momentary Gage Height 302.63 M (MSL), at 24.00 Hours, on Sep 24, 1992
Zero Gage at Bottom Elevation 300.50 M (MSL), River Bed 300.43 M (MSL)
Left Bank Elevation 305.13 M (MSL)
Right Bank Elevation 306.72 M (MSL), Drainage Area 6355 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.88	7.72	4.00	4.00	70.40	23.46	123.30	31.10	28.98	25.80	4.56	5.26	
2	7.36	7.72	3.76	4.00	75.80	35.34	75.80	31.10	27.92	24.24	4.84	4.98	
3	7.54	7.18	3.40	3.88	81.20	40.60	60.62	27.92	26.86	21.12	5.12	4.70	
4	7.72	6.36	2.92	4.00	65.00	27.92	63.54	25.02	25.80	19.56	4.70	4.70	
5	7.72	6.04	2.68	4.42	43.40	23.46	60.62	24.24	25.02	18.00	4.84	5.12	
6	7.90	5.56	2.80	6.20	70.40	21.90	54.78	24.24	25.02	15.92	4.42	5.26	
7	7.72	4.00	2.68	5.88	111.50	25.02	46.20	24.24	25.02	15.40	4.00	5.26	
8	7.72	3.52	2.80	5.26	103.90	28.98	40.60	24.24	25.02	6.36	4.56	5.40	
9	6.20	3.52	3.52	5.40	65.00	30.04	33.22	24.24	25.80	6.68	4.28	5.56	
10	5.40	3.88	5.12	4.70	44.80	47.60	31.10	39.20	25.02	6.68	4.28	5.26	
11	5.88	5.12	6.52	4.70	35.34	51.86	30.04	56.24	25.02	6.84	4.70	5.12	
12	7.00	6.68	6.52	4.98	36.40	53.32	30.04	46.20	23.46	6.84	5.56	5.40	
13	7.90	7.00	6.84	4.70	34.28	51.86	32.16	39.20	22.68	6.36	5.72	6.20	
14	8.26	7.00	6.84	4.56	27.92	40.60	31.10	35.34	22.68	6.04	5.72	6.20	
15	8.44	7.18	6.84	8.98	27.92	33.22	40.60	32.16	23.46	6.04	5.72	6.20	
16	8.44	7.72	7.18	9.88	34.28	46.20	44.80	31.10	22.68	6.04	5.40	6.04	
17	8.26	7.18	7.00	9.70	31.10	94.40	66.80	28.98	21.90	6.04	5.26	5.88	
18	8.80	6.20	6.52	8.44	25.80	117.20	66.80	28.98	22.68	5.88	5.26	5.72	
19	8.44	5.12	6.36	7.36	22.68	139.40	59.16	31.10	20.34	5.40	5.26	5.40	
20	8.26	4.56	6.04	6.68	21.12	151.80	49.00	30.04	18.78	5.40	5.12	5.12	
21	7.00	4.14	5.40	6.04	20.34	115.30	39.20	30.04	18.00	5.56	5.12	4.84	
22	4.98	4.14	4.84	5.56	18.78	105.80	34.28	31.10	18.00	5.40	5.26	4.70	
23	4.28	4.28	4.84	5.72	18.00	151.80	32.16	31.10	18.00	5.40	5.40	4.42	
24	4.28	5.40	4.28	18.00	18.78	149.20	32.16	27.92	25.80	5.12	5.40	4.42	
25	4.14	5.56	3.76	44.80	23.46	102.00	32.16	26.86	109.60	5.12	5.72	4.14	
26	4.56	6.04	3.64	44.80	23.46	94.40	40.60	27.92	146.60	4.84	6.04	4.14	
27	4.84	6.20	3.64	47.60	28.98	83.00	44.80	28.98	74.00	4.42	5.88	4.00	
28	5.26	6.20	3.76	44.80	33.22	86.80	40.60	33.22	47.60	4.14	5.56	4.00	
29	6.36	6.52	3.76	37.80	27.92	117.20	35.34	34.28	36.40	4.56		4.00	
30	7.54	5.88	4.00	47.60	23.46	134.80	31.10	32.16	33.22	4.70		4.00	
31		4.28		56.24	21.12		30.04		30.04	4.70		3.88	
Total	204.08	177.90	142.26	476.68	1285.76	2224.48	1432.72	938.46	1041.40	274.60	143.70	155.32	8497.36 CMSDAY
Mean	6.80	5.74	4.74	15.38	41.48	74.15	46.22	31.28	33.59	8.86	5.13	5.01	23.28 CMS
Max	8.80	7.72	7.18	56.24	111.50	151.80	123.30	56.24	146.60	25.80	6.04	6.20	151.80 CMS
Min	4.14	3.52	2.68	3.88	18.00	21.90	30.04	24.24	18.00	4.14	4.00	3.88	2.68 CMS
Runoff	17.633	15.371	12.291	41.185	111.090	192.195	123.787	81.083	89.977	23.725	12.416	13.420	734.172 MCM

Momentary Peak 177.80 CMS, at 302.63 M (MSL), at 24.00 Hours, on Sep 24, 1992
Runoff Yield 3.66 Liters/Second/Square KM, Momentary Peak Yield 27.98 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

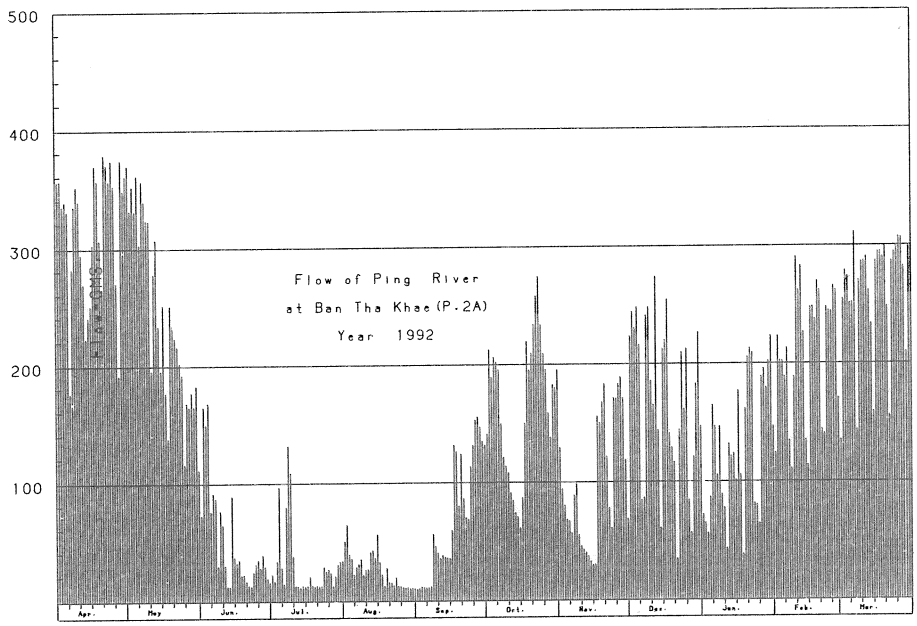
Ping River at Ban Tha Khae, Tak (P.2A)

Location	Lat. 16°-52'-10" N., Long. 99°-07'-50" E., on right bank about 200 meters downstream from Kittikhachon I Bridge, Ban Tha Khae, Amphoe Muang, Tak.
Drainage Area	38,862 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+104.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near automatic gage building.
Elevation	+115.321 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1952 to date.
Rating Operation	
Period of Rating	1952-1960, 1963-1967, 1971 to date.
Rated by Float	-
Rated by Current Meter	1952-1960, 1963-1967, 1971 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Phumiphol Dam reservoir since 1964. Upstream state diversions for irrigation about 40,300 hectares. Stage-discharge relation defined by 69 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.63	105.66	104.75	104.37	104.62	104.01	105.03	104.99	105.29	104.75	104.97	105.01	
2	105.63	105.57	105.11	104.33	104.71	104.01	105.26	104.85	105.35	104.71	105.29	105.38	
3	105.58	105.62	105.06	104.48	104.53	104.20	105.19	104.79	105.31	104.66	105.23	105.44	
4	105.59	105.57	105.12	104.86	104.50	104.11	105.24	104.73	105.36	104.82	105.23	105.43	
5	105.57	105.64	104.77	104.42	104.37	104.11	105.23	104.72	105.27	105.11	105.19	105.37	
6	105.15	105.50	104.84	104.31	104.43	104.08	105.21	104.66	104.81	105.05	105.26	105.37	
7	105.45	105.63	104.82	104.79	104.45	104.21	105.06	104.83	104.82	104.90	105.01	105.52	
8	105.58	105.59	104.44	105.00	104.49	104.66	104.96	104.87	105.34	105.05	104.92	105.04	
9	105.62	105.55	104.77	104.91	104.37	104.59	104.93	104.65	105.36	104.83	105.19	105.42	
10	105.59	105.55	104.71	104.52	104.40	104.54	104.91	104.59	105.18	104.78	105.47	105.46	
11	105.48	105.21	104.44	104.30	104.41	104.50	104.84	104.56	105.11	104.57	105.40	105.46	
12	105.42	105.44	104.26	104.22	104.55	104.52	104.81	104.54	105.43	105.00	105.45	105.47	
13	105.29	105.51	104.19	104.14	104.56	104.51	104.76	104.51	105.04	104.96	105.30	105.40	
14	105.34	105.32	104.83	104.27	104.50	104.50	104.74	104.47	104.69	104.97	105.01	105.32	
15	105.37	105.21	104.51	104.25	104.66	104.50	104.69	104.44	105.26	104.88	104.93	105.09	
16	105.50	105.37	104.46	104.27	104.47	104.68	104.82	104.44	105.28	105.15	105.36	105.46	
17	105.66	105.15	104.49	104.36	104.37	105.00	105.06	105.08	105.38	104.90	105.36	105.48	
18	105.63	105.02	104.37	104.29	104.29	104.98	105.28	105.06	105.03	104.52	105.33	105.48	
19	105.51	105.37	104.37	104.25	104.42	104.79	105.21	105.12	104.99	105.10	105.42	105.47	
20	105.41	105.32	104.33	104.28	104.32	104.97	105.25	105.17	104.94	105.24	105.40	105.49	
21	105.68	105.29	104.30	104.24	104.32	104.82	105.32	104.96	104.49	105.26	105.04	105.36	
22	105.66	105.27	104.29	104.25	104.28	104.74	105.39	104.78	105.04	105.25	105.03	105.08	
23	105.63	105.23	104.39	104.43	104.35	104.73	105.43	104.69	105.25	104.80	105.36	105.46	
24	105.67	105.20	104.45	104.39	104.27	104.93	105.32	105.13	105.10	104.79	105.35	105.48	
25	105.62	104.94	104.49	104.41	104.20	105.00	105.25	105.13	105.26	104.71	105.35	105.49	
26	105.42	105.12	104.42	104.38	104.17	105.07	105.21	105.17	104.81	105.19	105.41	105.51	
27	105.20	105.11	104.53	104.29	104.12	105.08	105.09	105.19	104.66	105.21	105.40	105.51	
28	105.67	105.15	104.43	104.36	104.10	105.05	105.02	105.13	104.96	105.16	105.13	105.45	
29	105.61	105.11	104.35	104.45	104.06	105.01	105.17	104.95	105.17	105.23		105.25	
30	105.64	105.17	104.32	104.47	104.05	105.00	105.16	104.73	105.30	105.29		105.49	
31		104.92		104.48	104.02		105.21		105.05	105.05		105.50	
Mean	105.53	105.33	104.55	104.41	104.37	104.63	105.10	104.83	105.11	104.96	105.24	105.39	
Max	105.68	105.66	105.12	105.00	104.71	105.08	105.43	105.19	105.43	105.29	105.47	105.52	105.68
Min	105.15	104.92	104.19	104.14	104.02	104.01	104.69	104.44	104.49	104.52	104.92	105.01	104.01

Annual Max Momentary Gage Height 105.93 M (MSL), at 6.00 Hours, on Apr 25, 1992
Zero Gage at Bottom Elevation 104.00 M (MSL), River Bed 103.23 M (MSL)
Left Bank Elevation 109.69 M (MSL)
Right Bank Elevation 109.41 M (MSL), Drainage Area 38862 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	357.20	370.40	72.50	22.10	50.20	10.10	141.00	129.40	223.50	72.50	124.20	135.00	
2	357.20	331.70	165.00	16.90	64.90	10.10	213.00	94.00	244.50	64.90	223.50	255.00	
3	335.80	352.80	150.00	34.00	39.30	12.00	189.00	80.10	230.50	56.60	202.50	278.40	
4	339.90	331.70	168.00	96.40	36.00	11.10	206.00	68.70	248.00	86.80	202.50	274.30	
5	331.70	361.60	76.30	28.00	22.10	11.10	202.50	66.80	216.50	165.00	189.00	251.50	
6	177.00	303.00	91.60	14.30	29.00	10.80	195.50	56.60	84.40	147.00	213.00	251.50	
7	282.50	357.20	86.80	80.10	31.00	12.10	150.00	89.20	86.80	106.00	135.00	311.20	
8	335.80	339.90	30.00	132.00	35.00	56.60	121.60	98.80	241.00	147.00	111.20	144.00	
9	352.80	323.50	76.30	108.60	22.10	45.90	113.80	55.00	248.00	89.20	189.00	270.20	
10	339.90	323.50	64.90	38.20	26.00	40.40	108.60	45.90	186.00	78.20	290.70	286.60	
11	294.80	195.50	30.00	13.00	27.00	36.00	91.60	42.60	165.00	43.70	262.00	286.60	
12	270.20	278.40	12.60	12.20	41.50	38.20	84.40	40.40	274.30	132.00	282.50	290.70	
13	223.50	307.10	11.90	11.40	42.60	37.10	74.40	37.10	144.00	121.60	227.00	262.00	
14	241.00	234.00	89.20	12.70	36.00	36.00	70.60	33.00	61.40	124.20	135.00	234.00	
15	251.50	195.50	37.10	12.50	56.60	36.00	61.40	30.00	213.00	101.20	113.80	159.00	
16	303.00	251.50	32.00	12.70	33.00	59.80	86.80	30.00	220.00	177.00	248.00	286.60	
17	370.40	177.00	35.00	20.80	22.10	132.00	150.00	156.00	255.00	106.00	248.00	294.80	
18	357.20	138.00	22.10	12.90	12.90	126.80	220.00	150.00	141.00	38.20	237.50	294.80	
19	307.10	251.50	22.10	12.50	28.00	80.10	195.50	168.00	129.40	162.00	270.20	290.70	
20	266.10	234.00	16.90	12.80	15.60	124.20	209.50	183.00	116.40	206.00	262.00	298.90	
21	379.20	223.50	13.00	12.40	15.60	86.80	234.00	121.60	35.00	213.00	144.00	248.00	
22	370.40	216.50	12.90	12.50	12.80	70.60	258.50	78.20	144.00	209.50	141.00	156.00	
23	357.20	202.50	24.70	29.00	19.50	68.70	274.30	61.40	209.50	82.00	248.00	286.60	
24	374.80	192.00	31.00	24.70	12.70	113.80	234.00	171.00	162.00	80.10	244.50	294.80	
25	352.80	116.40	35.00	27.00	12.00	132.00	209.50	171.00	213.00	64.90	244.50	298.90	
26	270.20	168.00	28.00	23.40	11.70	153.00	195.50	183.00	84.40	189.00	266.10	307.10	
27	192.00	165.00	39.30	12.90	11.20	156.00	159.00	189.00	56.60	195.50	262.00	307.10	
28	374.80	177.00	29.00	20.80	11.00	147.00	138.00	171.00	121.60	180.00	171.00	282.50	
29	348.40	165.00	19.50	31.00	10.60	135.00	183.00	119.00	183.00	202.50		209.50	
30	361.60	183.00	15.60	33.00	10.50	132.00	180.00	68.70	227.00	223.50		298.90	
31		111.20		34.00	10.20		195.50		147.00	147.00		303.00	
Total	9476.00	7577.90	1538.30	964.80	808.70	2121.30	5146.50	2988.50	5311.80	4012.10	5887.70	8148.20	53981.80 CMSDAY
Mean	315.87	244.45	51.28	31.12	26.09	70.71	166.02	99.62	171.35	129.42	210.28	262.85	147.90 CMS
Max	379.20	370.40	168.00	132.00	64.90	156.00	274.30	189.00	274.30	223.50	290.70	311.20	379.20 CMS
Min	177.00	111.20	11.90	11.40	10.20	10.10	61.40	30.00	35.00	38.20	111.20	135.00	10.10 CMS
Runoff	818.726	654.731	132.909	83.359	69.872	183.280	444.658	258.206	458.940	346.645	508.697	704.005	4664.028 MCM

Momentary Peak 497.60 CMS, at 105.93 M (MSL), at 6.00 Hours, on Apr 25, 1992
Runoff Yield 3.81 Liters/Second/Square KM, Momentary Peak Yield 12.80 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

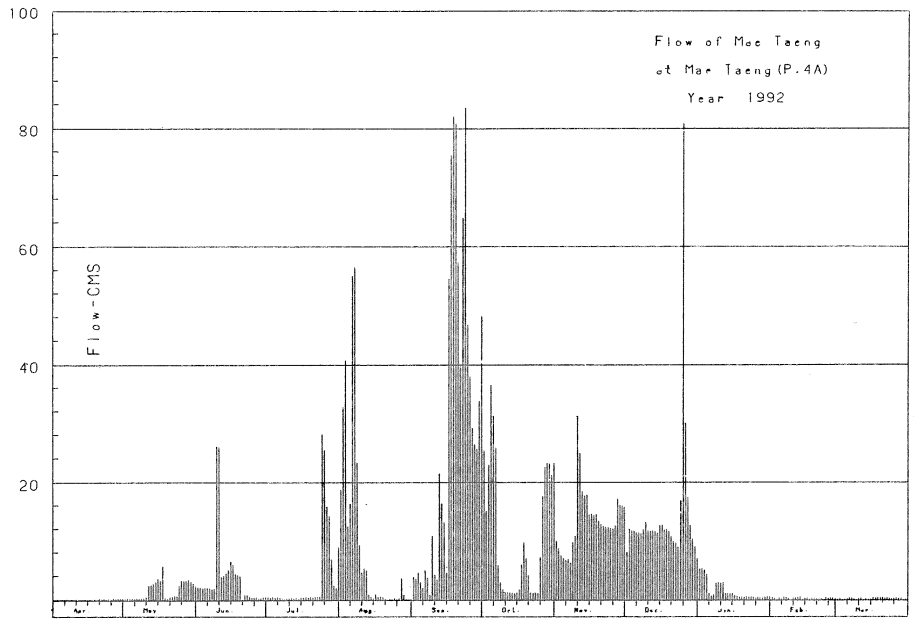
Mae Taeng River at Mae Taeng, Chiang Mai (P.4A)

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	+333.745 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	In the vicinity of Amphoe Mae Taeng office.
Elevation	+338.736 m. (M.S.L.)
Gage Reading Frequency	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 by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Upstream state diversions for irrigation about 23,700 hectares at Mae Taeng Wier. Stage-discharge relation defined by 44 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	334.75	334.78	335.11	334.82	336.13	335.33	336.03	335.41	335.31	335.14	334.58	334.55	
2	334.75	334.78	335.11	334.82	336.66	335.29	335.64	335.34	335.51	335.14	334.58	334.55	
3	334.75	334.78	335.10	334.82	336.91	335.39	335.95	335.28	335.49	335.13	334.58	334.55	
4	334.75	334.77	335.10	334.82	335.85	335.23	336.39	335.25	335.49	335.07	334.58	334.54	
5	334.75	334.77	335.10	334.82	336.04	335.09	336.23	335.24	335.48	334.74	334.58	334.54	
6	334.75	334.77	335.09	334.82	337.32	335.43	336.05	335.24	335.47	334.66	334.58	334.54	
7	334.75	334.77	335.08	334.80	337.36	335.31	335.18	335.21	335.47	334.70	334.58	334.54	
8	334.75	334.79	335.08	334.79	336.32	334.92	334.96	335.39	335.50	334.95	334.58	334.54	
9	334.75	334.79	336.43	334.79	335.70	335.77	334.82	335.45	335.56	334.95	334.58	334.54	
10	334.75	334.82	336.42	334.79	335.40	335.37	334.76	336.23	335.49	334.95	334.58	334.54	
11	334.74	335.16	335.33	334.79	335.45	335.27	334.75	336.02	335.49	334.95	334.58	334.54	
12	334.74	335.17	335.34	334.79	335.43	336.25	334.74	335.78	335.49	334.75	334.58	334.54	
13	334.74	335.19	335.39	334.79	334.93	336.04	334.74	335.75	335.49	334.73	334.58	334.54	
14	334.74	335.24	335.43	334.80	334.84	335.89	334.74	335.76	335.47	334.73	334.58	334.54	
15	334.74	335.29	335.54	334.81	334.84	335.40	334.74	335.62	335.53	334.73	334.58	334.54	
16	334.74	335.25	335.50	334.82	334.93	336.86	334.83	335.62	335.54	334.69	334.58	334.55	
17	334.75	335.49	335.38	334.83	334.84	337.29	335.19	335.61	335.50	334.62	334.58	334.55	
18	334.75	334.79	335.35	334.83	334.84	337.41	335.39	335.62	335.50	334.60	334.57	334.55	
19	334.75	334.79	335.34	334.83	334.84	337.39	335.26	335.57	335.49	334.60	334.57	334.55	
20	334.76	334.82	334.39	334.83	334.78	336.92	335.06	335.54	335.44	334.59	334.56	334.55	
21	334.77	334.86	334.90	334.83	334.75	336.48	334.75	335.53	335.40	334.59	334.56	334.54	
22	334.76	334.87	334.93	334.84	334.75	337.08	334.74	335.52	335.39	334.59	334.55	334.54	
23	334.76	334.87	334.84	334.84	334.76	337.44	334.74	335.52	335.35	334.59	334.55	334.53	
24	334.76	335.15	334.82	336.51	334.78	336.67	334.74	335.51	335.72	334.59	334.55	334.53	
25	334.76	335.25	334.82	336.40	334.77	336.43	335.26	335.51	337.39	334.59	334.55	334.53	
26	334.77	335.26	334.82	336.02	334.79	336.16	335.75	335.53	336.19	334.59	334.55	334.53	
27	334.77	335.26	334.83	335.94	335.31	336.07	335.94	335.73	335.74	334.59	334.55	334.52	
28	334.77	335.27	334.83	335.56	334.90	336.04	335.96	335.69	335.54	334.59	334.55	334.52	
29	334.77	335.24	334.83	335.15	334.79	336.31	335.96	335.68	335.42	334.59		334.51	
30	334.77	335.19	334.82	335.11	334.78	336.71	335.89	335.67	335.36	334.59		334.50	
31		335.14		335.67	334.77		335.96		335.25	334.59		334.50	
Mean	334.75	335.01	335.17	335.07	335.37	336.11	335.33	335.56	335.56	334.74	334.57	334.54	
Max	334.77	335.49	336.43	336.51	337.36	337.44	336.39	336.23	337.39	335.14	334.58	334.55	337.44
Min	334.74	334.77	334.39	334.79	334.75	334.92	334.74	335.21	335.25	334.59	334.55	334.50	334.39

Annual Max Momentary Gage Height 337.74 M (MSL), at 4.00 Hours, on Sep 23, 1992
Zero Gage at Bottom Elevation 333.74 M (MSL), River Bed 334.19 M (MSL)
Left Bank Elevation 339.02 M (MSL)
Right Bank Elevation 338.35 M (MSL), Drainage Area 1902 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.32	2.17	0.49	18.75	4.03	25.40	10.20	8.20	5.36	0.57	0.47	
2	0.20	0.32	2.17	0.49	32.80	3.63	15.12	8.80	12.22	5.36	0.57	0.47	
3	0.20	0.32	2.10	0.49	40.85	4.65	23.00	7.64	11.80	5.22	0.57	0.47	
4	0.20	0.28	2.10	0.49	12.50	3.11	36.65	7.10	11.80	4.41	0.57	0.44	
5	0.20	0.28	2.10	0.49	16.50	2.03	31.40	6.92	11.60	1.23	0.57	0.44	
6	0.20	0.28	2.03	0.49	55.20	5.12	26.00	6.92	11.40	0.82	0.57	0.44	
7	0.20	0.28	1.96	0.40	56.60	3.82	5.92	6.38	11.40	0.95	0.57	0.44	
8	0.20	0.36	1.96	0.36	23.50	0.96	3.10	9.80	12.00	3.00	0.57	0.44	
9	0.20	0.36	26.25	0.36	9.50	10.90	1.82	11.00	13.32	3.00	0.57	0.44	
10	0.20	0.49	26.00	0.36	4.75	4.44	1.37	31.40	11.80	3.00	0.57	0.44	
11	0.16	2.55	4.03	0.36	5.38	3.46	1.30	25.10	11.80	3.00	0.57	0.44	
12	0.16	2.63	4.13	0.36	5.12	21.75	1.23	18.50	11.80	1.30	0.57	0.44	
13	0.16	2.77	4.65	0.36	1.01	16.50	1.23	17.75	11.80	1.16	0.57	0.44	
14	0.16	3.20	5.12	0.40	0.58	13.30	1.23	18.00	11.40	1.16	0.57	0.44	
15	0.16	3.63	6.70	0.45	0.58	4.75	1.23	14.66	12.66	1.16	0.57	0.44	
16	0.16	3.29	6.00	0.49	1.01	54.70	1.90	14.66	12.88	0.92	0.57	0.47	
17	0.20	5.87	4.54	0.53	0.58	75.50	6.06	14.43	12.00	0.70	0.57	0.47	
18	0.20	0.36	4.24	0.53	0.58	82.05	9.80	14.66	12.00	0.63	0.54	0.47	
19	0.20	0.36	4.13	0.53	0.58	80.95	7.28	13.54	11.80	0.63	0.54	0.47	
20	0.24	0.49	0.00	0.53	0.32	57.40	4.28	12.88	10.80	0.60	0.51	0.47	
21	0.28	0.67	0.85	0.53	0.20	39.80	1.30	12.66	10.00	0.60	0.51	0.44	
22	0.24	0.72	1.01	0.58	0.20	65.00	1.23	12.44	9.80	0.60	0.47	0.44	
23	0.24	0.72	0.58	0.58	0.24	83.70	1.23	12.44	9.00	0.60	0.47	0.41	
24	0.24	2.47	0.49	28.30	0.32	46.80	1.23	12.22	17.00	0.60	0.47	0.41	
25	0.24	3.29	0.49	25.50	0.28	38.05	7.28	12.22	80.95	0.60	0.47	0.41	
26	0.28	3.37	0.49	16.00	0.36	29.30	17.75	12.66	30.20	0.60	0.47	0.41	
27	0.28	3.37	0.53	14.30	3.82	26.60	22.70	17.25	17.50	0.60	0.47	0.38	
28	0.28	3.46	0.53	7.05	0.85	25.70	23.30	16.27	12.88	0.60	0.47	0.38	
29	0.28	3.20	0.53	2.47	0.36	33.85	23.30	16.04	10.40	0.60		0.35	
30	0.28	2.77	0.49	2.17	0.32	48.40	21.25	15.81	9.20	0.60		0.32	
31		2.40		8.98	0.28		23.30		7.10	0.60		0.32	
Total	6.44	54.88	118.37	115.42	293.92	890.25	349.19	410.35	448.51	50.21	15.08	13.31	2765.93 CMSDAY
Mean	0.21	1.77	3.95	3.72	9.48	29.67	11.26	13.68	14.47	1.62	0.54	0.43	7.58 CMS
Max	0.28	5.87	26.25	28.30	56.60	83.70	36.65	31.40	80.95	5.36	0.57	0.47	83.70 CMS
Min	0.16	0.28	0.00	0.36	0.20	0.96	1.23	6.38	7.10	0.60	0.47	0.32	0.00 CMS
Runoff	0.556	4.742	10.227	9.972	25.395	76.918	30.170	35.454	38.751	4.338	1.303	1.150	238.976 MCM

Momentary Peak 100.90 CMS, at 337.74 M (MSL), at 4.00 Hours, on Sep 23, 1992

Runoff Yield 3.98 Liters/Second/Square KM, Momentary Peak Yield 53.05 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

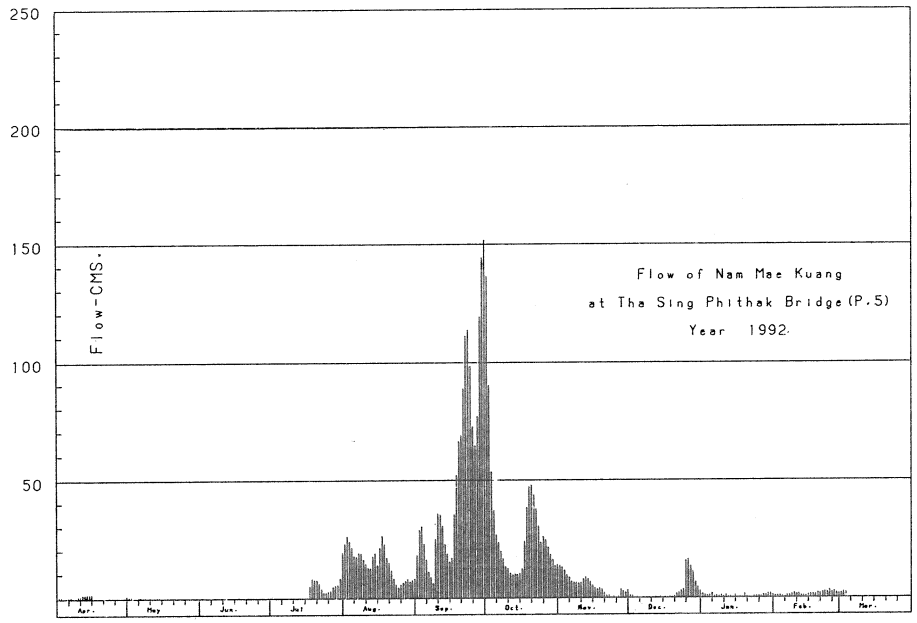
Nam Mae Kuang at Tha Sing Phithak Bridge, Lamphun (P.5)

Location	Lat. 18°-34'-32" N., Long. 99°-00'-44" E., on right bank about 10 meters downstream from Tha Sing Phitak Bridge, Amphoe Muang, Lamphun.
Drainage Area	1,569 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+288.50 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank near the abutment of the bridge.
Elevation	+296.000 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1951 to date.
Rating Operation	
Period of Rating	1954-1960, 1967 to date.
Rated by Float	-
Rated by Current Meter	1954-1960, 1967 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation + 293.34 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Upstream state diversions for irrigation about 9,600 hectares at Mae Kuang Weir. Stage-discharge relation defined by 43 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	289.10	289.11	288.92	288.88	290.65	290.40	293.81	290.15	289.17	289.28	289.14	289.30	
2	289.09	289.07	288.89	288.84	290.81	290.93	292.89	290.10	289.12	289.18	289.12	289.37	
3	288.99	289.04	288.90	288.84	290.71	290.98	291.88	290.03	289.06	289.15	289.17	289.33	
4	288.92	289.03	288.90	288.84	290.57	290.66	291.26	289.90	289.04	289.15	289.10	289.38	
5	289.06	289.01	288.89	288.84	290.40	290.30	290.84	289.86	289.01	289.30	289.07	289.52	
6	289.00	289.01	288.90	288.84	290.36	290.00	290.68	289.74	288.95	289.10	289.14	290.41	
7	289.00	289.03	288.90	288.87	290.47	289.85	290.51	289.74	289.00	289.12	289.17	291.13	
8	289.12	289.02	288.90	288.88	290.44	289.71	290.31	289.71	288.95	289.11	289.20	291.21	
9	289.14	289.00	288.91	288.85	290.31	290.74	290.12	289.71	289.00	289.15	289.31	291.20	
10	289.10	288.99	289.05	288.85	290.18	291.21	290.06	289.71	288.95	289.10	289.24	291.21	
11	289.25	288.98	289.05	288.85	290.10	291.20	289.95	289.82	288.97	289.16	289.24	291.20	
12	289.25	289.03	288.91	288.85	290.07	290.99	289.92	289.85	289.03	289.09	289.15	291.21	
13	289.24	289.01	288.95	288.85	290.39	290.66	289.94	289.82	289.03	289.05	289.10	291.21	
14	289.27	288.99	288.97	288.85	290.45	290.43	289.91	289.73	289.04	289.06	289.11	291.21	
15	289.24	288.96	288.99	288.90	290.17	290.25	289.94	289.66	288.99	289.15	289.20	291.21	
16	289.08	288.91	288.96	288.97	290.58	290.33	290.07	289.55	288.99	289.07	289.23	291.21	
17	288.99	288.88	288.97	289.63	290.82	291.20	290.70	289.53	289.03	289.06	289.25	291.21	
18	288.98	288.86	288.97	289.81	290.64	291.82	291.33	289.54	289.02	289.05	289.19	291.21	
19	288.93	288.96	288.96	289.78	290.35	292.28	291.66	289.52	289.05	289.23	289.32	291.21	
20	288.92	288.96	288.95	289.80	290.21	292.34	291.69	289.32	289.06	289.09	289.26	291.24	
21	288.94	288.95	288.95	289.69	290.02	292.86	291.54	289.16	289.28	289.01	289.37	291.22	
22	288.93	288.97	288.98	289.54	289.83	293.31	291.29	289.16	289.30	289.00	289.36	291.21	
23	288.94	288.95	288.90	289.32	289.66	293.37	291.00	289.05	289.45	289.05	289.38	291.21	
24	288.94	288.94	288.90	289.35	289.60	293.06	290.68	289.06	289.48	289.12	289.45	291.21	
25	288.93	288.93	288.91	289.39	289.66	292.45	290.80	289.01	290.28	289.12	289.37	291.18	
26	288.93	288.89	288.89	289.42	289.73	292.22	290.73	289.05	290.29	289.10	289.40	291.18	
27	288.94	288.88	288.89	289.62	289.77	292.57	290.59	289.53	290.14	289.18	289.32	291.19	
28	288.93	288.89	288.89	289.63	289.80	293.47	290.41	289.41	290.00	289.20	289.25	291.19	
29	288.99	288.89	288.90	289.66	289.76	293.95	290.30	289.37	289.74	289.26		291.21	
30	289.14	288.89	288.98	289.84	289.77	294.09	290.13	289.45	289.58	289.27		291.20	
31		288.89		290.46	289.81		290.16		289.41	289.17		291.20	
Mean	289.04	288.97	288.93	289.25	290.20	291.59	290.81	289.57	289.27	289.13	289.24	290.88	
Max	289.27	289.11	289.05	290.46	290.82	294.09	293.81	290.15	290.29	289.30	289.45	291.24	294.09
Min	288.92	288.86	288.89	288.84	289.60	289.71	289.91	289.01	288.95	289.00	289.07	289.30	288.84

Annual Max Momentary Gage Height 294.10 M (MSL), at 9.00 Hours, on Sep 30, 1992
Zero Gage at Bottom Elevation 288.50 M (MSL), River Bed 288.63 M (MSL)
Left Bank Elevation 293.33 M (MSL)
Right Bank Elevation 295.75 M (MSL), Drainage Area 1569 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.86	0.16	0.08	23.07	18.20	136.55	13.95	1.22	1.96	1.04	2.10	
2	0.76	0.68	0.09	0.04	26.52	29.22	90.10	13.10	0.92	1.28	0.92	2.59	
3	0.37	0.56	0.10	0.04	24.32	30.42	53.90	11.91	0.64	1.10	1.22	2.31	
4	0.16	0.52	0.10	0.04	21.44	23.28	37.14	9.70	0.56	1.10	0.80	0.00	
5	0.64	0.44	0.09	0.04	18.20	16.50	27.18	9.02	0.44	2.10	0.68	0.00	
6	0.40	0.44	0.10	0.04	17.52	11.40	23.69	6.98	0.25	0.80	1.04	0.00	
7	0.40	0.52	0.10	0.07	19.46	8.85	20.21	6.98	0.40	0.92	1.22	0.00	
8	0.92	0.48	0.10	0.08	18.92	6.47	16.67	6.47	0.25	0.86	1.40	0.00	
9	1.04	0.40	0.13	0.05	16.67	24.98	13.44	6.47	0.40	1.10	2.17	0.00	
10	0.80	0.37	0.60	0.05	14.46	35.94	12.42	6.47	0.25	0.80	1.68	0.00	
11	1.75	0.34	0.60	0.05	13.10	35.70	10.55	8.34	0.31	1.16	1.68	0.00	
12	1.75	0.52	0.13	0.05	12.59	30.66	10.04	8.85	0.52	0.76	1.10	0.00	
13	1.68	0.44	0.25	0.05	18.03	23.28	10.38	8.34	0.52	0.60	0.80	0.00	
14	1.89	0.37	0.31	0.05	19.10	18.74	9.87	6.81	0.56	0.64	0.86	0.00	
15	1.68	0.28	0.37	0.10	14.29	15.65	10.38	5.66	0.37	1.10	1.40	0.00	
16	0.72	0.13	0.28	0.31	21.64	17.01	12.59	4.20	0.37	0.68	1.61	0.00	
17	0.37	0.08	0.31	5.18	26.74	35.70	24.10	4.00	0.52	0.64	1.75	0.00	
18	0.34	0.06	0.31	8.17	22.87	52.10	38.82	4.10	0.48	0.60	1.34	0.00	
19	0.19	0.28	0.28	7.66	17.35	66.80	47.30	3.90	0.60	1.61	2.24	0.00	
20	0.16	0.28	0.25	8.00	14.97	68.90	48.20	2.24	0.64	0.76	1.82	0.00	
21	0.22	0.25	0.25	6.14	11.74	88.90	44.00	1.16	1.96	0.44	2.59	0.00	
22	0.19	0.31	0.34	4.10	8.51	111.00	37.86	1.16	2.10	0.40	2.52	0.00	
23	0.22	0.25	0.10	2.24	5.66	114.00	30.90	0.60	3.25	0.60	2.66	0.00	
24	0.22	0.22	0.10	2.45	4.70	98.50	23.69	0.64	3.52	0.92	3.25	0.00	
25	0.19	0.19	0.13	2.73	5.66	72.75	26.30	0.44	16.16	0.92	2.59	0.00	
26	0.19	0.09	0.09	2.98	6.81	64.70	24.76	0.60	16.33	0.80	2.80	0.00	
27	0.22	0.08	0.09	5.02	7.49	77.30	21.84	4.00	13.78	1.28	2.24	0.00	
28	0.19	0.09	0.09	5.18	8.00	119.00	18.38	2.89	11.40	1.40	1.75	0.00	
29	0.37	0.09	0.10	5.66	7.32	144.25	16.50	2.59	6.98	1.82		0.00	
30	1.04	0.09	0.34	8.68	7.49	151.95	13.61	3.25	4.50	1.89		0.00	
31		0.09		19.28	8.17		14.12		2.89	1.22		0.00	
Total	19.87	9.80	6.29	94.61	462.81	1612.15	925.49	164.82	93.09	32.26	47.17	7.00	3475.36 CMSDAY
Mean	0.66	0.32	0.21	3.05	14.93	53.74	29.85	5.49	3.00	1.04	1.68	0.23	9.52 CMS
Max	1.89	0.86	0.60	19.28	26.74	151.95	136.55	13.95	16.33	2.10	3.25	2.59	151.95 CMS
Min	0.16	0.06	0.09	0.04	4.70	6.47	9.87	0.44	0.25	0.40	0.68	0.00	0.00 CMS
Runoff	1.717	0.847	0.543	8.174	39.987	139.290	79.962	14.240	8.043	2.787	4.075	0.605	300.271 MCM

Momentary Peak 152.50 CMS, at 294.10 M (MSL), at 9.00 Hours, on Sep 30, 1992
Runoff Yield 6.07 Liters/Second/Square KM, Momentary Peak Yield 97.20 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

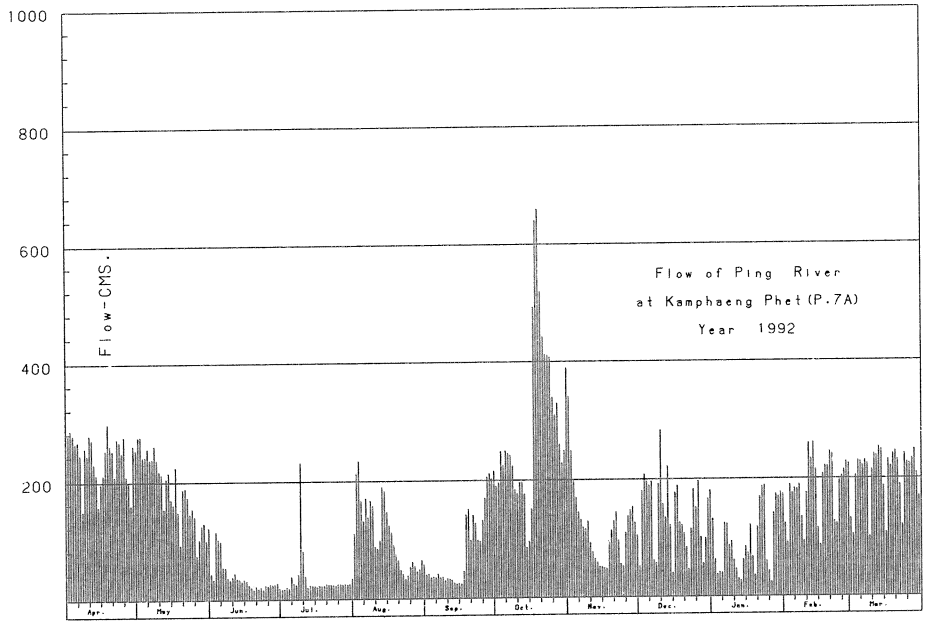
Ping River at Ban Huai Yang, Kamphaeng Phet (P.7A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow completely regulated by Phumiphol Dam reservior and diverted for irrigation about 40,300 hectares at above gage site. Stage-discharge relation defined by 36 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	73.62	73.61	72.86	72.73	73.10	72.85	73.36	73.78	72.89	73.18	73.15	73.18	
2	73.64	73.61	72.82	72.73	73.43	72.85	73.38	73.54	73.33	72.94	73.04	73.08	
3	73.62	73.52	73.12	72.75	73.50	72.83	73.54	73.39	73.42	72.84	73.36	73.41	
4	73.58	73.52	73.07	72.74	73.29	72.83	73.47	73.30	73.38	72.85	73.32	73.49	
5	73.59	73.56	73.06	72.84	73.18	72.83	73.54	73.22	73.36	72.85	73.34	73.48	
6	73.53	73.51	72.90	72.79	73.30	72.85	73.53	73.18	73.38	73.16	73.34	73.46	
7	73.24	73.51	72.90	72.78	73.20	72.83	73.52	73.13	72.93	73.15	73.36	73.49	
8	73.56	73.57	72.83	72.85	73.29	72.83	73.47	73.12	72.91	73.02	73.19	73.47	
9	73.53	73.51	72.82	73.49	73.26	72.81	73.34	73.17	73.37	73.04	73.04	73.07	
10	73.62	73.45	72.84	73.00	73.02	72.82	73.32	73.04	73.63	72.93	73.32	73.44	
11	73.60	73.43	72.86	72.84	73.01	72.82	73.38	72.98	73.26	72.87	73.57	73.52	
12	73.49	73.25	72.83	72.75	73.06	72.81	73.38	72.94	73.19	72.81	73.50	73.51	
13	73.43	73.41	72.82	72.77	73.36	72.79	73.32	72.92	73.46	72.79	73.57	73.55	
14	73.26	73.44	72.81	72.77	73.34	72.78	73.01	72.89	73.14	72.93	73.44	73.54	
15	73.38	73.30	72.82	72.77	73.23	72.78	73.05	72.89	72.85	73.01	73.12	73.35	
16	73.43	73.27	72.81	72.75	73.15	72.78	73.24	72.88	73.32	72.97	73.02	73.09	
17	73.55	73.47	72.78	72.77	73.11	72.87	74.13	72.88	73.36	73.14	73.42	73.49	
18	73.67	73.23	72.75	72.76	73.03	73.21	74.46	73.05	73.16	72.95	73.46	73.46	
19	73.57	73.04	72.73	72.77	72.98	73.24	74.50	73.11	73.14	72.83	73.46	73.52	
20	73.55	73.35	72.76	72.78	72.94	73.06	74.19	73.17	73.09	73.13	73.53	73.53	
21	73.42	73.36	72.74	72.78	72.88	73.21	74.02	73.22	73.01	73.30	73.52	73.49	
22	73.60	73.31	72.75	72.78	72.85	73.16	73.95	73.05	72.87	73.35	73.16	73.36	
23	73.59	73.22	72.73	72.77	72.82	73.06	73.95	72.91	73.12	73.36	73.15	73.14	
24	73.54	73.25	72.77	72.77	72.84	73.05	73.94	72.89	73.34	72.92	73.39	73.52	
25	73.61	73.21	72.77	72.78	72.90	73.18	73.78	73.10	73.24	72.86	73.41	73.48	
26	73.42	72.97	72.78	72.78	72.93	73.30	73.70	73.20	73.38	72.78	73.44	73.47	
27	73.39	73.07	72.78	72.78	72.90	73.41	73.75	73.23	73.07	73.21	73.48	73.50	
28	73.27	73.15	72.78	72.78	72.87	73.43	73.57	73.25	72.91	73.31	73.47	73.54	
29	73.57	73.17	72.80	72.78	72.88	73.40	73.48	73.16	73.06	73.30		73.42	
30	73.55	73.06	72.74	72.78	72.94	73.44	73.54	73.08	73.29	73.32		73.30	
31		73.14		72.83	72.91		73.90		73.33	73.31		73.45	
Mean	73.51	73.34	72.83	72.81	73.08	73.00	73.64	73.12	73.20	73.05	73.34	73.41	
Max	73.67	73.61	73.12	73.49	73.50	73.44	74.50	73.78	73.63	73.36	73.57	73.55	74.50
Min	73.24	72.97	72.73	72.73	72.82	72.78	73.01	72.88	72.85	72.78	73.02	73.07	72.73

Annual Max Momentary Gage Height 74.55 M (MSL), at 6.00 Hours, on Oct 19, 1992
Zero Gage at Bottom Elevation 71.73 M (MSL), River Bed 71.74 M (MSL)
Left Bank Elevation 77.93 M (MSL)
Right Bank Elevation 77.27 M (MSL), Drainage Area 42700 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	279.60	275.80	43.60	16.80	110.00	41.00	189.20	340.40	51.40	132.40	124.00	132.40	
2	287.20	275.80	33.20	16.80	211.60	41.00	195.60	249.20	179.60	65.20	93.20	104.40	
3	279.60	241.60	115.60	20.00	234.00	35.80	249.20	198.80	208.40	38.40	189.20	205.20	
4	264.40	241.60	101.60	18.40	166.80	35.80	224.40	170.00	195.60	41.00	176.40	230.80	
5	268.20	256.80	98.80	38.40	132.40	35.80	249.20	144.40	189.20	41.00	182.80	227.60	
6	245.40	237.80	54.00	26.40	170.00	41.00	245.40	132.40	195.60	126.80	182.80	221.20	
7	150.80	237.80	54.00	24.80	138.00	35.80	241.60	118.40	62.40	124.00	189.20	230.80	
8	256.80	260.60	35.80	41.00	166.80	35.80	224.40	115.60	56.80	87.60	135.20	224.40	
9	245.40	237.80	33.20	230.80	157.20	30.60	182.80	129.60	192.40	93.20	93.20	101.60	
10	279.60	218.00	38.40	82.00	87.60	33.20	176.40	93.20	283.40	62.40	176.40	214.80	
11	272.00	211.60	43.60	38.40	84.80	33.20	195.60	76.40	157.20	46.20	260.60	241.60	
12	230.80	154.00	35.80	20.00	98.80	30.60	195.60	65.20	135.20	30.60	234.00	237.80	
13	211.60	205.20	33.20	23.20	189.20	26.40	176.40	59.60	221.20	26.40	260.60	253.00	
14	157.20	214.80	30.60	23.20	182.80	24.80	84.80	51.40	121.20	62.40	214.80	249.20	
15	195.60	170.00	33.20	23.20	147.60	24.80	96.00	51.40	41.00	84.80	115.60	186.00	
16	211.60	160.40	30.60	20.00	124.00	24.80	150.80	48.80	176.40	73.60	87.60	107.20	
17	253.00	224.40	24.80	23.20	112.80	46.20	492.50	48.80	189.20	121.20	208.40	230.80	
18	298.60	147.60	20.00	21.60	90.40	141.20	641.00	96.00	126.80	68.00	221.20	221.20	
19	260.60	93.20	16.80	23.20	76.40	150.80	659.00	112.80	121.20	35.80	221.20	241.60	
20	253.00	186.00	21.60	24.80	65.20	98.80	519.50	129.60	107.20	118.40	245.40	245.40	
21	208.40	189.20	18.40	24.80	48.80	141.20	443.00	144.40	84.80	170.00	241.60	230.80	
22	272.00	173.20	20.00	24.80	41.00	126.80	412.00	96.00	46.20	186.00	126.80	189.20	
23	268.20	144.40	16.80	23.20	33.20	98.80	412.00	56.80	115.60	189.20	124.00	121.20	
24	249.20	154.00	23.20	23.20	38.40	96.00	407.60	51.40	182.80	59.60	198.80	241.60	
25	275.80	141.20	23.20	24.80	54.00	132.40	340.40	110.00	150.80	43.60	205.20	227.60	
26	208.40	73.60	24.80	24.80	62.40	170.00	310.00	138.00	195.60	24.80	214.80	224.40	
27	198.80	101.60	24.80	24.80	54.00	205.20	329.00	147.60	101.60	141.20	227.60	234.00	
28	160.40	124.00	24.80	24.80	46.20	211.60	260.60	154.00	56.80	173.20	224.40	249.20	
29	260.60	129.60	28.00	24.80	48.80	202.00	227.60	126.80	98.80	170.00		208.40	
30	253.00	98.80	18.40	24.80	65.20	214.80	249.20	104.40	166.80	176.40		170.00	
31		121.20		35.80	56.80		390.00		179.60	173.20		218.00	
Total	7255.80	5701.60	1120.80	1036.80	3295.20	2566.20	9170.80	3561.40	4390.80	2986.60	5175.00	6421.40	52682.41 CMSDAY
Mean	241.86	183.92	37.36	33.45	106.30	85.54	295.83	118.71	141.64	96.34	184.82	207.14	144.34 CMS
Max	298.60	275.80	115.60	230.80	234.00	214.80	659.00	340.40	283.40	189.20	260.60	253.00	659.00 CMS
Min	150.80	73.60	16.80	16.80	33.20	24.80	84.80	48.80	41.00	24.80	87.60	101.60	16.80 CMS
Runoff	626.901	492.618	96.837	89.580	284.705	221.720	792.357	307.705	379.365	258.042	447.120	554.809	4551.760 MCM

Momentary Peak 682.00 CMS, at 74.55 M (MSL), at 6.00 Hours, on Oct 19, 1992

Runoff Yield 3.38 Liters/Second/Square KM, Momentary Peak Yield 15.97 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

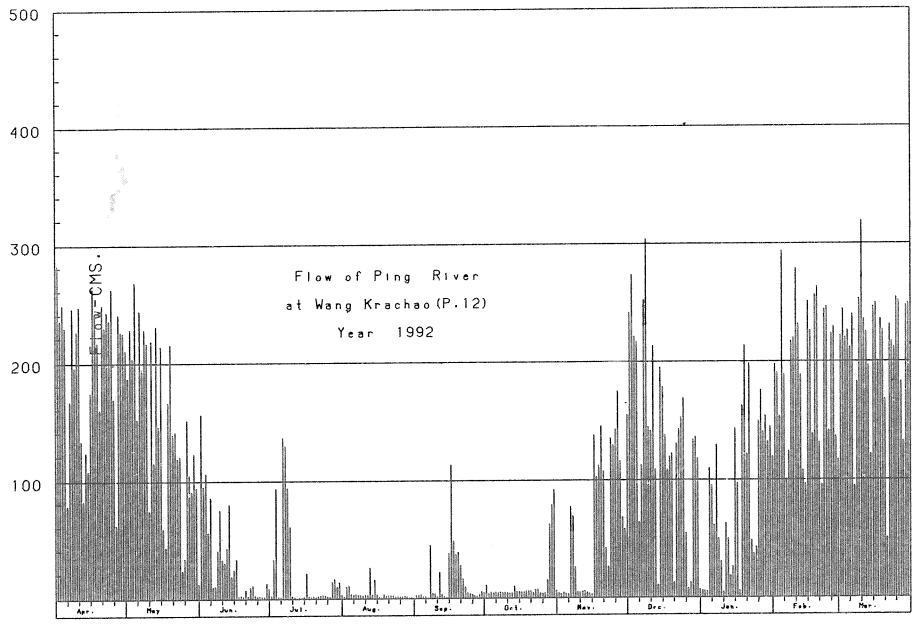
Ping River at Wang Kra Chao, Tak (P.12)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Phumiphol Dam reservior and diverted for irrigation about 28,000 hectares at above gage site. Stage-discharge relation defined by 32 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.39	133.81	133.59	131.92	131.90	131.92	132.14	131.99	134.15	132.03	133.88	134.03	
2	134.12	134.07	133.10	132.49	132.11	131.93	131.97	131.95	134.34	132.01	133.83	134.17	
3	134.20	133.92	133.20	133.09	132.15	131.94	132.00	132.00	134.03	132.01	133.57	134.02	
4	134.08	134.31	132.74	131.90	131.96	131.89	132.00	131.96	134.00	133.23	134.45	134.06	
5	132.96	133.56	133.02	131.89	131.95	131.88	132.00	131.96	132.82	133.10	133.82	133.97	
6	133.67	134.17	132.12	133.44	131.95	131.86	132.00	132.94	133.25	132.79	133.15	134.14	
7	134.18	133.86	132.12	133.39	131.95	132.63	132.00	132.87	134.22	133.39	133.35	133.10	
8	133.87	134.07	132.59	133.09	131.93	131.99	132.00	132.40	134.51	132.68	134.00	133.78	
9	134.06	134.00	132.92	132.79	131.92	131.96	132.00	132.01	133.50	132.46	134.02	134.22	
10	134.19	132.92	132.49	131.90	131.94	131.89	132.00	131.99	133.48	132.00	134.37	134.59	
11	133.42	134.01	132.46	131.87	131.94	132.34	131.97	132.02	133.98	132.81	134.09	134.12	
12	132.99	133.28	132.61	131.86	132.40	131.96	131.99	132.02	133.22	132.68	133.82	134.05	
13	133.35	134.09	132.97	131.85	131.96	131.89	132.11	132.00	132.14	132.28	133.21	133.87	
14	133.22	133.51	132.28	131.85	132.24	131.87	132.01	131.96	133.86	132.40	133.11	133.33	
15	133.72	133.98	132.38	131.89	131.96	132.55	132.02	131.95	133.75	133.49	134.21	134.18	
16	134.28	132.77	132.50	132.33	131.88	133.26	132.00	133.45	133.45	133.12	134.06	134.20	
17	134.16	132.62	131.90	131.90	131.86	132.67	132.01	133.17	133.22	132.01	133.46	133.90	
18	134.00	133.66	131.92	131.89	131.95	132.54	132.02	133.25	133.31	133.63	134.24	134.12	
19	133.62	134.00	131.91	131.90	131.92	132.57	132.03	133.51	133.33	133.98	134.28	134.06	
20	134.20	133.46	132.06	131.89	131.92	132.43	132.02	133.21	132.18	133.33	133.40	133.67	
21	134.08	133.48	131.92	131.90	131.93	132.24	132.00	132.60	133.40	133.88	133.11	132.69	
22	134.16	133.31	132.10	131.93	131.92	132.11	132.05	132.41	133.49	132.67	134.17	134.09	
23	134.12	133.32	132.15	131.93	131.89	131.99	132.05	133.43	133.56	132.54	134.18	134.00	
24	134.28	132.37	131.94	131.93	131.92	131.98	131.99	133.39	133.68	132.61	133.48	133.97	
25	133.68	132.50	131.91	131.90	131.89	131.96	131.98	133.49	132.73	133.54	134.04	134.23	
26	132.80	133.55	131.90	131.89	131.88	131.91	131.97	133.72	132.06	133.73	134.08	134.21	
27	134.15	133.19	131.89	132.21	131.92	131.89	132.23	133.28	132.18	133.47	133.44	133.78	
28	134.06	133.06	131.90	132.24	131.88	131.95	132.80	132.86	133.42	133.57	133.29	133.41	
29	134.05	133.34	132.19	132.12	131.86	132.01	132.96	132.76	133.44	133.41		134.19	
30	133.96	133.09	132.08	132.19	131.85	131.99	133.07	133.58	133.30	133.50		134.20	
31		132.17		131.95	131.85		132.03		132.04	133.31		134.00	
Mean	133.87	133.47	132.36	132.17	131.95	132.13	132.11	132.67	133.36	132.96	133.79	133.95	
Max	134.39	134.31	133.59	133.44	132.40	133.26	133.07	133.72	134.51	133.98	134.45	134.59	134.59
Min	132.80	132.17	131.89	131.85	131.85	131.86	131.97	131.95	132.04	132.00	133.11	132.69	131.85

Annual Max Momentary Gage Height 135.40 M (MSL), at 18.00 Hours, on Apr 24, 1992
Zero Gage at Bottom Elevation 132.00 M (MSL), River Bed 131.29 M (MSL)
Left Bank Elevation 141.46 M (MSL)
Right Bank Elevation 136.93 M (MSL), Drainage Area 26396 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	282.70	187.50	156.65	2.60	2.00	2.60	11.30	4.70	241.25	6.35	198.00	221.80	
2	236.30	228.20	95.00	33.20	9.95	2.90	4.10	3.50	273.70	5.45	190.50	244.55	
3	249.50	204.20	106.50	93.90	11.75	3.20	5.00	5.00	221.80	5.45	153.95	220.20	
4	229.80	268.30	56.20	2.00	3.80	1.80	5.00	3.80	217.00	109.95	293.50	226.60	
5	79.60	152.60	86.20	1.80	3.50	1.60	5.00	3.80	64.60	95.00	189.00	212.20	
6	167.80	244.55	10.40	136.40	3.50	1.20	5.00	77.40	112.25	61.45	100.75	239.60	
7	246.20	195.00	10.40	129.70	3.50	45.00	5.00	69.85	252.90	129.70	124.50	95.00	
8	196.50	228.20	41.20	93.90	2.90	4.70	5.00	26.00	304.40	50.00	217.00	183.20	
9	226.60	217.00	75.20	61.45	2.60	3.80	5.00	5.45	144.50	30.80	220.20	252.90	
10	247.85	75.20	33.20	2.00	3.20	1.80	5.00	4.70	141.80	5.00	279.10	319.60	
11	133.70	218.60	30.80	1.40	3.20	22.40	4.10	5.90	213.80	63.55	231.40	236.30	
12	82.90	115.70	43.00	1.20	26.00	3.80	4.70	5.90	108.80	50.00	189.00	225.00	
13	124.50	231.40	80.70	1.00	3.80	1.80	9.95	5.00	11.30	18.80	107.65	196.50	
14	108.80	145.85	18.80	1.00	16.40	1.40	5.45	3.80	195.00	26.00	96.15	121.90	
15	174.80	213.80	24.80	1.80	3.80	38.00	5.90	3.50	179.00	143.15	251.20	246.20	
16	263.10	59.35	34.00	21.80	1.60	113.40	5.00	137.75	137.75	97.30	226.60	249.50	
17	242.90	44.00	2.00	2.00	1.20	49.00	5.45	103.05	108.80	5.45	139.10	201.00	
18	217.00	166.40	2.60	1.80	3.50	37.20	5.90	112.25	119.30	162.20	256.30	236.30	
19	160.80	217.00	2.30	2.00	2.60	39.60	6.35	145.85	121.90	213.80	263.10	226.60	
20	249.50	139.10	7.70	1.80	2.60	28.40	5.90	107.65	13.10	121.90	131.00	167.80	
21	229.80	141.80	2.60	2.00	2.90	16.40	5.00	42.00	131.00	198.00	96.15	51.00	
22	242.90	119.30	9.50	2.90	2.60	9.95	7.25	26.80	143.15	49.00	244.55	231.40	
23	236.30	120.60	11.75	2.90	1.80	4.70	7.25	135.05	152.60	37.20	246.20	217.00	
24	263.10	24.20	3.20	2.90	2.60	4.40	4.70	129.70	169.20	43.00	141.80	212.20	
25	169.20	34.00	2.30	2.00	1.80	3.80	4.40	143.15	55.15	149.90	223.40	254.60	
26	62.50	151.25	2.00	1.80	1.60	2.30	4.10	174.80	7.70	176.20	229.80	251.20	
27	241.25	105.35	1.80	14.60	2.60	1.80	15.80	115.70	13.10	140.45	136.40	183.20	
28	226.60	90.60	2.00	16.40	1.60	3.50	62.50	68.80	133.70	153.95	116.85	132.35	
29	225.00	123.20	13.55	10.40	1.20	5.45	79.60	58.30	136.40	132.35		247.85	
30	210.60	93.90	8.60	13.55	1.00	4.70	91.70	155.30	118.00	144.50		249.50	
31		12.65		3.50	1.00		6.35		6.80	119.30		217.00	
Total	6028.10	4568.80	974.95	665.70	132.10	460.60	402.75	1884.45	4249.75	2745.15	5293.15	6570.05	33975.55 CMSDAY
Mean	200.94	147.38	32.50	21.47	4.26	15.35	12.99	62.82	137.09	88.55	189.04	211.94	93.08 CMS
Max	282.70	268.30	156.65	136.40	26.00	113.40	91.70	174.80	304.40	213.80	293.50	319.60	319.60 CMS
Min	62.50	12.65	1.80	1.00	1.00	1.20	4.10	3.50	6.80	5.00	96.15	51.00	1.00 CMS
Runoff	520.828	394.744	84.236	57.516	11.413	39.796	34.798	162.816	367.178	237.181	457.328	567.652	2935.488 MCM

Momentary Peak 497.00 CMS, at 135.40 M (MSL), at 18.00 Hours, on Apr 24, 1992

Runoff Yield 3.53 Liters/Second/Square KM, Momentary Peak Yield 18.83 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

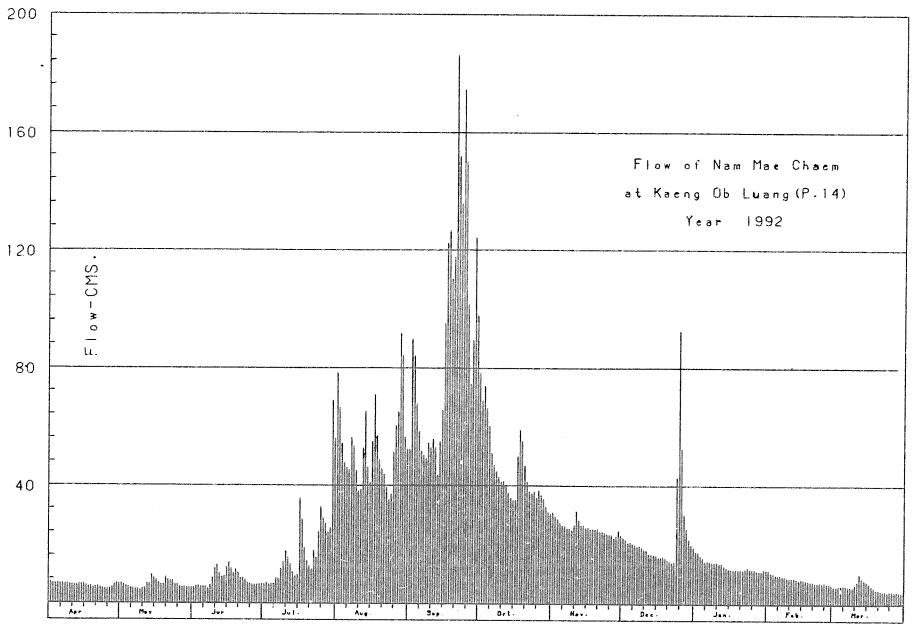
Nam Mae Chaem at Kaeng Ob Luang, Chiang Mai (P.14)

Location	Lat. 18°-13'-49" N., Long. 98°-33'-35" E., on right bank near the bridge of Hot-Mae Sariang Highway at guidepost 7+500, Amphoe Hot, Chiang Mai.
Drainage Area	3,853 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+275.80 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	About 10 meters infront of automatic gage building.
Elevation	+282.20 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1953 to date.
Rating Operation	
Period of Rating	1954-1960, 1967 to date.
Rated by Float	-
Rated by Current Meter	1954-1960, 1967 to date.
Stability of Channel Regimes	Fairly stable by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 121 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	277.48	277.46	277.41	277.45	279.01	278.58	279.13	278.32	278.12	278.01	277.83	277.63	
2	277.46	277.44	277.42	277.46	278.83	279.17	278.99	278.29	278.10	278.00	277.81	277.63	
3	277.46	277.43	277.43	277.45	278.62	279.09	279.07	278.27	278.08	277.97	277.80	277.63	
4	277.46	277.41	277.41	277.45	278.49	278.85	278.95	278.24	278.08	277.95	277.79	277.64	
5	277.46	277.40	277.42	277.46	278.46	278.70	278.86	278.22	278.07	277.92	277.78	277.65	
6	277.46	277.39	277.41	277.52	278.44	278.57	278.72	278.21	278.06	277.92	277.78	277.64	
7	277.46	277.38	277.39	277.52	278.66	278.54	278.64	278.20	278.05	277.92	277.77	277.63	
8	277.45	277.37	277.43	277.62	278.60	278.52	278.60	278.19	278.05	277.91	277.76	277.62	
9	277.45	277.36	277.53	277.70	278.44	278.62	278.56	278.18	278.04	277.91	277.75	277.62	
10	277.44	277.38	277.63	277.81	278.30	278.59	278.53	278.22	278.02	277.91	277.74	277.65	
11	277.44	277.40	277.66	277.74	278.31	278.65	278.53	278.33	278.02	277.90	277.74	277.70	
12	277.44	277.46	277.57	277.67	278.59	278.59	278.50	278.26	277.99	277.90	277.75	277.80	
13	277.45	277.45	277.54	277.59	278.81	278.41	278.45	278.22	277.98	277.88	277.73	277.74	
14	277.45	277.56	277.54	277.54	278.46	278.63	278.42	278.22	277.98	277.86	277.72	277.72	
15	277.45	277.52	277.64	277.56	278.36	278.82	278.40	278.20	277.97	277.85	277.73	277.70	
16	277.43	277.50	277.69	278.25	278.63	279.24	278.40	278.20	277.96	277.84	277.72	277.67	
17	277.42	277.47	277.62	278.10	278.90	279.58	278.70	278.19	277.96	277.84	277.71	277.64	
18	277.42	277.44	277.58	277.84	278.67	279.63	278.84	278.19	277.96	277.84	277.70	277.61	
19	277.41	277.45	277.61	277.71	278.51	279.43	278.78	278.19	277.95	277.84	277.70	277.59	
20	277.42	277.53	277.58	277.65	278.45	279.52	278.64	278.19	277.93	277.84	277.69	277.57	
21	277.42	277.50	277.52	277.62	278.41	280.24	278.53	278.17	277.92	277.84	277.68	277.57	
22	277.41	277.50	277.53	277.81	278.33	279.98	278.46	278.17	277.91	277.85	277.68	277.55	
23	277.39	277.49	277.50	277.74	278.24	279.81	278.45	278.16	277.91	277.86	277.68	277.54	
24	277.38	277.45	277.47	277.99	278.28	280.21	278.46	278.15	278.56	277.85	277.68	277.54	
25	277.37	277.44	277.45	278.19	278.56	279.96	278.42	278.14	279.32	277.84	277.68	277.54	
26	277.38	277.42	277.44	278.11	278.73	279.42	278.47	278.14	278.74	277.84	277.67	277.54	
27	277.41	277.41	277.44	278.06	278.81	279.08	278.44	278.12	278.31	277.83	277.67	277.54	
28	277.45	277.41	277.44	277.99	279.20	279.28	278.41	278.13	278.19	277.82	277.65	277.54	
29	277.46	277.41	277.45	278.02	279.09	279.68	278.36	278.18	278.11	277.82		277.54	
30	277.45	277.40	277.45	278.87	278.66	279.38	278.32	278.14	278.06	277.84		277.52	
31		277.40		278.65	278.58		278.31		278.04	277.84		277.52	
Mean	277.43	277.44	277.51	277.81	278.59	279.16	278.59	278.20	278.11	277.88	277.73	277.61	
Max	277.48	277.56	277.69	278.87	279.20	280.24	279.13	278.33	279.32	278.01	277.83	277.80	280.24
Min	277.37	277.36	277.39	277.45	278.24	278.41	278.31	278.12	277.91	277.82	277.65	277.52	277.36

Annual Max Momentary Gage Height 281.60 M (MSL), at 21.30 Hours, on Sep 24, 1992
Zero Gage at Bottom Elevation 275.80 M (MSL), River Bed 277.37 M (MSL)
Left Bank Elevation 0.00 M (MSL)
Right Bank Elevation 282.19 M (MSL), Drainage Area 3853 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.28	6.76	5.46	6.50	78.52	52.38	78.25	31.00	22.44	17.82	11.22	5.92	
2	6.76	6.24	5.72	6.76	66.45	89.90	68.85	29.58	21.60	17.40	10.54	5.92	
3	6.76	5.98	5.98	6.50	54.42	84.28	74.05	28.74	20.76	16.26	10.20	5.92	
4	6.76	5.46	5.46	6.50	47.79	67.75	66.25	27.48	20.76	15.50	9.94	6.16	
5	6.76	5.20	5.72	6.76	46.26	58.50	60.40	26.64	20.34	14.36	9.68	6.40	
6	6.76	5.02	5.46	8.44	45.24	51.87	51.30	26.22	19.92	14.36	9.68	6.16	
7	6.76	4.84	5.02	8.44	56.46	50.34	47.00	25.80	19.50	14.36	9.42	5.92	
8	6.50	4.66	5.98	11.64	53.40	49.32	45.00	25.38	19.50	13.98	9.16	5.68	
9	6.50	4.48	8.76	14.20	45.24	54.42	43.00	24.96	19.08	13.98	8.90	5.68	
10	6.24	4.84	11.96	17.76	38.10	52.89	41.50	26.64	18.24	13.98	8.64	6.40	
11	6.24	5.20	12.92	15.48	38.61	55.95	41.50	31.50	18.24	13.60	8.64	7.60	
12	6.24	6.76	10.04	13.24	52.89	52.89	40.00	28.32	17.02	13.60	8.90	10.20	
13	6.50	6.50	9.08	10.68	65.15	43.71	37.50	26.64	16.64	12.92	8.38	8.64	
14	6.50	9.72	9.08	9.08	46.26	54.93	36.00	26.64	16.64	12.24	8.12	8.12	
15	6.50	8.44	12.28	9.72	41.16	65.80	35.00	25.80	16.26	11.90	8.38	7.60	
16	5.98	7.80	13.88	35.55	54.93	95.20	35.00	25.80	15.88	11.56	8.12	6.88	
17	5.72	7.02	11.64	28.50	71.00	122.40	50.00	25.38	15.88	11.56	7.86	6.16	
18	5.72	6.24	10.36	18.84	56.97	126.70	59.10	25.38	15.88	11.56	7.60	5.44	
19	5.46	6.50	11.32	14.52	48.81	110.40	55.20	25.38	15.50	11.56	7.60	5.03	
20	5.72	8.76	10.36	12.60	45.75	117.60	47.00	25.38	14.74	11.56	7.36	4.69	
21	5.72	7.80	8.44	11.64	43.71	186.08	41.50	24.54	14.36	11.56	7.12	4.69	
22	5.46	7.80	8.76	17.76	39.63	152.10	38.00	24.54	13.98	11.90	7.12	4.35	
23	5.02	7.54	7.80	15.48	35.04	135.95	37.50	24.12	13.98	12.24	7.12	4.18	
24	4.84	6.50	7.02	24.24	37.08	174.50	38.00	23.70	43.00	11.90	7.12	4.18	
25	4.66	6.24	6.50	32.55	51.36	150.20	36.00	23.28	92.76	11.56	7.12	4.18	
26	4.84	5.72	6.24	28.95	60.30	101.56	38.50	23.28	52.60	11.56	6.88	4.18	
27	5.46	5.46	6.24	26.94	65.15	74.70	37.00	22.44	30.50	11.22	6.88	4.18	
28	6.50	5.46	6.24	24.24	92.00	89.50	35.50	22.86	25.38	10.88	6.40	4.18	
29	6.76	5.46	6.50	25.38	84.28	124.44	33.00	24.96	22.02	10.88		4.18	
30	6.50	5.20	6.50	69.05	56.46	98.04	31.00	23.28	19.92	11.56		3.84	
31		5.20		55.95	52.38		30.50		19.08	11.56		3.84	
Total	183.42	194.80	246.72	593.89	1670.80	2744.30	1408.40	775.66	712.40	400.88	234.10	176.50	9341.87 CMSDAY
Mean	6.11	6.28	8.22	19.16	53.90	91.48	45.43	25.86	22.98	12.93	8.36	5.69	25.59 CMS
Max	7.28	9.72	13.88	69.05	92.00	186.08	78.25	31.50	92.76	17.82	11.22	10.20	186.08 CMS
Min	4.66	4.48	5.02	6.50	35.04	43.71	30.50	22.44	13.98	10.88	6.40	3.84	3.84 CMS
Runoff	15.847	16.831	21.317	51.312	144.357	237.108	121.686	67.017	61.551	34.636	20.226	15.250	807.138 MCM

Momentary Peak 330.00 CMS, at 281.60 M (MSL), at 21.30 Hours, on Sep 24, 1992

Runoff Yield 6.64 Liters/Second/Square KM, Momentary Peak Yield 85.65 Liters/Second/Square KM

WATER YEAR 1992

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 — Staff gage.

Zero Gage at Bottom — +41.780 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 — 5-time daily readings at 06.00, 09.00, 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 — 1960, 1964 - 1975, 1979, 1990 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 93 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

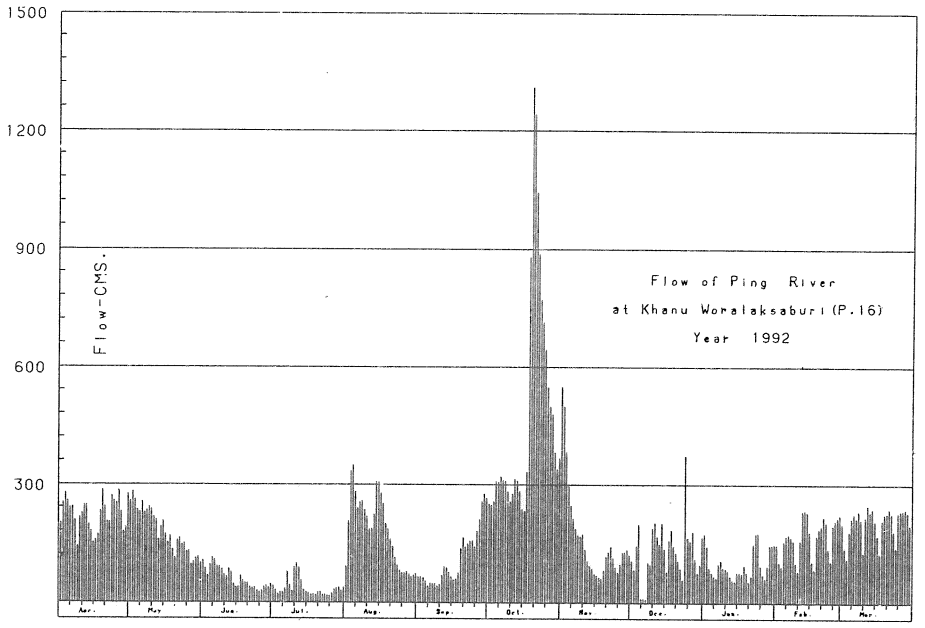
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.20	43.38	42.83	42.44	42.75	42.58	43.36	44.12	42.82	43.09	42.98	43.19	
2	43.37	43.45	42.71	42.37	43.22	42.58	43.35	44.01	42.70	42.97	42.81	42.95	
3	43.44	43.39	42.61	42.31	43.60	42.57	43.38	43.73	42.98	42.72	42.74	42.84	
4	43.38	43.32	42.78	42.33	43.64	42.51	43.52	43.49	43.19	42.65	43.02	43.12	
5	43.33	43.30	42.86	42.34	43.45	42.44	43.52	43.35	42.17	42.59	43.07	43.24	
6	43.34	43.38	42.83	42.39	43.33	42.48	43.56	43.24	42.15	42.57	43.09	43.28	
7	43.23	43.30	42.75	42.66	43.37	42.48	43.53	43.15	42.14	42.78	43.06	43.25	
8	42.97	43.31	42.74	42.45	43.38	42.47	43.53	43.08	42.81	42.83	43.03	43.31	
9	43.25	43.34	42.71	42.36	43.32	42.44	43.45	43.07	42.77	42.72	42.80	43.23	
10	43.29	43.32	42.61	42.73	43.26	42.46	43.38	43.09	43.15	42.72	42.68	42.91	
11	43.35	43.26	42.58	42.79	43.14	42.61	43.43	42.94	43.21	42.68	43.03	43.25	
12	43.35	43.23	42.71	42.73	43.15	42.74	43.54	42.82	43.07	42.60	43.31	43.35	
13	43.19	43.04	42.65	42.52	43.28	42.73	43.53	42.76	42.99	42.53	43.31	43.30	
14	43.12	43.17	42.47	42.38	43.52	42.65	43.45	42.71	43.20	42.52	43.30	43.32	
15	43.01	43.22	42.42	42.34	43.52	42.59	43.32	42.63	42.94	42.65	43.11	43.22	
16	43.03	43.09	42.42	42.32	43.44	42.53	43.31	42.60	42.67	42.65	42.81	43.08	
17	43.09	43.01	42.60	42.30	43.36	42.55	43.59	42.58	43.03	42.63	42.70	42.89	
18	43.31	43.07	42.52	42.30	43.20	42.64	44.75	42.55	43.14	42.77	43.08	43.23	
19	43.46	42.94	42.49	42.29	43.14	42.95	45.44	42.69	42.97	42.65	43.14	43.28	
20	43.34	42.85	42.48	42.33	43.04	43.06	45.33	42.87	42.91	42.51	43.17	43.29	
21	43.22	43.03	42.42	42.34	42.97	42.96	45.02	42.91	42.82	42.60	43.26	43.32	
22	43.21	43.05	42.41	42.29	42.86	43.00	44.76	42.97	42.72	42.99	43.21	43.29	
23	43.42	42.99	42.41	42.28	42.76	43.02	44.56	42.85	42.53	43.10	42.94	43.12	
24	43.38	43.00	42.37	42.26	42.69	43.03	44.45	42.73	43.71	43.10	42.82	42.96	
25	43.37	42.92	42.33	42.24	42.64	42.96	44.32	42.66	43.06	42.76	43.18	43.29	
26	43.46	42.92	42.37	42.32	42.64	43.12	44.12	42.78	43.02	42.62	43.22	43.31	
27	43.30	42.78	42.43	42.39	42.67	43.24	44.01	42.91	43.12	42.55	43.25	43.31	
28	43.12	42.81	42.44	42.40	42.63	43.38	43.96	42.91	42.84	42.75	43.27	43.32	
29	43.16	42.85	42.42	42.42	42.58	43.43	43.73	42.94	42.65	42.98		43.30	
30	43.43	42.86	42.46	42.36	42.61	43.40	43.61	42.88	42.78	42.98		43.18	
31		42.80		42.41	42.63		43.69		43.06	42.99		43.06	
Mean	43.27	43.11	42.56	42.40	43.09	42.79	43.89	43.00	42.88	42.75	43.05	43.19	
Max	43.46	43.45	42.86	42.79	43.64	43.43	45.44	44.12	43.71	43.10	43.31	43.35	45.44
Min	42.97	42.78	42.33	42.24	42.58	42.44	43.31	42.55	42.14	42.51	42.68	42.84	42.14

Annual Max Momentary Gage Height — 45.52 M (MSL), at 17.00 Hours, on Oct 19, 1992

Zero Gage at Bottom Elevation — 41.78 M (MSL), River Bed — 40.91 M (MSL)

Left Bank Elevation — 45.13 M (MSL)

Right Bank Elevation — 46.43 M (MSL), Drainage Area — 45677 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	201.0	258.0	107.5	41.5	91.9	64.3	251.0	549.0	105.0	173.1	145.3	198.5	
2	254.5	282.7	85.4	30.5	206.8	64.3	247.5	500.4	83.8	142.7	102.5	137.7	
3	279.1	261.5	69.1	21.5	335.7	62.6	258.0	383.0	145.3	87.0	90.3	110.0	
4	258.0	237.0	96.7	24.5	349.8	52.9	307.4	296.8	198.5	75.6	155.4	180.7	
5	240.5	230.0	115.0	26.0	282.7	41.5	307.4	247.5	10.2	65.9	168.1	212.6	
6	244.0	258.0	107.5	33.5	240.5	48.0	321.5	212.6	8.8	62.6	173.1	224.2	
7	209.7	230.0	91.9	77.2	254.5	48.0	310.9	188.3	8.0	96.7	165.5	215.5	
8	142.7	233.5	90.3	43.1	258.0	46.4	310.9	170.6	102.5	107.5	157.9	233.5	
9	215.5	244.0	85.4	29.0	237.0	41.5	282.7	168.1	95.1	87.0	100.0	209.7	
10	227.1	237.0	69.1	88.6	218.4	44.7	258.0	173.1	188.3	87.0	80.5	127.5	
11	247.5	218.4	64.3	98.4	185.8	69.1	275.6	135.1	203.9	80.5	157.9	215.5	
12	247.5	209.7	85.4	88.6	188.3	90.3	314.5	105.0	168.1	67.5	233.5	247.5	
13	198.5	160.5	75.6	54.5	224.2	88.6	310.9	93.5	147.8	56.1	233.5	230.0	
14	180.7	193.4	46.4	32.0	307.4	75.6	282.7	85.4	201.0	54.5	230.0	237.0	
15	152.9	206.8	38.2	26.0	307.4	65.9	237.0	72.4	135.1	75.6	178.2	206.8	
16	157.9	173.1	38.2	23.0	279.1	56.1	233.5	67.5	78.9	75.6	102.5	170.6	
17	173.1	152.9	67.5	20.0	251.0	59.4	332.1	64.3	157.9	72.4	83.8	122.5	
18	233.5	168.1	54.5	20.0	201.0	74.0	880.0	59.4	185.8	95.1	170.6	209.7	
19	286.2	135.1	49.6	19.3	185.8	137.7	1314.8	82.1	142.7	75.6	185.8	224.2	
20	244.0	112.5	48.0	24.5	160.5	165.5	1241.8	117.5	127.5	52.9	193.4	227.1	
21	206.8	157.9	38.2	26.0	142.7	140.2	1044.6	127.5	105.0	67.5	218.4	237.0	
22	203.9	163.0	36.6	19.3	115.0	150.3	886.0	142.7	87.0	147.8	203.9	227.1	
23	272.1	147.8	36.6	18.5	93.5	155.4	772.0	112.5	56.1	175.7	135.1	180.7	
24	258.0	150.3	30.5	17.0	82.1	157.9	713.0	88.6	375.0	175.7	105.0	140.2	
25	254.5	130.1	24.5	15.5	74.0	140.2	645.4	77.2	165.5	93.5	195.9	227.1	
26	286.2	130.1	30.5	23.0	74.0	180.7	549.0	96.7	155.4	70.7	206.8	233.5	
27	230.0	96.7	39.9	33.5	78.9	212.6	500.4	127.5	180.7	59.4	215.5	233.5	
28	180.7	102.5	41.5	35.0	72.4	258.0	478.8	127.5	110.0	91.9	221.3	237.0	
29	190.9	112.5	38.2	38.2	64.3	275.6	383.0	135.1	75.6	145.3		230.0	
30	275.6	115.0	44.7	29.0	69.1	265.0	339.2	120.0	96.7	145.3		195.9	
31		100.0		36.6	72.4		367.5		165.5	147.8		165.5	
Total	6752.6	5608.1	1846.8	1113.3	5704.2	3332.3	14957.1	4926.9	4066.7	3011.5	4609.7	6248.3	62177.5 CMSDAY
Mean	225.1	180.9	61.6	35.9	184.0	111.1	482.5	164.2	131.2	97.1	164.6	201.6	170.3 CMS
Max	286.2	282.7	115.0	98.4	349.8	275.6	1314.8	549.0	375.0	175.7	233.5	247.5	1314.8 CMS
Min	142.7	96.7	24.5	15.5	64.3	41.5	233.5	59.4	8.0	52.9	80.5	110.0	8.0 CMS
Runoff	583.42	484.54	159.56	96.19	492.84	287.91	1292.29	425.68	351.36	260.19	398.28	539.85	5372.14 MCM

Momentary Peak 1368.60 CMS, at 45.52 M (MSL), at 17.00 Hours, on Oct 19, 1992

Runoff Yield 3.73 Liters/Second/Square KM, Momentary Peak Yield 29.96 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

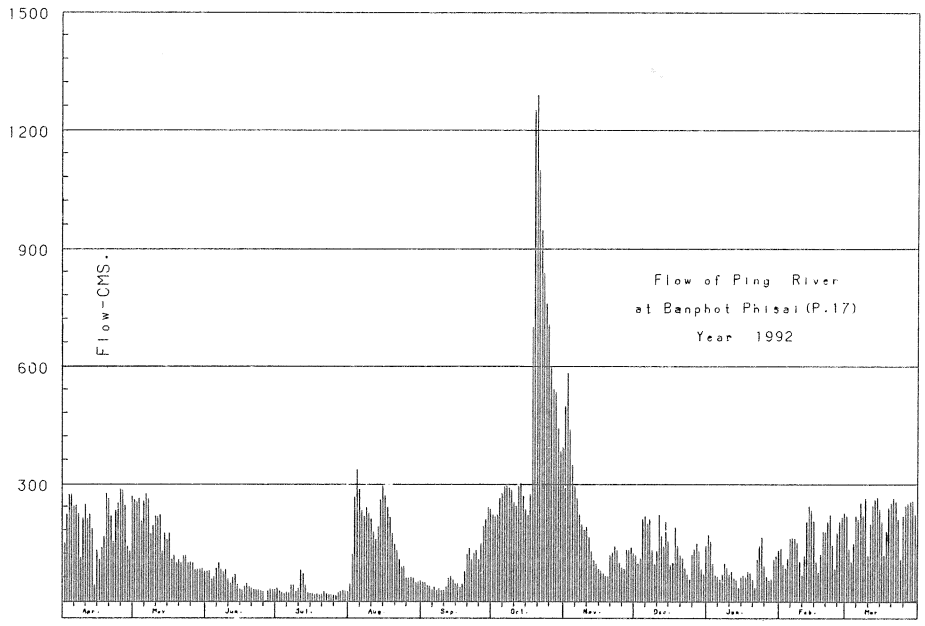
Ping River at Banphot Phisai, Nakhon Sawan (P.17)

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 by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 49 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.90	35.24	34.59	34.30	34.38	34.43	35.13	35.86	34.78	34.97	34.85	35.12	
2	35.13	35.23	34.59	34.24	34.80	34.41	35.11	36.05	34.69	34.91	34.67	34.84	
3	35.28	35.25	34.48	34.18	35.26	34.37	35.13	35.72	34.75	34.68	34.63	34.71	
4	35.28	35.08	34.51	34.16	35.46	34.34	35.25	35.49	35.09	34.54	34.74	34.89	
5	35.20	35.23	34.63	34.19	35.32	34.27	35.29	35.34	35.12	34.51	34.94	35.12	
6	35.20	35.29	34.70	34.16	35.16	34.32	35.34	35.25	35.06	34.46	34.94	35.09	
7	35.14	35.25	34.61	34.37	35.12	34.26	35.34	35.13	35.09	34.55	34.94	35.22	
8	34.75	34.98	34.58	34.36	35.19	34.29	35.33	35.05	34.83	34.69	34.90	35.12	
9	35.10	35.04	34.61	34.22	35.14	34.25	35.31	35.01	34.68	34.63	34.71	35.25	
10	35.21	35.12	34.47	34.29	35.10	34.24	35.22	35.03	34.82	34.54	34.54	34.78	
11	35.10	35.11	34.41	34.60	34.99	34.34	35.20	34.95	35.13	34.59	34.77	35.06	
12	35.13	35.13	34.50	34.56	34.93	34.49	35.34	34.82	34.96	34.50	35.07	35.20	
13	35.02	34.82	34.55	34.36	35.04	34.52	35.36	34.73	34.87	34.45	35.20	35.24	
14	34.36	34.98	34.37	34.18	35.24	34.47	35.27	34.68	35.07	34.32	35.16	35.26	
15	34.83	34.93	34.29	34.15	35.34	34.40	35.17	34.62	34.91	34.51	35.08	35.17	
16	34.74	34.98	34.24	34.15	35.27	34.39	35.13	34.59	34.66	34.53	34.71	35.07	
17	34.86	34.74	34.35	34.12	35.19	34.33	35.28	34.56	34.70	34.51	34.57	34.78	
18	34.95	34.78	34.39	34.13	35.11	34.38	36.29	34.52	35.03	34.58	34.79	35.00	
19	35.29	34.70	34.34	34.11	34.98	34.59	37.28	34.52	34.87	34.56	35.00	35.18	
20	35.25	34.73	34.30	34.12	34.89	34.80	37.35	34.78	34.78	34.47	34.99	35.22	
21	35.12	34.69	34.28	34.20	34.83	34.85	37.02	34.81	34.75	34.31	35.07	35.25	
22	34.91	34.78	34.27	34.15	34.74	34.73	36.75	34.87	34.63	34.74	35.13	35.23	
23	35.16	34.78	34.25	34.12	34.65	34.81	36.55	34.83	34.54	34.87	34.88	35.09	
24	35.22	34.70	34.24	34.10	34.65	34.83	36.41	34.70	34.47	34.95	34.62	34.74	
25	35.32	34.70	34.20	34.09	34.50	34.74	36.30	34.63	34.79	34.65	34.98	35.12	
26	35.31	34.70	33.17	34.09	34.49	34.89	36.08	34.62	34.84	34.52	35.07	35.20	
27	35.20	34.61	34.23	34.19	34.51	35.04	35.96	34.84	34.90	34.46	35.11	35.21	
28	34.87	34.61	34.27	34.21	34.49	35.09	35.94	34.83	34.82	34.47	35.14	35.23	
29	34.82	34.62	34.28	34.25	34.42	35.19	35.73	34.86	34.61	34.74		35.23	
30	35.27	34.62	34.26	34.22	34.42	35.17	35.58	34.80	34.55	34.77		35.13	
31		34.58		34.22	34.44		35.61		34.87	34.83		34.89	
Mean	35.06	34.90	34.37	34.22	34.90	34.57	35.74	34.95	34.83	34.61	34.90	35.09	
Max	35.32	35.29	34.70	34.60	35.46	35.19	37.35	36.05	35.13	34.97	35.20	35.26	37.35
Min	34.36	34.58	33.17	34.09	34.38	34.24	35.11	34.52	34.47	34.31	34.54	34.71	33.17

Annual Max Momentary Gage Height 37.42 M (MSL), at 6.00 Hours, on Oct 20, 1992
Zero Gage at Bottom Elevation 32.00 M (MSL), River Bed 32.70 M (MSL)
Left Bank Elevation 38.03 M (MSL)
Right Bank Elevation 37.77 M (MSL), Drainage Area 45851 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	150.0	259.2	78.1	34.0	44.4	51.2	222.3	498.0	117.6	171.0	136.0	219.0	
2	222.3	255.6	78.1	28.6	122.0	48.4	215.8	584.7	98.0	153.0	94.0	133.2	
3	273.4	262.7	58.2	23.4	266.3	43.1	222.3	438.5	111.0	96.0	86.0	102.2	
4	273.4	206.0	62.9	21.8	338.2	39.2	262.7	349.3	209.2	68.6	108.8	147.2	
5	245.0	255.6	86.0	24.2	287.6	31.3	276.9	294.7	219.0	62.9	162.0	219.0	
6	245.0	276.9	100.0	21.8	232.0	36.6	294.7	262.7	199.5	55.4	162.0	209.2	
7	225.5	262.7	82.0	43.1	219.0	30.4	294.7	222.3	209.2	70.5	162.0	252.1	
8	111.0	174.0	76.2	41.8	241.7	33.1	291.2	196.2	130.4	98.0	150.0	219.0	
9	212.5	193.0	82.0	26.8	225.5	29.5	284.1	183.2	96.0	86.0	102.2	262.7	
10	248.5	219.0	56.8	33.1	212.5	28.6	252.1	189.7	127.6	68.6	68.6	117.6	
11	212.5	215.8	48.4	80.0	177.0	39.2	245.0	165.0	222.3	78.1	115.4	199.5	
12	222.3	222.3	61.0	72.4	159.0	59.6	294.7	127.6	168.0	61.0	202.7	245.0	
13	186.5	127.6	70.5	41.8	193.0	64.8	301.8	106.6	141.6	54.0	245.0	259.2	
14	41.8	174.0	43.1	23.4	259.2	56.8	269.8	96.0	202.7	36.6	232.0	266.3	
15	130.4	159.0	33.1	21.0	294.7	47.0	235.2	84.0	153.0	62.9	206.0	235.2	
16	108.8	174.0	28.6	21.0	269.8	45.7	222.3	78.1	92.0	66.7	102.2	202.7	
17	138.8	108.8	40.5	18.6	241.7	37.9	273.4	72.4	100.0	62.9	74.3	117.6	
18	165.0	117.6	45.7	19.4	215.8	44.4	701.1	64.8	189.7	76.2	119.8	180.0	
19	276.9	100.0	39.2	17.8	174.0	78.1	1250.0	64.8	141.6	72,4	180.0	238.5	
20	262.7	106.6	34.0	18.6	147.2	122.0	1290.8	117.6	117.6	56.8	177.0	252.1	
21	219.0	98.0	32.2	25.0	130.4	136.0	1098.6	124.8	111.0	35.3	202.7	262.7	
22	153.0	117.6	31.3	21.0	108.8	106.6	948.5	141.6	86.0	108.8	222.3	255.6	
23	232.0	117.6	29.5	18.6	90.0	124.8	837.7	130.4	68.6	141.6	144.4	209.2	
24	252.1	100.0	28.6	17.0	90.0	130.4	760.5	100.0	56.8	165.0	84.0	108.8	
25	287.6	100.0	25.0	16.3	61.0	108.8	706.0	86.0	119.8	90.0	174.0	219.0	
26	284.1	100.0	0.0	16.3	59.6	147.2	598.7	84.0	133.2	64.8	202.7	245.0	
27	245.0	82.0	27.7	24.2	62.9	193.0	542.9	133.2	150.0	55.4	215.8	248.5	
28	141.6	82.0	31.3	25.9	59.6	209.2	533.6	130.4	127.6	56.8	225.5	255.6	
29	127.6	84.0	32.2	29.5	49.8	241.7	442.7	138.8	82.0	108.8		255.6	
30	269.8	84.0	30.4	26.8	49.8	235.2	382.6	122.0	70.5	115.4		222.3	
31		76.2		26.8	52.6		394.0		141.6	130.4		147.2	
Total	6164.1	4911.8	1472.6	880.0	5135.1	2599.8	14946.7	5387.4	4193.1	2629.9	4357.4	6506.8	59184.7 CMSDAY
Mean	205.5	158.4	49.1	28.4	165.6	86.7	482.2	179.6	135.3	84.8	155.6	209.9	162.1 CMS
Max	287.6	276.9	100.0	80.0	338.2	241.7	1290.8	584.7	222.3	171.0	245.0	266.3	1290.8 CMS
Min	41.8	76.2	0.0	16.3	44.4	28.6	215.8	64.8	56.8	35.3	68.6	102.2	0.0 CMS
Runoff	532.58	424.38	127.23	76.03	443.67	224.62	1291.39	465.47	362.28	227.22	376.48	562.19	5113.56 MCM

Momentary Peak 1332.00 CMS, at 37.42 M (MSL), at 6.00 Hours, on Oct 20, 1992

Runoff Yield 3.54 Liters/Second/Square KM, Momentary Peak Yield 29.05 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

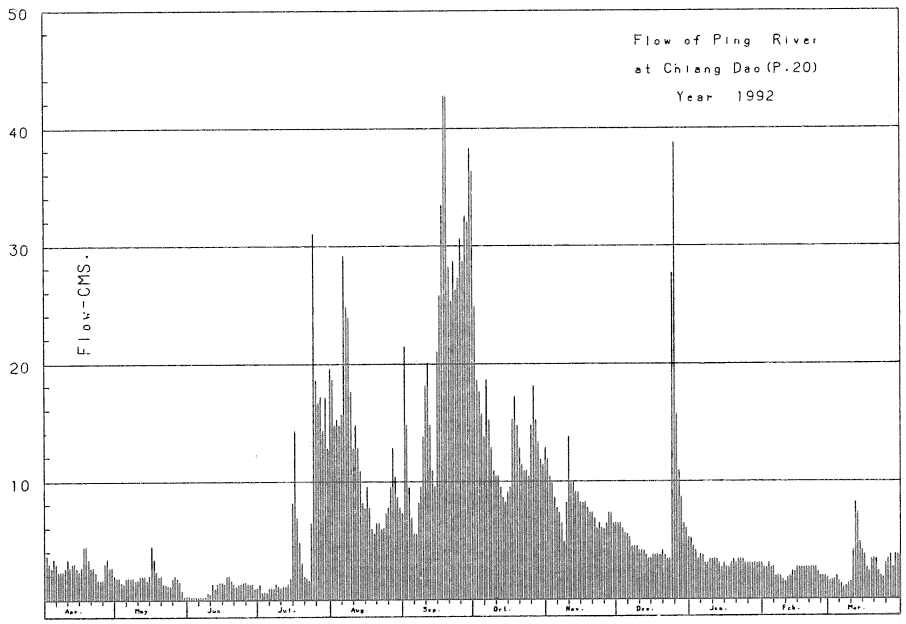
Ping River at Chiang Dao, Chiang Mai (P.20)

Location	Lat. 19°-22'-06" N., Long. 98°-58'-20" E., on right bank near Wat Inthra Ram, Amphoe Chiang Dao, Chiang Mai.
Drainage Area	1,355 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	About 2 meters from automatic gage building.
Elevation	+4.133 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1979 - 1982, 1989 to date.
Rated by Float	-
Rated by Current Meter	1979 - 1982, 1989 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	NO overbank flow.
General Description	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	0.49	0.39	0.46	0.88	0.94	1.01	0.74	0.62	0.59	0.52	0.47	
2	0.53	0.49	0.38	0.42	0.80	0.80	0.88	0.71	0.62	0.57	0.52	0.48	
3	0.52	0.47	0.38	0.42	0.81	0.69	0.86	0.70	0.61	0.56	0.53	0.48	
4	0.54	0.46	0.38	0.42	0.80	0.63	0.82	0.67	0.60	0.54	0.52	0.50	
5	0.53	0.49	0.37	0.44	0.82	0.60	0.78	0.65	0.60	0.55	0.52	0.47	
6	0.51	0.49	0.37	0.44	1.10	0.60	0.88	0.64	0.59	0.55	0.50	0.46	
7	0.51	0.49	0.36	0.44	1.01	0.66	0.81	0.62	0.57	0.53	0.50	0.44	
8	0.51	0.49	0.40	0.46	0.99	0.69	0.76	0.58	0.57	0.53	0.50	0.45	
9	0.52	0.48	0.42	0.45	0.86	0.78	0.72	0.66	0.57	0.54	0.48	0.46	
10	0.54	0.48	0.41	0.44	0.76	0.87	0.71	0.78	0.56	0.54	0.47	0.47	
11	0.52	0.50	0.46	0.45	0.80	0.91	0.71	0.70	0.56	0.54	0.49	0.56	
12	0.53	0.50	0.44	0.45	0.76	0.80	0.69	0.70	0.56	0.54	0.50	0.66	
13	0.53	0.50	0.46	0.46	0.72	0.72	0.67	0.68	0.55	0.53	0.51	0.64	
14	0.52	0.48	0.47	0.49	0.66	0.69	0.66	0.68	0.54	0.52	0.51	0.58	
15	0.51	0.50	0.47	0.66	0.65	0.93	0.68	0.66	0.54	0.53	0.52	0.56	
16	0.52	0.57	0.46	0.79	0.69	1.03	0.69	0.66	0.55	0.52	0.52	0.55	
17	0.57	0.54	0.50	0.63	0.65	1.19	0.81	0.66	0.55	0.52	0.52	0.52	
18	0.57	0.51	0.50	0.58	0.61	1.38	0.85	0.65	0.55	0.53	0.52	0.51	
19	0.54	0.50	0.48	0.53	0.60	1.38	0.80	0.64	0.55	0.54	0.52	0.54	
20	0.52	0.50	0.46	0.50	0.62	1.08	0.76	0.64	0.56	0.53	0.52	0.54	
21	0.52	0.46	0.45	0.49	0.62	1.02	0.73	0.63	0.55	0.54	0.52	0.54	
22	0.51	0.46	0.46	0.48	0.61	1.09	0.72	0.61	0.54	0.54	0.52	0.51	
23	0.48	0.45	0.46	0.62	0.61	1.04	0.72	0.62	0.54	0.54	0.52	0.50	
24	0.48	0.45	0.47	1.14	0.64	1.06	0.71	0.61	1.07	0.53	0.51	0.49	
25	0.48	0.49	0.47	0.88	0.65	1.13	0.80	0.61	1.30	0.53	0.50	0.53	
26	0.53	0.50	0.46	0.84	0.69	1.09	0.87	0.62	0.82	0.53	0.50	0.54	
27	0.54	0.49	0.46	0.85	0.76	1.17	0.81	0.64	0.72	0.53	0.50	0.55	
28	0.52	0.47	0.46	0.79	0.71	1.16	0.77	0.64	0.67	0.53	0.49	0.52	
29	0.52	0.43	0.44	0.85	0.67	1.29	0.74	0.62	0.62	0.53		0.55	
30	0.50	0.38	0.44	0.76	0.65	1.25	0.73	0.62	0.61	0.53		0.55	
31		0.40		0.90	0.64		0.76		0.59	0.53		0.55	
Mean	0.52	0.48	0.44	0.60	0.74	0.96	0.77	0.65	0.63	0.54	0.51	0.52	
Max	0.57	0.57	0.50	1.14	1.10	1.38	1.01	0.78	1.30	0.59	0.53	0.66	1.38
Min	0.48	0.38	0.36	0.42	0.60	0.60	0.66	0.58	0.54	0.52	0.47	0.44	0.36

Annual Max Momentary Gage Height 1.78 M (A.D), at 23.00 Hours, on Sep 29, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.74 M (A.D)
Left Bank Elevation 4.01 M (A.D)
Right Bank Elevation 5.84 M (A.D), Drainage Area 1355 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.80	1.83	0.27	1.32	18.64	21.52	24.88	11.92	6.48	5.24	2.72	1.49	
2	3.08	1.83	0.24	0.64	14.80	14.80	18.64	10.48	6.48	4.52	2.72	1.66	
3	2.72	1.49	0.24	0.64	15.28	9.56	17.68	10.00	6.04	4.16	3.08	1.66	
4	3.44	1.32	0.24	0.64	14.80	6.92	15.76	8.68	5.60	3.44	2.72	2.00	
5	3.08	1.83	0.21	0.98	15.76	5.60	13.84	7.80	5.60	3.80	2.72	1.49	
6	2.36	1.83	0.21	0.98	29.20	5.60	18.64	7.36	5.24	3.80	2.00	1.32	
7	2.36	1.83	0.18	0.98	24.88	8.24	15.28	6.48	4.52	3.08	2.00	0.98	
8	2.36	1.83	0.30	1.32	23.92	9.56	12.88	4.88	4.52	3.08	2.00	1.15	
9	2.72	1.66	0.64	1.15	17.68	13.84	10.96	8.24	4.52	3.44	1.66	1.32	
10	3.44	1.66	0.47	0.98	12.88	18.16	10.48	13.84	4.16	3.44	1.49	1.49	
11	2.72	2.00	1.32	1.15	14.80	20.08	10.48	10.00	4.16	3.44	1.83	4.16	
12	3.08	2.00	0.98	1.15	12.88	14.80	9.56	10.00	4.16	3.44	2.00	8.24	
13	3.08	2.00	1.32	1.32	10.96	10.96	8.68	9.12	3.80	3.08	2.36	7.36	
14	2.72	1.66	1.49	1.83	8.24	9.56	8.24	9.12	3.44	2.72	2.36	4.88	
15	2.36	2.00	1.49	8.24	7.80	21.04	9.12	8.24	3.44	3.08	2.72	4.16	
16	2.72	4.52	1.32	14.32	9.56	25.84	9.56	8.24	3.80	2.72	2.72	3.80	
17	4.52	3.44	2.00	6.92	7.80	33.52	15.28	8.24	3.80	2.72	2.72	2.72	
18	4.52	2.36	2.00	4.88	6.04	42.80	17.20	7.80	3.80	3.08	2.72	2.36	
19	3.44	2.00	1.66	3.08	5.60	42.80	14.80	7.36	3.80	3.44	2.72	3.44	
20	2.72	2.00	1.32	2.00	6.48	28.24	12.88	7.36	4.16	3.08	2.72	3.44	
21	2.72	1.32	1.15	1.83	6.48	25.36	11.44	6.92	3.80	3.44	2.72	3.44	
22	2.36	1.32	1.32	1.66	6.04	28.72	10.96	6.04	3.44	3.44	2.72	2.36	
23	1.66	1.15	1.32	6.48	6.04	26.32	10.96	6.48	3.44	3.44	2.72	2.00	
24	1.66	1.15	1.49	31.12	7.36	27.28	10.48	6.04	27.76	3.08	2.36	1.83	
25	1.66	1.83	1.49	18.64	7.80	30.64	14.80	6.04	38.80	3.08	2.00	3.08	
26	3.08	2.00	1.32	16.72	9.56	28.72	18.16	6.48	15.76	3.08	2.00	3.44	
27	3.44	1.83	1.32	17.20	12.88	32.56	15.28	7.36	10.96	3.08	2.00	3.80	
28	2.72	1.49	1.32	14.32	10.48	32.08	13.36	7.36	8.68	3.08	1.83	2.72	
29	2.72	0.81	0.98	17.20	8.68	38.32	11.92	6.48	6.48	3.08		3.80	
30	2.00	0.24	0.98	12.88	7.80	36.40	11.44	6.48	6.04	3.08		3.80	
31		0.30		19.60	7.36		12.88		5.24	3.08		3.80	
Total	85.26	54.53	30.59	212.17	368.48	669.84	416.52	240.84	221.92	103.76	66.33	93.19	2563.43 CMSDAY
Mean	2.84	1.76	1.02	6.84	11.89	22.33	13.44	8.03	7.16	3.35	2.37	3.01	7.02 CMS
Max	4.52	4.52	2.00	31.12	29.20	42.80	24.88	13.84	38.80	5.24	3.08	8.24	42.80 CMS
Min	1.66	0.24	0.18	0.64	5.60	5.60	8.24	4.88	3.44	2.72	1.49	0.98	0.18 CMS
Runoff	7.366	4.711	2.643	18.331	31.837	57.874	35.987	20.809	19.174	8.965	5.731	8.052	221.480 MCM

Momentary Peak 68.60 CMS, at 1.78 M (A.D), at 23.00 Hours, on Sep 29, 1992
Runoff Yield 5.18 Liters/Second/Square KM, Momentary Peak Yield 50.63 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

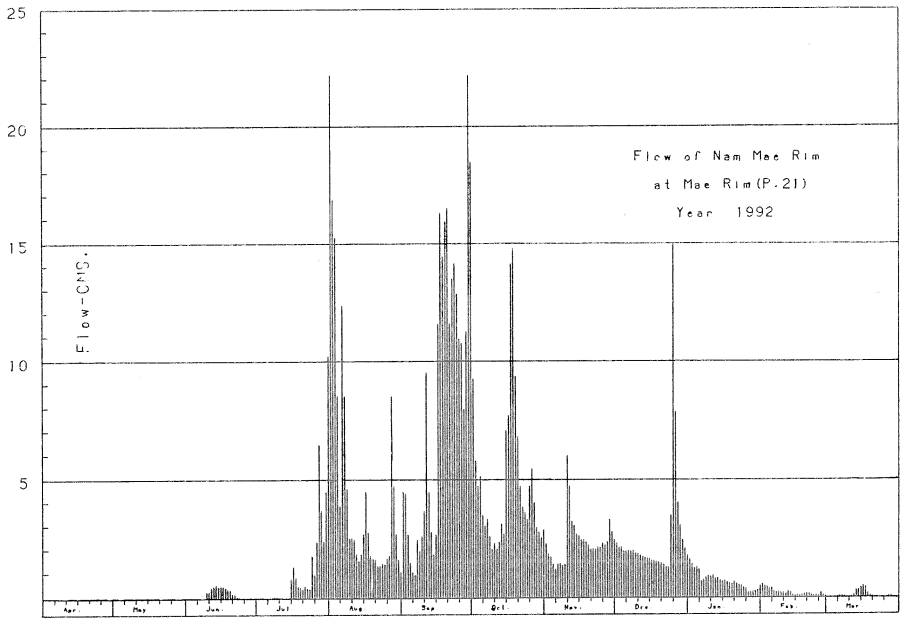
Nam Mae Rim at Mae Rim, Chiang Mai (P.21)

Location	Lat. 18°-55'-29" N., Long. 98°-56'-34" E., on right bank about 100 meters downstream from the bridge of Chiang Mai-Fang Highway, Amphoe Mae Rim, Chiang Mai.
Drainage Area	515 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+319.70 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	B.M.1 in the vicinity of gage observer's house. B.M.2 on left bank at the abutment of the bridge.
Elevation	B.M.1 = +323.982 m.(M.S.L.), B.M.2 = +323.562 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1954-1960, 1977 to date.
Rated by Float	-
Rated by Current Meter	1954-1960, 1977 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 46 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	319.63	319.62	319.62	319.84	321.85	320.70	321.09	320.45	320.45	320.35	320.12	319.82	
2	319.63	319.62	319.62	319.83	321.57	320.69	320.82	320.39	320.43	320.31	320.09	319.82	
3	319.64	319.61	319.62	319.84	321.48	320.50	320.72	320.37	320.43	320.28	320.08	319.83	
4	319.65	319.61	319.62	319.81	321.04	320.33	320.76	320.31	320.41	320.28	320.03	319.83	
5	319.64	319.61	319.62	319.80	320.63	320.24	320.59	320.27	320.41	320.27	320.06	319.85	
6	319.66	319.61	319.64	319.79	321.30	320.22	320.54	320.31	320.41	320.15	319.97	319.87	
7	319.65	319.61	319.69	319.83	321.04	320.47	320.57	320.32	320.41	320.16	319.96	319.86	
8	319.65	319.60	319.84	319.85	320.71	320.41	320.49	320.30	320.41	320.19	319.96	319.84	
9	319.65	319.60	319.99	319.82	320.48	320.49	320.42	320.31	320.40	320.20	319.95	319.82	
10	319.65	319.60	319.97	319.83	320.48	320.61	320.45	320.84	320.39	320.20	319.94	319.81	
11	319.64	319.60	320.09	319.81	320.47	321.11	320.42	320.72	320.38	320.21	319.92	319.83	
12	319.62	319.60	320.10	319.82	320.39	320.70	320.46	320.56	320.37	320.18	319.97	319.89	
13	319.63	319.61	320.11	319.80	320.34	320.51	320.55	320.54	320.36	320.18	319.96	320.01	
14	319.62	319.61	320.09	319.81	320.39	320.39	320.50	320.50	320.36	320.16	319.89	320.01	
15	319.62	319.62	320.10	320.18	320.50	320.50	320.93	320.49	320.35	320.15	319.87	320.07	
16	319.62	319.61	320.09	320.29	320.70	321.25	320.98	320.47	320.34	320.15	319.87	320.09	
17	319.62	319.61	320.08	320.19	320.51	321.54	321.41	320.47	320.34	320.14	319.88	320.08	
18	319.63	319.61	320.03	320.10	320.38	321.43	321.45	320.46	320.33	320.12	319.87	319.93	
19	319.64	319.61	320.03	320.07	320.37	321.52	321.10	320.44	320.33	320.12	319.91	319.88	
20	319.63	319.61	319.93	320.04	320.35	321.55	320.91	320.42	320.32	320.14	319.92	319.83	
21	319.62	319.62	319.91	320.10	320.30	321.25	320.72	320.42	320.31	320.12	319.92	319.82	
22	319.62	319.63	319.85	320.06	320.30	321.37	320.63	320.42	320.29	320.11	319.89	319.81	
23	319.62	319.63	319.81	320.03	320.32	321.41	320.60	320.43	320.28	320.09	319.85	319.80	
24	319.62	319.63	319.78	320.38	320.31	321.33	320.57	320.43	320.59	320.06	319.88	319.80	
25	319.63	319.64	319.77	320.22	320.36	321.21	320.72	320.45	321.46	320.04	319.87	319.79	
26	319.63	319.64	319.76	320.46	320.38	321.20	320.79	320.44	320.99	319.95	319.98	319.81	
27	319.62	319.65	319.74	320.88	321.04	321.00	320.65	320.46	320.65	319.96	319.89	319.85	
28	319.62	319.65	319.71	320.61	320.72	321.23	320.53	320.57	320.54	319.96	319.84	319.85	
29	319.62	319.64	319.72	320.46	320.50	321.85	320.51	320.51	320.47	319.99		319.79	
30	319.63	319.64	319.69	320.70	320.35	321.66	320.48	320.47	320.42	320.00		319.78	
31		319.63		321.16	320.24		320.52		320.38	320.09		319.77	
Mean	319.63	319.62	319.85	320.11	320.64	320.96	320.71	320.45	320.45	320.14	319.94	319.87	
Max	319.66	319.65	320.11	321.16	321.85	321.85	321.45	320.84	321.46	320.35	320.12	320.09	321.85
Min	319.62	319.60	319.62	319.79	320.24	320.22	320.42	320.27	320.28	319.95	319.84	319.77	319.60

Annual Max Momentary Gage Height 322.07 M (MSL), at 16.00 Hours, on Aug 1, 1992
Zero Gage at Bottom Elevation 319.70 M (MSL), River Bed 319.73 M (MSL)
Left Bank Elevation 322.68 M (MSL)
Right Bank Elevation 328.08 M (MSL), Drainage Area 515 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.05	22.20	4.50	9.26	2.30	2.30	1.63	0.58	0.03	
2	0.00	0.00	0.00	0.04	16.86	4.41	5.82	1.85	2.14	1.41	0.48	0.03	
3	0.00	0.00	0.00	0.05	15.28	2.70	4.72	1.74	2.14	1.26	0.46	0.04	
4	0.00	0.00	0.00	0.02	8.56	1.51	5.16	1.41	1.98	1.26	0.36	0.04	
5	0.00	0.00	0.00	0.01	3.87	1.08	3.51	1.21	1.98	1.21	0.42	0.07	
6	0.00	0.00	0.00	0.01	12.40	0.99	3.06	1.41	1.98	0.70	0.25	0.09	
7	0.00	0.00	0.00	0.04	8.56	2.46	3.33	1.46	1.98	0.74	0.23	0.08	
8	0.00	0.00	0.05	0.07	4.61	1.98	2.62	1.35	1.98	0.86	0.23	0.05	
9	0.00	0.00	0.28	0.03	2.54	2.62	2.06	1.41	1.90	0.90	0.21	0.03	
10	0.00	0.00	0.25	0.04	2.54	3.69	2.30	6.04	1.85	0.90	0.19	0.02	
11	0.00	0.00	0.48	0.02	2.46	9.54	2.06	4.72	1.79	0.94	0.16	0.04	
12	0.00	0.00	0.50	0.03	1.85	4.50	2.38	3.24	1.74	0.82	0.25	0.11	
13	0.00	0.00	0.54	0.01	1.57	2.79	3.15	3.06	1.68	0.82	0.23	0.32	
14	0.00	0.00	0.48	0.02	1.85	1.85	2.70	2.70	1.68	0.74	0.11	0.32	
15	0.00	0.00	0.50	0.82	2.70	2.70	7.09	2.62	1.63	0.70	0.09	0.44	
16	0.00	0.00	0.48	1.31	4.50	11.60	7.74	2.46	1.57	0.70	0.09	0.48	
17	0.00	0.00	0.46	0.86	2.79	16.32	14.16	2.46	1.57	0.66	0.10	0.46	
18	0.00	0.00	0.36	0.50	1.79	14.48	14.80	2.38	1.51	0.58	0.09	0.17	
19	0.00	0.00	0.36	0.44	1.74	15.96	9.40	2.22	1.51	0.58	0.14	0.10	
20	0.00	0.00	0.17	0.38	1.63	16.50	6.83	2.06	1.46	0.66	0.16	0.04	
21	0.00	0.00	0.14	0.50	1.35	11.60	4.72	2.06	1.41	0.58	0.16	0.03	
22	0.00	0.00	0.07	0.42	1.35	13.52	3.87	2.06	1.31	0.54	0.11	0.02	
23	0.00	0.00	0.02	0.36	1.46	14.16	3.60	2.14	1.26	0.48	0.07	0.01	
24	0.00	0.00	0.01	1.79	1.41	12.88	3.33	2.14	3.51	0.42	0.10	0.01	
25	0.00	0.00	0.01	0.99	1.68	10.96	4.72	2.30	14.96	0.38	0.09	0.01	
26	0.00	0.00	0.01	2.38	1.79	10.80	5.49	2.22	7.87	0.21	0.26	0.02	
27	0.00	0.00	0.00	6.48	8.56	8.00	4.05	2.38	4.05	0.23	0.11	0.07	
28	0.00	0.00	0.00	3.69	4.72	11.28	2.97	3.33	3.06	0.23	0.05	0.07	
29	0.00	0.00	0.00	2.38	2.70	22.20	2.79	2.79	2.46	0.28		0.01	
30	0.00	0.00	0.00	4.50	1.63	18.48	2.54	2.46	2.06	0.30		0.01	
31		0.00		10.24	1.08		2.88		1.79	0.48		0.01	
Total	0.00	0.00	5.17	38.48	148.03	256.06	153.11	71.98	80.11	22.20	5.78	3.23	784.15 CMSDAY
Mean	0.00	0.00	0.17	1.24	4.78	8.54	4.94	2.40	2.58	0.72	0.21	0.10	2.15 CMS
Max	0.00	0.00	0.54	10.24	22.20	22.20	14.80	6.04	14.96	1.63	0.58	0.48	22.20 CMS
Min	0.00	0.00	0.00	0.01	1.08	0.99	2.06	1.21	1.26	0.21	0.05	0.01	0.00 CMS
Runoff	0.000	0.000	0.447	3.325	12.790	22.124	13.229	6.219	6.922	1.918	0.499	0.279	67.751 MCM

Momentary Peak 26.74 CMS, at 322.07 M (MSL), at 16.00 Hours, on Aug 1, 1992

Runoff Yield 4.17 Liters/Second/Square KM, Momentary Peak Yield 51.92 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

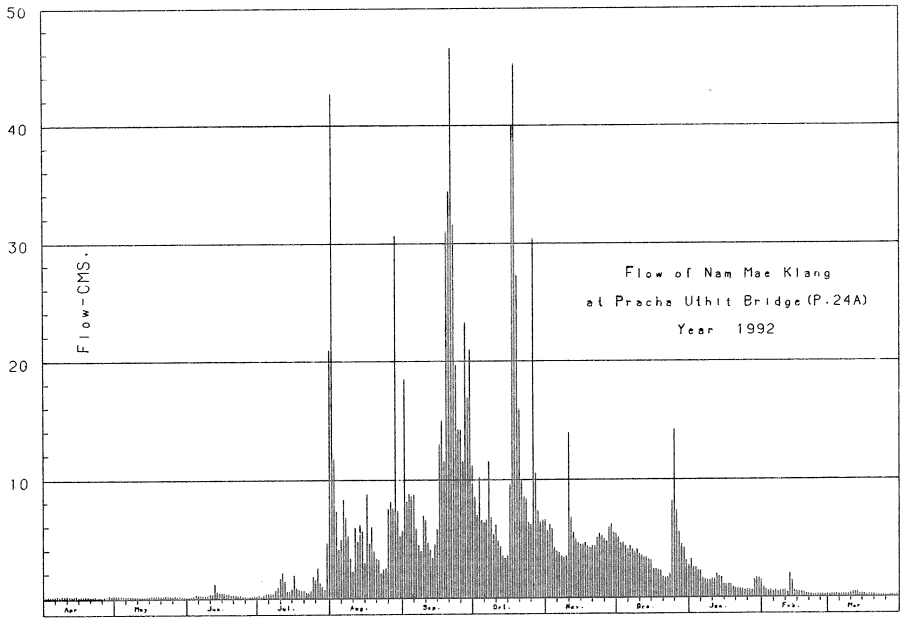
Nam Mae Klang at Pracha Uthit Bridge, Chaiang Mai (P.24A)

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	+274.693 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	B.M.1 near the gage observer's house, B.M.2 on left bank at abutment.
Elevation	B.M.1 =+277.954 m. (M.S.L.), B.M.2 =+280.309 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1973 to date.
Rating Operation	
Period of Rating	1973 to date.
Rated by Float	-
Rated by Current Meter	1973 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +277.55 m.(M.S.L.) and is included.
General Description	Records fair. Stage-discharge relation defined by 39 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.46	275.49	275.43	275.49	277.38	276.56	276.13	275.98	275.94	275.81	275.61	275.49	
2	275.46	275.48	275.46	275.50	276.29	276.11	276.05	276.01	275.91	275.76	275.57	275.49	
3	275.46	275.48	275.46	275.52	276.07	276.14	276.21	275.99	275.91	275.76	275.56	275.50	
4	275.45	275.46	275.51	275.53	275.87	276.13	276.03	275.88	275.89	275.74	275.56	275.50	
5	275.46	275.46	275.50	275.53	275.93	276.14	276.02	275.86	275.87	275.74	275.55	275.49	
6	275.46	275.46	275.49	275.52	276.12	275.99	276.03	275.85	275.89	275.69	275.56	275.47	
7	275.46	275.47	275.48	275.53	276.04	275.90	276.28	275.83	275.87	275.68	275.54	275.49	
8	275.47	275.45	275.48	275.58	275.95	275.86	276.04	275.82	275.85	275.67	275.55	275.48	
9	275.48	275.45	275.49	275.62	275.82	276.05	275.96	275.83	275.87	275.67	275.56	275.49	
10	275.48	275.45	275.52	275.70	275.74	276.03	276.01	276.38	275.84	275.68	275.56	275.51	
11	275.47	275.45	275.51	275.73	276.00	275.91	275.92	276.04	275.83	275.68	275.53	275.53	
12	275.47	275.45	275.65	275.67	275.92	275.87	275.89	275.97	275.82	275.72	275.72	275.54	
13	275.47	275.45	275.56	275.57	276.01	275.82	275.83	275.93	275.82	275.70	275.67	275.53	
14	275.47	275.45	275.55	275.56	275.98	275.90	275.82	275.91	275.81	275.70	275.56	275.50	
15	275.45	275.46	275.54	275.60	275.79	275.99	275.83	275.90	275.80	275.64	275.55	275.50	
16	275.46	275.47	275.54	275.72	276.14	276.34	276.18	275.90	275.75	275.63	275.53	275.49	
17	275.46	275.47	275.53	275.61	275.91	276.42	277.30	275.91	275.75	275.64	275.54	275.47	
18	275.45	275.47	275.52	275.60	276.00	276.28	277.45	275.89	275.74	275.63	275.52	275.48	
19	275.47	275.47	275.51	275.57	275.86	277.01	276.89	275.88	275.74	275.61	275.51	275.49	
20	275.46	275.46	275.50	275.58	275.82	277.12	276.46	275.89	275.70	275.60	275.49	275.47	
21	275.45	275.47	275.50	275.54	275.81	277.49	276.20	275.89	275.69	275.59	275.49	275.46	
22	275.45	275.48	275.49	275.54	275.73	277.03	276.13	275.94	275.70	275.59	275.47	275.46	
23	275.44	275.48	275.48	275.57	275.75	276.61	276.12	275.96	275.72	275.58	275.47	275.46	
24	275.44	275.47	275.47	275.71	275.76	276.39	276.02	275.95	276.11	275.57	275.48	275.45	
25	275.44	275.47	275.45	275.68	276.08	276.39	276.01	275.93	276.39	275.57	275.48	275.46	
26	275.44	275.47	275.45	275.76	276.11	276.28	276.99	275.92	276.07	275.57	275.48	275.47	
27	275.46	275.46	275.46	275.66	276.08	276.75	276.23	276.00	275.97	275.57	275.48	275.46	
28	275.49	275.46	275.46	275.62	277.00	276.50	276.07	276.01	275.90	275.68	275.48	275.45	
29	275.48	275.46	275.47	275.60	276.07	276.66	276.02	275.97	275.88	275.69		275.45	
30	275.49	275.44	275.47	275.91	275.95	276.26	276.03	275.96	275.80	275.69		275.46	
31		275.45		276.66	275.98		276.03		275.77	275.67		275.45	
Mean	275.46	275.46	275.50	275.64	276.03	276.33	276.20	275.94	275.86	275.66	275.54	275.48	
Max	275.49	275.49	275.65	276.66	277.38	277.49	277.45	276.38	276.39	275.81	275.72	275.54	277.49
Min	275.44	275.44	275.43	275.49	275.73	275.82	275.82	275.82	275.69	275.57	275.47	275.45	275.43

Annual Max Momentary Gage Height 277.81 M (MSL), at 15.00 Hours, on Sep 21, 1992
Zero Gage at Bottom Elevation 274.69 M (MSL), River Bed 275.28 M (MSL)
Left Bank Elevation 277.64 M (MSL)
Right Bank Elevation 277.54 M (MSL), Drainage Area 460 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.22	0.07	0.22	42.80	18.50	8.60	5.70	5.10	3.24	0.84	0.22	
2	0.15	0.20	0.15	0.25	11.80	8.20	7.00	6.20	4.65	2.54	0.60	0.22	
3	0.15	0.20	0.15	0.35	7.40	8.80	10.20	5.85	4.65	2.54	0.55	0.25	
4	0.13	0.15	0.30	0.40	4.08	8.60	6.60	4.22	4.36	2.26	0.55	0.25	
5	0.15	0.15	0.25	0.40	4.95	8.80	6.40	3.94	4.08	2.26	0.50	0.22	
6	0.15	0.15	0.22	0.35	8.40	5.85	6.60	3.80	4.36	1.60	0.55	0.18	
7	0.15	0.18	0.20	0.40	6.80	4.50	11.60	3.52	4.08	1.51	0.45	0.22	
8	0.18	0.13	0.20	0.65	5.25	3.94	6.80	3.38	3.80	1.42	0.50	0.20	
9	0.20	0.13	0.22	0.94	3.38	7.00	5.40	3.52	4.08	1.42	0.55	0.22	
10	0.20	0.13	0.35	1.70	2.26	6.60	6.20	14.00	3.66	1.51	0.55	0.30	
11	0.18	0.13	0.30	2.12	6.00	4.65	4.80	6.80	3.52	1.51	0.40	0.40	
12	0.18	0.13	1.22	1.42	4.80	4.08	4.36	5.55	3.38	1.98	1.98	0.45	
13	0.18	0.13	0.55	0.60	6.20	3.38	3.52	4.95	3.38	1.70	1.42	0.40	
14	0.18	0.13	0.50	0.55	5.70	4.50	3.38	4.65	3.24	1.70	0.55	0.25	
15	0.13	0.15	0.45	0.75	2.96	5.85	3.52	4.50	3.10	1.13	0.50	0.25	
16	0.15	0.18	0.45	1.98	8.80	13.00	9.60	4.50	2.40	1.03	0.40	0.22	
17	0.15	0.18	0.40	0.84	4.65	15.00	40.00	4.65	2.40	1.13	0.45	0.18	
18	0.13	0.18	0.35	0.75	6.00	11.60	45.25	4.36	2.26	1.03	0.35	0.20	
19	0.18	0.18	0.30	0.60	3.94	31.01	27.29	4.22	2.26	0.84	0.30	0.22	
20	0.15	0.15	0.25	0.65	3.38	34.42	16.00	4.36	1.70	0.75	0.22	0.18	
21	0.13	0.18	0.25	0.45	3.24	46.65	10.00	4.36	1.60	0.70	0.22	0.15	
22	0.13	0.20	0.22	0.45	2.12	31.63	8.60	5.10	1.70	0.70	0.18	0.15	
23	0.10	0.20	0.20	0.60	2.40	19.75	8.40	5.40	1.98	0.65	0.18	0.15	
24	0.10	0.18	0.18	1.84	2.54	14.25	6.40	5.25	8.20	0.60	0.20	0.13	
25	0.10	0.18	0.13	1.51	7.60	14.25	6.20	4.95	14.25	0.60	0.20	0.15	
26	0.10	0.18	0.13	2.54	8.20	11.60	30.39	4.80	7.40	0.60	0.20	0.18	
27	0.15	0.15	0.15	1.32	7.60	23.25	10.60	6.00	5.55	0.60	0.20	0.15	
28	0.22	0.15	0.15	0.94	30.70	17.00	7.40	6.20	4.50	1.51	0.20	0.13	
29	0.20	0.15	0.18	0.75	7.40	21.00	6.40	5.55	4.22	1.60		0.13	
30	0.22	0.10	0.18	4.65	5.25	11.20	6.60	5.40	3.10	1.60		0.15	
31		0.13		21.00	5.70		6.60		2.68	1.42		0.13	
Total	4.67	4.98	8.65	51.97	232.30	418.86	340.71	155.68	125.64	43.68	13.79	6.63	1407.56 CMSDAY
Mean	0.16	0.16	0.29	1.68	7.49	13.96	10.99	5.19	4.05	1.41	0.49	0.21	3.86 CMS
Max	0.22	0.22	1.22	21.00	42.80	46.65	45.25	14.00	14.25	3.24	1.98	0.45	46.65 CMS
Min	0.10	0.10	0.07	0.22	2.12	3.38	3.38	3.38	1.60	0.60	0.18	0.13	0.07 CMS
Runoff	0.403	0.430	0.747	4.490	20.071	36.190	29.437	13.451	10.855	3.774	1.191	0.573	121.613 MCM

Momentary Peak 58.40 CMS, at 277.81 M (MSL), at 15.00 Hours, on Sep 21, 1992
Runoff Yield 8.38 Liters/Second/Square KM, Momentary Peak Yield 126.96 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

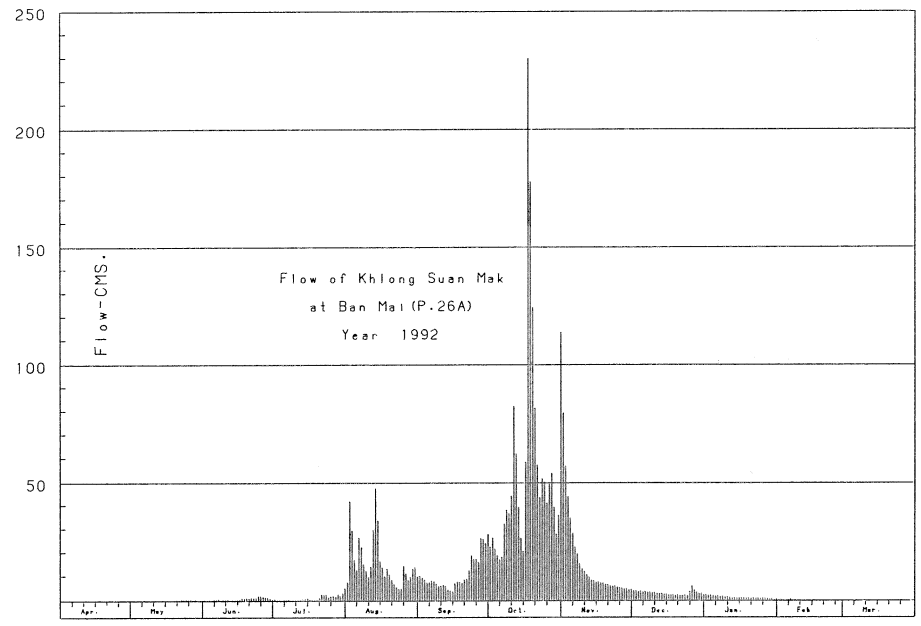
Khlong Suan Mak at Ban Mai, Kamphaeng Phet (P.26A)

Location	Lat. 16°-26'-57" N., Long. 99°-26'-27" E., on right bank about 515 meters downstream from Tha Kradan Weir at Ban Mai, Tambon Na Bo Khum, Amphoe Muang, Kamphaeng Phet.
Drainage Area	969 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building
Elevation	+6.144 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1972-1974, 1980 to date.
Rated by Float	-
Rated by Current Meter	1972-1974, 1980 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 4.30 m.(A.D.) and is included.
General Description	Records good. Flow regulated by Tha Kradan Weir built by the local residents. Stage-discharge relation defined by 32 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.48	-0.45	-0.36	-0.29	0.70	0.91	1.53	2.96	0.33	0.06	-0.30	-0.46	
2	-0.49	-0.45	-0.35	-0.30	2.11	0.86	1.67	2.49	0.30	0.04	-0.30	-0.46	
3	-0.49	-0.44	-0.34	-0.32	1.78	0.78	1.50	2.17	0.29	0.02	-0.29	-0.47	
4	-0.48	-0.43	-0.32	-0.34	1.30	0.68	1.40	1.92	0.28	0.01	-0.31	-0.47	
5	-0.48	-0.44	-0.33	-0.34	1.08	0.70	1.32	1.74	0.26	-0.02	-0.33	-0.47	
6	-0.48	-0.45	-0.28	-0.34	1.67	0.75	1.36	1.53	0.25	-0.03	-0.34	-0.47	
7	-0.49	-0.46	-0.30	-0.36	1.54	0.74	1.86	1.43	0.24	-0.05	-0.35	-0.47	
8	-0.49	-0.47	-0.31	-0.39	1.22	0.61	2.01	1.23	0.22	-0.07	-0.37	-0.47	
9	-0.50	-0.48	-0.32	-0.40	1.06	0.54	1.97	1.12	0.21	-0.09	-0.39	-0.46	
10	-0.50	-0.48	-0.33	-0.39	0.87	0.52	2.17	1.04	0.20	-0.11	-0.40	-0.46	
11	-0.50	-0.49	-0.33	-0.40	1.16	0.60	3.01	0.96	0.18	-0.18	-0.43	-0.46	
12	-0.51	-0.49	-0.33	-0.31	1.78	0.53	2.62	0.87	0.16	-0.20	-0.43	-0.46	
13	-0.51	-0.41	-0.32	-0.27	2.26	0.38	2.05	0.79	0.14	-0.20	-0.43	-0.46	
14	-0.51	-0.35	-0.31	-0.24	1.90	0.30	1.67	0.75	0.12	-0.19	-0.44	-0.46	
15	-0.52	-0.35	-0.31	-0.18	1.29	0.27	1.46	0.71	0.10	-0.19	-0.45	-0.46	
16	-0.52	-0.34	-0.29	-0.41	1.14	0.63	2.53	0.69	0.08	-0.19	-0.45	-0.46	
17	-0.52	-0.33	-0.21	-0.39	0.91	0.72	4.76	0.68	0.07	-0.20	-0.45	-0.46	
18	-0.50	-0.30	-0.20	-0.34	1.11	0.68	4.24	0.65	0.05	-0.20	-0.45	-0.46	
19	-0.50	-0.30	-0.20	-0.22	0.95	0.67	3.63	0.62	0.05	-0.21	-0.45	-0.46	
20	-0.49	-0.31	-0.19	-0.16	0.80	0.79	2.99	0.59	0.05	-0.21	-0.45	-0.46	
21	-0.49	-0.31	-0.19	0.10	0.60	0.81	2.50	0.55	0.04	-0.21	-0.45	-0.46	
22	-0.48	-0.31	-0.18	0.08	0.49	1.08	2.16	0.53	0.03	-0.21	-0.45	-0.46	
23	-0.48	-0.32	-0.18	0.08	0.39	1.40	2.36	0.53	0.02	-0.22	-0.45	-0.46	
24	-0.48	-0.33	0.00	-0.11	0.43	1.31	2.32	0.49	0.02	-0.22	-0.45	-0.47	
25	-0.47	-0.34	-0.03	-0.07	1.20	1.32	2.09	0.45	0.26	-0.20	-0.46	-0.47	
26	-0.47	-0.35	-0.06	-0.05	0.97	1.27	2.31	0.43	0.52	-0.21	-0.45	-0.47	
27	-0.47	-0.36	-0.11	-0.06	0.78	1.67	2.42	0.42	0.37	-0.23	-0.45	-0.47	
28	-0.46	-0.36	-0.18	0.13	0.87	1.65	2.05	0.41	0.21	-0.25	-0.45	-0.47	
29	-0.46	-0.37	-0.24	-0.03	1.12	1.60	1.73	0.38	0.17	-0.27		-0.47	
30	-0.46	-0.36	-0.28	0.19	1.15	1.73	1.95	0.37	0.14	-0.29		-0.47	
31		-0.36		0.43	0.90		3.49		0.08	-0.30		-0.47	
Mean	-0.49	-0.39	-0.25	-0.18	1.15	0.88	2.29	0.98	0.18	-0.16	-0.41	-0.46	
Max	-0.46	-0.30	0.00	0.43	2.26	1.73	4.76	2.96	0.52	0.06	-0.29	-0.46	4.76
Min	-0.52	-0.49	-0.36	-0.41	0.39	0.27	1.32	0.37	0.02	-0.30	-0.46	-0.47	-0.52

Annual Max Momentary Gage Height 4.94 M (A.D), at 6.00 Hours, on Oct 17, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.52 M (A.D)
Left Bank Elevation 4.29 M (A.D)
Right Bank Elevation 5.86 M (A.D), Drainage Area 969 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.13	0.35	0.55	7.80	10.34	22.58	79.76	4.24	2.36	0.50	0.10	
2	0.02	0.13	0.38	0.50	41.98	9.64	26.50	57.00	4.00	2.24	0.50	0.10	
3	0.02	0.15	0.40	0.45	29.80	8.60	21.80	44.26	3.93	2.12	0.55	0.08	
4	0.05	0.18	0.45	0.40	17.00	7.60	19.20	34.88	3.86	2.06	0.48	0.08	
5	0.05	0.15	0.43	0.40	12.88	7.80	17.44	28.60	3.72	1.90	0.43	0.08	
6	0.05	0.13	0.60	0.40	26.50	8.30	18.32	22.58	3.65	1.85	0.40	0.08	
7	0.02	0.10	0.50	0.35	22.84	8.20	32.64	19.98	3.58	1.75	0.38	0.08	
8	0.02	0.08	0.48	0.28	15.24	6.90	38.24	15.46	3.44	1.65	0.33	0.08	
9	0.00	0.05	0.45	0.25	12.56	6.20	36.75	13.52	3.37	1.55	0.28	0.10	
10	0.00	0.05	0.43	0.28	9.78	6.00	44.26	12.24	3.30	1.45	0.25	0.10	
11	0.00	0.02	0.43	0.25	14.16	6.80	82.60	11.04	3.16	1.10	0.18	0.10	
12	0.00	0.02	0.43	0.48	29.80	6.10	62.40	9.78	3.02	1.00	0.18	0.10	
13	0.00	0.23	0.45	0.65	47.80	4.64	39.73	8.70	2.88	1.00	0.18	0.10	
14	0.00	0.38	0.48	0.80	34.13	4.00	26.50	8.30	2.74	1.05	0.15	0.10	
15	0.00	0.38	0.48	1.10	16.78	3.79	20.76	7.90	2.60	1.05	0.13	0.10	
16	0.00	0.40	0.55	0.23	13.84	7.10	58.60	7.70	2.48	1.05	0.13	0.10	
17	0.00	0.43	0.95	0.28	10.34	8.00	230.20	7.60	2.42	1.00	0.13	0.10	
18	0.00	0.50	1.00	0.40	13.36	7.60	177.60	7.30	2.30	1.00	0.13	0.10	
19	0.00	0.50	1.00	0.90	10.90	7.50	124.40	7.00	2.30	0.95	0.13	0.10	
20	0.02	0.48	1.05	1.20	8.80	8.70	81.44	6.70	2.30	0.95	0.13	0.10	
21	0.02	0.48	1.05	2.60	6.80	8.94	57.40	6.30	2.24	0.95	0.13	0.10	
22	0.05	0.48	1.10	2.48	5.70	12.88	43.88	6.10	2.18	0.95	0.13	0.10	
23	0.05	0.45	1.10	2.48	4.72	19.20	51.80	6.10	2.12	0.90	0.13	0.10	
24	0.05	0.43	2.00	1.45	5.10	17.22	50.20	5.70	2.12	0.90	0.13	0.08	
25	0.08	0.40	1.85	1.65	14.80	17.44	41.23	5.30	3.72	1.00	0.10	0.08	
26	0.08	0.38	1.70	1.75	11.18	16.34	49.80	5.10	6.00	0.95	0.13	0.08	
27	0.08	0.35	1.45	1.70	8.60	26.50	54.20	5.00	4.56	0.85	0.13	0.08	
28	0.10	0.35	1.10	2.81	9.78	25.90	39.73	4.90	3.37	0.75	0.13	0.08	
29	0.10	0.33	0.80	1.85	13.52	24.40	28.30	4.64	3.09	0.65		0.08	
30	0.10	0.35	0.60	3.23	14.00	28.30	36.00	4.56	2.88	0.55		0.08	
31		0.35		5.10	10.20		113.70		2.48	0.50		0.08	
Total	1.01	8.84	24.04	37.25	500.69	340.93	1748.20	464.00	98.05	38.03	6.58	2.82	3270.44 CMSDAY
Mean	0.03	0.29	0.80	1.20	16.15	11.36	56.39	15.47	3.16	1.23	0.24	0.09	8.96 CMS
Max	0.10	0.50	2.00	5.10	47.80	28.30	230.20	79.76	6.00	2.36	0.55	0.10	230.20 CMS
Min	0.00	0.02	0.35	0.23	4.72	3.79	17.44	4.56	2.12	0.50	0.10	0.08	0.00 CMS
Runoff	0.087	0.764	2.077	3.218	43.260	29.456	151.044	40.090	8.472	3.286	0.569	0.244	282.566 MCM

Momentary Peak 251.80 CMS, at 4.94 M (A.D), at 6.00 Hours, on Oct 17, 1992

Runoff Yield 9.25 Liters/Second/Square KM, Momentary Peak Yield 259.86 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

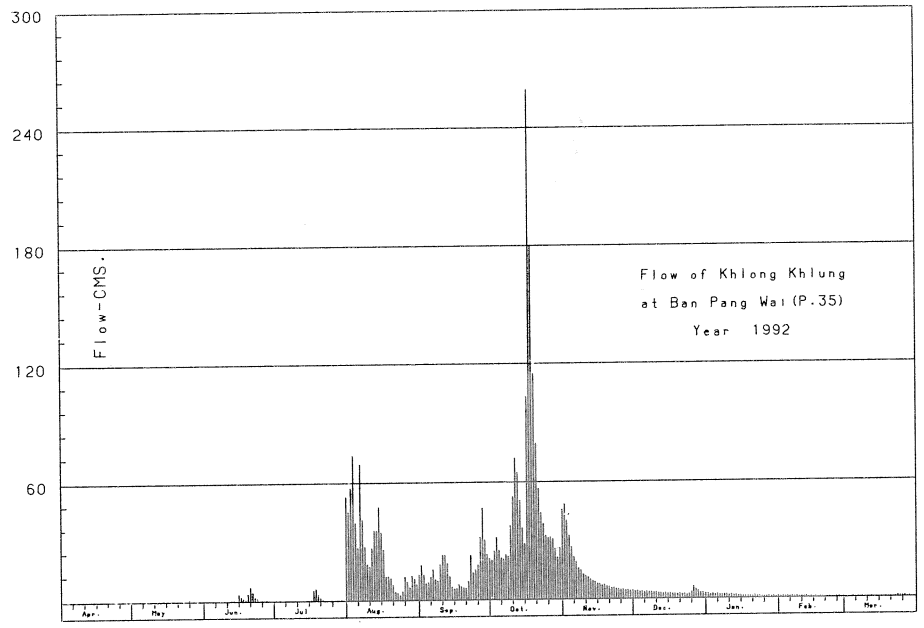
Khlong Khlung at Ban Pang Wai, Kamphaeng Phet (P.35)

Location	Lat. 16°-04'-22" N., Long. 99°-24'-18" E., on right bank at Ban Pang Wai about 1.5 kilometers from Khao Song Phi Nong, Amphoe Khlong Khlung, Kamphaeng Phet.
Drainage Area	730 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 34 meters from the top staff gage.
Elevation	+4.502 m. (A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1974 to date.
Rating Operation	
Period of Rating	1974 to date.
Rated by Float	-
Rated by Current Meter	1974 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 4.52 m.(A.D.) and is included.
General Description	Records fair. Stage-discharge relation defined by 48 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.32	-0.52	-0.19	-0.14	3.12	1.84	1.99	3.25	0.70	0.44	0.10	-0.01	
2	-0.32	-0.52	-0.19	-0.15	3.52	1.55	2.23	2.92	0.69	0.40	0.11	-0.01	
3	-0.35	-0.36	-0.20	-0.16	3.95	1.23	2.58	2.61	0.67	0.40	0.11	0.00	
4	-0.36	-0.33	-0.16	-0.16	2.91	1.24	2.26	2.32	0.66	0.39	0.09	-0.01	
5	-0.36	-0.37	-0.17	-0.17	2.33	1.48	2.05	2.08	0.63	0.39	0.10	-0.01	
6	-0.37	-0.44	-0.20	-0.17	3.86	1.71	2.00	1.91	0.63	0.37	0.10	-0.01	
7	-0.38	-0.49	-0.21	-0.17	2.96	1.39	2.14	1.75	0.62	0.32	0.10	-0.01	
8	-0.32	-0.50	-0.20	-0.18	2.37	1.29	2.08	1.66	0.60	0.37	0.10	-0.01	
9	-0.34	-0.52	-0.17	-0.18	1.89	1.86	2.82	1.57	0.59	0.36	0.10	-0.02	
10	-0.34	-0.53	-0.20	-0.19	1.81	2.15	3.39	1.46	0.56	0.32	0.09	-0.02	
11	-0.36	-0.54	-0.21	-0.19	2.32	2.13	3.92	1.44	0.54	0.32	0.09	-0.01	
12	-0.37	-0.54	0.00	-0.18	2.74	1.91	3.73	1.33	0.50	0.29	0.08	-0.01	
13	-0.39	-0.54	-0.02	-0.11	2.73	1.50	3.31	1.29	0.50	0.27	0.06	-0.02	
14	-0.40	-0.01	0.03	-0.15	3.22	1.03	2.78	1.23	0.50	0.24	0.06	0.00	
15	-0.43	-0.07	0.64	-0.11	2.70	0.95	2.42	1.18	0.49	0.19	0.06	0.00	
16	-0.45	-0.12	0.37	0.04	2.28	0.94	4.42	1.13	0.48	0.18	0.05	0.00	
17	-0.46	-0.14	0.15	0.87	1.50	1.16	5.64	1.09	0.46	0.15	0.05	-0.01	
18	-0.46	-0.16	0.07	1.01	1.48	1.05	5.18	1.09	0.43	0.15	0.05	-0.02	
19	-0.48	-0.17	0.60	0.56	1.44	1.01	4.57	1.05	0.44	0.15	0.05	-0.02	
20	-0.48	-0.20	1.11	0.29	1.15	0.96	4.06	1.00	0.44	0.16	0.05	-0.03	
21	-0.48	-0.21	0.79	0.06	0.76	1.28	3.51	0.96	0.43	0.23	0.05	-0.04	
22	-0.49	-0.22	0.39	-0.05	0.63	2.14	3.08	0.93	0.42	0.18	0.04	-0.04	
23	-0.50	-0.23	0.18	-0.08	0.48	1.62	2.87	0.89	0.39	0.14	0.04	0.15	
24	-0.50	-0.23	0.07	-0.11	0.75	1.69	2.60	0.85	0.40	0.10	0.03	0.12	
25	-0.51	0.15	-0.01	-0.13	1.49	1.86	2.56	0.83	0.62	0.10	0.02	0.07	
26	-0.51	-0.08	-0.04	-0.13	1.27	2.57	2.56	0.80	0.96	0.13	0.01	0.06	
27	-0.51	-0.13	-0.06	-0.11	1.04	3.18	2.54	0.78	0.81	0.11	0.00	0.04	
28	-0.51	-0.14	-0.10	-0.04	1.50	2.52	2.28	0.75	0.64	0.11	0.00	0.01	
29	-0.52	-0.15	-0.12	-0.02	1.41	2.14	2.06	0.74	0.55	0.11		-0.02	
30	-0.52	-0.15	-0.14	0.06	1.16	2.02	2.30	0.73	0.51	0.10		-0.04	
31		-0.16		3.40	1.54		3.14		0.48	0.10		-0.04	
Mean	-0.43	-0.28	0.06	0.10	2.01	1.65	3.00	1.39	0.56	0.23	0.06	0.00	
Max	-0.32	0.15	1.11	3.40	3.95	3.18	5.64	3.25	0.96	0.44	0.11	0.15	5.64
Min	-0.52	-0.54	-0.21	-0.19	0.48	0.94	1.99	0.73	0.39	0.10	0.00	-0.04	-0.54

Annual Max Momentary Gage Height 5.73 M (A.D), at 6.00 Hours, on Oct 17, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.10 M (A.D)
Left Bank Elevation 11.88 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, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.02	0.12	45.12	17.60	20.22	48.65	4.05	2.43	0.90	0.47	
2	0.00	0.00	0.02	0.10	57.20	12.90	24.61	40.04	3.99	2.18	0.94	0.47	
3	0.00	0.00	0.00	0.08	73.75	8.68	31.97	32.64	3.86	2.18	0.94	0.50	
4	0.00	0.00	0.08	0.08	39.80	8.80	25.23	26.46	3.80	2.13	0.86	0.47	
5	0.00	0.00	0.06	0.06	26.66	11.92	21.30	21.84	3.61	2.13	0.90	0.47	
6	0.00	0.00	0.00	0.06	69.70	15.42	20.40	18.82	3.61	2.04	0.90	0.47	
7	0.00	0.00	0.00	0.06	41.02	10.68	22.92	16.07	3.55	1.80	0.90	0.47	
8	0.00	0.00	0.00	0.04	27.48	9.42	21.84	14.59	3.42	2.04	0.90	0.47	
9	0.00	0.00	0.06	0.04	18.47	17.95	37.59	13.18	3.36	1.99	0.90	0.44	
10	0.00	0.00	0.00	0.02	17.07	23.10	52.71	11.64	3.17	1.80	0.86	0.44	
11	0.00	0.00	0.00	0.02	26.46	22.74	72.40	11.36	3.05	1.80	0.86	0.47	
12	0.00	0.00	0.50	0.04	35.69	18.82	64.55	9.93	2.80	1.66	0.82	0.47	
13	0.00	0.00	0.44	0.18	35.46	12.20	50.39	9.42	2.80	1.58	0.74	0.44	
14	0.00	0.47	0.62	0.10	47.78	6.51	36.63	8.68	2.80	1.46	0.74	0.50	
15	0.00	0.29	3.67	0.18	34.75	5.80	28.53	8.09	2.74	1.26	0.74	0.50	
16	0.00	0.16	2.04	0.66	25.64	5.73	103.05	7.56	2.68	1.22	0.70	0.50	
17	0.00	0.12	1.10	5.20	12.20	7.88	259.60	7.15	2.55	1.10	0.70	0.47	
18	0.00	0.08	0.78	6.30	11.92	6.72	180.35	7.15	2.37	1.10	0.70	0.44	
19	0.00	0.06	3.42	3.17	11.36	6.30	114.68	6.72	2.43	1.10	0.70	0.44	
20	0.00	0.00	7.36	1.66	7.77	5.88	79.72	6.20	2.43	1.14	0.70	0.41	
21	0.00	0.00	4.63	0.74	4.44	9.30	56.85	5.88	2.37	1.42	0.70	0.38	
22	0.00	0.00	2.13	0.35	3.61	22.92	44.08	5.65	2.30	1.22	0.66	0.38	
23	0.00	0.00	1.22	0.26	2.68	13.93	38.81	5.34	2.13	1.06	0.66	1.10	
24	0.00	0.00	0.78	0.18	4.38	15.09	32.40	5.05	2.18	0.90	0.62	0.98	
25	0.00	1.10	0.47	0.14	12.06	17.95	31.54	4.91	3.55	0.90	0.58	0.78	
26	0.00	0.26	0.38	0.14	9.18	31.76	31.54	4.70	5.88	1.02	0.54	0.74	
27	0.00	0.14	0.32	0.18	6.62	46.68	31.11	4.57	4.77	0.94	0.50	0.66	
28	0.00	0.12	0.20	0.38	12.20	30.68	25.64	4.38	3.67	0.94	0.50	0.54	
29	0.00	0.10	0.16	0.44	10.94	22.92	21.48	4.31	3.11	0.94		0.44	
30	0.00	0.10	0.12	0.74	7.88	20.76	26.05	4.25	2.86	0.90		0.38	
31		0.08		53.00	12.76		45.64		2.68	0.90		0.38	
Total	0.00	3.08	30.58	74.72	752.05	467.04	1653.83	375.23	98.57	45.28	21.16	16.07	3537.61 CMSDAY
Mean	0.00	0.10	1.02	2.41	24.26	15.57	53.35	12.51	3.18	1.46	0.76	0.52	9.69 CMS
Max	0.00	1.10	7.36	53.00	73.75	46.68	259.60	48.65	5.88	2.43	0.94	1.10	259.60 CMS
Min	0.00	0.00	0.00	0.02	2.68	5.73	20.22	4.25	2.13	0.90	0.50	0.38	0.00 CMS
Runoff	0.000	0.266	2.642	6.456	64.977	40.352	142.891	32.420	8.516	3.912	1.828	1.388	305.650 MCM

Momentary Peak 281.20 CMS, at 5.73 M (A.D), at 6.00 Hours, on Oct 17, 1992

Runoff Yield 13.28 Liters/Second/Square KM, Momentary Peak Yield 385.21 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

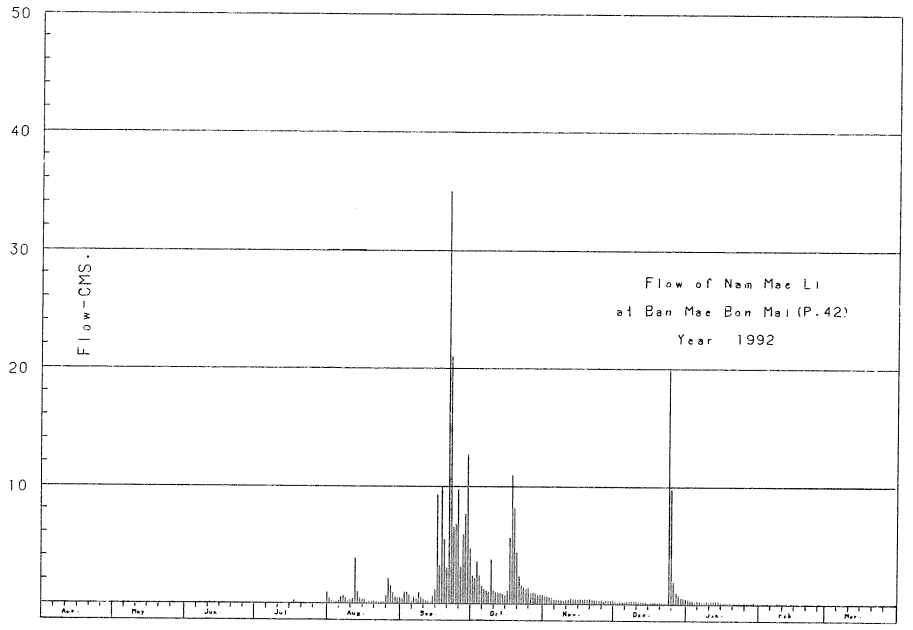
Nam Mae Li at Ban Mae Bon Mai, Lamphun (P.42)

Location	Lat. 17°-53'-16" N., Long. 99°-05'-20" E., on right bank at Ban Mae Bon Mai, King Amphoe Thung Hua Chang, Lamphun.
Drainage Area	315 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+500.10 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at the top staff gage.
Elevation	+505.708 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 87 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	500.46	500.10	500.39	500.40	500.82	500.79	501.48	500.95	500.71	500.76	500.55	500.48	
2	500.45	500.10	500.39	500.40	500.61	501.09	501.43	500.93	500.70	500.75	500.55	500.47	
3	500.41	500.10	500.39	500.40	500.56	501.10	501.67	500.90	500.69	500.72	500.55	500.47	
4	500.40	500.10	500.39	500.40	500.53	500.97	501.49	500.86	500.68	500.70	500.55	500.47	
5	500.39	500.10	500.49	500.40	500.70	500.94	501.29	500.76	500.64	500.69	500.54	500.47	
6	500.39	500.10	500.47	500.40	500.86	500.87	501.18	500.73	500.65	500.67	500.54	500.47	
7	500.39	500.10	500.46	500.40	500.93	500.80	501.14	500.73	500.65	500.61	500.54	500.47	
8	500.38	500.10	500.46	500.40	500.79	501.09	501.09	500.72	500.65	500.65	500.53	500.47	
9	500.38	500.10	500.45	500.40	500.61	500.84	501.70	500.71	500.66	500.65	500.53	500.50	
10	500.38	500.10	500.45	500.40	500.71	500.75	501.16	500.74	500.63	500.65	500.53	500.49	
11	500.38	500.10	500.51	500.40	500.77	500.70	501.08	500.78	500.60	500.66	500.53	500.49	
12	500.38	500.10	500.51	500.40	501.71	500.67	501.09	500.82	500.61	500.66	500.52	500.49	
13	500.35	500.10	500.50	500.39	501.11	500.64	501.05	500.80	500.59	500.66	500.51	500.49	
14	500.33	500.10	500.48	500.39	500.82	500.93	501.04	500.77	500.59	500.68	500.51	500.49	
15	500.31	500.10	500.47	500.41	500.77	501.18	500.96	500.77	500.58	500.66	500.51	500.49	
16	500.31	500.10	500.46	500.41	500.72	502.33	501.13	500.76	500.57	500.64	500.51	500.49	
17	500.29	500.10	500.45	500.70	500.65	501.62	501.96	500.77	500.57	500.63	500.51	500.49	
18	500.29	500.10	500.44	500.48	500.62	502.40	502.50	500.76	500.56	500.60	500.51	500.48	
19	500.29	500.10	500.43	500.42	500.60	501.94	502.22	500.77	500.55	500.59	500.50	500.48	
20	500.29	500.10	500.43	500.41	500.60	501.59	501.78	500.78	500.54	500.59	500.50	500.47	
21	500.29	500.10	500.42	500.40	500.58	503.93	501.48	500.77	500.54	500.58	500.50	500.47	
22	500.29	500.10	500.41	500.40	500.56	503.21	501.31	500.76	500.53	500.58	500.49	500.48	
23	500.29	500.10	500.40	500.40	500.55	502.05	501.23	500.75	500.51	500.57	500.49	500.48	
24	500.29	500.10	500.40	500.40	500.54	502.08	501.20	500.74	503.12	500.57	500.48	500.48	
25	500.29	500.10	500.40	500.40	500.97	502.37	501.21	500.73	502.38	500.57	500.48	500.47	
26	500.29	500.10	500.39	500.39	501.43	501.60	501.10	500.72	501.37	500.56	500.47	500.47	
27	500.29	500.10	500.39	500.39	501.29	501.99	501.09	500.73	501.10	500.55	500.47	500.46	
28	500.29	500.10	500.39	500.39	501.06	502.16	501.04	500.71	500.98	500.55	500.47	500.45	
29	500.28	500.10	500.39	500.39	500.90	502.64	501.00	500.71	500.87	500.55		500.45	
30	500.28	500.10	500.39	500.54	500.82	501.83	501.00	500.70	500.83	500.55		500.45	
31		500.10		501.09	500.83		501.00		500.80	500.55		500.45	
Mean	500.34	500.10	500.43	500.44	500.81	501.57	501.33	500.77	500.82	500.63	500.51	500.48	
Max	500.46	500.10	500.51	501.09	501.71	503.93	502.50	500.95	503.12	500.76	500.55	500.50	503.93
Min	500.28	500.10	500.39	500.39	500.53	500.64	500.96	500.70	500.51	500.55	500.47	500.45	500.10

Annual Max Momentary Gage Height 504.31 M (MSL), at 14.00 Hours, on Sep 21, 1992
Zero Gage at Bottom Elevation 500.10 M (MSL), River Bed 500.44 M (MSL)
Left Bank Elevation 505.26 M (MSL)
Right Bank Elevation 505.29 M (MSL), Drainage Area 315 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.00	0.05	0.05	0.48	0.44	2.40	0.69	0.31	0.39	0.15	0.09	
2	0.08	0.00	0.05	0.05	0.21	0.98	2.15	0.65	0.30	0.37	0.15	0.09	
3	0.06	0.00	0.05	0.05	0.16	1.00	3.59	0.60	0.29	0.33	0.15	0.09	
4	0.05	0.00	0.05	0.05	0.13	0.72	2.45	0.54	0.28	0.30	0.15	0.09	
5	0.05	0.00	0.09	0.05	0.30	0.67	1.57	0.39	0.24	0.29	0.14	0.09	
6	0.05	0.00	0.09	0.05	0.54	0.55	1.24	0.35	0.25	0.27	0.14	0.09	
7	0.05	0.00	0.08	0.05	0.65	0.45	1.12	0.35	0.25	0.21	0.14	0.09	
8	0.04	0.00	0.08	0.05	0.44	0.98	0.98	0.33	0.25	0.25	0.13	0.09	
9	0.04	0.00	0.08	0.05	0.21	0.51	3.80	0.31	0.26	0.25	0.13	0.10	
10	0.04	0.00	0.08	0.05	0.31	0.37	1.18	0.36	0.23	0.25	0.13	0.09	
11	0.04	0.00	0.11	0.05	0.40	0.30	0.95	0.42	0.20	0.26	0.13	0.09	
12	0.04	0.00	0.11	0.05	3.87	0.27	0.98	0.48	0.21	0.26	0.12	0.09	
13	0.03	0.00	0.10	0.05	1.03	0.24	0.88	0.45	0.19	0.26	0.11	0.09	
14	0.01	0.00	0.09	0.05	0.48	0.65	0.86	0.40	0.19	0.28	0.11	0.09	
15	0.01	0.00	0.09	0.06	0.40	1.24	0.70	0.40	0.18	0.26	0.11	0.09	
16	0.01	0.00	0.08	0.06	0.33	9.30	1.09	0.39	0.17	0.24	0.11	0.09	
17	0.00	0.00	0.08	0.30	0.25	3.24	5.68	0.40	0.17	0.23	0.11	0.09	
18	0.00	0.00	0.07	0.09	0.22	10.00	11.00	0.39	0.16	0.20	0.11	0.09	
19	0.00	0.00	0.06	0.06	0.20	5.52	8.20	0.40	0.15	0.19	0.10	0.09	
20	0.00	0.00	0.06	0.06	0.20	3.04	4.36	0.42	0.14	0.19	0.10	0.09	
21	0.00	0.00	0.06	0.05	0.18	35.06	2.40	0.40	0.14	0.18	0.10	0.09	
22	0.00	0.00	0.06	0.05	0.16	21.06	1.64	0.39	0.13	0.18	0.09	0.09	
23	0.00	0.00	0.05	0.05	0.15	6.50	1.39	0.37	0.11	0.17	0.09	0.09	
24	0.00	0.00	0.05	0.05	0.14	6.80	1.30	0.36	19.92	0.17	0.09	0.09	
25	0.00	0.00	0.05	0.05	0.72	9.70	1.33	0.35	9.80	0.17	0.09	0.09	
26	0.00	0.00	0.05	0.05	2.15	3.10	1.00	0.33	1.88	0.16	0.09	0.09	
27	0.00	0.00	0.05	0.05	1.57	5.92	0.98	0.35	1.00	0.15	0.09	0.08	
28	0.00	0.00	0.05	0.05	0.91	7.60	0.86	0.31	0.74	0.15	0.09	0.08	
29	0.00	0.00	0.05	0.05	0.60	12.68	0.77	0.31	0.55	0.15		0.08	
30	0.00	0.00	0.05	0.14	0.48	4.71	0.77	0.30	0.49	0.15		0.08	
31		0.00		0.98	0.49		0.77		0.45	0.15		0.08	
Total	0.68	0.00	2.07	2.90	18.36	153.60	68.39	12.19	39.63	7.06	3.25	2.75	310.88 CMSDAY
Mean	0.02	0.00	0.07	0.09	0.59	5.12	2.21	0.41	1.28	0.23	0.12	0.09	0.85 CMS
Max	0.08	0.00	0.11	0.98	3.87	35.06	11.00	0.69	19.92	0.39	0.15	0.10	35.06 CMS
Min	0.00	0.00	0.05	0.05	0.13	0.24	0.70	0.30	0.11	0.15	0.09	0.08	0.00 CMS
Runoff	0.059	0.000	0.179	0.251	1.586	13.271	5.909	1.053	3.424	0.610	0.281	0.238	26.860 MCM

Momentary Peak 43.66 CMS, at 504.31 M (MSL), at 14.00 Hours, on Sep 21, 1992
Runoff Yield 2.70 Liters/Second/Square KM, Momentary Peak Yield 138.60 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

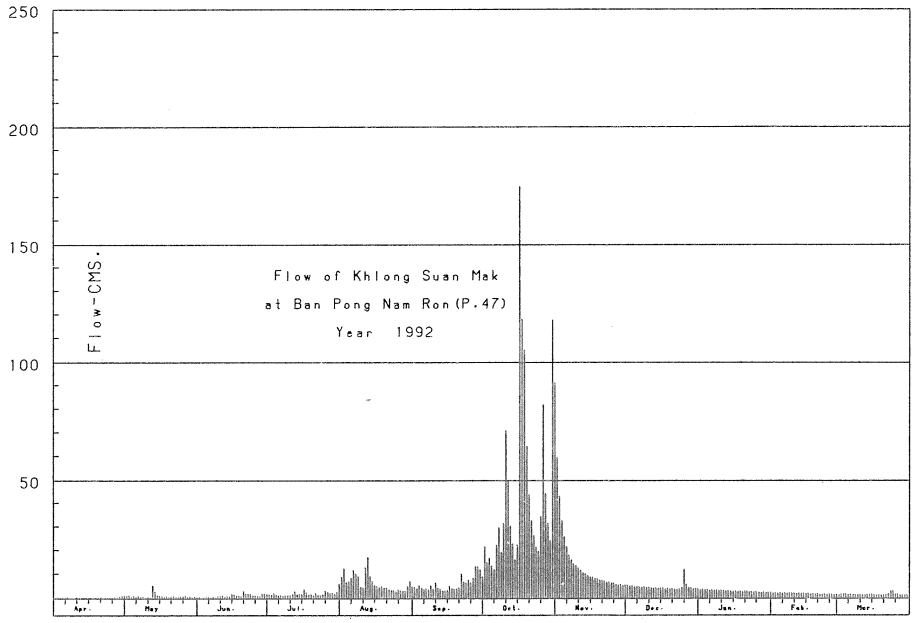
Khlong Suan Mak at Ban Pong Nam Ron, Kamphaeng Phet (P.47)

Location	Lat. 16°-20'-03" N., Long. 99°-16'-29" E., on right bank at Ban Pong Nam Ron, Amphoe Khlong Lan, Kamphaeng Phet.
Drainage Area	521 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 9 meters from the top staff gage.
Elevation	+4.740 m.(A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1983 to date.
Rated by Float	-
Rated by Current Meter	1983 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 79 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.27	-0.15	-0.26	-0.09	0.46	0.19	0.93	1.49	0.24	0.11	-0.01	-0.09	
2	-0.27	-0.13	-0.27	-0.08	0.66	0.15	0.74	1.28	0.23	0.11	-0.02	-0.07	
3	-0.27	-0.19	-0.26	-0.03	0.34	0.23	0.80	1.14	0.22	0.11	-0.02	-0.05	
4	-0.28	-0.17	-0.21	-0.08	0.34	0.18	0.70	1.02	0.21	0.10	-0.02	-0.06	
5	-0.28	-0.21	-0.23	-0.12	0.45	0.13	0.63	0.93	0.21	0.09	-0.02	-0.07	
6	-0.28	-0.19	-0.25	-0.13	0.60	0.13	0.94	0.83	0.20	0.09	-0.02	-0.08	
7	-0.28	-0.22	-0.23	-0.14	0.54	0.12	1.10	0.78	0.20	0.09	-0.02	-0.08	
8	-0.28	-0.24	-0.24	-0.14	0.47	0.23	0.87	0.72	0.19	0.08	-0.02	-0.09	
9	-0.28	-0.26	-0.19	-0.11	0.21	0.13	1.12	0.71	0.19	0.08	-0.02	-0.09	
10	-0.28	-0.27	-0.17	-0.12	0.16	0.33	1.62	0.65	0.18	0.07	-0.03	-0.09	
11	-0.28	-0.26	-0.16	-0.04	0.66	0.16	1.37	0.60	0.18	0.07	-0.03	-0.09	
12	-0.28	0.26	-0.20	0.04	0.81	0.12	1.11	0.56	0.17	0.06	-0.03	-0.09	
13	-0.29	0.03	-0.19	-0.06	0.49	0.08	0.95	0.53	0.16	0.06	-0.03	-0.09	
14	-0.29	-0.11	-0.18	-0.07	0.35	0.05	0.78	0.50	0.16	0.06	-0.04	-0.07	
15	-0.30	-0.14	-0.04	-0.05	0.26	0.09	0.94	0.47	0.15	0.05	-0.04	-0.08	
16	-0.30	-0.15	-0.09	0.13	0.21	0.21	2.42	0.45	0.15	0.05	-0.04	-0.09	
17	-0.28	-0.19	-0.14	0.00	0.20	0.16	2.02	0.43	0.14	0.05	-0.05	-0.10	
18	-0.29	-0.19	-0.16	-0.07	0.21	0.12	1.92	0.41	0.14	0.04	-0.05	-0.11	
19	-0.29	-0.21	-0.18	-0.08	0.18	0.15	1.55	0.39	0.14	0.04	-0.05	-0.11	
20	-0.29	-0.20	0.06	-0.11	0.16	0.17	1.29	0.37	0.13	0.04	-0.05	-0.11	
21	-0.29	-0.16	-0.06	-0.03	0.12	0.53	1.14	0.35	0.13	0.04	-0.06	-0.11	
22	-0.29	-0.21	-0.04	-0.09	0.10	0.35	1.03	0.34	0.12	0.04	-0.07	-0.03	
23	-0.29	-0.22	-0.06	-0.13	0.07	0.30	0.92	0.33	0.12	0.03	-0.07	0.06	
24	-0.29	-0.20	-0.11	-0.07	0.05	0.40	0.88	0.32	0.19	0.03	-0.07	0.05	
25	-0.29	-0.18	-0.14	0.06	0.09	0.31	1.16	0.30	0.64	0.02	-0.07	-0.06	
26	-0.26	-0.16	-0.16	0.03	0.06	0.44	1.72	0.28	0.27	0.02	-0.08	-0.08	
27	-0.27	-0.20	-0.17	-0.01	0.07	0.70	1.30	0.27	0.19	0.01	-0.08	-0.09	
28	-0.22	-0.22	-0.03	-0.01	0.05	0.68	1.12	0.26	0.16	0.01	-0.09	-0.11	
29	-0.14	-0.23	-0.05	-0.04	0.23	0.63	0.98	0.25	0.14	0.01		-0.11	
30	-0.17	-0.24	-0.05	0.01	0.36	0.46	2.02	0.25	0.13	0.00		-0.11	
31		-0.24		0.28	0.20		1.80		0.12	0.00		-0.11	
Mean	-0.27	-0.18	-0.15	-0.04	0.30	0.26	1.22	0.57	0.19	0.05	-0.04	-0.08	
Max	-0.14	0.26	0.06	0.28	0.81	0.70	2.42	1.49	0.64	0.11	-0.01	0.06	2.42
Min	-0.30	-0.27	-0.27	-0.14	0.05	0.05	0.63	0.25	0.12	0.00	-0.09	-0.11	-0.30

Annual Max Momentary Gage Height 2.83 M (A.D), at 12.00 Hours, on Oct 16, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.55 M (A.D)
Left Bank Elevation 6.84 M (A.D)
Right Bank Elevation 6.40 M (A.D), Drainage Area 521 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

ıte	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	1.10	0.56	1.50	9.02	4.68	22.05	59.56	5.40	3.72	2.30	1.50	
2	0.52	1.22	0.52	1.60	12.90	4.20	15.10	43.16	5.25	3.72	2.20	1.70	
3	0.52	0.86	0.56	2.10	6.98	5.25	17.20	33.08	5.10	3.72	2.20	1.90	
4	0.48	0.98	0.76	1.60	6.98	4.56	13.70	26.20	4.95	3.60	2.20	1.80	
5	0.48	0.76	0.68	1.28	8.85	3.96	12.30	22.05	4.95	3.48	2.20	1.70	
6	0.48	0.86	0.60	1.22	11.70	3.96	22.50	18.25	4.80	3.48	2.20	1.60	
7	0.48	0.72	0.68	1.16	10.50	3.84	30.20	16.50	4.80	3.48	2.20	1.60	
8	0.48	0.64	0.64	1.16	9.19	5.25	19.65	14.40	4.68	3.36	2.20	1.50	
9	0.48	0.56	0.86	1.34	4.95	3.96	31.64	14.05	4.68	3.36	2.20	1.50	
10	0.48	0.52	0.98	1.28	4.32	6.81	71.04	12.70	4.56	3.24	2.10	1.50	
11	0.48	0.56	1.04	2.00	12.90	4.32	49.78	11.70	4.56	3.24	2.10	1.50	
12	0.48	5.70	0.80	2.88	17.55	3.84	30.92	10.90	4.44	3.12	2.10	1.50	
13	0.44	2.76	0.86	1.80	9.53	3.36	22.95	10.30	4.32	3.12	2.10	1.50	
14	0.44	1.34	0.92	1.70	7.15	3.00	16.50	9.70	4.32	3.12	2.00	1.70	
15	0.40	1.16	2.00	1.90	5.70	3.48	22.50	9.19	4.20	3.00	2.00	1.60	
16	0.40	1.10	1.50	3.96	4.95	4.95	174.80	8.85	4.20	3.00	2.00	1.50	
17	0.48	0.86	1.16	2.40	4.80	4.32	118.20	8.51	4.08	3.00	1.90	1.40	
18	0.44	0.86	1.04	1.70	4.95	3.84	105.20	8.17	4.08	2.88	1.90	1.34	
19	0.44	0.76	0.92	1.60	4.56	4.20	64.60	7.83	4.08	2.88	1.90	1.34	
20	0.44	0.80	3.12	1.34	4.32	4.44	43.88	7.49	3.96	2.88	1.90	1.34	
21	0.44	1.04	1.80	2.10	3.84	10.30	33.08	7.15	3.96	2.88	1.80	1.34	
22	0.44	0.76	2.00	1.50	3.60	7.15	26.70	6.98	3.84	2.88	1.70	2.10	
23	0.44	0.72	1.80	1.22	3.24	6.30	21.60	6.81	3.84	2.76	1.70	3.12	
24	0.44	0.80	1.34	1.70	3.00	8.00	20.00	6.64	4.68	2.76	1.70	3.00	
25	0.44	0.92	1.16	3.12	3.48	6.47	34.52	6.30	12.50	2.64	1.70	1.80	
26	0.56	1.04	1.04	2.76	3.12	8.68	82.24	6.00	5.85	2.64	1.60	1.60	
27	0.52	0.80	0.98	2.30	3.24	13.70	44.60	5.85	4.68	2.52	1.60	1.50	
28	0.72	0.72	2.10	2.30	3.00	13.30	31.64	5.70	4.32	2.52	1.50	1.34	
29	1.16	0.68	1.90	2.00	5.25	12.30	24.30	5.55	4.08	2.52		1.34	
30	0.98	0.64	1.90	2.52	7.32	9.02	118.20	5.55	3.96	2.40		1.34	
31		0.64		6.00	4.80		91.20		3.84	2.40		1.34	
otal	15.50	32.88	36.22	63.04	205.69	181.44	1432.79	415.12	146.96	94.32	55.20	50.84	2730.00 CMSDAY
ean	0.52	1.06	1.21	2.03	6.64	6.05	46.22	13.84	4.74	3.04	1.97	1.64	7.48 CMS
ax	1.16	5.70	3.12	6.00	17.55	13.70	174.80	59.56	12.50	3.72	2.30	3.12	174.80 CMS
in	0.40	0.52	0.52	1.16	3.00	3.00	12.30	5.55	3.84	2.40	1.50	1.34	0.40 CMS
unoff	1.339	2.841	3.129	5.447	17.772	15.676	123.793	35.866	12.697	8.149	4.769	4.393	235.872 MCM

omentary Peak 268.40 CMS, at 2.83 M (A.D), at 12.00 Hours, on Oct 16, 1992
unoff Yield 14.36 Liters/Second/Square KM, Momentary Peak Yield 515.16 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

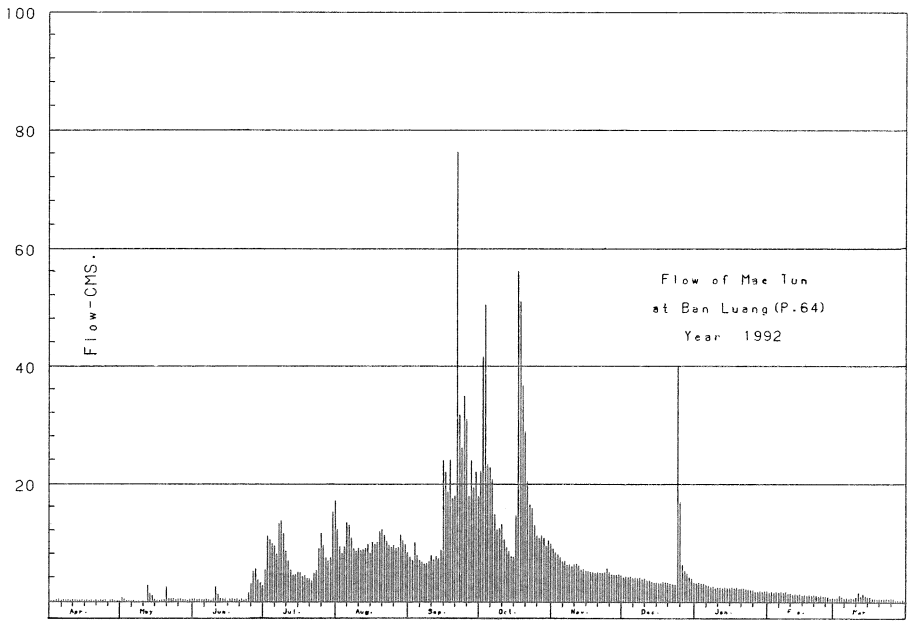
Nam Mae Tun at Ban Luang, Chiang Mai (P.64)

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	B.M.1-about 25.00 meters from the top staff gage. B.M.2-about 35.00 meters from the top staff gage.
Elevation	B.M.1=+7.500 m. (A.D.), B.M.2=+9.632 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 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 +3.02 m.(A.D.)and is included.
General Description	Records fair. Stage-discharge relation defined by 146 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.41	0.37	0.71	0.99	0.81	1.29	0.87	0.64	0.58	0.48	0.40	
2	0.36	0.36	0.36	0.95	0.88	0.79	1.74	0.84	0.64	0.58	0.48	0.40	
3	0.36	0.33	0.36	0.93	0.84	0.91	1.91	0.83	0.64	0.58	0.48	0.44	
4	0.36	0.32	0.37	0.90	0.88	0.82	1.32	0.81	0.64	0.57	0.48	0.41	
5	0.35	0.32	0.37	0.89	1.03	0.79	1.31	0.78	0.63	0.56	0.48	0.40	
6	0.35	0.32	0.36	0.83	1.02	0.77	1.25	0.78	0.63	0.55	0.48	0.40	
7	0.35	0.31	0.35	1.03	0.94	0.76	1.08	0.75	0.63	0.54	0.48	0.39	
8	0.35	0.31	0.34	1.04	0.87	0.76	0.99	0.75	0.63	0.54	0.48	0.39	
9	0.35	0.31	0.40	0.97	0.85	0.78	1.00	0.74	0.62	0.53	0.46	0.39	
10	0.35	0.31	0.54	0.85	0.87	0.82	1.02	0.75	0.62	0.53	0.46	0.41	
11	0.35	0.31	0.46	0.78	0.86	0.79	0.93	0.76	0.61	0.53	0.45	0.48	
12	0.35	0.56	0.39	0.71	0.86	0.82	0.88	0.74	0.61	0.53	0.45	0.43	
13	0.35	0.46	0.39	0.66	0.87	0.80	0.85	0.71	0.59	0.53	0.45	0.45	
14	0.34	0.44	0.40	0.66	0.90	0.86	0.82	0.71	0.59	0.53	0.45	0.43	
15	0.34	0.36	0.43	0.69	0.84	1.34	0.81	0.70	0.58	0.53	0.44	0.41	
16	0.34	0.34	0.38	0.68	0.91	1.29	1.07	0.69	0.58	0.53	0.44	0.41	
17	0.34	0.34	0.38	0.65	0.90	1.19	2.01	0.69	0.58	0.53	0.44	0.39	
18	0.34	0.34	0.38	0.65	0.91	1.34	1.92	0.68	0.59	0.53	0.44	0.37	
19	0.33	0.36	0.38	0.63	0.98	1.16	1.64	0.68	0.59	0.52	0.44	0.37	
20	0.34	0.54	0.36	0.62	0.99	1.17	1.46	0.68	0.58	0.52	0.44	0.37	
21	0.34	0.40	0.37	0.60	0.96	2.32	1.24	0.68	0.57	0.52	0.44	0.38	
22	0.34	0.39	0.36	0.68	0.92	1.53	1.13	0.68	0.57	0.52	0.43	0.38	
23	0.35	0.38	0.36	0.70	0.89	1.39	1.11	0.68	0.56	0.51	0.43	0.38	
24	0.34	0.37	0.48	0.87	0.88	1.60	1.02	0.72	1.71	0.51	0.43	0.38	
25	0.31	0.37	0.58	0.97	0.89	1.51	0.95	0.68	1.14	0.50	0.42	0.38	
26	0.33	0.37	0.69	0.89	0.87	1.17	0.94	0.66	0.75	0.49	0.41	0.37	
27	0.36	0.37	0.72	0.81	0.88	1.34	0.95	0.66	0.70	0.49	0.40	0.33	
28	0.33	0.35	0.61	0.78	0.96	1.21	0.94	0.66	0.67	0.49	0.40	0.33	
29	0.32	0.34	0.59	0.81	0.92	1.29	0.89	0.66	0.64	0.49		0.33	
30	0.31	0.36	0.55	1.09	0.90	1.17	0.92	0.65	0.62	0.49		0.34	
31		0.38		1.15	0.84		0.90		0.58	0.49		0.35	
Mean	0.34	0.37	0.44	0.81	0.91	1.11	1.17	0.72	0.67	0.53	0.45	0.39	
Max	0.36	0.56	0.72	1.15	1.03	2.32	2.01	0.87	1.71	0.58	0.48	0.48	2.32
Min	0.31	0.31	0.34	0.60	0.84	0.76	0.81	0.65	0.56	0.49	0.40	0.33	0.31

Annual Max Momentary Gage Height 4.30 M (A.D), at 21.00 Hours, on Oct 2, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.18 M (A.D)
Left Bank Elevation 3.63 M (A.D)
Right Bank Elevation 3.01 M (A.D), Drainage Area 336 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.73	0.45	5.50	12.23	7.55	22.15	9.05	4.22	3.18	1.64	0.60	
2	0.40	0.40	0.40	11.15	9.30	7.10	41.60	8.30	4.22	3.18	1.64	0.60	
3	0.40	0.25	0.40	10.61	8.30	10.07	50.55	8.05	4.22	3.18	1.64	1.12	
4	0.40	0.20	0.45	9.80	9.30	7.80	23.30	7.55	4.22	3.02	1.64	0.73	
5	0.35	0.20	0.45	9.55	13.40	7.10	22.90	6.90	4.04	2.86	1.64	0.60	
6	0.35	0.20	0.40	8.05	13.10	6.70	20.75	6.90	4.04	2.70	1.64	0.60	
7	0.35	0.15	0.35	13.40	10.88	6.50	14.90	6.30	4.04	2.54	1.64	0.55	
8	0.35	0.15	0.30	13.70	9.05	6.50	12.23	6.30	4.04	2.54	1.64	0.55	
9	0.35	0.15	0.60	11.69	8.55	6.90	12.50	6.10	3.86	2.38	1.38	0.55	
10	0.35	0.15	2.54	8.55	9.05	7.80	13.10	6.30	3.86	2.38	1.38	0.73	
11	0.35	0.15	1.38	6.90	8.80	7.10	10.61	6.50	3.68	2.38	1.25	1.64	
12	0.35	2.86	0.55	5.50	8.80	7.80	9.30	6.10	3.68	2.38	1.25	0.99	
13	0.35	1.38	0.55	4.58	9.05	7.30	8.55	5.50	3.34	2.38	1.25	1.25	
14	0.30	1.12	0.60	4.58	9.80	8.80	7.80	5.50	3.34	2.38	1.25	0.99	
15	0.30	0.40	0.99	5.12	8.30	24.10	7.55	5.30	3.18	2.38	1.12	0.73	
16	0.30	0.30	0.50	4.94	10.07	22.15	14.60	5.12	3.18	2.38	1.12	0.73	
17	0.30	0.30	0.50	4.40	9.80	18.65	56.15	5.12	3.18	2.38	1.12	0.55	
18	0.30	0.30	0.50	4.40	10.07	24.10	51.10	4.94	3.34	2.38	1.12	0.45	
19	0.25	0.40	0.50	4.04	11.96	17.60	36.80	4.94	3.34	2.22	1.12	0.45	
20	0.30	2.54	0.40	3.86	12.23	17.95	28.90	4.94	3.18	2.22	1.12	0.45	
21	0.30	0.60	0.45	3.50	11.42	76.40	20.40	4.94	3.02	2.22	1.12	0.50	
22	0.30	0.55	0.40	4.94	10.34	31.85	16.55	4.94	3.02	2.22	0.99	0.50	
23	0.35	0.50	0.40	5.30	9.55	26.10	15.85	4.94	2.86	2.06	0.99	0.50	
24	0.30	0.45	1.64	9.05	9.30	35.00	13.10	5.70	40.03	2.06	0.99	0.50	
25	0.15	0.45	3.18	11.69	9.55	30.95	11.15	4.94	16.90	1.90	0.86	0.50	
26	0.25	0.45	5.12	9.55	9.05	17.95	10.88	4.58	6.30	1.77	0.73	0.45	
27	0.40	0.45	5.70	7.55	9.30	24.10	11.15	4.58	5.30	1.77	0.60	0.25	
28	0.25	0.35	3.68	6.90	11.42	19.35	10.88	4.58	4.76	1.77	0.60	0.25	
29	0.20	0.30	3.34	7.55	10.34	22.15	9.55	4.58	4.22	1.77		0.25	
30	0.15	0.40	2.70	15.20	9.80	17.95	10.34	4.40	3.86	1.77		0.30	
31		0.50		17.25	8.30		9.80		3.18	1.77		0.35	
Total	9.45	17.33	39.42	248.80	310.41	531.37	604.99	173.89	167.65	72.52	34.48	19.21	2229.52 CMSDAY
Mean	0.31	0.56	1.31	8.03	10.01	17.71	19.52	5.80	5.41	2.34	1.23	0.62	6.11 CMS
Max	0.40	2.86	5.70	17.25	13.40	76.40	56.15	9.05	40.03	3.18	1.64	1.64	76.40 CMS
Min	0.15	0.15	0.30	3.50	8.30	6.50	7.55	4.40	2.86	1.77	0.60	0.25	0.15 CMS
Runoff	0.816	1.497	3.406	21.496	26.819	45.910	52.271	15.024	14.485	6.266	2.979	1.660	192.631 MCM

Momentary Peak 273.00 CMS, at 4.30 M (A.D), at 21.00 Hours, on Oct 2, 1992
Runoff Yield 18.18 Liters/Second/Square KM, Momentary Peak Yield 812.50 Liters/Second/Square KM

WATER YEAR 1992

PING RIVER BASIN

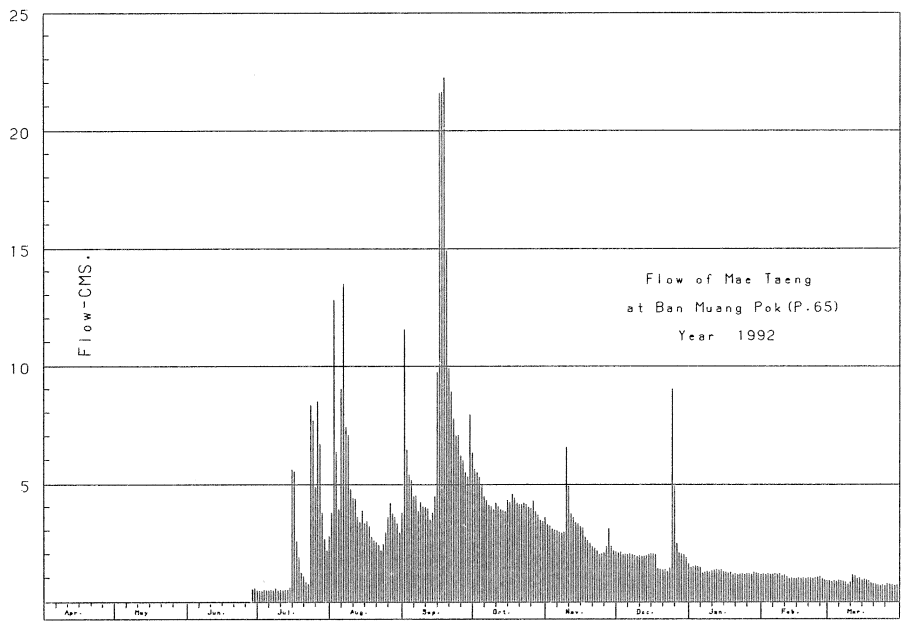
Mae Taeng River at Ban Muang Pok, Chiang Mai, (P.65)

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 Office, 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. Stream gaging began on Jun.28,1992. Stage-discharge relation defined by 147 discharge measurements made/in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	*******	*******	0.46	0.93	1.56	1.12	0.88	0.74	0.65	0.60	0.55	
2	*******	*******	*******	0.46	1.64	1.19	1.11	0.87	0.74	0.65	0.60	0.55	
3	*******	*******	*******	0.47	1.18	1.10	1.09	0.86	0.73	0.66	0.60	0.55	
4	*******	*******	*******	0.47	0.95	1.08	1.06	0.85	0.73	0.65	0.60	0.55	
5	*******	*******	*******	0.47	1.39	1.01	1.01	0.85	0.73	0.65	0.60	0.56	
6	*******	*******	*******	0.47	1.68	1.01	0.99	0.84	0.73	0.61	0.60	0.55	
7	*******	*******	*******	0.47	1.27	0.94	0.97	0.84	0.73	0.61	0.60	0.55	
8	*******	*******	*******	0.49	1.24	0.98	0.96	0.84	0.72	0.62	0.60	0.54	
9	*******	*******	*******	0.47	1.04	0.96	0.95	1.20	0.72	0.61	0.59	0.53	
10	*******	*******	*******	0.47	1.00	0.96	0.98	1.05	0.72	0.62	0.59	0.54	
11	*******	*******	*******	0.47	1.00	0.95	0.96	0.93	0.72	0.63	0.58	0.59	
12	*******	*******	*******	0.47	0.91	0.90	0.95	0.91	0.72	0.63	0.57	0.59	
13	*******	*******	*******	0.48	0.89	0.93	0.94	0.89	0.72	0.63	0.57	0.57	
14	*******	*******	*******	0.50	0.94	1.01	0.94	0.88	0.73	0.63	0.57	0.57	
15	*******	*******	*******	1.12	0.88	1.44	0.99	0.87	0.73	0.62	0.57	0.56	
16	*******	*******	*******	1.11	0.89	2.11	0.98	0.86	0.73	0.61	0.57	0.56	
17	*******	*******	*******	0.80	0.87	2.11	1.02	0.82	0.73	0.61	0.57	0.56	
18	*******	*******	*******	0.71	0.82	2.14	1.00	0.80	0.64	0.61	0.57	0.55	
19	*******	*******	*******	0.61	0.80	1.77	0.98	0.79	0.63	0.60	0.57	0.54	
20	*******	*******	*******	0.58	0.79	1.45	0.97	0.77	0.63	0.60	0.57	0.53	
21	*******	*******	*******	0.54	0.78	1.38	0.97	0.76	0.63	0.60	0.57	0.53	
22	*******	*******	*******	0.53	0.75	1.30	0.98	0.75	0.62	0.60	0.57	0.52	
23	*******	*******	*******	1.34	0.78	1.24	0.97	0.73	0.64	0.60	0.57	0.52	
24	*******	*******	*******	1.29	0.84	1.24	0.96	0.73	1.39	0.60	0.58	0.52	
25	*******	*******	*******	1.05	0.91	1.17	0.95	0.74	1.05	0.60	0.58	0.52	
26	*******	*******	*******	1.35	0.98	1.15	0.99	0.77	0.79	0.60	0.57	0.53	
27	*******	*******	*******	1.21	0.93	1.11	0.94	0.86	0.74	0.60	0.56	0.53	
28	*******	*******	0.49	0.93	0.91	1.09	0.92	0.77	0.73	0.61	0.55	0.52	
29	*******	*******	0.49	0.81	0.88	1.31	0.90	0.75	0.73	0.61		0.52	
30	*******	*******	0.47	0.75	0.84	1.18	0.89	0.74	0.71	0.60		0.52	
31		*******		0.82	0.93		0.91		0.67	0.60		0.51	
Mean	*******	*******	*******	0.72	0.99	1.26	0.98	0.84	0.74	0.62	0.58	0.54	
Max	*******	*******	0.49	1.35	1.68	2.14	1.12	1.20	1.39	0.66	0.60	0.59	2.14
Min	*******	*******	*******	0.46	0.75	0.90	0.89	0.73	0.62	0.60	0.55	0.51	*******

Annual Max Momentary Gage Height 2.51 M (A.D), at 6.00 Hours, on Sep 16, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.34 M (A.D)
Left Bank Elevation 3.96 M (A.D)
Right Bank Elevation 3.38 M (A.D), Drainage Area 537 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*******	*******	*******	0.48	3.77	11.56	5.64	3.32	2.12	1.50	1.20	0.90	
2	*******	*******	*******	0.48	12.84	6.48	5.52	3.23	2.12	1.50	1.20	0.90	
3	*******	*******	*******	0.51	6.36	5.40	5.30	3.14	2.04	1.56	1.20	0.90	
4	*******	*******	*******	0.51	3.95	5.20	5.00	3.05	2.04	1.50	1.20	0.90	
5	*******	*******	*******	0.51	9.06	4.50	4.50	3.05	2.04	1.50	1.20	0.96	
6	*******	*******	*******	0.51	13.48	4.50	4.31	2.96	2.04	1.26	1.20	0.90	
7	*******	*******	*******	0.51	7.44	3.86	4.13	2.96	2.04	1.26	1.20	0.90	
8	*******	*******	*******	0.57	7.08	4.22	4.04	2.96	1.96	1.32	1.20	0.84	
9	*******	*******	*******	0.51	4.80	4.04	3.95	6.60	1.96	1.26	1.14	0.78	
10	*******	*******	*******	0.51	4.40	4.04	4.22	4.90	1.96	1.32	1.14	0.84	
11	*******	*******	*******	0.51	4.40	3.95	4.04	3.77	1.96	1.38	1.08	1.14	
12	*******	*******	*******	0.51	3.59	3.50	3.95	3.59	1.96	1.38	1.02	1.14	
13	*******	*******	*******	0.54	3.41	3.77	3.86	3.41	1.96	1.38	1.02	1.02	
14	*******	*******	*******	0.60	3.86	4.50	3.86	3.32	2.04	1.38	1.02	1.02	
15	*******	*******	*******	5.64	3.32	9.76	4.31	3.23	2.04	1.32	1.02	0.96	
16	*******	*******	*******	5.52	3.41	21.62	4.22	3.14	2.04	1.26	1.02	0.96	
17	*******	*******	*******	2.60	3.23	21.62	4.60	2.78	2.04	1.26	1.02	0.96	
18	*******	*******	*******	1.88	2.78	22.28	4.40	2.60	1.44	1.26	1.02	0.90	
19	*******	*******	*******	1.26	2.60	14.92	4.22	2.52	1.38	1.20	1.02	0.84	
20	*******	*******	*******	1.08	2.52	9.90	4.13	2.36	1.38	1.20	1.02	0.78	
21	*******	*******	*******	0.84	2.44	8.92	4.13	2.28	1.38	1.20	1.02	0.78	
22	*******	*******	*******	0.78	2.20	7.80	4.22	2.20	1.32	1.20	1.02	0.72	
23	*******	*******	*******	8.36	2.44	7.08	4.13	2.04	1.44	1.20	1.02	0.72	
24	*******	*******	*******	7.68	2.96	7.08	4.04	2.04	9.06	1.20	1.08	0.72	
25	*******	*******	*******	4.90	3.59	6.24	3.95	2.12	4.90	1.20	1.08	0.72	
26	*******	*******	*******	8.50	4.22	6.00	4.31	2.36	2.52	1.20	1.02	0.78	
27	*******	*******	*******	6.72	3.77	5.52	3.86	3.14	2.12	1.20	0.96	0.78	
28	*******	*******	0.57	3.77	3.59	5.30	3.68	2.36	2.04	1.26	0.90	0.72	
29	*******	*******	0.57	2.69	3.32	7.94	3.50	2.20	2.04	1.26		0.72	
30	*******	*******	0.51	2.20	2.96	6.36	3.41	2.12	1.88	1.20		0.72	
31		*******		2.78	3.77		3.59		1.62	1.20		0.66	
Total	*******	*******	*******	74.46	141.56	237.86	131.02	89.75	68.88	40.32	30.24	26.58	******** CMSDAY
Mean	*******	*******	*******	2.40	4.57	7.93	4.23	2.99	2.22	1.30	1.08	0.86	******** CMS
Max	*******	*******	0.57	8.50	13.48	22.28	5.64	6.60	9.06	1.56	1.20	1.14	22.28 CMS
Min	*******	*******	*******	0.48	2.20	3.50	3.41	2.04	1.32	1.20	0.90	0.66	******** CMS
Runoff	*******	*******	*******	6.433	12.231	20.551	11.320	7.754	5.951	3.484	2.613	2.297	******** MCM

Momentary Peak 31.05 CMS, at 2.51 M (A.D), at 6.00 Hours, on Sep 16, 1992
Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield 57.82 Liters/Second/Square KM

WATER YEAR 1992

WANG RIVER BASIN

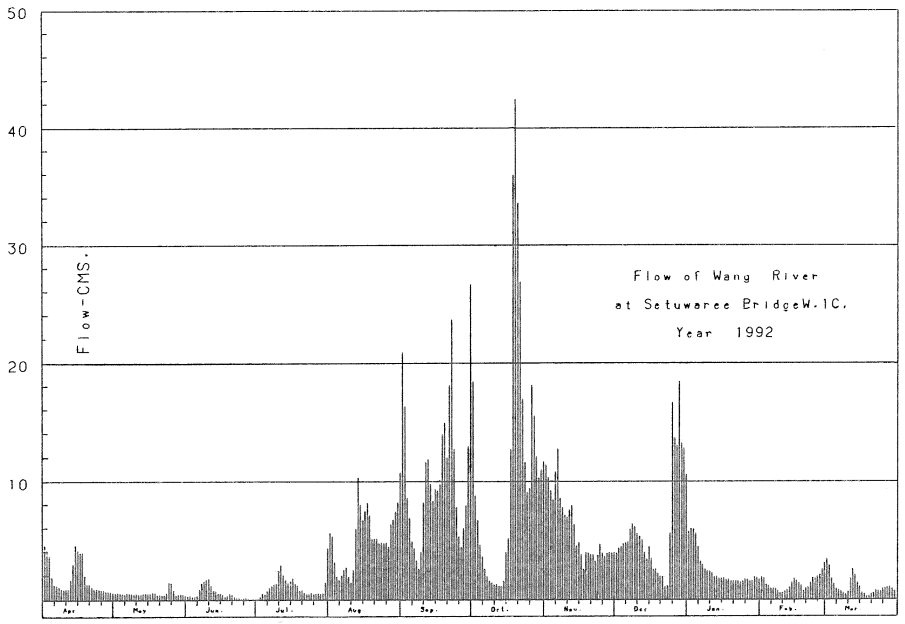
Wang River at Setu Wari Bridge, Lampang (W.1C)

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 fair. Stage-discharge relation defined by 75 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	229.79	229.47	229.44	229.40	229.85	230.47	230.40	229.98	229.61	229.71	229.49	229.58	
2	229.76	229.47	229.44	229.43	229.83	230.34	230.02	229.93	229.63	229.72	229.48	229.55	
3	229.73	229.47	229.43	229.46	229.70	230.01	229.91	229.88	229.64	229.72	229.44	229.48	
4	229.61	229.46	229.43	229.46	229.61	229.92	229.79	229.84	229.65	229.70	229.43	229.44	
5	229.55	229.46	229.44	229.50	229.59	229.81	229.73	229.95	229.66	229.64	229.41	229.41	
6	229.54	229.47	229.51	229.52	229.62	229.77	229.66	230.04	229.66	229.57	229.41	229.40	
7	229.53	229.47	229.56	229.54	229.65	229.71	229.61	229.85	229.72	229.55	229.41	229.39	
8	229.51	229.46	229.58	229.55	229.67	229.66	229.58	229.81	229.74	229.53	229.39	229.37	
9	229.51	229.46	229.59	229.56	229.61	229.75	229.56	229.78	229.73	229.52	229.37	229.36	
10	229.51	229.46	229.60	229.65	229.57	229.99	229.55	229.77	229.70	229.52	229.37	229.38	
11	229.51	229.46	229.54	229.68	229.65	230.16	229.55	229.80	229.69	229.51	229.39	229 48	
12	229.59	229.46	229.50	229.62	229.87	230.17	229.54	229.82	229.67	229.49	229.40	229.53	
13	229.69	229.46	229.49	229.59	230.10	230.07	229.53	229.74	229.61	229.49	229.42	229.50	
14	229.79	229.47	229.47	229.56	229.98	230.00	229.58	229.64	229.58	229.48	229.45	229.45	
15	229.76	229.46	229.47	229.58	229.91	230.05	229.75	229.66	229.64	229.48	229.48	229.42	
16	229.75	229.46	229.45	229.60	229.95	230.04	229.82	229.60	229.58	229.48	229.46	229.37	
17	229.75	229.48	229.43	229.56	229.99	230.07	230.21	229.53	229.53	229.47	229.45	229.36	
18	229.62	229.47	229.44	229.54	229.93	230.26	230.85	229.61	229.53	229.47	229.43	229.33	
19	229.55	229.45	229.47	229.50	229.82	230.30	230.98	229.61	229.51	229.46	229.40	229.34	
20	229.55	229.45	229.45	229.50	229.82	230.18	230.73	229.60	229.49	229.46	229.41	229.36	
21	229.53	229.45	229.43	229.47	229.82	230.39	230.53	229.60	229.49	229.46	229.42	229.37	
22	229.51	229.45	229.42	229.46	229.80	230.55	230.20	229.57	229.42	229.46	229.45	229.40	
23	229.51	229.47	229.41	229.46	229.80	230.21	229.99	229.60	229.43	229.45	229.48	229.39	
24	229.51	229.57	229.41	229.47	229.80	229.97	229.87	229.65	229.70	229.46	229.48	229.39	
25	229.50	229.56	229.41	229.46	229.80	229.83	229.89	229.61	230.19	229.47	229.49	229.41	
26	229.50	229.50	229.42	229.46	229.78	229.78	230.24	229.59	230.08	229.47	229.50	229.42	
27	229.49	229.45	229.41	229.47	229.89	229.87	230.15	229.61	230.05	229.46	229.53	229.42	
28	229.49	229.45	229.39	229.46	229.91	229.98	230.01	229.61	230.25	229.46	229.56	229.42	
29	229.48	229.46	229.40	229.47	229.95	230.22	229.93	229.61	230.06	229.49		229.41	
30	229.47	229.45	229.41	229.57	229.99	230.63	229.96	229.61	230.04	229.48		229.39	
31		229.44		229.77	230.12		229.99		229.94	229.47		229.37	
Mean	229.59	229.47	229.46	229.53	229.82	230.07	229.97	229.72	229.72	229.52	229.44	229.42	
Max	229.79	229.57	229.60	229.77	230.12	230.63	230.98	230.04	230.25	229.72	229.56	229.58	230.98
Min	229.47	229.44	229.39	229.40	229.57	229.66	229.53	229.53	229.42	229.45	229.37	229.33	229.33

Annual Max Momentary Gage Height 231.22 M (MSL), at 23.00 Hours, on Oct 18, 1992
Zero Gage at Bottom Elevation 229.30 M (MSL), River Bed 229.01 M (MSL)
Left Bank Elevation 234.42 M (MSL)
Right Bank Elevation 234.53 M (MSL), Drainage Area 3478 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.64	0.57	0.34	0.04	5.70	20.95	18.50	11.46	3.98	5.80	1.95	3.46	
2	4.16	0.57	0.34	0.27	5.34	16.40	8.80	10.36	4.34	6.00	1.82	2.94	
3	3.68	0.57	0.27	0.50	3.20	8.60	6.78	9.28	4.52	6.00	1.31	1.82	
4	1.94	0.50	0.27	0.50	1.94	6.96	4.64	8.44	4.70	5.60	1.18	1.31	
5	1.30	0.50	0.34	0.80	1.70	4.98	3.68	10.80	4.88	4.52	0.93	0.93	
6	1.20	0.57	0.90	1.00	2.08	4.32	2.64	12.82	4.88	3.28	0.93	0.80	
7	1.10	0.57	1.40	1.20	2.50	3.36	1.94	8.65	6.00	2.94	0.93	0.72	
8	0.90	0.50	1.60	1.30	2.78	2.64	1.60	7.81	6.40	2.60	0.72	0.56	
9	0.90	0.50	1.70	1.40	1.94	4.00	1.40	7.20	6.20	2.42	0.56	0.48	
10	0.90	0.50	1.80	2.50	1.50	8.22	1.30	7.00	5.60	2.42	0.56	0.64	
11	0.90	0.50	1.20	2.92	2.50	11.66	1.30	7.60	5.42	2.25	0.72	1.82	
12	1.70	0.50	0.80	2.08	6.06	11.87	1.20	8.02	5.06	1.95	0.80	2.60	
13	3.06	0.50	0.72	1.70	10.40	9.80	1.10	6.40	3.98	1.95	1.06	2.08	
14	4.64	0.57	0.57	1.40	8.04	8.40	1.60	4.52	3.46	1.82	1.44	1.44	
15	4.16	0.50	0.57	1.60	6.78	9.40	4.00	4.88	4.52	1.82	1.82	1.06	
16	4.00	0.50	0.42	1.80	7.50	9.20	5.16	3.80	3.46	1.82	1.57	0.56	
17	4.00	0.65	0.27	1.40	8.22	9.80	12.75	2.60	2.60	1.70	1.44	0.48	
18	2.08	0.57	0.34	1.20	7.14	14.00	36.00	3.98	2.60	1.70	1.18	0.24	
19	1.30	0.42	0.57	0.80	5.16	15.00	42.50	3.98	2.25	1.57	0.80	0.32	
20	1.30	0.42	0.42	0.80	5.16	12.08	33.68	3.80	1.95	1.57	0.93	0.48	
21	1.10	0.42	0.27	0.57	5.16	18.15	26.96	3.80	1.95	1.57	1.06	0.56	
22	0.90	0.42	0.19	0.50	4.80	23.75	17.00	3.28	1.06	1.57	1.44	0.80	
23	0.90	0.57	0.12	0.50	4.80	12.75	11.68	3.80	1.18	1.44	1.82	0.72	
24	0.90	1.50	0.12	0.57	4.80	7.86	9.07	4.70	5.60	1.57	1.82	0.72	
25	0.80	1.40	0.12	0.50	4.80	5.34	9.49	3.98	16.72	1.70	1.95	0.93	
26	0.80	0.80	0.19	0.50	4.48	4.48	18.16	3.63	13.74	1.70	2.08	1.06	
27	0.72	0.42	0.12	0.57	6.42	6.06	15.60	3.98	13.05	1.57	2.60	1.06	
28	0.72	0.42	0.04	0.50	6.78	8.04	12.13	3.98	18.45	1.57	3.11	1.06	
29	0.65	0.50	0.04	0.57	7.50	13.00	10.36	3.98	13.28	1.95		0.93	
30	0.57	0.42	0.12	1.50	8.22	26.70	11.02	3.98	12.82	1.82		0.72	
31		0.34		4.32	10.82		11.68		10.58	1.70		0.56	
Total	55.92.	17.69	16.17	35.81	164.22	317.77	343.72	182.51	195.23	77.89	38.53	33.86	1479.32 CMSDAY
Mean	1.86	0.57	0.54	1.16	5.30	10.59	11.09	6.08	6.30	2.51	1.38	1.09	4.05 CMS
Max	4.64	1.50	1.80	4.32	10.82	26.70	42.50	12.82	18.45	6.00	3.11	3.46	42.50 CMS
Min	0.57	0.34	0.04	0.04	1.50	2.64	1.10	2.60	1.06	1.44	0.56	0.24	0.04 CMS
Runoff	4.831	1.528	1.397	3.094	14.189	27.455	29.697	15.769	16.868	6.730	3.329	2.926	127.813 MCM

Momentary Peak 55.20 CMS, at 231.22 M (MSL), at 23.00 Hours, on Oct 18, 1992
Runoff Yield 1.17 Liters/Second/Square KM, Momentary Peak Yield 15.87 Liters/Second/Square KM

WATER YEAR 1992

WANG RIVER BASIN

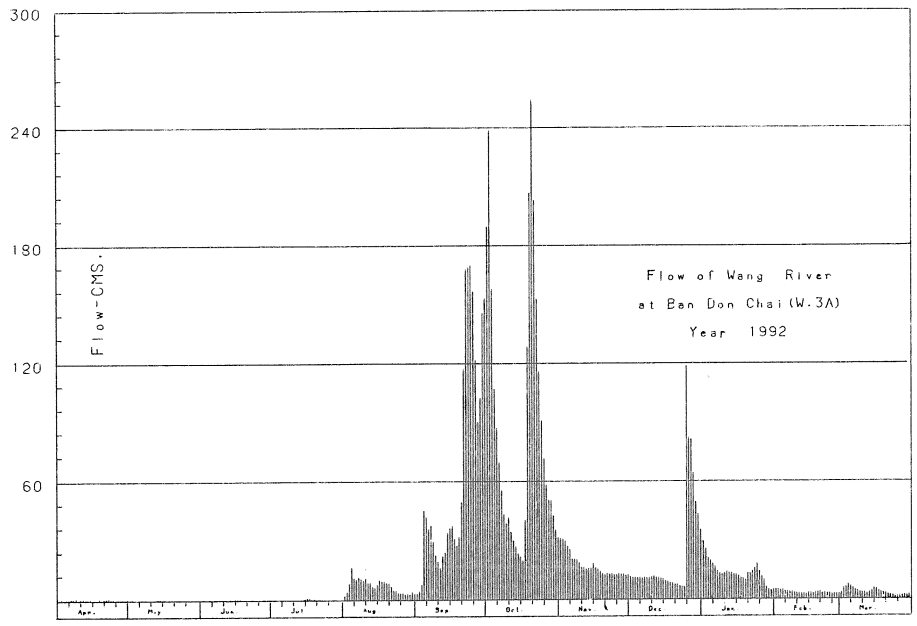
Wang River at Ban Don Chai, Lampang (W.3A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.78	160.76	160.59	160.53	160.96	161.06	164.36	162.08	161.48	162.05	161.18	161.08	
2	160.82	160.87	160.61	160.52	161.12	161.12	164.79	162.08	161.48	161.95	161.17	161.20	
3	160.76	160.74	160.60	160.52	161.33	161.32	164.04	162.05	161.46	161.82	161.16	161.25	
4	160.78	160.71	160.61	160.51	161.66	162.41	163.45	161.99	161.47	161.76	161.15	161.30	
5	160.80	160.70	160.63	160.50	161.48	162.35	163.16	161.94	161.46	161.72	161.13	161.27	
6	160.79	160.70	160.60	160.51	161.43	162.20	162.88	161.80	161.46	161.66	161.11	161.21	
7	160.83	160.68	160.57	160.49	161.49	162.25	162.62	161.79	161.46	161.59	161.10	161.16	
8	160.84	160.68	160.54	160.48	161.44	162.04	162.37	161.79	161.46	161.54	161.09	161.12	
9	160.79	160.68	160.64	160.48	161.42	161.87	162.28	161.73	161.46	161.54	161.08	161.09	
10	160.77	160.65	160.61	160.50	161.45	161.75	162.34	161.66	161.49	161.56	161.06	161.08	
11	160.83	160.63	160.63	160.50	161.36	161.65	162.17	161.64	161.49	161.57	161.04	161.06	
12	160.78	160.67	160.61	160.49	161.35	161.84	162.06	161.63	161.48	161.56	161.03	161.04	
13	160.78	160.79	160.74	160.48	161.27	161.91	161.98	161.63	161.46	161.55	161.02	161.07	
14	160.78	160.75	160.78	160.47	161.23	162.15	161.89	161.64	161.45	161.54	161.02	161.13	
15	160.74	160.75	160.80	160.82	161.32	162.22	161.83	161.71	161.43	161.52	161.05	161.19	
16	160.70	160.76	160.78	160.86	161.42	162.24	161.76	161.65	161.40	161.50	161.05	161.18	
17	160.68	160.73	160.76	160.83	161.40	162.08	162.31	161.62	161.37	161.47	161.05	161.13	
18	160.81	160.72	160.78	160.79	161.38	162.00	163.72	161.59	161.35	161.44	161.06	161.08	
19	160.80	160.73	160.71	160.78	161.36	162.10	164.52	161.54	161.33	161.42	161.10	161.06	
20	160.78	160.73	160.69	160.76	161.34	162.50	164.91	161.53	161.31	161.54	161.10	161.03	
21	160.83	160.72	160.67	160.74	161.28	163.58	164.48	161.54	161.30	161.56	161.07	161.01	
22	160.83	160.71	160.65	160.72	161.17	164.14	163.99	161.54	161.28	161.58	161.05	160.96	
23	160.80	160.70	160.62	160.68	161.15	164.15	163.56	161.54	161.24	161.63	161.05	160.95	
24	160.78	160.69	160.60	160.65	161.09	164.16	163.22	161.53	161.25	161.72	161.04	160.93	
25	160.77	160.68	160.55	160.65	161.06	164.03	162.92	161.53	163.60	161.59	161.02	160.93	
26	160.76	160.67	160.55	160.64	161.07	163.64	162.67	161.54	163.09	161.50	161.01	160.94	
27	160.75	160.66	160.54	160.64	161.03	163.21	162.52	161.54	163.08	161.41	161.03	160.95	
28	160.77	160.64	160.54	160.60	161.03	163.38	162.51	161.53	162.79	161.25	161.01	160.96	
29	160.74	160.61	160.55	160.56	161.04	163.91	162.36	161.52	162.50	161.16		160.96	
30	160.77	160.60	160.53	160.60	161.10	163.99	162.19	161.52	162.37	161.15		160.97	
31		160.58		160.69	161.03		162.10		162.19	161.16		160.97	
Mean	160.78	160.70	160.64	160.61	161.27	162.57	162.97	161.68	161.72	161.55	161.07	161.07	
Max	160.84	160.87	160.80	160.86	161.66	164.16	164.91	162.08	163.60	162.05	161.18	161.30	164.91
Min	160.68	160.58	160.53	160.47	160.96	161.06	161.76	161.52	161.24	161.15	161.01	160.93	160.47

Annual Max Momentary Gage Height 164.98 M (MSL), at 6.00 Hours, on Oct 20, 1992
Zero Gage at Bottom Elevation 161.00 M (MSL), River Bed 159.86 M (MSL)
Left Bank Elevation 168.06 M (MSL)
Right Bank Elevation 167.14 M (MSL), Drainage Area 8985 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.66	0.55	0.00	0.00	2.16	3.44	190.00	31.20	11.56	30.00	5.32	3.72	
2	0.92	1.28	0.02	0.00	4.33	4.33	238.80	31.20	11.56	26.00	5.15	5.65	
3	0.55	0.43	0.00	0.00	8.26	8.04	158.00	30.00	11.12	21.60	4.99	6.63	
4	0.66	0.26	0.02	0.00	16.80	45.50	107.50	27.60	11.34	19.80	4.82	7.60	
5	0.78	0.20	0.06	0.00	11.56	42.50	87.20	25.60	11.12	18.60	4.50	7.02	
6	0.72	0.20	0.00	0.00	10.46	36.00	69.80	21.00	11.12	16.80	4.16	5.85	
7	1.00	0.16	0.00	0.00	11.78	38.00	56.00	20.70	11.12	14.70	4.00	4.99	
8	1.07	0.16	0.00	0.00	10.68	29.60	43.50	20.70	11.12	13.20	3.86	4.33	
9	0.72	0.16	0.08	0.00	10.24	23.10	39.20	18.90	11.12	13.20	3.72	3.86	
10	0.61	0.10	0.02	0.00	10.90	19.50	42.00	16.80	11.78	13.80	3.44	3.72	
11	1.00	0.06	0.06	0.00	8.92	16.50	34.80	16.20	11.78	14.10	3.16	3.44	
12	0.66	0.14	0.02	0.00	8.70	22.20	30.40	15.90	11.56	13.80	3.02	3.16	
13	0.66	0.72	0.43	0.00	7.02	24.40	27.20	15.90	11.12	13.50	2.88	3.58	
14	0.66	0.49	0.66	0.00	6.23	34.00	23.70	16.20	10.90	13.20	2.88	4.50	
15	0.43	0.49	0.78	0.92	8.04	36.80	21.90	18.30	10.46	12.60	3.30	5.49	
16	0.20	0.55	0.66	1.21	10.24	37.60	19.80	16.50	9.80	12.00	3.30	5.32	
17	0.16	0.37	0.55	1.00	9.80	31.20	40.50	15.60	9.14	11.34	3.30	4.50	
18	0.85	0.32	0.66	0.72	9.36	28.00	128.80	14.70	8.70	10.68	3.44	3.72	
19	0.78	0.37	0.26	0.66	8.92	32.00	207.20	13.20	8.26	10.24	4.00	3.44	
20	0.66	0.37	0.18	0.55	8.48	50.00	254.30	12.90	7.82	13.20	4.00	3.02	
21	1.00	0.32	0.14	0.43	7.21	117.40	202.80	13.20	7.60	13.80	3.58	2.74	
22	1.00	0.26	0.10	0.32	5.15	168.00	153.10	13.20	7.21	14.40	3.30	2.16	
23	0.78	0.20	0.04	0.16	4.82	169.00	115.80	13.20	6.43	15.90	3.30	2.05	
24	0.66	0.18	0.00	0.10	3.86	170.00	91.40	12.90	6.63	18.60	3.16	1.83	
25	0.61	0.16	0.00	0.10	3.44	157.00	72.20	12.90	119.00	14.70	2.88	1.83	
26	0.55	0.14	0.00	0.08	3.58	122.20	58.50	13.20	82.40	12.00	2.74	1.94	
27	0.49	0.12	0.00	0.08	3.02	90.70	51.00	13.20	81.80	10.02	3.02	2.05	
28	0.61	0.08	0.00	0.00	3.02	102.60	50.50	12.90	64.50	6.63	2.74	2.16	
29	0.43	0.02	0.00	0.00	3.16	145.90	43.00	12.60	50.00	4.99		2.16	
30	0.61	0.00	0.00	0.00	4.00	153.10	35.60	12.60	43.50	4.82		2.27	
31		0.00		0.18	3.02		32.00		35.60	4.99		2.27	
Total	20.49	8.86	4.74	6.51	227.16	1958.61	2726.50	529.00	717.17	433.21	101.96	117.00	6851.21 CMSDAY
Mean	0.68	0.29	0.16	0.21	7.33	65.29	87.95	17.63	23.13	13.97	3.64	3.77	18.77 CMS
Max	1.07	1.28	0.78	1.21	16.80	170.00	254.30	31.20	119.00	30.00	5.32	7.60	254.30 CMS
Min	0.16	0.00	0.00	0.00	2.16	3.44	19.80	12.60	6.43	4.82	2.74	1.83	0.00 CMS
Runoff	1.770	0.766	0.410	0.562	19.627	169.224	235.570	45.706	61.963	37.429	8.809	10.109	591.945 MCM

Momentary Peak 263.40 CMS, at 164.98 M (MSL), at 6.00 Hours, on Oct 20, 1992
Runoff Yield 2.09 Liters/Second/Square KM, Momentary Peak Yield 29.32 Liters/Second/Square KM

WATER YEAR 1992

WANG RIVER BASIN

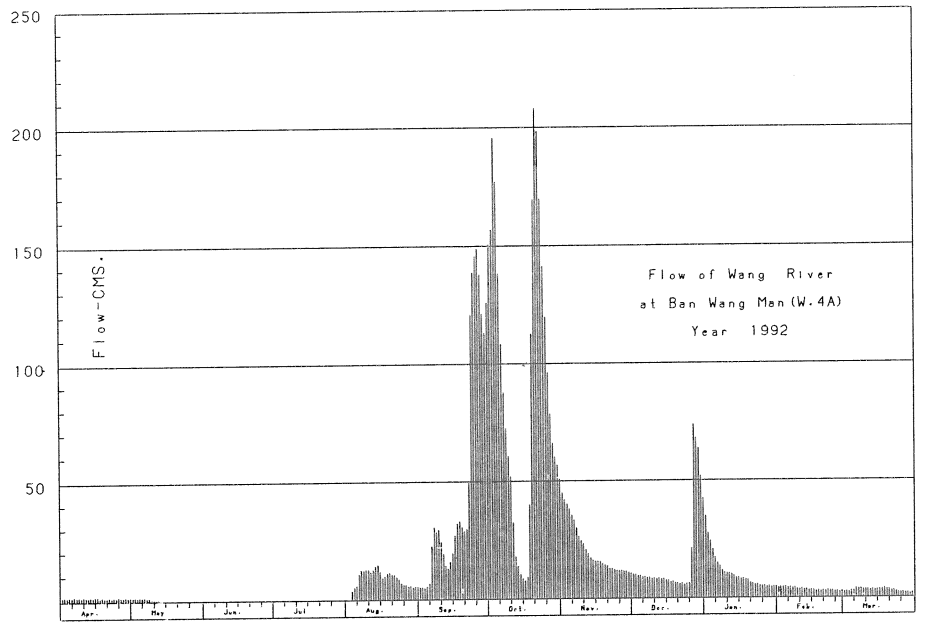
Wang River at Ban Wang Man, Tak (W.4A)

Location	Lat. 17°-12'-22" N., Long. 99°-06'-08" E., on right bank about 200 meters upstream from the bridge on highway, Amphoe Sam Ngao, Tak.
Drainage Area	10,507 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+130.00 m. (M.S.L.)
Bench Mark	B.M -H.D.
Location	Infront of Wat Wang Man.
Elevation	+136.071 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1968 to date.
Rating Operation	
Period of Rating	1971 to date.
Rated by Float	-
Rated by Current Meter	1971 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Upstream state diversions for irrigation about 12,320 hectares. Stage-discharge relation defined by 25 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.48	130.44	130.00	130.00	130.00	130.83	134.84	132.51	131.22	132.17	130.76	130.56	
2	130.47	130.44	130.00	130.00	130.00	130.80	134.95	132.40	131.20	131.93	130.75	130.55	
3	130.47	130.44	130.00	130.00	130.66	130.79	135.54	132.35	131.19	131.81	130.78	130.56	
4	130.47	130.44	130.00	130.00	130.84	130.84	135.27	132.27	131.17	131.68	130.77	130.58	
5	130.48	130.46	130.00	130.00	130.88	130.99	134.62	132.19	131.15	131.53	130.76	130.62	
6	130.49	130.45	130.00	130.00	131.25	131.74	134.07	132.11	131.14	131.45	130.75	130.69	
7	130.48	130.44	130.00	130.00	131.32	132.03	133.62	132.01	131.13	131.38	130.74	130.70	
8	130.47	130.42	130.00	130.00	131.33	131.95	133.26	131.88	131.12	131.30	130.73	130.68	
9	130.47	130.39	130.00	130.00	131.33	131.98	132.97	131.83	131.11	131.24	130.70	130.67	
10	130.48	130.37	130.00	130.00	131.35	131.82	132.71	131.77	131.10	131.24	130.69	130.68	
11	130.48	130.33	130.00	130.00	131.28	131.62	132.09	131.68	131.10	131.22	130.68	130.64	
12	130.47	130.30	130.00	130.00	131.34	131.41	131.57	131.60	131.10	131.22	130.67	130.64	
13	130.46	130.25	130.00	130.00	131.40	131.36	131.39	131.54	131.09	131.16	130.65	130.64	
14	130.47	130.22	130.00	130.00	131.44	131.47	131.23	131.49	131.08	131.12	130.64	130.63	
15	130.48	130.21	130.00	130.00	131.29	131.63	131.10	131.48	131.06	131.11	130.63	130.62	
16	130.48	130.18	130.00	130.00	131.16	131.90	131.04	131.47	131.04	131.09	130.62	130.64	
17	130.45	130.16	130.00	130.00	131.18	132.07	131.17	131.48	131.01	131.08	130.61	130.68	
18	130.46	130.11	130.00	130.00	131.27	132.11	132.33	131.43	131.00	131.08	130.60	130.69	
19	130.45	130.07	130.00	130.00	131.27	132.03	134.15	131.42	130.97	131.04	130.60	130.67	
20	130.44	130.05	130.00	130.00	131.24	131.96	135.16	131.39	130.94	130.98	130.60	130.64	
21	130.45	130.05	130.00	130.00	131.22	132.00	135.70	131.35	130.93	130.91	130.61	130.61	
22	130.44	130.05	130.00	130.00	131.18	132.64	135.58	131.33	130.93	130.88	130.62	130.60	
23	130.45	130.04	130.00	130.00	131.10	134.31	135.16	131.32	130.89	130.87	130.62	130.58	
24	130.45	130.03	130.00	130.00	131.01	134.63	134.68	131.29	130.90	130.85	130.60	130.54	
25	130.47	130.01	130.00	130.00	130.95	134.76	134.29	131.30	130.96	130.83	130.58	130.53	
26	130.45	130.00	130.00	130.00	130.91	134.81	133.81	131.29	131.68	130.81	130.57	130.52	
27	130.45	130.00	130.00	130.00	130.88	134.62	133.41	131.29	133.30	130.80	130.57	130.51	
28	130.45	130.00	130.00	130.00	130.87	134.31	133.11	131.27	133.15	130.80	130.57	130.49	
29	130.45	130.00	130.00	130.00	130.83	134.16	132.95	131.26	133.05	130.78		130.48	
30	130.44	130.00	130.00	130.00	130.84	134.40	132.86	131.23	132.71	130.77		130.49	
31		130.00		130.00	130.84		132.68		132.41	130.77		130.49	
Mean	130.46	130.20	130.00	130.00	131.05	132.40	133.46	131.64	131.38	131.16	130.66	130.60	
Max	130.49	130.46	130.00	130.00	131.44	134.81	135.70	132.51	133.30	132.17	130.78	130.70	135.70
Min	130.44	130.00	130.00	130.00	130.00	130.79	131.04	131.23	130.89	130.77	130.57	130.48	130.00

Annual Max Momentary Gage Height 135.73 M (MSL), at 18.00 Hours, on Oct 21, 1992
Zero Gage at Bottom Elevation 130.00 M (MSL), River Bed 130.18 M (MSL)
Left Bank Elevation 136.31 M (MSL)
Right Bank Elevation 136.31 M (MSL), Drainage Area 10507 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	1.40	0.00	0.00	0.00	5.30	150.40	45.30	10.40	35.10	4.60	2.60	
2	1.70	1.40	0.00	0.00	0.00	5.00	157.00	42.00	10.00	27.90	4.50	2.50	
3	1.70	1.40	0.00	0.00	3.60	4.90	195.80	40.50	9.85	24.30	4.80	2.60	
4	1.70	1.40	0.00	0.00	5.40	5.40	176.90	38.10	9.55	21.00	4.70	2.80	
5	1.80	1.60	0.00	0.00	5.80	6.90	138.10	35.70	9.25	17.25	4.60	3.20	
6	1.90	1.50	0.00	0.00	11.00	22.50	108.50	33.30	9.10	15.25	4.50	3.90	
7	1.80	1.40	0.00	0.00	12.40	30.90	87.90	30.30	8.95	13.60	4.40	4.00	
8	1.70	1.20	0.00	0.00	12.60	28.50	72.40	26.40	8.80	12.00	4.30	3.80	
9	1.70	0.95	0.00	0.00	12.60	29.40	60.95	24.90	8.65	10.80	4.00	3.70	
10	1.80	0.85	0.00	0.00	13.00	24.60	51.85	23.25	8.50	10.80	3.90	3.80	
11	1.80	0.65	0.00	0.00	11.60	19.50	32.70	21.00	8.50	10.40	3.80	3.40	
12	1.70	0.50	0.00	0.00	12.80	14.25	18.25	19.00	8.50	10.40	3.70	3.40	
13	1.60	0.25	0.00	0.00	14.00	13.20	13.80	17.50	8.35	9.40	3.50	3.40	
14	1.70	0.10	0.00	0.00	15.00	15.75	10.60	16.25	8.20	8.80	3.40	3.30	
15	1.80	0.05	0.00	0.00	11.80	19.75	8.50	16.00	7.90	8.65	3.30	3.20	
16	1.80	0.00	0.00	0.00	9.40	27.00	7.60	15.75	7.60	8.35	3.20	3.40	
17	1.50	0.00	0.00	0.00	9.70	32.10	9.55	16.00	7.15	8.20	3.10	3.80	
18	1.60	0.00	0.00	0.00	11.40	33.30	39.90	14.75	7.00	8.20	3.00	3.90	
19	1.50	0.00	0.00	0.00	11.40	30.90	112.50	14.50	6.70	7.60	3.00	3.70	
20	1.40	0.00	0.00	0.00	10.80	28.80	169.60	13.80	6.40	6.80	3.00	3.40	
21	1.50	0.00	0.00	0.00	10.40	30.00	208.00	13.00	6.30	6.10	3.10	3.10	
22	1.40	0.00	0.00	0.00	9.70	49.40	198.60	12.60	6.30	5.80	3.20	3.00	
23	1.50	0.00	0.00	0.00	8.50	121.05	169.60	12.40	5.90	5.70	3.20	2.80	
24	1.50	0.00	0.00	0.00	7.15	138.65	141.40	11.80	6.00	5.50	3.00	2.40	
25	1.70	0.00	0.00	0.00	6.50	145.80	119.95	12.00	6.60	5.30	2.80	2.30	
26	1.50	0.00	0.00	0.00	6.10	148.60	96.45	11.80	21.00	5.10	2.70	2.20	
27	1.50	0.00	0.00	0.00	5.80	138.10	78.45	11.80	74.00	5.00	2.70	2.10	
28	1.50	0.00	0.00	0.00	5.70	121.05	66.40	11.40	68.00	5.00	2.70	1.90	
29	1.50	0.00	0.00	0.00	5.30	113.00	60.25	11.20	64.00	4.80		1.80	
30	1.40	0.00	0.00	0.00	5.40	126.00	57.10	10.60	51.85	4.70		1.90	
31		0.00		0.00	5.40		50.80		42.30	4.70		1.90	
Total	49.00	14.65	0.00	0.00	270.25	1529.60	2869.80	622.90	521.60	332.50	100.70	93.20	6404.20 CMSDAY
Mean	1.63	0.47	0.00	0.00	8.72	50.99	92.57	20.76	16.83	10.73	3.60	3.01	17.55 CMS
Max	1.90	1.60	0.00	0.00	15.00	148.60	208.00	45.30	74.00	35.10	4.80	4.00	208.00 CMS
Min	1.40	0.00	0.00	0.00	0.00	4.90	7.60	10.60	5.90	4.70	2.70	1.80	0.00 CMS
Runoff	4.234	1.266	0.000	0.000	23.350	132.157	247.951	53.819	45.066	28.728	8.700	8.052	553.323 MCM

Momentary Peak 210.40 CMS, at 135.73 M (MSL), at 18.00 Hours, on Oct 21, 1992

Runoff Yield 1.67 Liters/Second/Square KM, Momentary Peak Yield 20.02 Liters/Second/Square KM

WATER YEAR 1992

WANG RIVER BASIN

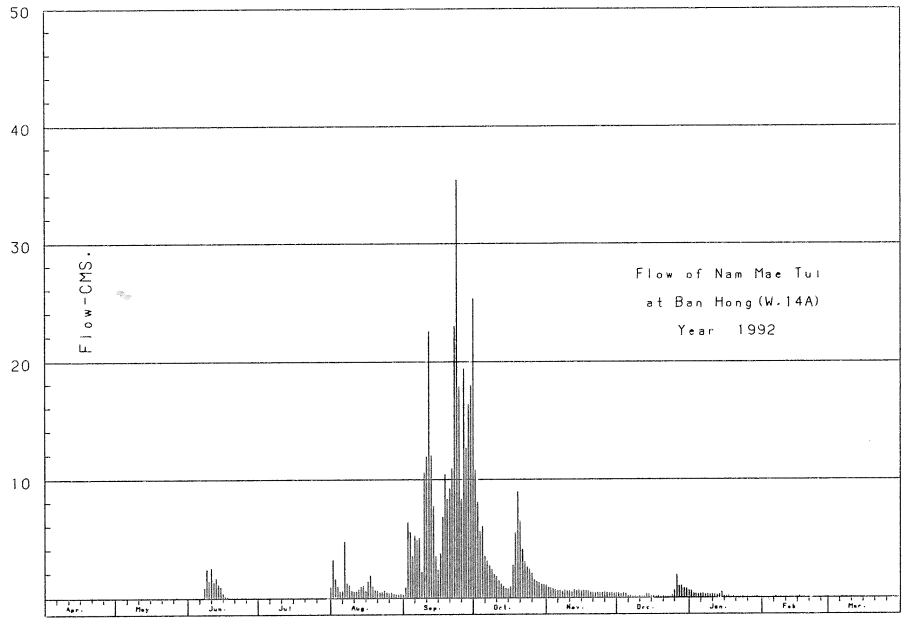
Nam Mae Tui at Ban Hong, Lampang (W.14A)

Location	Lat. 18°-26'-17" N., Long. 99°-27'-58" E., on right bank at Ban Hong, Tambon Ban Aiem, Amphoe Muang, Lampang.
Drainage Area	649 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+257.670 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 7.00 meters from the top staff gage.
Elevation	+261.325 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1980 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.73	257.72	257.69	257.78	258.99	258.35	259.73	258.36	258.08	258.19	257.89	257.83	
2	257.77	257.72	257.69	257.78	258.64	259.36	259.51	258.31	258.07	258.10	257.88	257.82	
3	257.77	257.71	257.69	257.78	258.40	259.28	259.28	258.31	258.09	258.05	257.87	257.82	
4	257.76	257.71	257.69	257.77	258.15	259.03	259.33	258.24	258.09	258.07	257.87	257.81	
5	257.75	257.72	257.69	257.77	258.21	259.25	259.03	258.22	257.95	258.06	257.87	257.81	
6	257.72	257.72	257.74	257.77	259.19	259.20	258.96	258.19	257.94	258.05	257.86	257.82	
7	257.72	257.72	258.35	257.77	258.53	259.22	258.90	258.18	257.92	258.03	257.86	257.84	
8	257.72	257.72	258.84	257.78	258.42	258.78	258.82	258.21	257.90	258.02	257.85	257.86	
9	257.71	257.72	258.57	257.78	258.22	259.72	258.73	258.20	257.92	258.02	257.85	257.85	
10	257.70	257.72	258.85	257.78	258.16	259.81	258.67	258.18	257.93	258.01	257.84	257.84	
11	257.70	257.72	258.56	257.78	258.19	260.39	258.59	258.16	257.93	258.00	257.84	257.84	
12	257.70	257.71	258.64	257.78	258.25	259.82	258.50	258.24	257.94	257.99	257.84	257.84	
13	257.70	257.70	258.49	257.77	258.40	259.48	258.37	258.22	258.07	258.00	257.84	257.84	
14	257.70	257.70	258.35	257.77	258.41	259.02	258.31	258.21	258.01	258.16	257.85	257.84	
15	257.70	257.70	258.12	257.77	258.21	258.81	258.26	258.20	257.95	257.94	257.85	257.84	
16	257.70	257.70	257.92	257.77	258.56	259.06	258.35	258.20	257.95	257.94	257.86	257.83	
17	257.70	257.70	257.88	257.77	258.71	259.41	258.91	258.22	257.93	257.93	257.85	257.83	
18	257.70	257.70	257.87	257.77	258.38	259.71	259.27	258.18	257.92	257.92	257.85	257.83	
19	257.70	257.70	257.85	257.77	258.24	259.53	259.59	258.14	257.91	257.90	257.84	257.82	
20	257.70	257.70	257.83	257.77	258.19	259.61	259.37	258.11	257.91	257.89	257.84	257.82	
21	257.69	257.71	257.82	257.77	258.15	259.74	259.11	258.12	257.91	257.88	257.84	257.82	
22	257.69	257.71	257.81	257.76	258.16	260.41	258.95	258.13	257.91	257.89	257.84	257.82	
23	257.69	257.71	257.80	257.75	258.19	260.84	258.88	258.10	257.91	257.90	257.84	257.82	
24	257.69	257.70	257.79	257.75	258.15	260.16	258.82	258.13	257.99	257.89	257.84	257.82	
25	257.69	257.71	257.79	257.75	258.08	259.53	258.74	258.12	258.19	257.90	257.84	257.82	
26	257.69	257.71	257.79	257.75	258.11	260.24	258.62	258.11	258.72	257.89	257.84	257.82	
27	257.69	257.70	257.79	257.74	258.09	259.86	258.57	258.11	258.41	257.89	257.84	257.81	
28	257.69	257.70	257.78	257.72	258.03	260.08	258.52	258.10	258.39	257.89	257.84	257.80	
29	257.69	257.70	257.78	257.72	258.03	260.17	258.49	258.10	258.32	257.89		257.80	
30	257.69	257.70	257.78	257.79	258.04	260.50	258.45	258.08	258.27	257.89		257.80	
31		257.70		258.35	258.02		258.43		258.23	257.89		257.80	
Mean	257.71	257.71	258.01	257.78	258.31	259.61	258.84	258.18	258.05	257.97	257.85	257.82	
Max	257.77	257.72	258.85	258.35	259.19	260.84	259.73	258.36	258.72	258.19	257.89	257.86	260.84
Min	257.69	257.70	257.69	257.72	258.02	258.35	258.26	258.08	257.90	257.88	257.84	257.80	257.69

Annual Max Momentary Gage Height 260.86 M (MSL), at 6.00 Hours, on Sep 23, 1992
Zero Gage at Bottom Elevation 257.67 M (MSL), River Bed 257.70 M (MSL)
Left Bank Elevation 262.35 M (MSL)
Right Bank Elevation 262.25 M (MSL), Drainage Area 649 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.01	0.00	0.04	3.29	0.90	10.82	0.92	0.37	0.58	0.10	0.06	
2	0.03	0.01	0.00	0.04	1.66	6.40	8.12	0.82	0.36	0.40	0.09	0.06	
3	0.03	0.00	0.00	0.04	1.00	5.61	5.61	0.82	0.38	0.32	0.08	0.06	
4	0.03	0.00	0.00	0.03	0.50	3.57	6.10	0.68	0.38	0.36	0.08	0.05	
5	0.02	0.01	0.00	0.03	0.62	5.33	3.57	0.64	0.18	0.34	0.08	0.05	
6	0.01	0.01	0.02	0.03	4.77	4.85	3.11	0.58	0.16	0.32	0.08	0.06	
7	0.01	0.01	0.90	0.03	1.29	5.04	2.75	0.56	0.13	0.29	0.08	0.07	
8	0.01	0.01	2.48	0.04	1.04	2.22	2.39	0.62	0.10	0.28	0.08	0.08	
9	0.00	0.01	1.41	0.04	0.64	10.68	2.02	0.60	0.13	0.28	0.08	0.08	
10	0.00	0.01	2.53	0.04	0.52	11.96	1.78	0.56	0.14	0.27	0.07	0.07	
11	0.00	0.01	1.38	0.04	0.58	22.58	1.47	0.52	0.14	0.25	0.07	0.07	
12	0.00	0.00	1.66	0.04	0.70	12.12	1.20	0.68	0.16	0.23	0.07	0.07	
13	0.00	0.00	1.18	0.03	1.00	7.76	0.94	0.64	0.36	0.25	0.07	0.07	
14	0.00	0.00	0.90	0.03	1.02	3.50	0.82	0.62	0.27	0.52	0.08	0.07	
15	0.00	0.00	0.44	0.03	0.62	2.35	0.72	0.60	0.18	0.16	0.08	0.07	
16	0.00	0.00	0.13	0.03	1.38	3.80	0.90	0.60	0.18	0.16	0.08	0.06	
17	0.00	0.00	0.09	0.03	1.94	6.92	2.81	0.64	0.14	0.14	0.08	0.06	
18	0.00	0.00	0.08	0.03	0.96	10.54	5.51	0.56	0.13	0.13	0.08	0.06	
19	0.00	0.00	0.08	0.03	0.68	8.36	9.08	0.48	0.12	0.10	0.07	0.06	
20	0.00	0.00	0.06	0.03	0.58	9.32	6.50	0.42	0.12	0.10	0.07	0.06	
21	0.00	0.00	0.06	0.03	0.50	10.96	4.17	0.44	0.12	0.09	0.07	0.06	
22	0.00	0.00	0.05	0.03	0.52	23.06	3.05	0.46	0.12	0.10	0.07	0.06	
23	0.00	0.00	0.05	0.02	0.58	35.48	2.66	0.40	0.12	0.10	0.07	0.06	
24	0.00	0.00	0.05	0.02	0.50	17.88	2.39	0.46	0.23	0.10	0.07	0.06	
25	0.00	0.00	0.05	0.02	0.37	8.36	2.06	0.44	0.58	0.10	0.07	0.06	
26	0.00	0.00	0.05	0.02	0.42	19.40	1.58	0.42	1.98	0.10	0.07	0.06	
27	0.00	0.00	0.05	0.02	0.38	12.76	1.41	0.42	1.02	0.10	0.07	0.05	
28	0.00	0.00	0.04	0.01	0.29	16.44	1.26	0.40	0.98	0.10	0.07	0.05	
29	0.00	0.00	0.04	0.01	0.29	18.06	1.18	0.40	0.84	0.10		0.05	
30	0.00	0.00	0.04	0.05	0.31	25.40	1.10	0.37	0.74	0.10		0.05	
31		0.00		0.90	0.28		1.06		0.66	0.10		0.05	
Total	0.16	0.09	13.82	1.81	29.23	331.61	98.14	16.77	11.52	6.57	2.13	1.90	513.75 CMSDAY
Mean	0.01	0.00	0.46	0.06	0.94	11.05	3.17	0.56	0.37	0.21	0.08	0.06	1.41 CMS
Max	0.03	0.01	2.53	0.90	4.77	35.48	10.82	0.92	1.98	0.58	0.10	0.08	35.48 CMS
Min	0.00	0.00	0.00	0.01	0.28	0.90	0.72	0.37	0.10	0.09	0.07	0.05	0.00 CMS
Runoff	0.014	0.008	1.194	0.156	2.525	28.651	8.479	1.449	0.995	0.568	0.184	0.164	44.388 MCM

Momentary Peak 36.12 CMS, at 260.86 M (MSL), at 6.00 Hours, on Sep 23, 1992
Runoff Yield 2.17 Liters/Second/Square KM, Momentary Peak Yield 55.65 Liters/Second/Square KM

WATER YEAR 1992

WANG RIVER BASIN

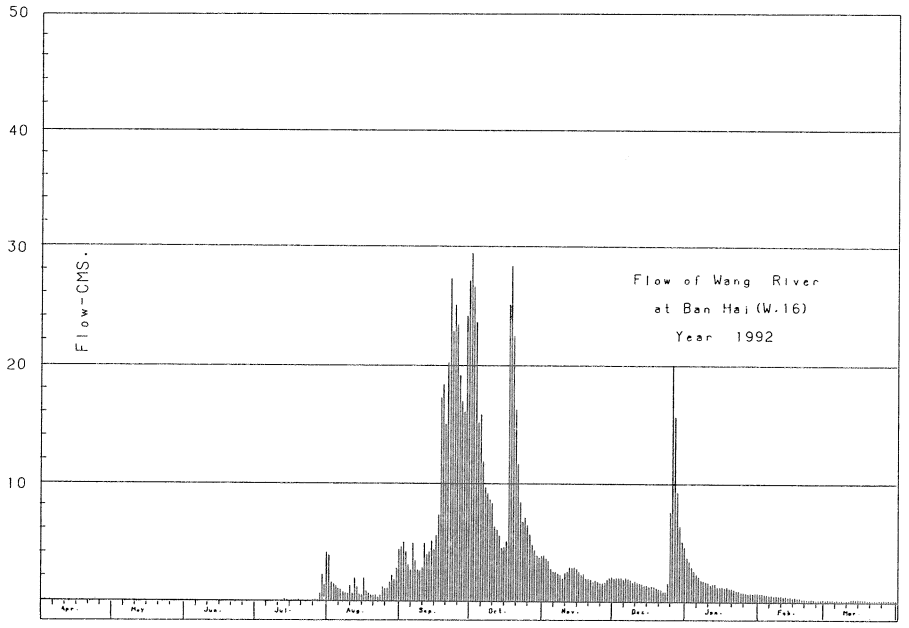
Wang River at Ban Hai, Lampang (W.16)

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 17 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	-0.01	-0.06	-0.05	0.78	0.86	2.12	0.77	0.54	0.76	0.32	0.15	
2	0.08	-0.02	-0.06	-0.04	0.48	0.91	2.01	0.75	0.54	0.72	0.31	0.15	
3	0.08	-0.03	-0.06	-0.06	0.47	0.82	1.89	0.72	0.55	0.67	0.31	0.15	
4	0.08	-0.04	-0.06	-0.06	0.43	0.69	1.49	0.65	0.54	0.62	0.29	0.14	
5	0.07	-0.04	-0.06	-0.06	0.38	0.64	1.53	0.62	0.53	0.59	0.29	0.14	
6	0.07	-0.04	-0.06	-0.06	0.38	0.90	1.33	0.61	0.54	0.55	0.28	0.14	
7	0.06	-0.05	-0.06	-0.04	0.35	0.73	1.23	0.60	0.54	0.52	0.28	0.13	
8	0.06	-0.05	-0.06	-0.04	0.32	0.64	1.20	0.57	0.51	0.50	0.27	0.13	
9	0.06	-0.05	-0.06	-0.04	0.32	0.62	1.18	0.54	0.49	0.50	0.27	0.13	
10	0.05	-0.06	-0.06	-0.04	0.44	0.66	1.16	0.60	0.50	0.48	0.27	0.13	
11	0.04	-0.06	-0.06	-0.02	0.31	0.89	1.03	0.62	0.48	0.46	0.26	0.13	
12	0.04	-0.06	-0.05	0.11	0.55	0.77	1.01	0.66	0.48	0.46	0.25	0.19	
13	0.03	-0.05	-0.02	0.11	0.43	0.81	0.96	0.66	0.46	0.46	0.24	0.19	
14	0.02	-0.05	-0.01	0.11	0.30	0.92	0.85	0.66	0.45	0.43	0.24	0.18	
15	0.01	-0.05	0.00	0.10	0.30	0.84	0.85	0.65	0.44	0.43	0.23	0.18	
16	0.01	-0.07	-0.01	0.10	0.54	0.96	0.90	0.61	0.43	0.42	0.23	0.17	
17	-0.01	-0.07	-0.02	0.08	0.36	1.12	1.95	0.58	0.44	0.42	0.22	0.17	
18	-0.03	-0.06	-0.03	0.12	0.31	1.60	2.08	0.59	0.42	0.42	0.21	0.15	
19	-0.03	-0.06	-0.02	0.12	0.29	1.65	1.84	0.54	0.41	0.41	0.19	0.14	
20	-0.04	-0.07	-0.01	0.11	0.27	1.49	1.55	0.53	0.39	0.40	0.18	0.13	
21	-0.03	-0.08	-0.01	0.11	0.27	1.74	1.32	0.53	0.37	0.38	0.18	0.13	
22	-0.04	-0.09	-0.02	0.10	0.24	2.04	1.17	0.50	0.35	0.37	0.17	0.13	
23	-0.04	-0.09	-0.02	0.09	0.28	1.86	1.08	0.51	0.34	0.36	0.17	0.13	
24	-0.04	-0.09	-0.03	0.10	0.43	1.95	1.10	0.50	0.48	0.34	0.16	0.13	
25	-0.04	-0.09	-0.03	0.11	0.39	1.88	1.04	0.47	1.13	0.33	0.16	0.13	
26	-0.04	-0.09	-0.03	0.10	0.41	1.69	0.97	0.47	1.73	0.33	0.16	0.13	
27	-0.03	-0.08	-0.04	0.14	0.50	1.58	0.88	0.49	1.52	0.32	0.16	0.14	
28	-0.01	-0.08	-0.05	0.32	0.57	1.54	0.82	0.52	1.21	0.32	0.16	0.14	
29	-0.01	-0.07	-0.06	0.59	0.52	1.91	0.78	0.55	1.03	0.32		0.14	
30	-0.02	-0.07	-0.06	0.45	0.66	2.03	0.75	0.55	0.91	0.32		0.14	
31		-0.07		0.80	0.83		0.77		0.85	0.32		0.14	
Mean	0.01	-0.06	-0.04	0.11	0.42	1.22	1.25	0.59	0.63	0.45	0.23	0.15	
Max	0.08	-0.01	0.00	0.80	0.83	2.04	2.12	0.77	1.73	0.76	0.32	0.19	2.12
Min	-0.04	-0.09	-0.06	-0.06	0.24	0.62	0.75	0.47	0.34	0.32	0.16	0.13	-0.09

Annual Max Momentary Gage Height 2.55 M (A.D), at 14.00 Hours, on Sep 29, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.13 M (A.D)
Left Bank Elevation 6.80 M (A.D)
Right Bank Elevation 6.42 M (A.D), Drainage Area 1284 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.02	0.01	0.01	3.92	4.64	29.62	3.83	1.98	3.74	0.70	0.18	
2	0.08	0.02	0.01	0.01	1.58	5.10	26.75	3.65	1.98	3.38	0.65	0.18	
3	0.08	0.01	0.01	0.01	1.52	4.28	23.75	3.38	2.05	2.96	0.65	0.18	
4	0.08	0.01	0.01	0.01	1.28	3.12	15.08	2.80	1.98	2.56	0.57	0.16	
5	0.08	0.01	0.01	0.01	1.00	2.72	15.91	2.56	1.91	2.33	0.57	0.16	
6	0.08	0.01	0.01	0.01	1.00	5.00	11.76	2.48	1.98	2.05	0.53	0.16	
7	0.07	0.01	0.01	0.01	0.85	3.47	9.69	2.40	1.98	1.84	0.53	0.14	
8	0.07	0.01	0.01	0.01	0.70	2.72	9.07	2.19	1.77	1.70	0.50	0.14	
9	0.07	0.01	0.01	0.01	0.70	2.56	8.66	1.98	1.64	1.70	0.50	0.14	
10	0.06	0.01	0.01	0.01	1.34	2.88	8.24	2.40	1.70	1.58	0.50	0.14	
11	0.05	0.01	0.01	0.02	0.65	4.91	6.30	2.56	1.58	1.46	0.46	0.14	
12	0.05	0.01	0.01	0.12	2.05	3.83	6.10	2.88	1.58	1.46	0.43	0.24	
13	0.04	0.01	0.02	0.12	1.28	4.19	5.60	2.88	1.46	1.46	0.39	0.24	
14	0.04	0.01	0.02	0.12	0.60	5.20	4.55	2.88	1.40	1.28	0.39	0.22	
15	0.03	0.01	0.02	0.10	0.60	4.46	4.55	2.80	1.34	1.28	0.36	0.22	
16	0.03	0.01	0.02	0.10	1.98	5.60	5.00	2.48	1.28	1.22	0.36	0.21	
17	0.02	0.01	0.02	0.08	0.90	7.41	25.25	2.26	1.34	1.22	0.32	0.21	
18	0.01	0.01	0.01	0.13	0.65	17.36	28.50	2.33	1.22	1.22	0.28	0.18	
19	0.01	0.01	0.02	0.13	0.57	18.39	22.50	1.98	1.16	1.16	0.24	0.16	
20	0.01	0.01	0.02	0.12	0.50	15.08	16.32	1.91	1.05	1.10	0.22	0.14	
21	0.01	0.00	0.02	0.12	0.50	20.26	11.56	1.91	0.95	1.00	0.22	0.14	
22	0.01	0.00	0.02	0.10	0.39	27.50	8.45	1.70	0.85	0.95	0.21	0.14	
23	0.01	0.00	0.02	0.09	0.53	23.00	6.80	1.77	0.80	0.90	0.21	0.14	
24	0.01	0.00	0.01	0.10	1.28	25.25	7.00	1.70	1.58	0.80	0.19	0.14	
25	0.01	0.00	0.01	0.12	1.05	23.50	6.40	1.52	7.62	0.75	0.19	0.14	
26	0.01	0.00	0.01	0.10	1.16	19.22	5.70	1.52	20.05	0.75	0.19	0.14	
27	0.01	0.00	0.01	0.16	1.70	16.94	4.82	1.64	15.70	0.70	0.19	0.16	
28	0.02	0.00	0.01	0.70	2.19	16.11	4.28	1.84	9.28	0.70	0.19	0.16	
29	0.02	0.01	0.01	2.33	1.84	24.25	3.92	2.05	6.30	0.70		0.16	
30	0.02	0.01	0.01	1.40	2.88	27.25	3.65	2.05	5.10	0.70		0.16	
31		0.01		4.10	4.37		3.83		4.55	0.70		0.16	
Total	1.17	0.25	0.40	10.46	41.56	346.20	349.61	70.33	105.16	45.35	10.74	5.18	986.41 CMSDAY
Mean	0.04	0.01	0.01	0.34	1.34	11.54	11.28	2.34	3.39	1.46	0.38	0.17	2.70 CMS
Max	0.08	0.02	0.02	4.10	4.37	27.50	29.62	3.83	20.05	3.74	0.70	0.24	29.62 CMS
Min	0.01	0.00	0.01	0.01	0.39	2.56	3.65	1.52	0.80	0.70	0.19	0.14	0.00 CMS
Runoff	0.101	0.022	0.035	0.904	3.591	29.912	30.206	6.077	9.086	3.918	0.928	0.448	85.226 MCM

Momentary Peak 42.88 CMS, at 2.55 M (A.D), at 14.00 Hours, on Sep 29, 1992
Runoff Yield 2.10 Liters/Second/Square KM, Momentary Peak Yield 33.39 Liters/Second/Square KM

WATER YEAR 1992

WANG RIVER BASIN

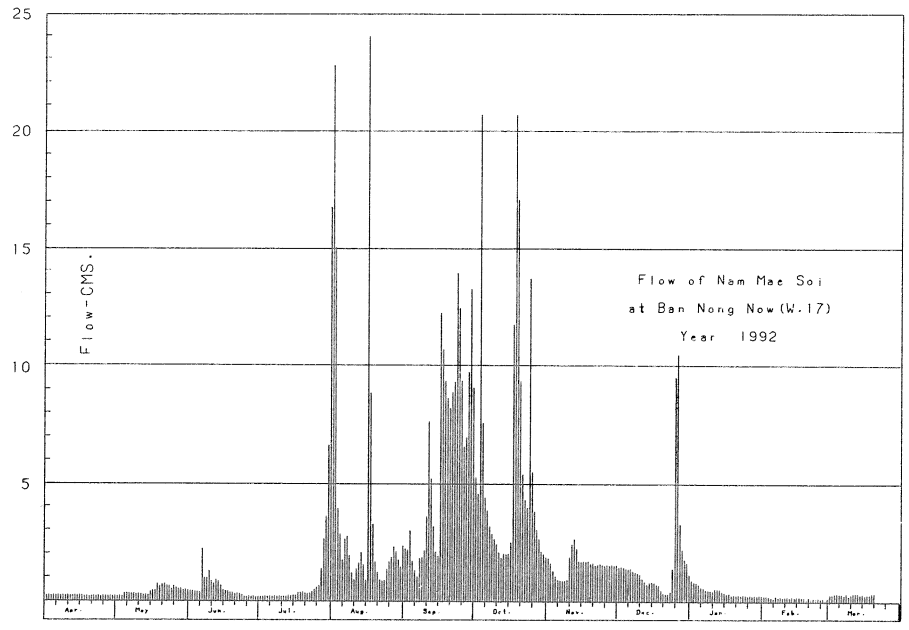
Nam Mae Soi at Ban Nong Now, Lampang (W.17)

Location	Lat. 18°-43'-16" N., Long 99°-34'-12" E., on right bank at the bridge of Lampang-Wang Nua Road, Ban Nong Now, Tambon Chae Hom, Amphoe Chae Hom, Lampang.
Drainage Area	619 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+292.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	About 21 meters from the top staff gage.
Elevation	+295.790 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1980 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.62	291.61	291.69	291.60	292.96	291.96	292.24	291.91	291.86	291.78	291.62	291.64	
2	291.62	291.61	291.68	291.61	292.70	291.95	292.19	291.88	291.86	291.77	291.61	291.63	
3	291.62	291.61	291.68	291.61	292.14	292.05	292.89	291.84	291.86	291.76	291.61	291.65	
4	291.62	291.65	291.67	291.61	292.03	291.89	292.39	291.81	291.85	291.75	291.61	291.65	
5	291.62	291.65	291.67	291.61	291.90	291.84	292.18	291.79	291.85	291.72	291.61	291.65	
6	291.62	291.65	291.96	291.61	292.01	291.81	292.13	291.78	291.85	291.72	291.61	291.64	
7	291.62	291.65	291.80	291.61	292.02	291.91	292.07	291.78	291.84	291.70	291.60	291.63	
8	291.62	291.64	291.80	291.61	291.92	291.91	292.03	291.78	291.83	291.70	291.60	291.65	
9	291.62	291.64	291.84	291.61	291.83	291.95	292.01	291.79	291.83	291.69	291.60	291.62	
10	291.62	291.64	291.78	291.61	291.79	292.11	291.98	291.91	291.82	291.69	291.60	291.64	
11	291.62	291.64	291.75	291.61	291.85	292.39	291.94	291.98	291.80	291.72	291.60	291.65	
12	291.62	291.63	291.79	291.61	291.88	292.24	291.91	292.01	291.77	291.71	291.60	291.66	
13	291.62	291.63	291.77	291.62	291.94	292.07	291.93	291.96	291.75	291.70	291.60	291.65	
14	291.62	291.63	291.74	291.62	291.87	291.94	291.93	291.89	291.76	291.68	291.60	291.64	
15	291.62	291.67	291.70	291.62	291.78	291.92	291.93	291.89	291.77	291.66	291.60	291.64	
16	291.62	291.69	291.69	291.63	293.00	292.59	291.99	291.89	291.76	291.65	291.60	291.63	
17	291.61	291.70	291.68	291.66	292.45	292.53	292.57	291.89	291.75	291.65	291.60	291.63	
18	291.61	291.75	291.67	291.67	292.08	292.47	292.89	291.89	291.74	291.63	291.59	291.64	
19	291.61	291.73	291.66	291.67	291.89	292.44	292.77	291.88	291.70	291.63	291.59	291.65	
20	291.61	291.75	291.65	291.66	291.83	292.42	292.47	291.88	291.65	291.63	291.59	291.66	
21	291.61	291.75	291.65	291.65	291.79	292.45	292.25	291.87	291.65	291.63	291.58	291.83	
22	291.61	291.74	291.65	291.66	291.78	292.47	292.17	291.87	291.64	291.63	291.58	291.86	
23	291.61	291.73	291.63	291.67	291.78	292.66	292.14	291.88	291.68	291.63	291.58	291.86	
24	291.61	291.71	291.61	291.71	291.85	292.60	292.65	291.87	291.85	291.63	291.58	291.85	
25	291.61	291.73	291.61	291.72	291.89	292.47	292.26	291.87	292.48	291.62	291.57	291.85	
26	291.61	291.72	291.61	291.74	291.91	292.33	292.13	291.87	292.52	291.62	291.57	291.85	
27	291.61	291.71	291.61	291.85	291.97	292.35	292.05	291.87	292.08	291.62	291.57	291.85	
28	291.61	291.71	291.61	292.01	291.94	292.49	292.01	291.87	291.95	291.62	291.57	291.85	
29	291.61	291.70	291.60	292.11	291.90	292.63	291.94	291.87	291.90	291.62		291.85	
30	291.61	291.70	291.60	292.33	291.86	292.46	291.93	291.87	291.88	291.62		291.86	
31		291.69		292.76	291.97		291.91		291.82	291.62		291.86	
Mean	291.62	291.68	291.69	291.73	292.02	292.24	292.19	291.87	291.85	291.67	291.59	291.72	
Max	291.62	291.75	291.96	292.76	293.00	292.66	292.89	292.01	292.52	291.78	291.62	291.86	293.00
Min	291.61	291.61	291.60	291.60	291.78	291.81	291.91	291.78	291.64	291.62	291.57	291.62	291.57

Annual Max Momentary Gage Height 293.10 M (MSL), at 12.00 Hours, on Aug 16, 1992
Zero Gage at Bottom Elevation 292.00 M (MSL), River Bed 291.27 M (MSL)
Left Bank Elevation 295.41 M (MSL)
Right Bank Elevation 295.23 M (MSL), Drainage Area 619 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.23	0.47	0.20	22.80	2.28	5.26	1.88	1.48	0.90	0.26	0.32	
2	0.26	0.23	0.44	0.23	15.00	2.20	4.58	1.64	1.48	0.85	0.23	0.29	
3	0.26	0.23	0.44	0.23	3.98	3.05	20.70	1.32	1.48	0.80	0.23	0.35	
4	0.26	0.35	0.41	0.23	2.87	1.72	7.63	1.08	1.40	0.75	0.23	0.35	
5	0.26	0.35	0.41	0.23	1.80	1.32	4.46	0.95	1.40	0.60	0.23	0.35	
6	0.26	0.35	2.28	0.23	2.69	1.08	3.86	0.90	1.40	0.60	0.23	0.32	
7	0.26	0.35	1.00	0.23	2.78	1.88	3.23	0.90	1.32	0.50	0.20	0.29	
8	0.26	0.32	1.00	0.23	1.96	1.88	2.87	0.90	1.24	0.50	0.20	0.35	
9	0.26	0.32	1.32	0.23	1.24	2.20	2.69	0.95	1.24	0.47	0.20	0.26	
10	0.26	0.32	0.90	0.23	0.95	3.62	2.44	1.88	1.16	0.47	0.20	0.32	
11	0.26	0.32	0.75	0.23	1.40	7.63	2.12	2.44	1.00	0.60	0.20	0.35	
12	0.26	0.29	0.95	0.23	1.64	5.26	1.88	2.69	0.85	0.55	0.20	0.38	
13	0.26	0.29	0.85	0.26	2.12	3.23	2.04	2.28	0.75	0.50	0.20	0.35	
14	0.26	0.29	0.70	0.26	1.56	2.12	2.04	1.72	0.80	0.44	0.20	0.32	
15	0.26	0.41	0.50	0.26	0.90	1.96	2.04	1.72	0.85	0.38	0.20	0.32	
16	0.26	0.47	0.47	0.29	24.00	12.25	2.52	1.72	0.80	0.35	0.20	0.29	
17	0.23	0.50	0.44	0.38	8.90	10.75	11.75	1.72	0.75	0.35	0.20	0.29	
18	0.23	0.75	0.41	0.41	3.32	9.34	20.70	1.72	0.70	0.29	0.18	0.32	
19	0.23	0.65	0.38	0.41	1.72	8.68	17.10	1.64	0.50	0.29	0.18	0.35	
20	0.23	0.75	0.35	0.38	1.24	8.24	9.34	1.64	0.35	0.29	0.18	0.38	
21	0.23	0.75	0.35	0.35	0.95	8.90	5.40	1.56	0.35	0.29	0.16	0.00	
22	0.23	0.70	0.35	0.38	0.90	9.34	4.34	1.56	0.32	0.29	0.16	0.00	
23	0.23	0.65	0.29	0.41	0.90	14.00	3.98	1.64	0.44	0.29	0.16	0.00	
24	0.23	0.55	0.23	0.55	1.40	12.50	13.75	1.56	1.40	0.29	0.16	0.00	
25	0.23	0.65	0.23	0.60	1.72	9.34	5.54	1.56	9.56	0.26	0.14	0.00	
26	0.23	0.60	0.23	0.70	1.88	6.61	3.86	1.56	10.50	0.26	0.14	0.00	
27	0.23	0.55	0.23	1.40	2.36	6.95	3.05	1.56	3.32	0.26	0.14	0.00	
28	0.23	0.55	0.23	2.69	2.12	9.78	2.69	1.56	2.20	0.26	0.14	0.00	
29	0.23	0.50	0.20	3.62	1.80	13.25	2.12	1.56	1.80	0.26		0.00	
30	0.23	0.50	0.20	6.61	1.48	9.12	2.04	1.56	1.64	0.26		0.00	
31		0.47		16.80	2.36		1.88		1.16	0.26		0.00	
Total	7.38	14.24	17.01	39.49	120.74	190.48	177.90	47.37	53.64	13.46	5.35	6.55	693.61 CMSDAY
Mean	0.25	0.46	0.57	1.27	3.89	6.35	5.74	1.58	1.73	0.43	0.19	0.21	1.90 CMS
Max	0.26	0.75	2.28	16.80	24.00	14.00	20.70	2.69	10.50	0.90	0.26	0.38	24.00 CMS
Min	0.23	0.23	0.20	0.20	0.90	1.08	1.88	0.90	0.32	0.26	0.14	0.00	0.00 CMS
Runoff	0.638	1.230	1.470	3.412	10.432	16.457	15.371	4.093	4.634	1.163	0.462	0.566	59.928 MCM

Momentary Peak 27.50 CMS, at 293.10 M (MSL), at 12.00 Hours, on Aug 16, 1992

Runoff Yield 3.07 Liters/Second/Square KM, Momentary Peak Yield 44.43 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

Yom River at Ban Nam Khong, Phrae (Y.1C)

Location — Lat. 18°-07'-59" N., Long. 100°-07'-39" E., on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge at Tambon Pa Mat, Amphoe Muang, Phrae.

Drainage Area — 7,624 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +143.50 m. (M.S.L.)

Bench Mark — B.M.-H.D.

- Location — Infront of the station office.
- Elevation — +153.908 m. (M.S.L.)

Gage Reading Frequency — Recording.

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

Pericd 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.

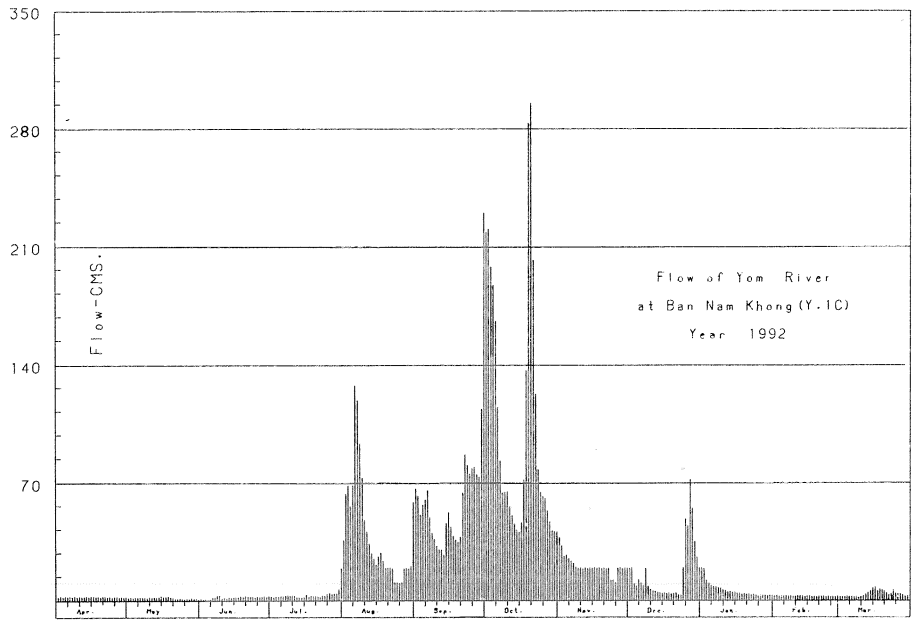
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 97 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.84	143.82	143.75	143.84	144.76	145.39	147.64	144.80	144.26	144.26	143.88	143.85	
2	143.85	143.81	143.74	143.84	145.32	145.30	147.66	144.68	144.29	144.22	143.88	143.84	
3	143.84	143.81	143.74	143.84	145.42	145.08	147.38	144.55	144.14	144.19	143.87	143.85	
4	143.85	143.81	143.74	143.85	145.18	145.19	147.23	144.56	144.09	144.15	143.86	143.85	
5	143.85	143.81	143.75	143.85	145.43	145.26	146.95	144.52	144.20	144.10	143.87	143.85	
6	143.85	143.81	143.81	143.85	146.43	145.37	146.23	144.48	144.15	144.09	143.87	143.84	
7	143.85	143.81	143.82	143.89	146.30	145.04	145.72	144.46	144.10	144.07	143.87	143.84	
8	143.85	143.81	143.89	143.88	145.90	144.86	145.34	144.40	144.23	144.07	143.86	143.84	
9	143.84	143.81	143.87	143.88	145.52	144.77	145.34	144.32	144.10	144.05	143.86	143.84	
10	143.84	143.82	143.80	143.87	145.01	144.68	145.35	144.26	144.03	144.03	143.87	143.85	
11	143.85	143.82	143.80	143.86	144.87	144.64	145.17	144.22	144.01	144.01	143.87	143.87	
12	143.85	143.82	143.79	143.83	144.72	144.63	145.07	144.25	143.99	143.99	143.88	143.93	
13	143.85	143.82	143.81	143.81	144.59	144.57	144.97	144.23	143.98	143.98	143.86	143.96	
14	143.85	143.84	143.82	143.82	144.51	144.97	144.89	144.28	143.96	143.98	143.85	144.01	
15	143.85	143.86	143.82	143.84	144.44	145.11	144.87	144.28	143.95	143.97	143.86	144.05	
16	143.85	143.84	143.82	143.90	144.54	144.93	144.98	144.29	143.95	143.96	143.86	144.07	
17	143.85	143.85	143.83	143.86	144.60	144.82	145.49	144.30	143.95	143.94	143.85	144.01	
18	143.84	143.85	143.85	143.87	144.48	144.76	146.56	144.27	143.95	143.93	143.85	144.04	
19	143.84	143.83	143.85	143.87	144.33	144.74	148.36	144.26	143.94	143.93	143.85	144.03	
20	143.84	143.79	143.85	143.85	144.27	144.80	148.49	144.22	143.93	143.93	143.86	144.00	
21	143.84	143.78	143.84	143.84	144.28	145.34	147.43	144.22	143.96	143.92	143.85	143.96	
22	143.84	143.77	143.84	143.83	144.23	145.78	146.35	144.22	143.90	143.91	143.85	143.90	
23	143.84	143.77	143.84	143.87	144.16	145.67	145.62	144.20	143.90	143.91	143.85	143.94	
24	143.83	143.76	143.83	143.88	144.15	145.56	145.35	144.19	144.29	143.91	143.85	144.02	
25	143.83	143.76	143.84	143.92	144.14	145.63	145.30	144.16	145.03	143.90	143.85	143.95	
26	143.83	143.76	143.84	143.94	144.16	145.64	145.27	144.28	144.94	143.90	143.85	143.92	
27	143.83	143.76	143.84	143.93	144.22	145.56	145.13	144.34	145.50	143.90	143.85	143.94	
28	143.83	143.78	143.85	143.93	144.22	145.52	144.99	144.24	145.15	143.89	143.85	143.90	
29	143.83	143.76	143.84	143.94	144.23	146.22	144.89	144.24	144.75	143.88		143.86	
30	143.83	143.77	143.85	144.03	144.41	147.77	144.87	144.23	144.53	143.88		143.86	
31		143.75		144.27	145.22		144.87		144.36	143.88		143.91	
Mean	143.84	143.80	143.82	143.89	144.78	145.25	145.93	144.33	144.24	143.99	143.86	143.92	
Max	143.85	143.86	143.89	144.27	146.43	147.77	148.49	144.80	145.50	144.26	143.88	144.07	148.49
Min	143.83	143.75	143.74	143.81	144.14	144.57	144.87	144.16	143.90	143.88	143.85	143.84	143.74

Annual Max Momentary Gage Height 148.81 M (MSL), at 22.00 Hours, on Oct 19, 1992
Zero Gage at Bottom Elevation 143.50 M (MSL), River Bed 142.19 M (MSL)
Left Bank Elevation 151.85 M (MSL)
Right Bank Elevation 153.91 M (MSL), Drainage Area 7624 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.48	2.14	1.15	2.48	36.20	67.00	218.60	38.00	19.52	19.52	3.16	2.65	
2	2.65	1.97	1.02	2.48	63.50	62.50	220.40	32.60	19.62	19.38	3.16	2.48	
3	2.48	1.97	1.02	2.48	68.50	51.50	198.50	26.75	10.40	12.15	2.99	2.65	
4	2.65	1.97	1.02	2.65	56.50	57.00	187.25	27.20	8.68	10.75	2.82	2.65	
5	2.65	1.97	1.15	2.65	69.00	60.50	166.25	25.40	12.50	9.00	2.99	2.65	
6	2.65	1.97	1.97	2.65	127.95	66.00	114.95	23.60	10.75	8.68	2.99	2.48	
7	2.65	1.97	2.14	3.33	119.50	49.50	83.60	22.70	9.00	8.04	2.99	2.48	
8	2.65	1.97	3.33	3.16	93.50	40.70	64.50	20.00	19.41	8.04	2.82	2.48	
9	2.48	1.97	2.99	3.16	73.50	36.65	64.50	19.72	9.00	7.40	2.82	2.48	
10	2.48	2.14	1.80	2.99	48.00	32.60	65.00	19.52	6.76	6.76	2.99	2.65	
11	2.65	2.14	1.80	2.82	41.15	30.80	56.00	19.38	6.12	6.12	2.99	2.99	
12	2.65	2.14	1.67	2.31	34.40	30.35	51.00	19.48	5.57	5.57	3.16	4.19	
13	2.65	2.14	1.97	1.97	28.55	27.65	46.00	19.41	5.34	5.34	2.82	4.88	
14	2.65	2.48	2.14	2.14	24.95	46.00	42.05	19.59	4.88	5.34	2.65	6.12	
15	2.65	2.82	2.14	2.48	21.80	53.00	41.15	19.59	4.65	5.11	2.82	7.40	
16	2.65	2.48	2.14	3.50	26.30	44.00	46.50	19.62	4.65	4.88	2.82	8.04	
17	2.65	2.65	2.31	2.82	29.00	38.90	72.00	19.65	4.65	4.42	2.65	6.12	
18	2.48	2.65	2.65	2.99	23.60	36.20	137.00	19.55	4.65	4.19	2.65	7.08	
19	2.48	2.31	2.65	2.99	19.76	35.30	283.40	19.52	4.42	4.19	2.65	6.76	
20	2.48	1.67	2.65	2.65	19.55	38.00	295.10	19.38	4.19	4.19	2.82	5.80	
21	2.48	1.54	2.48	2.48	19.59	64.50	202.25	19.38	4.88	3.96	2.65	4.88	
22	2.48	1.41	2.48	2.31	19.41	86.90	122.75	19.38	3.50	3.73	2.65	3.50	
23	2.48	1.41	2.48	2.99	11.10	81.00	78.50	12.50	3.50	3.73	2.65	4.42	
24	2.31	1.28	2.31	3.16	10.75	75.50	65.00	12.15	19.62	3.73	2.65	6.44	
25	2.31	1.28	2.48	3.96	10.40	79.00	62.50	11.10	49.00	3.50	2.65	4.65	
26	2.31	1.28	2.48	4.42	11.10	79.50	61.00	19.59	44.50	3.50	2.65	3.96	
27	2.31	1.28	2.48	4.19	19.38	75.50	54.00	19.79	72.50	3.50	2.65	4.42	
28	2.31	1.54	2.65	4.19	19.38	73.50	47.00	19.45	55.00	3.33	2.65	3.50	
29	2.31	1.28	2.48	4.42	19.41	114.30	42.05	19.45	35.75	3.16		2.82	
30	2.31	1.41	2.65	6.76	20.45	230.30	41.15	19.41	25.85	3.16		2.82	
31		1.15		19.55	58.50		41.15		19.86	3.16		3.73	
Total	75.42	58.38	64.68	113.13	1244.68	1864.15	3271.10	622.86	508.72	197.53	78.96	130.17	8229.78 CMSDAY
Mean	2.51	1.88	2.16	3.65	40.15	62.14	105.52	20.76	16.41	6.37	2.82	4.20	22.55 CMS
Max	2.65	2.82	3.33	19.55	127.95	230.30	295.10	38.00	72.50	19.52	3.16	8.04	295.10 CMS
Min	2.31	1.15	1.02	1.97	10.40	27.65	41.15	11.10	3.50	3.16	2.65	2.48	1.02 CMS
Runoff	6.516	5.044	5.588	9.774	107.540	161.063	282.623	53.815	43.953	17.067	6.822	11.247	711.053 MCM

Momentary Peak 323.90 CMS, at 148.81 M (MSL), at 22.00 Hours, on Oct 19, 1992
Runoff Yield 2.96 Liters/Second/Square KM, Momentary Peak Yield 42.48 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

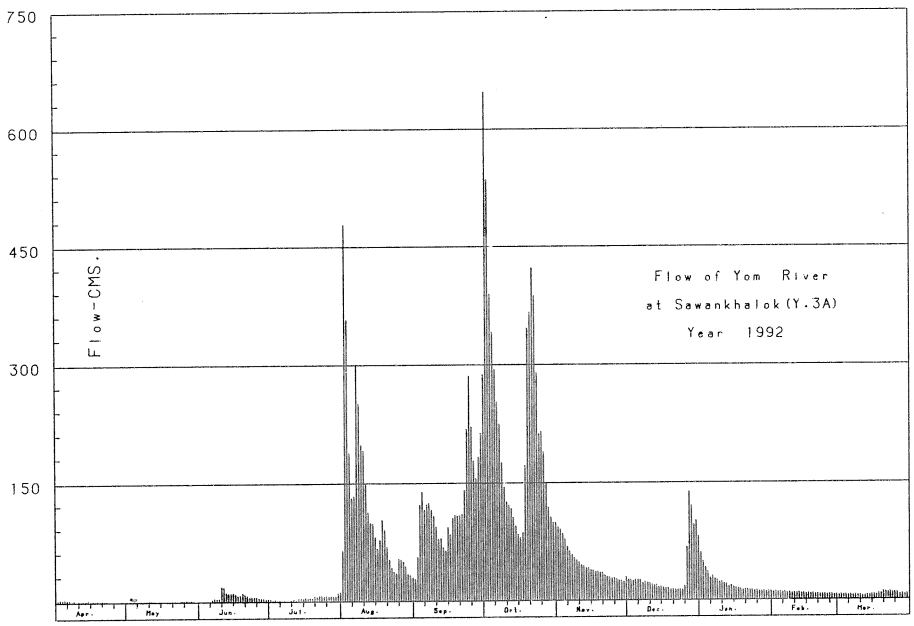
Yom River at Sawankhalok, Sukhothai (Y.3A)

Location	Lat. 17°-18'-29" N., Long. 99°-49'-43" E., on right bank about 100 meters downstream from the bridge on highway, Amphoe Sawankhalok, Sukhothai.
Drainage Area	13,583 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+51.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Infront of automatic gage building.
Elevation	+60.559 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1967 to date.
Rated by Float	-
Rated by Current Meter	1967 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.93	50.75	50.74	50.92	52.45	51.78	58.52	52.88	51.76	52.40	51.31	51.10	
2	50.94	50.72	50.73	50.90	57.13	52.32	57.61	52.83	51.73	52.21	51.31	51.10	
3	50.95	50.71	50.75	50.89	56.02	53.28	56.33	52.76	51.72	52.07	51.30	51.10	
4	50.95	50.72	50.89	50.87	54.15	53.53	55.85	52.65	51.73	51.95	51.29	51.09	
5	50.94	50.70	50.85	50.87	53.42	53.20	55.36	52.52	51.76	51.80	51.28	51.09	
6	50.90	50.80	50.95	50.84	53.44	53.29	54.89	52.42	51.73	51.84	51.27	51.09	
7	50.89	50.78	50.98	50.82	55.44	53.31	54.59	52.36	51.65	51.78	51.25	51.09	
8	50.88	50.85	50.98	50.79	54.87	53.20	54.00	52.29	51.66	51.72	51.25	51.09	
9	50.86	50.86	50.97	50.77	54.29	53.09	53.61	52.25	51.66	51.67	51.23	51.08	
10	50.85	50.86	51.58	50.88	54.19	52.88	53.34	52.20	51.62	51.67	51.23	51.06	
11	50.86	50.87	51.54	50.92	53.66	52.66	53.27	52.14	51.58	51.63	51.23	51.05	
12	50.87	50.85	51.38	50.92	53.15	52.68	53.22	52.10	51.57	51.59	51.23	51.05	
13	50.88	50.81	51.29	50.96	52.97	52.50	53.05	52.06	51.57	51.53	51.22	51.07	
14	50.91	50.83	51.33	50.99	52.94	52.44	52.90	52.05	51.52	51.54	51.21	51.09	
15	50.87	50.79	51.34	50.99	52.71	52.88	52.74	52.02	51.51	51.52	51.20	51.10	
16	50.88	50.77	51.25	50.99	52.48	52.74	52.68	51.99	51.50	51.47	51.20	51.11	
17	50.87	50.79	51.18	50.99	52.64	53.05	52.78	51.97	51.48	51.47	51.19	51.12	
18	50.86	50.78	51.17	50.98	53.02	53.09	53.94	51.96	51.46	51.43	51.18	51.17	
19	50.88	50.77	51.33	51.01	52.84	53.09	55.90	51.95	51.43	51.42	51.17	51.21	
20	50.86	50.83	51.22	51.09	52.51	53.08	56.10	51.93	51.43	51.42	51.16	51.29	
21	50.85	50.82	51.14	51.08	52.27	53.11	56.63	51.88	51.43	51.42	51.15	51.30	
22	50.84	50.84	51.09	51.16	52.09	53.56	56.31	51.84	51.43	51.42	51.15	51.28	
23	50.82	50.84	51.06	51.12	51.97	54.51	55.31	51.81	51.42	51.40	51.14	51.28	
24	50.83	50.86	51.09	51.10	51.94	55.27	54.45	51.80	51.43	51.38	51.14	51.27	
25	50.79	50.90	51.06	51.08	52.28	54.55	54.47	51.79	51.53	51.38	51.13	51.24	
26	50.75	50.87	51.02	51.09	52.26	54.02	54.16	51.76	52.50	51.36	51.12	51.22	
27	50.72	50.87	51.01	51.12	52.23	53.74	53.68	51.73	53.52	51.36	51.11	51.15	
28	50.74	50.86	50.96	51.07	52.11	54.09	53.23	51.71	53.25	51.35	51.10	51.15	
29	50.78	50.83	50.96	51.11	51.92	54.45	53.06	51.69	52.92	51.34		51.13	
30	50.77	50.76	50.93	51.29	51.88	55.28	52.95	51.82	52.98	51.33		51.14	
31		50.75		51.34	51.83		52.95		52.70	51.31		51.17	
Mean	50.86	50.81	51.09	51.00	53.13	53.36	54.45	52.11	51.84	51.59	51.21	51.14	
Max	50.95	50.90	51.58	51.34	57.13	55.28	58.52	52.88	53.52	52.40	51.31	51.30	58.52
Min	50.72	50.70	50.73	50.77	51.83	51.78	52.68	51.69	51.42	51.31	51.10	51.05	50.70

Annual Max Momentary Gage Height 58.63 M (MSL), at 12.00 Hours, on Oct 1, 1992
Zero Gage at Bottom Elevation 51.00 M (MSL), River Bed 50.20 M (MSL)
Left Bank Elevation 61.12 M (MSL)
Right Bank Elevation 60.75 M (MSL), Drainage Area 13583 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.60	0.00	0.00	2.40	64.25	27.20	647.60	93.60	26.40	61.00	10.20	6.00	
2	2.80	0.00	0.00	2.00	478.30	55.80	535.20	90.10	25.20	48.65	10.20	6.00	
3	3.00	0.00	0.00	1.80	358.00	121.60	390.30	85.20	24.80	41.50	10.00	6.00	
4	3.00	0.00	1.80	1.40	188.00	139.10	341.00	77.50	25.20	35.50	9.80	5.80	
5	2.80	0.00	1.00	1.40	131.40	116.00	294.40	68.80	26.40	28.00	9.60	5.80	
6	2.00	0.00	3.00	0.80	132.80	122.30	252.10	62.30	25.20	30.00	9.40	5.80	
7	1.80	0.00	3.60	0.40	301.60	123.70	225.10	58.40	22.00	27.20	9.00	5.80	
8	1.60	1.00	3.60	0.00	250.30	116.00	176.00	53.85	22.40	24.80	9.00	5.80	
9	1.20	1.20	3.40	0.00	199.20	108.30	144.80	51.25	22.40	22.80	8.60	5.60	
10	1.00	1.20	19.20	1.60	191.20	93.60	125.80	48.00	20.80	22.80	8.60	5.20	
11	1.20	1.40	17.60	2.40	148.80	78.20	120.90	45.00	19.20	21.20	8.60	5.00	
12	1.40	1.00	11.60	2.40	112.50	79.60	117.40	43.00	18.80	19.60	8.60	5.00	
13	1.60	0.20	9.80	3.20	99.90	67.50	105.50	41.00	18.80	17.20	8.40	5.40	
14	2.20	0.60	10.60	3.80	97.80	63.60	95.00	40.50	16.80	17.60	8.20	5.80	
15	1.40	0.00	10.80	3.80	81.70	93.60	83.80	39.00	16.40	16.80	8.00	6.00	
16	1.60	0.00	9.00	3.80	66.20	83.80	79.60	37.50	16.00	14.80	8.00	6.20	
17	1.40	0.00	7.60	3.80	76.80	105.50	86.60	36.50	15.20	14.80	7.80	6.40	
18	1.20	0.00	7.40	3.60	103.40	108.30	171.20	36.00	14.40	13.20	7.60	7.40	
19	1.60	0.00	10.60	4.20	90.80	108.30	346.00	35.50	13.20	12.80	7.40	8.20	
20	1.20	0.60	8.40	5.80	68.15	107.60	366.00	34.50	13.20	12.80	7.20	9.80	
21	1.00	0.40	6.80	5.60	52.55	109.70	423.30	32.00	13.20	12.80	7.00	10.00	
22	0.80	0.80	5.80	7.20	42.50	141.20	388.10	30.00	13.20	12.80	7.00	9.60	
23	0.40	0.80	5.20	6.40	36.50	217.90	289.90	28.50	12.80	12.00	6.80	9.60	
24	0.60	1.20	5.80	6.00	35.00	286.30	212.50	28.00	13.20	11.60	6.80	9.40	
25	0.00	2.00	5.20	5.60	53.20	221.50	214.30	27.60	17.20	11.60	6.60	8.80	
26	0.00	1.40	4.40	5.80	51.90	177.60	188.80	26.40	67.50	11.20	6.40	8.40	
27	0.00	1.40	4.20	6.40	49.95	155.20	150.40	25.20	138.40	11.20	6.20	7.00	
28	0.00	1.20	3.20	5.40	43.50	183.20	118.10	24.40	119.50	11.00	6.00	7.00	
29	0.00	0.60	3.20	6.20	34.00	212.50	106.20	23.60	96.40	10.80		6.60	
30	0.00	0.00	2.60	9.80	32.00	287.20	98.50	29.00	100.60	10.60		6.80	
31		0.00		10.80	29.50		98.50		81.00	10.20		7.40	
Total	39.40	17.00	185.40	123.80	3701.70	3911.90	6992.90	1352.20	1075.80	628.85	227.00	213.60	18469.55 CMSDAY
Mean	1.31	0.55	6.18	3.99	119.41	130.40	225.58	45.07	34.70	20.29	8.11	6.89	50.60 CMS
Max	3.00	2.00	19.20	10.80	478.30	287.20	647.60	93.60	138.40	61.00	10.20	10.00	647.60 CMS
Min	0.00	0.00	0.00	0.00	29.50	27.20	79.60	23.60	12.80	10.20	6.00	5.00	0.00 CMS
Runoff	3.404	1.469	16.019	10.696	319.827	337.988	604.187	116.830	92.949	54.333	19.613	18.455	1595.769 MCM

Momentary Peak 661.90 CMS, at 58.63 M (MSL), at 12.00 Hours, on Oct 1, 1992

Runoff Yield 3.73 Liters/Second/Square KM, Momentary Peak Yield 48.73 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

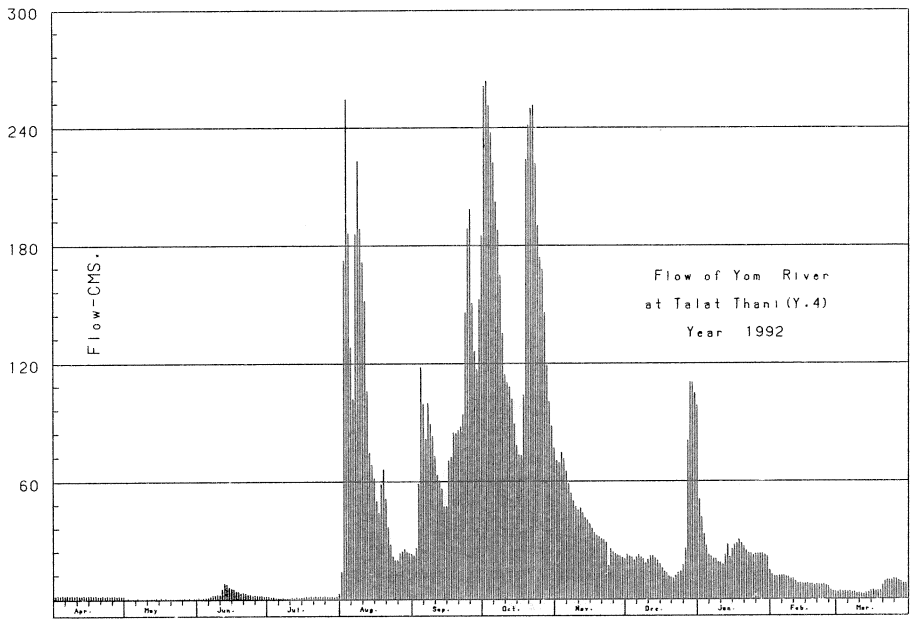
Yom River at Talat Thani, Sukhothai (Y.4)

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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +49.27 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	44.10	43.60	43.73	43.92	45.60	45.98	49.78	47.16	45.99	46.76	45.49	44.42	
2	44.10	43.60	43.68	43.86	48.75	46.10	49.81	47.13	45.96	46.55	45.45	44.47	
3	44.10	43.60	43.64	43.80	49.71	46.92	49.68	47.24	45.93	46.35	45.42	44.45	
4	44.10	43.60	43.86	43.76	48.93	47.97	49.53	47.17	45.88	46.14	45.47	44.43	
5	44.10	43.60	43.85	43.72	48.13	47.68	49.37	47.05	45.94	45.99	45.47	44.44	
6	44.10	43.60	43.90	43.70	47.72	47.38	49.13	46.92	45.98	45.94	45.45	44.43	
7	44.10	43.59	44.12	43.66	48.92	47.68	48.95	46.82	45.94	45.91	45.44	44.39	
8	44.09	43.59	44.15	43.63	49.38	47.51	48.65	46.74	45.89	45.89	45.39	44.36	
9	44.09	43.59	44.17	43.62	48.96	47.40	48.24	46.67	45.82	45.84	45.34	44.28	
10	44.09	43.59	44.19	43.61	48.74	47.20	47.91	46.63	45.88	45.81	45.31	44.24	
11	44.09	43.59	44.69	43.76	48.48	47.01	47.85	46.66	45.95	45.79	45.18	44.24	
12	44.09	43.67	45.12	43.73	47.78	46.95	47.82	46.60	45.97	45.98	45.07	44.18	
13	44.08	43.65	45.00	43.79	47.24	46.87	47.72	46.55	45.92	46.17	45.05	44.28	
14	44.08	43.67	44.85	43.79	47.11	46.67	47.51	46.52	45.86	45.93	45.07	44.39	
15	44.08	43.69	44.77	43.83	46.98	46.68	47.31	46.48	45.79	46.09	45.05	44.49	
16	44.07	43.68	44.68	43.89	46.74	47.15	47.21	46.43	45.70	46.15	45.03	44.56	
17	44.07	43.67	44.57	43.93	46.60	47.19	47.21	46.36	45.61	46.19	45.01	44.53	
18	44.06	43.65	44.46	43.95	46.91	47.43	47.75	46.32	45.53	46.24	44.98	44.50	
19	44.05	43.61	44.38	43.97	47.07	47.43	49.39	46.29	45.45	46.19	44.95	44.58	
20	44.05	43.61	44.35	43.91	46.76	47.45	49.57	46.26	45.37	46.12	44.95	44.90	
21	44.05	43.62	44.30	43.97	46.44	47.48	49.66	46.24	45.34	46.06	44.97	45.21	
22	44.04	43.63	44.24	43.95	46.17	47.59	49.68	46.20	45.47	46.02	44.98	45.27	
23	44.04	43.63	44.17	43.97	45.96	48.40	49.36	45.76	45.55	46.00	44.97	45.23	
24	44.03	43.63	44.11	43.99	45.87	48.96	48.98	46.08	45.61	45.98	44.94	45.26	
25	44.03	43.63	44.10	43.98	45.88	49.08	48.77	46.03	45.76	45.99	44.81	45.30	
26	44.03	43.63	44.09	43.95	46.01	48.46	48.69	46.01	46.09	46.00	44.58	45.29	
27	44.03	43.63	44.07	43.93	46.05	48.10	48.40	45.98	47.36	46.01	44.48	45.24	
28	44.02	43.63	44.05	43.91	46.08	47.95	47.99	45.95	47.86	46.00	44.38	45.13	
29	44.01	43.65	44.01	43.89	46.04	48.49	47.69	45.93	47.85	45.99		45.06	
30	44.01	43.67	43.97	43.93	46.01	48.91	47.49	45.89	47.77	45.94		45.00	
31		43.72		44.27	46.00		47.28		47.66	45.64		45.00	
Mean	44.07	43.63	44.24	43.86	47.19	47.54	48.53	46.47	46.09	46.05	45.10	44.70	
Max	44.10	43.72	45.12	44.27	49.71	49.08	49.81	47.24	47.86	46.76	45.49	45.30	49.81
Min	44.01	43.59	43.64	43.61	45.60	45.98	47.21	45.76	45.34	45.64	44.38	44.18	43.59

Annual Max Momentary Gage Height 49.82 M (MSL), at 6.00 Hours, on Oct 2, 1992
Zero Gage at Bottom Elevation 44.00 M (MSL), River Bed 42.56 M (MSL)
Left Bank Elevation 49.26 M (MSL)
Right Bank Elevation 49.32 M (MSL), Drainage Area 17731 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	0.50	0.82	1.30	14.00	22.50	261.10	71.00	22.75	51.20	12.35	3.60	
2	2.00	0.50	0.70	1.15	172.25	26.00	264.00	69.50	22.00	41.75	11.75	3.85	
3	2.00	0.50	0.60	1.00	254.45	59.00	251.60	75.00	21.25	33.50	11.30	3.75	
4	2.00	0.50	1.15	0.90	186.40	118.05	237.35	71.50	20.00	27.20	12.05	3.65	
5	2.00	0.50	1.12	0.80	128.45	99.80	222.45	65.50	21.50	22.75	12.05	3.70	
6	2.00	0.50	1.25	0.75	102.20	82.00	202.40	59.00	22.50	21.50	11.75	3.65	
7	2.00	0.47	2.10	0.65	185.60	99.80	188.00	54.00	21.50	20.75	11.60	3.45	
8	1.95	0.47	2.25	0.58	223.30	89.60	164.75	50.30	20.25	20.25	10.90	3.30	
9	1.95	0.47	2.35	0.55	188.80	83.00	135.60	47.15	18.50	19.00	10.40	2.90	
10	1.95	0.47	2.45	0.52	171.50	73.00	114.15	45.35	20.00	18.25	10.10	2.70	
11	1.95	0.47	5.17	0.90	152.00	63.50	110.25	46.70	21.75	17.80	8.85	2.70	
12	1.95	0.67	8.40	0.82	105.80	60.50	108.30	44.00	22.25	22.50	8.02	2.40	
13	1.90	0.63	7.50	0.98	75.00	56.50	102.20	41.75	21.00	28.10	7.87	2.90	
14	1.90	0.67	6.37	0.98	68.50	47.15	89.60	40.40	19.50	21.25	8.02	3.45	
15	1.90	0.72	5.78	1.08	62.00	47.60	78.50	38.60	17.80	25.70	7.87	3.95	
16	1.85	0.70	5.10	1.22	50.30	70.50	73.50	36.35	16.00	27.50	7.72	4.30	
17	1.85	0.67	4.35	1.33	44.00	72.50	73.50	33.80	14.20	28.70	7.57	4.15	
18	1.80	0.63	3.80	1.38	58.50	84.80	104.00	32.60	12.95	30.20	7.35	4.00	
19	1.75	0.52	3.40	1.43	66.50	84.80	224.15	31.70	11.75	28.70	7.13	4.40	
20	1.75	0.52	3.25	1.27	51.20	86.00	241.15	30.80	10.70	26.60	7.13	6.75	
21	1.75	0.55	3.00	1.43	36.80	87.80	249.70	30.20	10.40	24.80	7.28	9.10	
22	1.70	0.58	2.70	1.38	28.10	94.40	251.60	29.00	12.05	23.60	7.35	9.70	
23	1.70	0.58	2.35	1.43	22.00	146.00	221.60	17.20	13.25	23.00	7.28	9.30	
24	1.65	0.58	2.05	1.48	19.75	188.80	190.40	25.40	14.20	22.50	7.05	9.60	
25	1.65	0.58	2.00	1.45	20.00	198.40	173.75	23.90	17.20	22.75	6.08	10.00	
26	1.65	0.58	1.95	1.38	23.30	150.50	167.75	23.30	25.70	23.00	4.40	9.90	
27	1.65	0.58	1.85	1.33	24.50	126.50	146.00	22.50	81.00	23.30	3.90	9.40	
28	1.60	0.58	1.75	1.27	25.40	116.75	119.35	21.75	110.90	23.00	3.40	8.48	
29	1.55	0.63	1.55	1.22	24.20	152.75	100.40	21.25	110.25	22.75		7.95	
30	1.55	0.67	1.43	1.33	23.30	184.80	88.40	20.25	105.20	21.50		7.50	
31		0.80		2.85	23.00		77.00		98.60	14.80		7.50	
Total	54.90	17.79	88.54	36.14	2631.10	2873.30	5032.50	1219.75	976.90	778.20	238.52	171.98	14119.62 CMSDAY
Mean	1.83	0.57	2.95	1.17	84.87	95.78	162.34	40.66	31.51	25.10	8.52	5.55	38.68 CMS
Max	2.00	0.80	8.40	2.85	254.45	198.40	264.00	75.00	110.90	51.20	12.35	10.00	264.00 CMS
Min	1.55	0.47	0.60	0.52	14.00	22.50	73.50	17.20	10.40	14.80	3.40	2.40	0.47 CMS
Runoff	4.743	1.537	7.650	3.122	227.327	248.253	434.808	105.386	84.404	67.236	20.608	14.859	1219.935 MCM

Momentary Peak 265.00 CMS, at 49.82 M (MSL), at 6.00 Hours, on Oct 2, 1992

Runoff Yield 2.18 Liters/Second/Square KM, Momentary Peak Yield 14.95 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

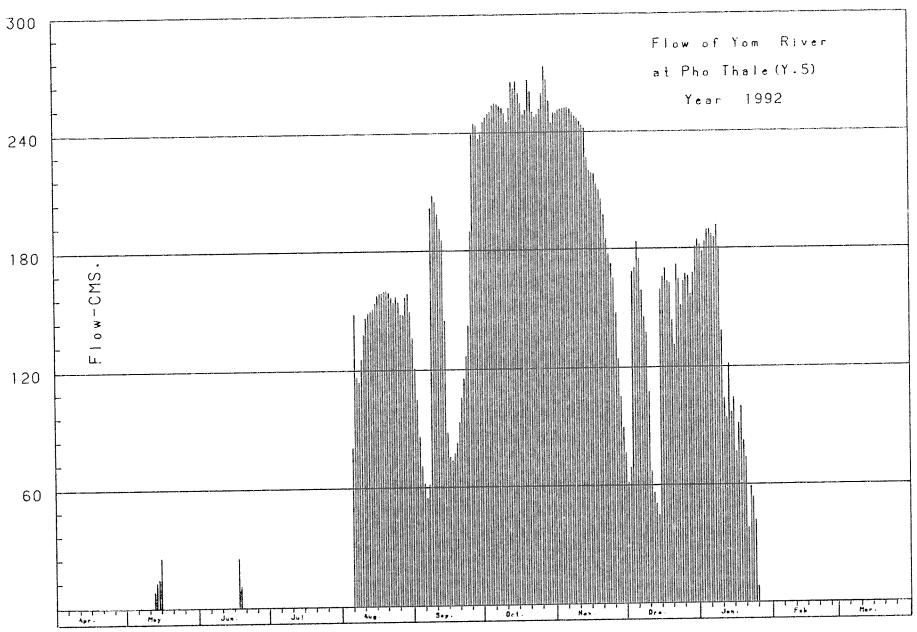
Yom River at Pho Thale, Phichit (Y.5)

Location	Lat. 16°-35'-05" 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	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1951 - 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	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.26	26.06	25.76	23.32	22.51	25.75	27.65	27.71	24.73	26.74	26.11	25.04	
2	25.33	26.07	25.57	22.88	22.57	25.48	27.68	27.73	24.88	26.69	25.98	24.95	
3	25.46	26.04	25.44	22.72	22.62	25.17	27.71	27.74	26.53	26.77	26.02	24.91	
4	25.57	26.00	25.39	22.67	22.76	24.91	27.72	27.74	26.57	26.85	26.07	24.84	
5	25.66	25.96	25.37	22.65	25.08	24.75	27.77	27.75	26.77	26.86	26.11	24.79	
6	25.75	25.90	25.41	22.73	26.21	24.60	27.78	27.75	26.63	26.82	26.14	24.73	
7	25.82	26.02	25.48	22.88	25.67	24.73	27.78	27.74	26.39	26.80	26.17	24.67	
8	25.87	26.10	25.49	22.98	25.63	27.03	27.76	27.71	26.16	26.89	26.17	24.60	
9	25.90	24.34	25.56	23.04	25.83	27.12	27.75	27.69	26.03	26.72	26.01	24.55	
10	25.93	26.17	25.60	23.09	26.04	27.07	27.71	27.67	25.53	26.69	25.98	24.50	
11	25.94	26.19	25.72	23.10	26.17	26.98	27.65	27.65	24.84	26.61	25.97	24.43	
12	25.96	26.24	25.81	22.86	26.21	26.88	27.75	27.62	24.63	26.58	25.92	24.39	
13	25.98	26.26	25.87	22.46	26.23	26.79	27.94	27.60	24.51	26.65	25.88	24.37	
14	25.97	26.27	25.92	22.49	26.24	26.15	27.89	27.38	24.40	26.59	25.82	24.33	
15	25.95	26.32	25.95	22.50	26.30	25.20	27.94	27.29	26.39	26.61	25.74	24.26	
16	25.71	25.82	25.97	22.46	26.36	24.99	27.86	27.27	26.49	26.52	25.70	24.22	
17	25.90	25.61	26.32	22.42	26.38	24.96	27.78	27.27	26.56	26.57	25.65	24.18	
18	25.93	25.73	26.25	22.43	26.38	25.02	27.70	27.19	26.46	26.60	25.60	24.13	
19	25.94	25.87	25.99	22.43	26.40	25.11	27.73	27.15	26.44	26.54	25.56	24.09	
20	25.95	25.79	25.74	22.42	26.40	25.29	27.95	27.08	26.13	26.51	25.52	24.05	
21	25.95	25.68	25.65	22.41	26.39	25.49	27.87	26.97	25.93	26.38	25.45	24.01	
22	25.91	25.65	25.38	22.41	26.35	25.66	27.72	26.79	26.59	26.46	25.42	23.97	
23	25.97	25.60	24.97	22.44	26.30	25.85	27.68	26.67	26.47	26.44	25.38	23.92	
24	26.04	25.56	24.58	22.45	26.35	26.10	27.70	26.60	26.26	26.40	25.33	23.88	
25	26.09	25.62	24.91	22.43	26.31	26.86	27.74	26.48	26.46	26.24	25.28	23.82	
26	26.10	25.61	25.15	22.42	26.20	27.57	27.85	26.20	26.51	26.20	25.22	23.77	
27	26.09	25.69	25.31	22.42	26.20	27.64	28.05	25.81	26.50	26.13	25.15	23.72	
28	26.07	25.78	25.44	22.43	26.34	27.62	27.95	25.49	26.35	26.13	25.09	23.68	
29	26.06	25.86	25.33	22.43	26.38	27.53	27.80	25.23	26.52	26.15		23.63	
30	26.05	25.93	24.01	22.44	26.22	27.56	27.64	25.01	26.73	26.18		23.58	
31		25.89		22.46	26.00		27.71		26.78	26.19		23.53	
Mean	25.87	25.86	25.51	22.62	25.71	26.06	27.78	27.07	26.07	26.53	25.73	24.24	
Max	26.10	26.32	26.32	23.32	26.40	27.64	28.05	27.75	26.78	26.89	26.17	25.04	28.05
Min	25.26	24.34	24.01	22.41	22.51	24.60	27.64	25.01	24.40	26.13	25.09	23.53	22.41

Annual Max Momentary Gage Height 28.05 M (MSL), at 6.00 Hours, on Oct 27, 1992
Zero Gage at Bottom Elevation 22.05 M (MSL), River Bed 20.41 M (MSL)
Left Bank Elevation 30.45 M (MSL)
Right Bank Elevation 29.50 M (MSL), Drainage Area 22344 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	121.00	245.50	249.70	61.50	182.10	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	104.80	247.60	251.10	69.40	178.85	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	86.20	249.70	251.80	168.45	184.05	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	71.05	250.40	251.80	171.05	189.50	0.00	0.00	
5	0.00	0.00	0.00	0.00	80.80	62.50	253.90	252.50	184.05	190.20	0.00	0.00	
6	0.00	0.00	0.00	0.00	148.60	55.00	254.60	252.50	174.95	187.40	0.00	0.00	
7	0.00	0.00	0.00	0.00	116.20	61.50	254.60	251.80	159.40	186.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	113.80	202.10	253.20	249.70	145.60	192.30	0.00	0.00	
9	0.00	0.00	0.00	0.00	125.80	208.40	252.50	248.30	137.80	180.80	0.00	0.00	
10	0.00	0.00	0.00	0.00	138.40	204.90	249.70	246.90	107.80	138.70	0.00	0.00	
11	0.00	0.00	0.00	0.00	146.20	198.60	245.50	245.50	67.20	104.30	0.00	0.00	
12	0.00	8.40	0.00	0.00	148.60	191.60	252.50	243.40	56.50	94.20	0.00	0.00	
13	0.00	12.60	0.00	0.00	149.80	185.35	265.80	242.00	50.50	121.50	0.00	0.00	
14	0.00	14.70	0.00	0.00	150.40	145.00	262.30	226.60	45.00	97.10	0.00	0.00	
15	0.00	25.20	0.00	0.00	154.00	88.00	265.80	220.30	159.40	104.30	0.00	0.00	
16	0.00	0.00	0.00	0.00	157.60	75.45	260.20	218.90	165.85	76.80	0.00	0.00	
17	0.00	0.00	25.20	0.00	158.80	73.80	254.60	218.90	170.40	91.30	0.00	0.00	
18	0.00	0.00	10.50	0.00	158.80	77.20	249.00	213.30	163.90	100.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	160.00	82.60	251.10	210.50	162.60	82.60	0.00	0.00	
20	0.00	0.00	0.00	0.00	160.00	93.40	266.50	205.60	143.80	73.90	0.00	0.00	
21	0.00	0.00	0.00	0.00	159.40	105.40	260.90	197.90	131.80	37.80	0.00	0.00	
22	0.00	0.00	0.00	0.00	157.00	115.60	250.40	185.35	172.35	59.40	0.00	0.00	
23	0.00	0.00	0.00	0.00	154.00	127.00	247.60	177.55	164.55	53.60	0.00	0.00	
24	0.00	0.00	0.00	0.00	157.00	142.00	249.00	173.00	151.60	42.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	154.60	190.20	251.80	165.20	163.90	8.40	0.00	0.00	
26	0.00	0.00	0.00	0.00	148.00	239.90	259.50	148.00	167.15	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	148.00	244.80	273.50	124.60	166.50	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	156.40	243.40	266.50	105.40	157.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	158.80	237.10	256.00	89.80	167.80	0.00		0.00	
30	0.00	0.00	0.00	0.00	149.20	239.20	244.80	76.60	181.45	0.00		0.00	
31		0.00		0.00	136.00		249.70		184.70	0.00		0.00	
Total	0.00	60.90	35.70	0.00	3946.20	4273.05	7894.70	6194.50	4373.95	2957.10	0.00	0.00	29736.10 CMSDAY
Mean	0.00	1.96	1.19	0.00	127.30	142.43	254.67	206.48	141.10	95.39	0.00	0.00	81.47 CMS
Max	0.00	25.20	25.20	0.00	160.00	244.80	273.50	252.50	184.70	192.30	0.00	0.00	273.50 CMS
Min	0.00	0.00	0.00	0.00	0.00	55.00	244.80	76.60	45.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	5.262	3.084	0.000	340.952	369.191	682.102	535.205	377.909	255.493	0.000	0.000	2569.199 MCM

Momentary Peak 273.50 CMS, at 28.05 M (MSL), at 6.00 Hours, on Oct 27, 1992

Runoff Yield 3.65 Liters/Second/Square KM, Momentary Peak Yield 12.24 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

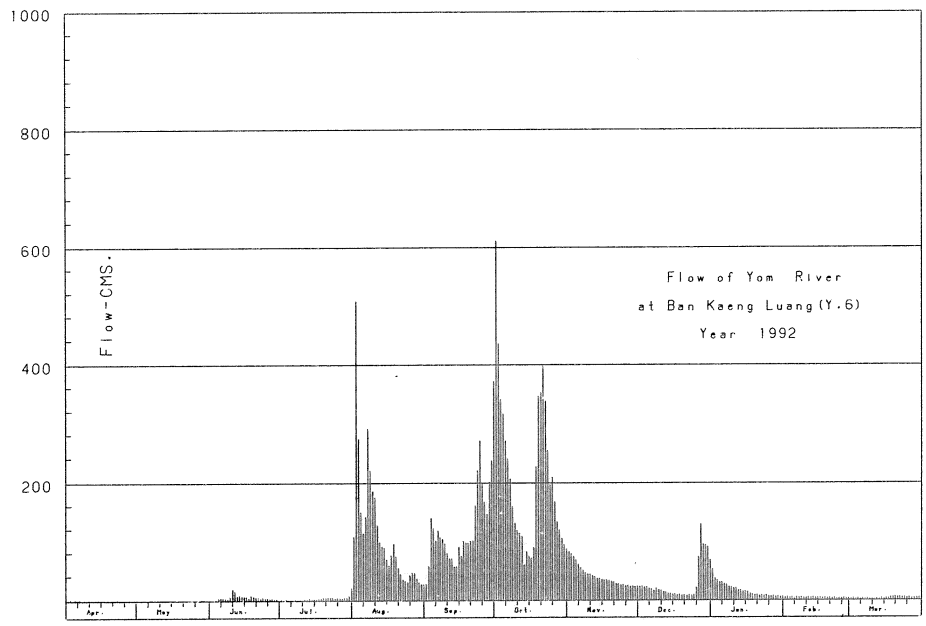
Yom River at Ban Kaeng Luang, Sukhothai (Y.6)

Location	Lat. 17°-26'-03" N., Long. 99°-47'-32" E., on left bank about 150 meters upstream from Kaeng Luang, Amphoe Si Satchanalai, Sukhothai.
Drainage Area	12,658 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+59.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+68.928 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1952 to date.
Rating Operation	
Period of Rating	1952 to date.
Rated by Float	-
Rated by Current Meter	1952 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow diverted for irrigation about 24,000 hectares at above gage site. Stage-discharge relation defined by 50 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	59.24	59.09	59.08	59.22	61.33	60.22	64.30	61.06	60.15	60.69	59.58	59.35	
2	59.23	59.10	59.08	59.22	63.87	60.78	63.55	61.01	60.14	60.44	59.57	59.34	
3	59.22	59.10	59.07	59.22	62.67	61.68	63.05	60.97	60.13	60.36	59.55	59.33	
4	59.21	59.10	59.47	59.22	61.76	61.49	62.92	60.89	60.11	60.31	59.54	59.32	
5	59.21	59.10	59.43	59.18	61.41	61.27	62.65	60.82	60.07	60.29	59.52	59.32	
6	59.20	59.09	59.41	59.16	61.70	61.46	62.45	60.73	60.03	60.25	59.52	59.32	
7	59.21	59.11	59.36	59.15	62.77	61.32	62.21	60.68	59.98	60.20	59.52	59.32	
8	59.19	59.10	59.34	59.16	62.31	61.30	61.84	60.61	60.05	60.15	59.50	59.31	
9	59.18	59.09	59.63	59.22	62.05	61.20	61.60	60.59	60.01	60.11	59.50	59.30	
10	59.17	59.08	60.05	59.17	61.96	61.02	61.45	60.56	59.97	60.09	59.48	59.28	
11	59.17	59.07	59.94	59.22	61.56	60.93	61.40	60.53	59.93	60.06	59.48	59.26	
12	59.17	59.10	59.73	59.27	61.23	60.92	61.35	60.47	59.89	60.00	59.49	59.24	
13	59.16	59.11	59.73	59.33	61.16	60.77	60.81	60.43	59.86	59.97	59.49	59.32	
14	59.16	59.07	59.72	59.31	61.12	60.76	61.05	60.42	59.83	59.94	59.46	59.35	
15	59.15	59.08	59.68	59.29	60.91	61.15	60.97	60.40	59.82	59.92	59.44	59.34	
16	59.15	59.08	59.58	59.30	60.79	60.98	60.93	60.36	59.81	59.90	59.44	59.33	
17	59.15	59.08	59.52	59.29	60.98	61.25	61.14	60.37	59.79	59.86	59.44	59.38	
18	59.15	59.08	59.73	59.39	61.21	61.23	62.36	60.35	59.78	59.80	59.43	59.47	
19	59.14	59.09	59.68	59.47	60.96	61.21	63.08	60.34	59.76	59.79	59.42	59.58	
20	59.16	59.12	59.54	59.48	60.74	61.25	63.12	60.30	59.75	59.76	59.43	59.60	
21	59.13	59.09	59.50	59.51	60.56	61.27	63.36	60.25	59.74	59.73	59.41	59.59	
22	59.14	59.08	59.45	59.55	60.40	61.86	63.04	60.23	59.75	59.72	59.38	59.56	
23	59.11	59.08	59.49	59.46	60.33	62.31	62.54	60.21	59.74	59.73	59.36	59.56	
24	59.11	59.18	59.44	59.43	60.31	62.65	62.13	60.20	59.75	59.72	59.37	59.54	
25	59.10	59.16	59.40	59.43	60.53	62.15	62.22	60.19	60.11	59.69	59.37	59.49	
26	59.10	59.15	59.36	59.43	60.61	61.90	61.91	60.17	60.96	59.67	59.37	59.44	
27	59.09	59.15	59.31	59.41	60.61	61.74	61.62	60.16	61.57	59.66	59.35	59.39	
28	59.08	59.15	59.30	59.42	60.43	62.17	61.46	60.15	61.20	59.64	59.31	59.35	
29	59.09	59.11	59.25	59.57	60.28	62.43	61.31	60.14	61.17	59.63		59.46	
30	59.11	59.10	59.23	59.68	60.24	63.22	61.18	60.14	61.14	59.62		59.43	
31		59.09		60.07	60.21		61.10		60.90	59.61		59.40	
Mean	59.16	59.10	59.48	59.36	61.19	61.46	62.07	60.46	60.16	59.95	59.45	59.40	
Max	59.24	59.18	60.05	60.07	63.87	63.22	64.30	61.06	61.57	60.69	59.58	59.60	64.30
Min	59.08	59.07	59.07	59.15	60.21	60.22	60.81	60.14	59.74	59.61	59.31	59.24	59.07

Annual Max Momentary Gage Height 64.48 M (MSL), at 6.00 Hours, on Oct 1, 1992
Zero Gage at Bottom Elevation 59.00 M (MSL), River Bed 57.69 M (MSL)
Left Bank Elevation 68.86 M (MSL)
Right Bank Elevation 68.86 M (MSL), Drainage Area 12658 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.40	0.90	0.80	2.20	107.70	27.00	612.00	83.40	24.00	52.30	5.80	3.50	
2	2.30	1.00	0.80	2.20	508.80	58.60	437.00	78.90	23.60	38.00	5.70	3.40	
3	2.20	1.00	0.70	2.20	275.20	140.80	341.00	75.30	23.20	34.00	5.50	3.30	
4	2.10	1.00	4.70	2.20	149.60	122.10	317.60	68.10	22.40	31.50	5.40	3.20	
5	2.10	1.00	4.30	1.80	114.90	102.30	272.00	61.80	20.80	30.50	5.20	3.20	
6	2.00	0.90	4.10	1.60	143.00	119.40	240.00	55.10	19.20	28.50	5.20	3.20	
7	2.10	1.10	3.60	1.50	291.20	106.80	207.30	51.60	17.20	26.00	5.20	3.20	
8	1.90	1.00	3.40	1.60	220.30	105.00	159.20	46.70	20.00	24.00	5.00	3.10	
9	1.80	0.90	6.60	2.20	186.50	96.00	132.00	45.50	18.40	22.40	5.00	3.00	
10	1.70	0.80	20.00	1.70	174.80	79.80	118.50	44.00	16.80	21.60	4.80	2.80	
11	1.70	0.70	15.60	2.20	128.40	71.70	114.00	42.50	15.20	20.40	4.80	2.60	
12	1.70	1.00	8.60	2.70	98.70	70.80	109.50	39.50	13.60	18.00	4.90	2.40	
13	1.60	1.10	8.60	3.30	92.40	57.90	60.90	37.50	12.40	16.80	4.90	3.20	
14	1.60	0.70	8.40	3.10	88.80	57.20	82.50	37.00	11.20	15.60	4.60	3.50	
15	1.50	0.80	7.60	2.90	69.90	91.50	75.30	36.00	10.80	14.80	4.40	3.40	
16	1.50	0.80	5.80	3.00	59.30	76.20	71.70	34.00	10.40	14.00	4.40	3.30	
17	1.50	0.80	5.20	2.90	76.20	100.50	90.60	34.50	9.80	12.40	4.40	3.80	
18	1.50	0.80	8.60	3.90	96.90	98.70	226.80	33.50	9.60	10.00	4.30	4.70	
19	1.40	0.90	7.60	4.70	74.40	96.90	346.40	33.00	9.20	9.80	4.20	5.80	
20	1.60	1.20	5.40	4.80	55.80	100.50	353.60	31.00	9.00	9.20	4.30	6.00	
21	1.30	0.90	5.00	5.10	44.00	102.30	396.80	28.50	8.80	8.60	4.10	5.90	
22	1.40	0.80	4.50	5.50	36.00	161.80	339.20	27.50	9.00	8.40	3.80	5.60	
23	1.10	0.80	4.90	4.60	32.50	220.30	254.40	26.50	8.80	8.60	3.60	5.60	
24	1.10	1.80	4.40	4.30	31.50	272.00	196.90	26.00	9.00	8.40	3.70	5.40	
25	1.00	1.60	4.00	4.30	42.50	199.50	208.60	25.60	22.40	7.80	3.70	4.90	
26	1.00	1.50	3.60	4.30	46.70	167.00	168.30	24.80	74.40	7.40	3.70	4.40	
27	0.90	1.50	3.10	4.10	46.70	147.40	134.20	24.40	129.30	7.20	3.50	3.90	
28	0.80	1.50	3.00	4.20	37.50	202.10	119.40	24.00	96.00	6.80	3.10	3.50	
29	0.90	1.10	2.50	5.70	30.00	236.80	105.90	23.60	93.30	6.60		4.60	
30	1.10	1.00	2.30	7.60	28.00	371.60	94.20	23.60	90.60	6.40		4.30	
31		0.90		20.80	26.50		87.00		69.00	6.20		4.00	
Total	46.80	31.80	167.70	123.20	3414.70	3860.50	6472.80	1223.40	927.40	532.20	127.20	122.70	17050.40 CMSDAY
Mean	1.56	1.03	5.59	3.97	110.15	128.68	208.80	40.78	29.92	17.17	4.54	3.96	46.71 CMS
Max	2.40	1.80	20.00	20.80	508.80	371.60	612.00	83.40	129.30	52.30	5.80	6.00	612.00 CMS
Min	0.80	0.70	0.70	1.50	26.50	27.00	60.90	23.60	8.80	6.20	3.10	2.40	0.70 CMS
Runoff	4.044	2.748	14.489	10.644	295.030	333.547	559.250	105.702	80.127	45.982	10.990	10.601	1473.154 MCM

Momentary Peak 656.80 CMS, at 64.48 M (MSL), at 6.00 Hours, on Oct 1, 1992

Runoff Yield 3.69 Liters/Second/Square KM, Momentary Peak Yield 51.89 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

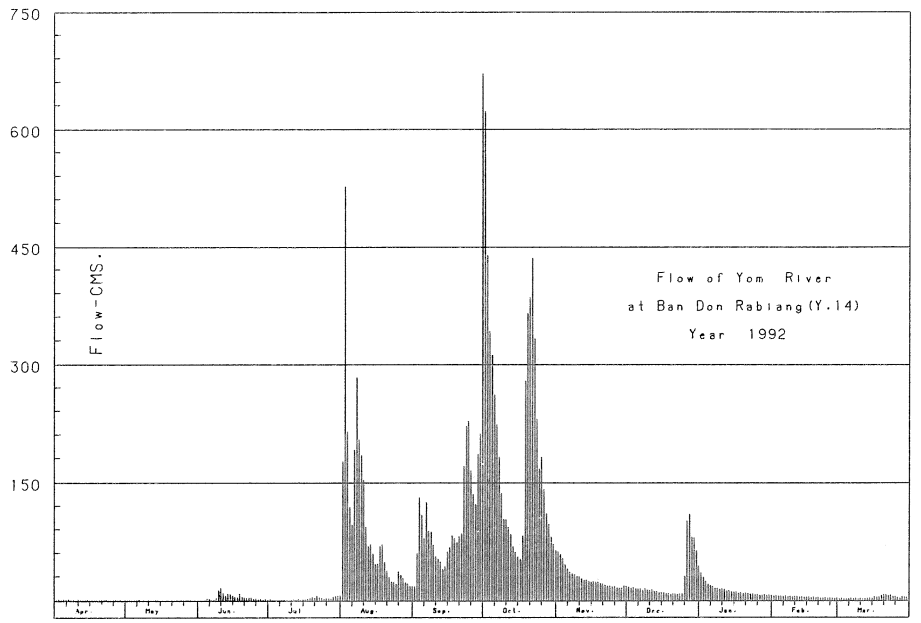
Yom River at Ban Don Rabiang, Sukhothai (Y.14)

Location	Lat. 17°-35'-42" N., Long. 99°-43'-08" E., on left bank about 50 meters from Si Satchanalai-Den Chai Highway No. 101 at guidepost 44 th., Amphoe Si Satchanalai, Sukhothai.
Drainage Area	12,131 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+65.10 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Infront of gage observer's house.
Elevation	+78.363 m. (M.S.L.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1964 to date.
Rating Operation	
Period of Rating	1964 to date.
Rated by Float	-
Rated by Current Meter	1964 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 49 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.49	65.43	65.35	65.46	68.30	66.19	70.97	67.03	66.17	66.58	65.78	65.60	
2	65.49	65.44	65.34	65.44	70.51	67.01	70.06	66.99	66.15	66.48	65.78	65.60	
3	65.48	65.43	65.34	65.44	68.61	67.86	69.49	66.90	66.15	66.34	65.77	65.60	
4	65.48	65.43	65.61	65.43	67.74	67.63	69.30	66.79	66.13	66.28	65.75	65.60	
5	65.47	65.43	65.54	65.42	67.48	67.28	68.96	66.69	66.11	66.24	65.74	65.59	
6	65.47	65.42	65.43	65.42	68.42	67.80	68.68	66.60	66.09	66.19	65.74	65.59	
7	65.47	65.41	65.42	65.43	69.11	67.38	68.35	66.57	66.05	66.14	65.73	65.59	
8	65.47	65.41	65.63	65.44	68.53	67.38	67.91	66.53	66.10	66.11	65.72	65.58	
9	65.47	65.40	66.06	65.43	68.37	67.16	67.57	66.50	66.06	66.10	65.71	65.57	
10	65.47	65.39	66.13	65.44	68.08	66.93	67.55	66.47	66.03	66.09	65.71	65.57	
11	65.46	65.39	65.89	65.49	67.44	66.90	67.44	66.41	66.06	66.07	65.71	65.57	
12	65.46	65.40	65.79	65.54	67.15	66.83	67.34	66.39	66.01	66.03	65.71	65.59	
13	65.46	65.40	65.86	65.50	67.17	66.68	67.14	66.38	65.97	66.02	65.70	65.61	
14	65.46	65.41	65.87	65.48	67.00	66.73	67.02	66.37	65.95	66.00	65.69	65.61	
15	65.45	65.40	65.78	65.48	66.80	67.04	66.93	66.34	65.93	65.98	65.69	65.61	
16	65.45	65.40	65.68	65.48	66.79	67.11	66.90	66.33	65.91	65.95	65.68	65.70	
17	65.46	65.40	65.70	65.54	67.15	67.32	67.31	66.33	65.90	65.92	65.67	65.69	
18	65.47	65.39	65.87	65.63	67.17	67.27	69.08	66.32	65.88	65.91	65.67	65.67	
19	65.47	65.38	65.72	65.67	66.84	67.22	69.63	66.30	65.86	65.90	65.66	65.80	
20	65.46	65.38	65.64	65.65	66.63	67.30	69.75	66.27	65.86	65.89	65.65	65.82	
21	65.45	65.38	65.61	65.74	66.45	67.35	70.04	66.24	65.85	65.88	65.64	65.81	
22	65.45	65.39	65.67	65.67	66.34	68.25	69.44	66.22	65.85	65.87	65.63	65.79	
23	65.44	65.42	65.64	65.62	66.31	68.67	68.73	66.21	65.85	65.86	65.63	65.78	
24	65.43	65.43	65.59	65.59	66.28	68.71	68.22	66.20	65.89	65.85	65.62	65.74	
25	65.42	65.41	65.56	65.60	66.61	68.19	68.34	66.19	66.50	65.83	65.62	65.70	
26	65.41	65.41	65.53	65.60	66.53	67.90	67.96	66.16	67.53	65.82	65.61	65.66	
27	65.41	65.40	65.52	65.61	66.43	67.78	67.65	66.15	67.64	65.81	65.61	65.63	
28	65.42	65.39	65.51	65.68	66.32	68.38	67.48	66.12	67.30	65.81	65.60	65.70	
29	65.42	65.38	65.49	65.75	66.27	68.59	67.30	66.23	67.28	65.80		65.71	
30	65.43	65.37	65.48	65.73	66.22	71.17	67.18	66.20	67.07	65.79		65.65	
31		65.36		65.76	66.19		67.07		66.74	65.79		65.63	
Mean	65.45	65.40	65.64	65.55	67.27	67.60	68.28	66.41	66.25	66.01	65.69	65.66	
Max	65.49	65.44	66.13	65.76	70.51	71.17	70.97	67.03	67.64	66.58	65.78	65.82	71.17
Min	65.41	65.36	65.34	65.42	66.19	66.19	66.90	66.12	65.85	65.79	65.60	65.57	65.34

Annual Max Momentary Gage Height 71.68 M (MSL), at 18.00 Hours, on Sep 30, 1992
Zero Gage at Bottom Elevation 65.10 M (MSL), River Bed 63.01 M (MSL)
Left Bank Elevation 78.17 M (MSL)
Right Bank Elevation 75.35 M (MSL), Drainage Area 12131 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.90	1.30	0.50	1.60	177.50	17.70	623.70	61.95	17.10	35.10	6.60	3.00	
2	1.90	1.40	0.40	1.40	528.00	60.65	440.10	59.35	16.50	30.60	6.60	3.00	
3	1.80	1.30	0.40	1.40	214.35	131.00	342.40	53.50	16.50	24.30	6.40	3.00	
4	1.80	1.30	3.20	1.30	119.60	109.70	313.00	46.45	15.90	21.60	6.00	3.00	
5	1.70	1.30	2.40	1.20	96.80	79.80	262.40	40.95	15.30	19.80	5.80	2.90	
6	1.70	1.20	1.30	1.20	191.40	125.00	223.80	36.00	14.70	17.70	5.80	2.90	
7	1.70	1.10	1.20	1.30	284.50	88.30	183.25	34.65	13.50	16.20	5.60	2.90	
8	1.70	1.10	3.60	1.40	204.60	88.30	136.00	32.85	15.00	15.30	5.40	2.80	
9	1.70	1.00	13.80	1.30	185.55	70.40	104.45	31.50	13.80	15.00	5.20	2.70	
10	1.70	0.90	15.90	1.40	153.40	55.45	102.75	30.15	12.90	14.70	5.20	2.70	
11	1.60	0.90	9.25	1.90	93.40	53.50	93.40	27.45	13.80	14.10	5.20	2.70	
12	1.60	1.00	6.80	2.40	69.75	48.95	84.90	26.55	12.30	12.90	5.20	2.90	
13	1.60	1.00	8.50	2.00	71.05	40.40	69.10	26.10	11.25	12.60	5.00	3.20	
14	1.60	1.10	8.75	1.80	60.00	43.15	61.30	25.65	10.75	12.00	4.80	3.20	
15	1.50	1.00	6.60	1.80	47.00	62.60	55.45	24.30	10.25	11.50	4.80	3.20	
16	1.50	1.00	4.60	1.80	46.45	67.15	53.50	23.85	9.75	10.75	4.60	5.00	
17	1.60	1.00	5.00	2.40	69.75	83.20	82.35	23.85	9.50	10.00	4.40	4.80	
18	1.70	0.90	8.75	3.60	71.05	78.95	280.00	23.40	9.00	9.75	4.40	4.40	
19	1.70	0.80	5.40	4.40	49.60	74.70	365.10	22.50	8.50	9.50	4.20	7.00	
20	1.60	0.80	3.80	4.00	37.65	81.50	385.50	21.15	8.50	9.25	4.00	7.50	
21	1.50	0.80	3.20	5.80	29.25	85.75	436.40	19.80	8.25	9.00	3.80	7.25	
22	1.50	0.90	4.40	4.40	24.30	171.75	334.40	18.90	8.25	8.75	3.60	6.80	
23	1.40	1.20	3.80	3.40	22.95	222.45	230.55	18.45	8.25	8.50	3.60	6.60	
24	1.30	1.30	2.90	2.90	21.60	227.85	168.30	18.00	9.25	8.25	3.40	5.80	
25	1.20	1.10	2.60	3.00	36.55	164.95	182.10	17.70	31.50	7.75	3.40	5.00	
26	1.10	1.10	2.30	3.00	32.85	135.00	141.00	16.80	101.05	7.50	3.20	4.20	
27	1.10	1.00	2.20	3.20	28.35	123.20	111.50	16.50	110.60	7.25	3.20	3.60	
28	1.20	0.90	2.10	4.60	23.40	186.70	96.80	15.60	81.50	7.25	3.00	5.00	
29	1.20	0.80	1.90	6.00	21.15	211.80	81.50	19.35	79.80	7.00		5.20	
30	1.30	0.70	1.80	5.60	18.90	670.80	71.70	18.00	64.55	6.80		4.00	
31		0.60		6.20	17.70		64.55		43.70	6.80		3.60	
Total	46.40	31.80	137.35	87.70	3048.40	3660.65	6181.25	851.25	801.50	407.50	132.40	129.85	15516.05 CMSDAY
Mean	1.55	1.03	4.58	2.83	98.34	122.02	199.40	28.38	25.85	13.15	4.73	4.19	42.51 CMS
Max	1.90	1.40	15.90	6.20	528.00	670.80	623.70	61.95	110.60	35.10	6.60	7.50	670.80 CMS
Min	1.10	0.60	0.40	1.20	17.70	17.70	53.50	15.60	8.25	6.80	3.00	2.70	0.40 CMS
Runoff	4.009	2.748	11.867	7.577	263.382	316.280	534.060	73.548	69.250	35.208	11.439	11.219	1340.587 MCM

Momentary Peak 802.20 CMS, at 71.68 M (MSL), at 18.00 Hours, on Sep 30, 1992

Runoff Yield 3.50 Liters/Second/Square KM, Momentary Peak Yield 66.13 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

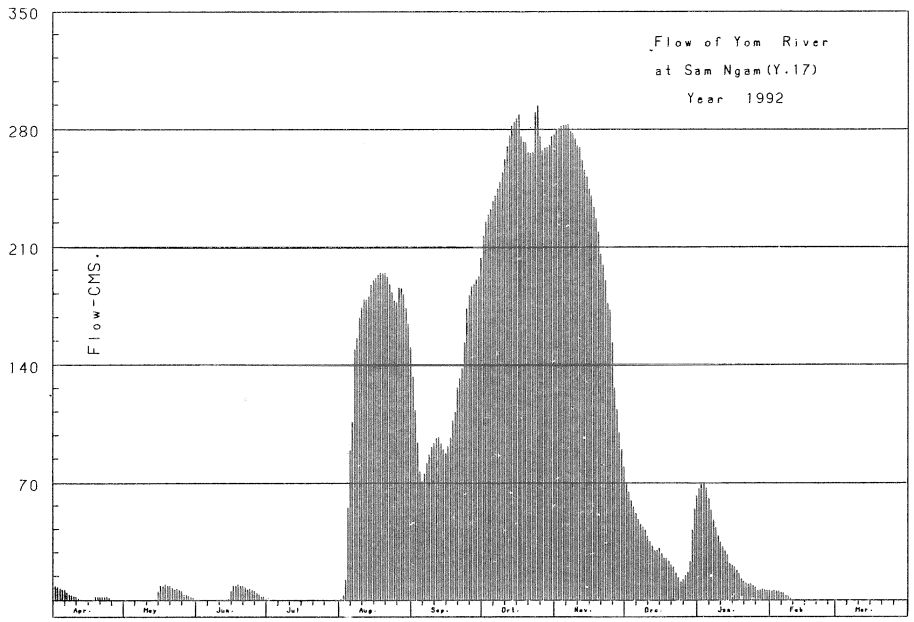
Yom River at Sam Ngam, Phichit (Y.17)

Location	Lat. 16°-30'-50" N., Long. 100°-12'-40" E., on left bank at the bridge on highway, infront of Amphoe Sam Ngam Office, Amphoe Sam Ngam, Phichit.
Drainage Area	21,415 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+31.49 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 50 meters from Amphoe Sam Ngam Office.
Elevation	+37.838 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1967, 1990 to date.
Rated by Float	-
Rated by Current Meter	1967-1980, 1990 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.07	31.56	31.56	31.67	31.63	34.39	35.51	36.22	33.44	33.38	31.93	31.22	
2	32.03	31.51	31.51	31.65	31.81	34.10	35.61	36.23	33.34	33.43	31.93	31.20	
3	32.01	31.47	31.47	31.61	32.20	33.83	35.66	36.24	33.26	33.44	31.93	31.20	
4	31.96	31.46	31.46	31.56	33.19	33.54	35.69	36.25	33.19	33.38	31.93	31.19	
5	31.98	31.44	31.44	31.55	33.76	33.45	35.75	36.25	33.12	33.28	31.89	31.19	
6	31.87	31.48	31.48	31.52	34.00	33.52	35.78	36.25	33.04	33.15	31.85	31.19	
7	31.83	31.50	31.50	31.47	34.62	33.63	35.83	36.21	32.99	33.04	31.80	31.18	
8	31.78	31.50	31.50	31.43	34.71	33.71	35.87	36.19	32.95	32.94	31.75	31.18	
9	31.75	31.55	31.55	31.41	34.89	33.79	35.94	36.16	32.92	32.85	31.69	31.21	
10	31.73	31.59	31.59	31.39	34.97	33.82	36.02	36.11	32.84	32.76	31.65	31.21	
11	31.68	31.62	31.62	31.39	35.04	33.87	36.11	36.10	32.77	32.69	31.59	31.20	
12	31.65	31.63	31.63	31.40	35.03	33.87	36.18	36.02	32.71	32.64	31.56	31.20	
13	31.63	31.61	31.61	31.39	35.06	33.82	36.24	35.95	32.64	32.57	31.53	31.20	
14	31.61	31.66	31.66	31.37	35.14	33.76	36.27	35.91	32.64	32.45	31.53	31.20	
15	31.56	31.92	31.92	31.47	35.18	33.73	36.29	35.83	32.67	32.42	31.53	31.17	
16	31.53	32.06	32.06	31.47	35.19	33.79	36.32	35.78	32.60	32.39	31.54	31.15	
17	31.61	32.07	32.07	31.45	35.22	33.87	36.17	35.71	32.53	32.35	31.54	31.16	
18	31.72	32.09	32.09	31.47	35.23	34.01	36.14	35.63	32.52	32.29	31.51	31.15	
19	31.74	32.07	32.07	31.48	35.23	34.09	36.13	35.54	32.49	32.22	31.46	31.15	
20	31.73	32.05	32.05	31.45	35.23	34.29	36.07	35.37	32.42	32.16	31.42	31.14	
21	31.71	32.02	32.02	31.44	35.20	34.37	36.06	35.29	32.39	32.12	31.40	31.12	
22	31.74	31.98	31.98	31.41	35.15	34.46	36.07	35.18	32.31	32.11	31.32	31.12	
23	31.73	31.98	31.98	31.37	35.09	34.68	36.33	35.01	32.23	32.10	31.29	31.11	
24	31.69	31.96	31.96	31.37	35.03	34.96	36.38	34.95	32.16	32.07	31.27	31.11	
25	31.65	31.91	31.91	31.35	35.01	35.07	36.17	34.68	32.20	32.02	31.24	31.10	
26	31.62	31.86	31.86	31.35	35.12	35.13	36.08	34.29	32.26	31.95	31.24	31.09	
27	31.60	31.81	31.81	31.35	35.12	35.15	36.10	34.11	32.32	31.96	31.23	31.09	
28	31.57	31.75	31.75	31.35	35.07	35.18	36.10	33.91	32.48	31.97	31.23	31.08	
29	31.57	31.73	31.73	31.40	34.97	35.21	36.12	33.77	32.92	31.96		31.07	
30	31.53	31.68	31.68	31.45	34.83	35.34	36.17	33.59	33.17	31.93		31.06	
31		31.61		31.54	34.63		36.19		33.30	31.93		31.06	
Mean	31.73	31.75	31.75	31.45	34.60	34.21	36.04	35.49	32.74	32.51	31.56	31.15	
Max	32.07	32.09	32.09	31.67	35.23	35.34	36.38	36.25	33.44	33.44	31.93	31.22	36.38
Min	31.53	31.44	31.44	31.35	31.63	33.45	35.51	33.59	32.16	31.93	31.23	31.06	31.06

Annual Max Momentary Gage Height 36.39 M (MSL), at 18.00 Hours, on Oct 24, 1992
Zero Gage at Bottom Elevation 31.49 M (MSL), River Bed 30.58 M (MSL)
Left Bank Elevation 39.49 M (MSL)
Right Bank Elevation 38.85 M (MSL), Drainage Area 21415 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.75	0.00	0.00	1.05	0.45	133.30	216.80	279.80	70.40	66.80	5.60	0.00	
2	7.75	0.00	0.00	0.75	3.20	113.00	224.90	280.70	64.40	69.80	5.60	0.00	
3	7.25	0.00	0.00	0.15	12.00	94.10	229.40	281.60	59.60	70.40	5.60	0.00	
4	6.20	0.00	0.00	0.00	55.50	76.40	232.10	282.50	55.50	66.80	5.60	0.00	
5	6.60	0.00	0.00	0.00	89.60	71.00	237.50	282.50	52.00	60.80	4.80	0.00	
6	4.40	0.00	0.00	0.00	106.00	75.20	240.20	282.50	48.00	53.50	4.00	0.00	
7	3.60	0.00	0.00	0.00	149.40	81.80	244.70	278.90	45.50	48.00	3.00	0.00	
8	2.70	0.00	0.00	0.00	155.70	86.60	248.30	277.10	43.50	43.00	2.25	0.00	
9	2.25	0.00	0.00	0.00	168.30	91.40	254.60	274.40	42.00	38.50	1.35	0.00	
10	1.95	0.00	0.00	0.00	173.90	93.40	261.80	269.90	38.00	34.40	0.75	0.00	
11	1.20	0.30	0.30	0.00	179.20	96.90	269.90	269.00	34.80	31.60	0.00	0.00	
12	0.75	0.45	0.45	0.00	178.40	96.90	276.20	261.80	32.40	29.60	0.00	0.00	
13	0.45	0.15	0.15	0.00	180.80	93.40	281.60	255.50	29.60	26.80	0.00	0.00	
14	0.15	0.90	0.90	0.00	187.20	89.60	284.30	251.90	29.60	22.00	0.00	0.00	
15	0.00	5.40	5.40	0.00	190.40	87.80	286.10	244.70	30.80	20.80	0.00	0.00	
16	0.00	8.50	8.50	0.00	191.20	91.40	288.80	240.20	28.00	19.60	0.00	0.00	
17	0.15	8.75	8.75	0.00	193.60	96.90	275.30	233.90	25.20	18.00	0.00	0.00	
18	1.80	9.25	9.25	0.00	194.40	106.70	272.60	226.70	24.80	15.60	0.00	0.00	
19	2.10	8.75	8.75	0.00	194.40	112.30	271.70	219.20	23.60	12.80	0.00	0.00	
20	1.95	8.25	8.25	0.00	194.40	126.30	266.30	205.60	20.80	11.00	0.00	0.00	
21	1.65	7.50	7.50	0.00	192.00	131.90	265.40	199.20	19.60	10.00	0.00	0.00	
22	2.10	6.60	6.60	0.00	188.00	138.20	266.30	190.40	16.40	9.75	0.00	0.00	
23	1.95	6.60	6.60	0.00	183.20	153.60	289.70	176.80	13.20	9.50	0.00	0.00	
24	1.35	6.20	6.20	0.00	178.40	173.20	294.20	172.50	11.00	8.75	0.00	0.00	
25	0.75	5.20	5.20	0.00	176.80	181.60	275.30	153.60	12.00	7.50	0.00	0.00	
26	0.30	4.20	4.20	0.00	185.60	186.40	267.20	126.30	14.40	6.00	0.00	0.00	
27	0.00	3.20	3.20	0.00	185.60	188.00	269.00	113.70	16.80	6.20	0.00	0.00	
28	0.00	2.25	2.25	0.00	181.60	190.40	269.00	99.70	23.20	6.40	0.00	0.00	
29	0.00	1.95	1.95	0.00	173.90	192.80	270.80	90.20	42.00	6.20		0.00	
30	0.00	1.20	1.20	0.00	164.10	203.20	275.30	79.40	54.50	5.60		0.00	
31		0.15		0.00	150.10		277.10		62.00	5.60		0.00	
Total	68.10	95.75	95.60	1.95	4757.35	3653.70	8182.40	6600.20	1083.60	841.30	38.55	0.00	25418.50 CMSDAY
Mean	2.27	3.09	3.19	0.06	153.46	121.79	263.95	220.01	34.95	27.14	1.38	0.00	69.64 CMS
Max	8.75	9.25	9.25	1.05	194.40	203.20	294.20	282.50	70.40	70.40	5.60	0.00	294.20 CMS
Min	0.00	0.00	0.00	0.00	0.45	71.00	216.80	79.40	11.00	5.60	0.00	0.00	0.00 CMS
Runoff	5.884	8.273	8.260	0.168	411.035	315.680	706.959	570.257	93.623	72.688	3.331	0.000	2196.159 MCM

Momentary Peak 295.10 CMS, at 36.39 M (MSL), at 18.00 Hours, on Oct 24, 1992

Runoff Yield 3.25 Liters/Second/Square KM, Momentary Peak Yield 13.78 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

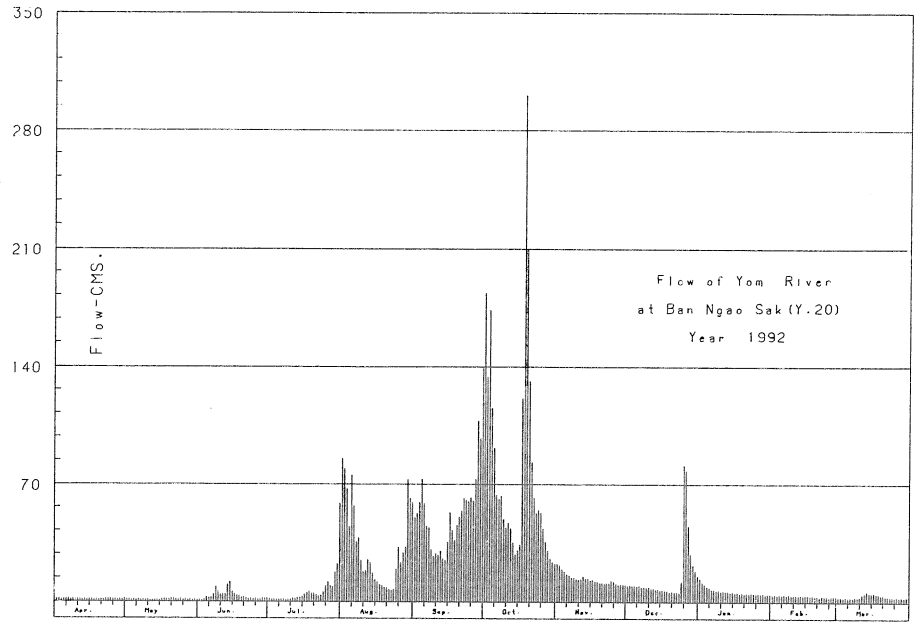
Yom River at Ban Ngao Sak, Phrae (Y.20)

Location	Lat. 18°-35'-03" N., Long. 100°-09'-17" E., on left bank about 1 kilometer downstream from Sop Ngao, Tambon Tao Poon, Amphoe Song, Phrae.
Drainage Area	5,410 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+180.976 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+193.552 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1972 to date.
Rated by Float	-
Rated by Current Meter	1972 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 109 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.42	181.41	181.36	181.42	183.44	182.81	184.73	182.22	181.81	181.95	181.57	181.50	
2	181.42	181.40	181.36	181.41	183.34	182.85	184.14	182.19	181.81	181.89	181.57	181.49	
3	181.42	181.39	181.37	181.40	183.14	182.99	184.62	182.13	181.81	181.83	181.57	181.49	
4	181.42	181.39	181.48	181.40	182.70	183.24	183.88	182.08	181.80	181.79	181.57	181.49	
5	181.42	181.39	181.46	181.40	183.28	182.97	183.54	182.04	181.80	181.76	181.57	181.49	
6	181.42	181.38	181.48	181.39	182.94	182.70	183.07	182.01	181.80	181.73	181.57	181.48	
7	181.41	181.38	181.58	181.39	182.52	182.69	183.03	181.98	181.78	181.71	181.57	181.48	
8	181.41	181.38	181.79	181.38	182.56	182.42	183.06	181.97	181.77	181.70	181.57	181.49	
9	181.41	181.38	181.66	181.38	182.28	182.34	182.79	181.95	181.77	181.69	181.56	181.49	
10	181.41	181.37	181.58	181.42	182.08	182.37	182.68	181.93	181.77	181.68	181.56	181.52	
11	181.41	181.36	181.58	181.43	182.09	182.35	182.74	181.95	181.75	181.67	181.55	181.57	
12	181.40	181.35	181.59	181.44	182.28	182.41	182.68	181.99	181.74	181.67	181.55	181.63	
13	181.40	181.35	181.82	181.46	182.24	182.30	182.51	181.96	181.72	181.66	181.55	181.66	
14	181.40	181.36	181.90	181.49	182.05	182.28	182.36	181.95	181.72	181.65	181.55	181.63	
15	181.40	181.36	181.66	181.53	181.94	182.52	182.42	181.93	181.71	181.65	181.55	181.61	
16	181.40	181.40	181.58	181.57	181.88	182.87	182.48	181.93	181.70	181.64	181.55	181.62	
17	181.39	181.43	181.55	181.64	181.84	182.65	183.96	181.91	181.69	181.63	181.54	181.61	
18	181.39	181.40	181.52	181.66	181.80	182.53	185.91	181.89	181.68	181.62	181.54	181.59	
19	181.39	181.41	181.49	181.62	181.77	182.72	185.00	181.88	181.66	181.62	181.53	181.56	
20	181.39	181.43	181.48	181.60	181.75	182.81	184.11	181.86	181.66	181.61	181.52	181.55	
21	181.40	181.42	181.45	181.56	181.72	182.88	183.41	181.86	181.65	181.61	181.50	181.53	
22	181.41	181.41	181.43	181.53	181.70	183.04	183.04	181.86	181.64	181.62	181.52	181.51	
23	181.42	181.40	181.43	181.54	181.71	183.01	182.86	181.87	181.64	181.61	181.53	181.51	
24	181.42	181.41	181.43	181.66	182.13	183.00	182.89	181.91	181.89	181.62	181.51	181.50	
25	181.41	181.40	181.42	181.79	182.45	183.04	182.87	181.90	183.38	181.61	181.50	181.49	
26	181.40	181.40	181.41	181.88	182.23	183.01	182.67	181.84	183.32	181.60	181.51	181.49	
27	181.40	181.38	181.41	181.81	132.39	183.24	182.52	181.83	182.71	181.60	181.53	181.49	
28	181.39	181.38	181.44	181.77	182.46	183.77	182.41	181.83	182.36	181.60	181.51	181.48	
29	181.41	181.38	181.45	182.08	183.23	183.62	182.31	181.84	182.20	181.58		181.48	
30	181.43	181.38	181.43	182.21	183.04	184.23	182.24	181.82	182.09	181.58		181.48	
31		181.38		182.97	182.98		182.21		182.01	181.58		181.48	
Mean	181.41	181.39	181.52	181.62	182.39	182.86	183.20	181.94	181.93	181.67	181.54	181.53	
Max	181.43	181.43	181.90	182.97	183.44	184.23	185.91	182.22	183.38	181.95	181.57	181.66	185.91
Min	181.39	181.35	181.36	181.38	181.70	182.28	182.21	181.82	181.64	181.58	181.50	181.48	181.35

Annual Max Momentary Gage Height 186.23 M (MSL), at 6.00 Hours, on Oct 18, 1992
Zero Gage at Bottom Elevation 180.98 M (MSL), River Bed 179.60 M (MSL)
Left Bank Elevation 193.51 M (MSL)
Right Bank Elevation 193.60 M (MSL), Drainage Area 5410 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	1.65	1.14	1.80	85.60	50.50	183.70	22.88	9.86	13.80	4.33	3.00	
2	1.80	1.50	1.14	1.65	79.40	52.50	133.80	21.86	9.86	11.94	4.33	2.85	
3	1.80	1.41	1.23	1.50	67.40	59.50	173.80	19.82	9.86	10.38	4.33	2.85	
4	1.80	1.41	2.70	1.50	45.00	73.40	115.60	18.12	9.60	9.34	4.33	2.85	
5	1.80	1.41	2.40	1.50	75.80	58.50	92.10	16.76	9.60	8.56	4.33	2.85	
6	1.80	1.32	2.70	1.41	57.00	45.00	63.50	15.74	9.60	7.78	4.33	2.70	
7	1.65	1.32	4.52	1.41	36.00	44.50	61.50	14.76	9.08	7.26	4.33	2.70	
8	1.65	1.32	9.34	1.32	38.00	31.00	63.00	14.44	8.82	7.00	4.33	2.85	
9	1.65	1.32	6.16	1.32	24.92	27.36	49.50	13.80	8.82	6.79	4.14	2.85	
10	1.65	1.23	4.52	1.80	18.12	28.68	44.00	13.16	8.82	6.58	4.14	3.38	
11	1.65	1.14	4.52	1.95	18.46	27.80	47.00	13.80	8.30	6.37	3.95	4.33	
12	1.50	1.05	4.71	2.10	24.92	30.50	44.00	15.08	8.04	6.37	3.95	5.53	
13	1.50	1.05	10.12	2.40	23.56	25.60	35.50	14.12	7.52	6.16	3.95	6.16	
14	1.50	1.14	12.20	2.85	17.10	24.92	28.24	13.80	7.52	5.95	3.95	5.53	
15	1.50	1.14	6.16	3.57	13.48	36.00	31.00	13.16	7.26	5.95	3.95	5.11	
16	1.50	1.50	4.52	4.33	11.68	53.50	34.00	13.16	7.00	5.74	3.95	5.32	
17	1.41	1.95	3.95	5.74	10.64	42.50	121.20	12.52	6.79	5.53	3.76	5.11	
18	1.41	1.50	3.38	6.16	9.60	36.50	301.10	11.94	6.58	5.32	3.76	4.71	
19	1.41	1.65	2.85	5.32	8.82	46.00	209.00	11.68	6.16	5.32	3.57	4.14	
20	1.41	1.95	2.70	4.90	8.30	50.50	131.70	11.16	6.16	5.11	3.38	3.95	
21	1.50	1.80	2.25	4.14	7.52	54.00	83.65	11.16	5.95	5.11	3.00	3.57	
22	1.65	1.65	1.95	3.57	7.00	62.00	62.00	11.16	5.74	5.32	3.38	3.19	
23	1.80	1.50	1.95	3.76	7.26	60.50	53.00	11.42	5.74	5.11	3.57	3.19	
24	1.80	1.65	1.95	6.16	19.82	60.00	54.50	12.52	11.94	5.32	3.19	3.00	
25	1.65	1.50	1.80	9.34	32.50	62.00	53.50	12.20	81.80	5.11	3.00	2.85	
26	1.50	1.50	1.65	11.68	23.22	60.50	43.50	10.64	78.20	4.90	3.19	2.85	
27	1.50	1.32	1.65	9.86	29.56	73.40	36.00	10.38	45.50	4.90	3.57	2.85	
28	1.41	1.32	2.10	8.82	33.00	107.90	30.50	10.38	28.24	4.90	3.19	2.70	
29	1.65	1.32	2.25	18.12	72.80	97.40	26.04	10.64	22.20	4.52		2.70	
30	1.95	1.32	1.95	22.54	62.00	140.40	23.56	10.12	18.46	4.52		2.70	
31		1.32		58.50	59.00		22.54		15.74	4.52		2.70	
Total	48.60	44.16	110.46	211.02	1027.48	1622.86	2452.03	412.38	484.76	201.48	107.18	111.07	6833.48 CMSDAY
Mean	1.62	1.42	3.68	6.81	33.14	54.10	79.10	13.75	15.64	6.50	3.83	3.58	18.72 CMS
Max	1.95	1.95	12.20	58.50	85.60	140.40	301.10	22.88	81.80	13.80	4.33	6.16	301.10 CMS
Min	1.41	1.05	1.14	1.32	7.00	24.92	22.54	10.12	5.74	4.52	3.00	2.70	1.05 CMS
Runoff	4.199	3.815	9.544	18.232	88.774	140.215	211.855	35.630	41.883	17.408	9.260	9.596	590.413 MCM

Momentary Peak 336.30 CMS at 186.23 M (MSL), at 6.00 Hours, on Oct 18, 1992
Runoff Yield 3.46 Liters/Second/Square KM, Momentary Peak Yield 62.16 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

Huai Mae Sin at Ban Na Pak Rang, Phrae (Y.21)

Location — Lat. 17°-47'-29" N., Long. 99°-47'-25" E., on left bank at the bridge on road near Wat Amorn Tham, Tambon Na Phun, Amphoe Wang Chin, Phrae.

Drainage Area — 306 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On left bank near the top staff gage.

Elevation — +5.063 m.(A.D.)

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

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

Period of Available Gage Records — 1972 to date.

Rating Operation

Period of Rating — 1991 to date.

Rated by Float — -

Rated by Current Meter — 1991 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — Overbank flow starts at elevation + 1.55 m.(A.D.) and is included.

General Description — Records good. Stage-discharge relation defined by 56 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

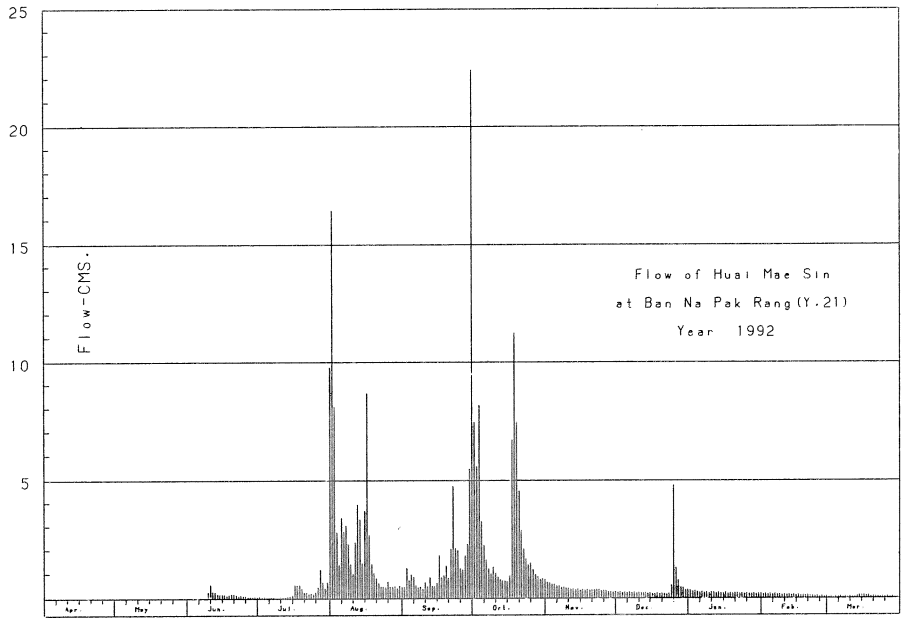
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.00	0.00	0.20	2.54	0.48	1.73	0.56	0.35	0.41	0.29	0.20	
2	0.17	0.00	0.00	0.20	1.81	0.75	1.50	0.54	0.35	0.40	0.29	0.20	
3	0.16	0.00	0.00	0.19	1.06	0.59	1.82	0.53	0.34	0.39	0.29	0.20	
4	0.16	0.00	0.00	0.19	0.78	0.66	1.14	0.52	0.34	0.38	0.29	0.20	
5	0.15	0.00	0.00	0.18	1.17	0.64	0.95	0.51	0.34	0.36	0.28	0.20	
6	0.15	0.00	0.00	0.18	1.06	0.51	0.82	0.50	0.34	0.36	0.28	0.20	
7	0.14	0.00	0.00	0.17	1.11	0.48	0.74	0.48	0.34	0.35	0.28	0.20	
8	0.12	0.00	0.00	0.17	0.96	0.48	0.68	0.47	0.34	0.35	0.27	0.20	
9	0.11	0.00	0.38	0.18	0.78	0.45	0.75	0.47	0.33	0.34	0.27	0.20	
10	0.10	0.00	0.53	0.22	0.68	0.55	0.68	0.45	0.33	0.34	0.27	0.20	
11	0.08	0.00	0.37	0.19	0.97	0.49	0.64	0.44	0.33	0.34	0.27	0.20	
12	0.06	0.00	0.35	0.19	1.26	0.63	0.60	0.43	0.33	0.33	0.26	0.20	
13	0.04	0.00	0.31	0.19	1.16	0.51	0.57	0.43	0.32	0.33	0.26	0.23	
14	0.06	0.00	0.27	0.20	0.79	0.49	0.58	0.43	0.32	0.33	0.26	0.24	
15	0.00	0.00	0.30	0.26	1.22	0.55	0.56	0.42	0.32	0.33	0.25	0.25	
16	0.00	0.00	0.27	0.52	1.87	0.86	0.64	0.42	0.31	0.33	0.25	0.24	
17	0.00	0.00	0.26	0.51	1.03	0.62	1.64	0.42	0.31	0.32	0.25	0.24	
18	0.00	0.00	0.26	0.52	0.79	0.66	2.12	0.42	0.31	0.32	0.24	0.23	
19	0.00	0.00	0.32	0.44	0.68	0.77	1.74	0.42	0.31	0.32	0.24	0.22	
20	0.00	0.00	0.28	0.37	0.61	0.61	1.35	0.41	0.31	0.32	0.24	0.22	
21	0.00	0.00	0.26	0.33	0.55	0.92	1.07	0.43	0.31	0.32	0.23	0.22	
22	0.00	0.00	0.24	0.31	0.50	1.38	0.92	0.44	0.30	0.32	0.23	0.21	
23	0.00	0.00	0.24	0.30	0.48	0.92	0.83	0.42	0.30	0.31	0.23	0.20	
24	0.00	0.00	0.24	0.29	0.48	0.90	0.78	0.41	0.52	0.31	0.22	0.20	
25	0.00	0.00	0.22	0.34	0.56	0.74	0.79	0.40	1.38	0.31	0.22	0.20	
26	0.00	0.00	0.21	0.48	0.48	0.72	0.73	0.39	0.75	0.31	0.21	0.20	
27	0.00	0.00	0.21	0.73	0.50	0.86	0.67	0.38	0.58	0.31	0.21	0.20	
28	0.00	0.00	0.21	0.55	0.49	0.96	0.63	0.36	0.49	0.30	0.20	0.20	
29	0.00	0.00	0.20	0.46	0.46	1.48	0.60	0.36	0.46	0.30		0.19	
30	0.00	0.00	0.19	0.55	0.50	2.91	0.60	0.35	0.43	0.30		0.19	
31		0.00		1.98	0.49		0.59		0.42	0.30		0.19	
Mean	0.06	0.00	0.20	0.37	0.90	0.79	0.95	0.44	0.40	0.33	0.25	0.21	
Max	0.17	0.00	0.53	1.98	2.54	2.91	2.12	0.56	1.38	0.41	0.29	0.25	2.91
Min	0.00	0.00	0.00	0.17	0.46	0.45	0.56	0.35	0.30	0.30	0.20	0.19	0.00

Annual Max Momentary Gage Height — 3.21 M (A.D), at 7.00 Hours, on Sep 30, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.04 M (A.D)

Left Bank Elevation — 1.54 M (A.D)

Right Bank Elevation — 4.89 M (A.D), Drainage Area — 306 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.00	0.00	0.06	16.46	0.46	7.44	0.68	0.24	0.32	0.17	0.06	
2	0.02	0.00	0.00	0.06	8.10	1.30	5.60	0.62	0.24	0.30	0.17	0.06	
3	0.01	0.00	0.00	0.05	2.80	0.77	8.20	0.59	0.23	0.29	0.17	0.06	
4	0.01	0.00	0.00	0.05	1.42	0.98	3.24	0.56	0.23	0.28	0.17	0.06	
5	0.00	0.00	0.00	0.04	3.42	0.92	2.25	0.53	0.23	0.25	0.16	0.06	
6	0.00	0.00	0.00	0.04	2.80	0.53	1.60	0.50	0.23	0.25	0.16	0.06	
7	0.00	0.00	0.00	0.02	3.06	0.46	1.26	0.46	0.23	0.24	0.16	0.06	
8	0.00	0.00	0.00	0.02	2.30	0.46	1.04	0.44	0.23	0.24	0.14	0.06	
9	0.00	0.00	0.28	0.04	1.42	0.40	1.30	0.44	0.22	0.23	0.14	0.06	
10	0.00	0.00	0.59	0.08	1.04	0.65	1.04	0.40	0.22	0.23	0.14	0.06	
11	0.00	0.00	0.26	0.05	2.35	0.48	0.92	0.38	0.22	0.23	0.14	0.06	
12	0.00	0.00	0.24	0.05	3.96	0.89	0.80	0.36	0.22	0.22	0.13	0.06	
13	0.00	0.00	0.19	0.05	3.36	0.53	0.71	0.36	0.20	0.22	0.13	0.10	
14	0.00	0.00	0.14	0.06	1.46	0.48	0.74	0.36	0.20	0.22	0.13	0.11	
15	0.00	0.00	0.18	0.13	3.72	0.65	0.68	0.34	0.20	0.22	0.12	0.12	
16	0.00	0.00	0.14	0.56	8.70	1.80	0.92	0.34	0.19	0.22	0.12	0.11	
17	0.00	0.00	0.13	0.53	2.65	0.86	6.72	0.34	0.19	0.20	0.12	0.11	
18	0.00	0.00	0.13	0.56	1.46	0.98	11.22	0.34	0.19	0.20	0.11	0.10	
19	0.00	0.00	0.20	0.38	1.04	1.38	7.52	0.34	0.19	0.20	0.11	0.08	
20	0.00	0.00	0.16	0.26	0.83	0.83	4.55	0.32	0.19	0.20	0.11	0.08	
21	0.00	0.00	0.13	0.22	0.65	2.10	2.85	0.36	0.19	0.20	0.10	0.08	
22	0.00	0.00	0.11	0.19	0.50	4.76	2.10	0.38	0.18	0.20	0.10	0.07	
23	0.00	0.00	0.11	0.18	0.46	2.10	1.65	0.34	0.18	0.19	0.10	0.06	
24	0.00	0.00	0.11	0.17	0.46	2.00	1.42	0.32	0.56	0.19	0.08	0.06	
25	0.00	0.00	0.08	0.23	0.68	1.26	1.46	0.30	4.76	0.19	0.08	0.06	
26	0.00	0.00	0.07	0.46	0.46	1.18	1.22	0.29	1.30	0.19	0.07	0.06	
27	0.00	0.00	0.07	1.22	0.50	1.80	1.01	0.28	0.74	0.19	0.07	0.06	
28	0.00	0.00	0.07	0.65	0.48	2.30	0.89	0.25	0.48	0.18	0.06	0.06	
29	0.00	0.00	0.06	0.42	0.42	5.46	0.80	0.25	0.42	0.18		0.05	
30	0.00	0.00	0.05	0.65	0.50	22.39	0.80	0.24	0.36	0.18		0.05	
31		0.00		9.80	0.48		0.77		0.34	0.18		0.05	
Total	0.06	0.00	3.50	17.28	77.94	61.16	82.72	11.71	13.80	6.83	3.46	2.19	280.65 CMSDAY
Mean	0.00	0.00	0.12	0.56	2.51	2.04	2.67	0.39	0.45	0.22	0.12	0.07	0.77 CMS
Max	0.02	0.00	0.59	9.80	16.46	22.39	11.22	0.68	4.76	0.32	0.17	0.12	22.39 CMS
Min	0.00	0.00	0.00	0.02	0.42	0.40	0.68	0.24	0.18	0.18	0.06	0.05	0.00 CMS
Runoff	0.005	0.000	0.302	1.493	6.734	5.284	7.147	1.012	1.192	0.590	0.299	0.189	24.248 MCM

Momentary Peak 29.17 CMS, at 3.21 M (A.D), at 7.00 Hours, on Sep 30, 1992
Runoff Yield 2.51 Liters/Second/Square KM, Momentary Peak Yield 95.33 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

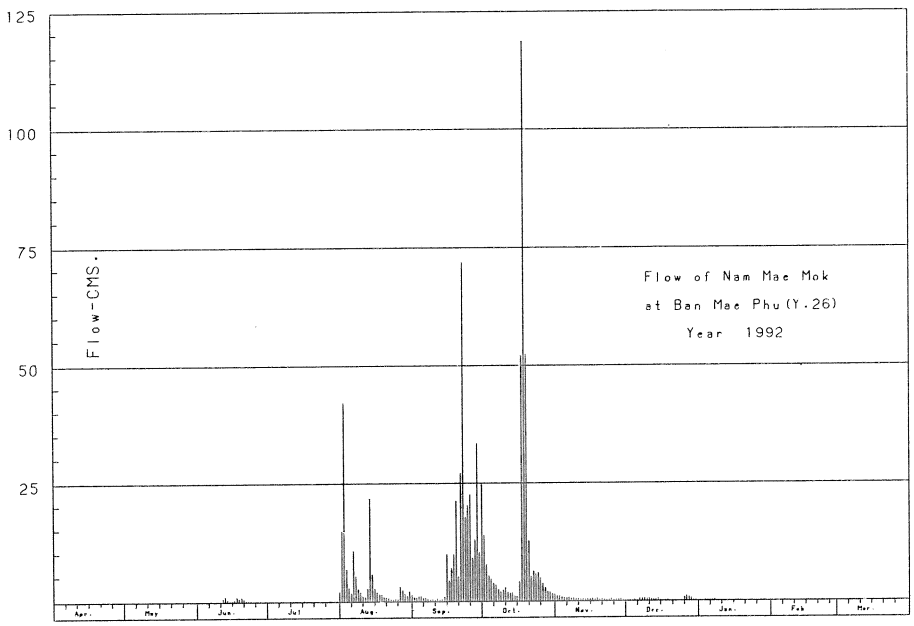
Nam Mae Mok at Ban Mae Phu, Lampang (Y.26)

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	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank along the gage line.
Elevation	+8.00 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 10 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	0.11	0.01	0.66	1.92	0.96	1.88	1.02	0.78	0.80	0.67	0.59	
2	0.26	0.11	-0.03	0.66	2.70	0.91	1.59	0.99	0.77	0.79	0.67	0.58	
3	0.26	0.11	-0.04	0.65	1.54	1.01	1.45	0.96	0.78	0.77	0.67	0.58	
4	0.26	0.11	-0.05	0.63	1.23	0.98	1.40	0.93	0.77	0.76	0.67	0.57	
5	0.24	0.11	0.02	0.63	1.11	0.92	1.33	0.92	0.77	0.76	0.67	0.57	
6	0.15	0.10	0.02	0.62	1.74	0.89	1.28	0.90	0.86	0.76	0.67	0.56	
7	0.14	0.10	0.02	0.62	1.44	0.85	1.21	0.89	0.88	0.79	0.66	0.56	
8	0.16	0.09	0.02	0.61	1.22	0.84	1.12	0.87	0.87	0.81	0.65	0.55	
9	0.18	0.09	0.81	0.62	1.11	0.82	1.20	0.86	0.86	0.82	0.65	0.54	
10	0.18	0.08	0.70	0.62	1.00	0.83	1.23	0.85	0.85	0.81	0.65	0.54	
11	0.19	0.08	0.91	0.61	0.98	0.86	1.13	0.85	0.85	0.80	0.65	0.53	
12	0.19	0.08	0.98	0.61	1.23	0.83	1.10	0.83	0.84	0.79	0.65	0.52	
13	0.19	0.07	0.83	0.60	2.17	0.82	1.09	0.84	0.84	0.78	0.65	0.52	
14	0.18	0.07	0.80	0.60	1.47	0.99	1.01	0.84	0.85	0.76	0.64	0.52	
15	0.16	0.06	0.80	0.61	1.23	1.71	0.97	0.85	0.83	0.73	0.64	0.51	
16	0.08	0.08	0.85	0.62	1.11	1.38	1.36	0.85	0.81	0.70	0.65	0.50	
17	0.06	0.07	1.00	0.59	1.07	1.54	2.92	0.85	0.78	0.70	0.63	0.50	
18	0.08	0.07	0.88	0.59	1.04	1.70	3.94	0.87	0.77	0.70	0.63	0.50	
19	0.10	0.06	0.98	0.66	0.98	2.15	2.92	0.85	0.74	0.70	0.61	0.49	
20	0.11	0.06	0.85	0.64	0.92	1.43	1.84	0.84	0.67	0.69	0.61	0.49	
21	0.11	0.06	0.79	0.63	0.88	2.32	1.43	0.85	0.67	0.69	0.61	0.49	
22	0.06	0.06	0.76	0.61	0.86	3.29	1.51	0.83	0.67	0.70	0.61	0.48	
23	0.01	0.05	0.74	0.58	0.84	2.03	1.46	0.83	0.66	0.70	0.61	0.47	
24	0.00	0.04	0.72	0.56	0.84	2.11	1.49	0.84	0.71	0.69	0.60	0.47	
25	0.02	0.03	0.72	0.55	0.86	2.19	1.41	0.83	0.94	0.69	0.59	0.47	
26	0.03	0.03	0.71	0.58	1.25	1.67	1.31	0.85	1.04	0.68	0.60	0.46	
27	0.05	0.03	0.70	0.60	1.19	1.85	1.24	0.84	0.95	0.68	0.59	0.46	
28	0.07	0.02	0.70	0.60	1.07	2.49	1.15	0.83	0.87	0.68	0.59	0.46	
29	0.08	0.02	0.71	0.61	1.02	1.72	1.11	0.82	0.81	0.68		0.45	
30	0.11	0.01	0.72	0.66	1.14	2.26	1.08	0.80	0.79	0.68		0.45	
31		0.01		1.18	1.03		1.04		0.80	0.67		0.45	
Mean	0.13	0.07	0.59	0.63	1.23	1.48	1.49	0.87	0.81	0.73	0.64	0.51	
Max	0.26	0.11	1.00	1.18	2.70	3.29	3.94	1.02	1.04	0.82	0.67	0.59	3.94
Min	0.00	0.01	-0.05	0.55	0.84	0.82	0.97	0.80	0.66	0.67	0.59	0.45	-0.05

Annual Max Momentary Gage Height 4.03 M (A.D), at 6.00 Hours, on Sep 22, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.27 M (A.D)
Left Bank Elevation 7.37 M (A.D)
Right Bank Elevation 7.89 M (A.D), Drainage Area 785 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.06	14.92	0.84	13.88	1.14	0.18	0.20	0.07	0.00	
2	0.00	0.00	0.00	0.06	42.10	0.64	7.64	0.96	0.17	0.19	0.07	0.00	
3	0.00	0.00	0.00	0.05	6.84	1.07	5.40	0.84	0.18	0.17	0.07	0.00	
4	0.00	0.00	0.00	0.03	2.73	0.92	4.60	0.72	0.17	0.16	0.07	0.00	
5	0.00	0.00	0.00	0.03	1.77	0.68	3.83	0.68	0.17	0.16	0.07	0.00	
6	0.00	0.00	0.00	0.02	10.60	0.56	3.28	0.60	0.44	0.16	0.07	0.00	
7	0.00	0.00	0.00	0.02	5.24	0.40	2.51	0.56	0.52	0.19	0.06	0.00	
8	0.00	0.00	0.00	0.01	2.62	0.36	1.84	0.48	0.48	0.24	0.05	0.00	
9	0.00	0.00	0.24	0.02	1.77	0.28	2.40	0.44	0.44	0.28	0.05	0.00	
10	0.00	0.00	0.10	0.02	1.00	0.32	2.73	0.40	0.40	0.24	0.05	0.00	
11	0.00	0.00	0.64	0.01	0.92	0.44	1.91	0.40	0.40	0.20	0.05	0.00	
12	0.00	0.00	0.92	0.01	2.73	0.32	1.70	0.32	0.36	0.19	0.05	0.00	
13	0.00	0.00	0.32	0.00	21.93	0.28	1.63	0.36	0.36	0.18	0.05	0.00	
14	0.00	0.00	0.20	0.00	5.72	0.96	1.07	0.36	0.40	0.16	0.04	0.00	
15	0.00	0.00	0.20	0.01	2.73	10.00	0.88	0.40	0.32	0.13	0.04	0.00	
16	0.00	0.00	0.40	0.02	1.77	4.38	4.16	0.40	0.24	0.10	0.05	0.00	
17	0.00	0.00	1.00	0.00	1.49	6.84	52.20	0.40	0.18	0.10	0.03	0.00	
18	0.00	0.00	0.52	0.00	1.28	9.80	118.70	0.48	0.17	0.10	0.03	0.00	
19	0.00	0.00	0.92	0.06	0.92	21.35	52.20	0.40	0.14	0.10	0.01	0.00	
20	0.00	0.00	0.40	0.04	0.68	5.08	12.84	0.36	0.07	0.09	0.01	0.00	
21	0.00	0.00	0.19	0.03	0.52	27.12	5.08	0.40	0.07	0.09	0.01	0.00	
22	0.00	0.00	0.16	0.01	0.44	71.90	6.36	0.32	0.07	0.10	0.01	0.00	
23	0.00	0.00	0.14	0.00	0.36	17.87	5.56	0.32	0.06	0.10	0.01	0.00	
24	0.00	0.00	0.12	0.00	0.36	20.19	6.04	0.36	0.11	0.09	0.00	0.00	
25	0.00	0.00	0.12	0.00	0.44	22.51	4.76	0.32	0.76	0.09	0.00	0.00	
26	0.00	0.00	0.11	0.00	2.95	9.20	3.61	0.40	1.28	0.08	0.00	0.00	
27	0.00	0.00	0.10	0.00	2.33	13.10	2.84	0.36	0.80	0.08	0.00	0.00	
28	0.00	0.00	0.10	0.00	1.49	33.60	2.05	0.32	0.48	0.08	0.00	0.00	
29	0.00	0.00	0.11	0.01	1.14	10.20	1.77	0.28	0.24	0.08		0.00	
30	0.00	0.00	0.12	0.06	1.98	24.96	1.56	0.20	0.19	0.08		0.00	
31		0.00		2.26	1.21		1.28		0.20	0.07		0.00	
Total	0.00	0.00	7.13	2.84	142.98	316.17	336.31	13.98	10.05	4.28	1.02	0.00	834.76 CMSDAY
Mean	0.00	0.00	0.24	0.09	4.61	10.54	10.85	0.47	0.32	0.14	0.04	0.00	2.29 CMS
Max	0.00	0.00	1.00	2.26	42.10	71.90	118.70	1.14	1.28	0.28	0.07	0.00	118.70 CMS
Min	0.00	0.00	0.00	0.00	0.36	0.28	0.88	0.20	0.06	0.07	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.616	0.245	12.353	27.317	29.057	1.208	0.868	0.370	0.088	0.000	72.123 MCM

Momentary Peak 125.90 CMS, at 4.03 M (A.D), at 6.00 Hours, on Sep 22, 1992
Runoff Yield 2.91 Liters/Second/Square KM, Momentary Peak Yield 160.38 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

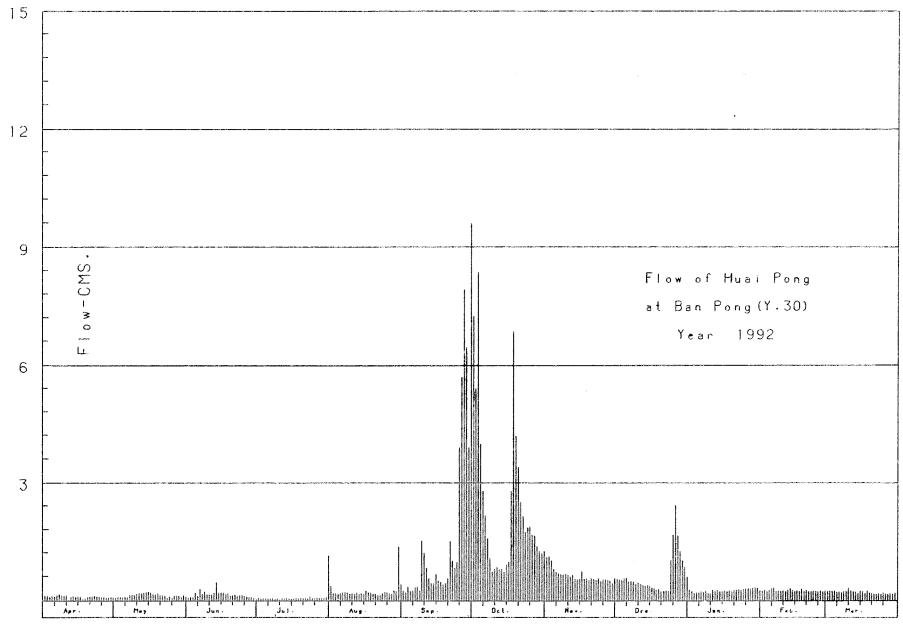
Huai Pong at Ban Pong, Lampang (Y.30)

Location	Lat. 18°-42′-59″ N., Long. 99°-57′-40″ E., on right bank at the bridge on highway, Tambon Mae Pong, Amphoe Ngao, Lampang.
Drainage Area	96 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 25 meters from the top staff gage.
Elevation	+6.62 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1983 to date.
Rated by Float	-
Rated by Current Meter	1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.53	0.49	0.50	0.49	0.65	0.60	1.56	0.87	0.72	0.61	0.60	0.60	
2	0.52	0.50	0.50	0.48	0.57	0.58	1.40	0.87	0.71	0.60	0.61	0.60	
3	0.51	0.51	0.51	0.48	0.56	0.64	1.64	0.85	0.71	0.56	0.60	0.60	
4	0.52	0.49	0.57	0.48	0.55	0.60	1.26	0.80	0.72	0.58	0.61	0.60	
5	0.52	0.51	0.53	0.48	0.57	0.60	1.12	0.78	0.73	0.58	0.63	0.59	
6	0.53	0.50	0.62	0.48	0.57	0.64	1.03	0.76	0.69	0.59	0.63	0.58	
7	0.55	0.54	0.55	0.47	0.59	0.64	0.95	0.76	0.70	0.59	0.60	0.58	
8	0.53	0.54	0.58	0.46	0.57	0.61	0.86	0.75	0.69	0.59	0.60	0.59	
9	0.53	0.54	0.55	0.47	0.56	0.94	0.78	0.76	0.67	0.57	0.60	0.60	
10	0.53	0.55	0.54	0.47	0.56	0.89	0.80	0.75	0.68	0.56	0.60	0.63	
11	0.51	0.57	0.54	0.47	0.56	0.81	0.81	0.74	0.67	0.61	0.60	0.61	
12	0.51	0.57	0.57	0.47	0.57	0.72	0.80	0.75	0.66	0.60	0.61	0.60	
13	0.52	0.57	0.69	0.47	0.56	0.68	0.80	0.72	0.65	0.61	0.63	0.58	
14	0.51	0.59	0.58	0.48	0.56	0.67	0.78	0.71	0.66	0.60	0.61	0.57	
15	0.51	0.58	0.58	0.48	0.56	0.76	0.83	0.72	0.65	0.60	0.60	0.60	
16	0.51	0.57	0.57	0.48	0.60	0.70	0.84	0.78	0.63	0.60	0.60	0.59	
17	0.50	0.55	0.56	0.48	0.58	0.69	1.12	0.72	0.63	0.60	0.60	0.57	
18	0.50	0.54	0.56	0.48	0.57	0.66	1.53	0.72	0.61	0.60	0.62	0.60	
19	0.51	0.57	0.53	0.49	0.56	0.68	1.28	0.71	0.62	0.60	0.60	0.58	
20	0.51	0.53	0.53	0.49	0.55	0.72	1.20	0.72	0.59	0.61	0.61	0.56	
21	0.52	0.53	0.54	0.48	0.54	0.94	1.08	0.72	0.60	0.61	0.60	0.56	
22	0.53	0.53	0.53	0.48	0.54	0.85	1.03	0.71	0.60	0.62	0.60	0.56	
23	0.51	0.50	0.53	0.51	0.56	0.81	0.97	0.72	0.60	0.61	0.60	0.56	
24	0.51	0.51	0.54	0.49	0.59	0.84	0.99	0.70	0.85	0.62	0.60	0.56	
25	0.50	0.52	0.52	0.48	0.57	1.25	0.99	0.71	0.96	0.62	0.59	0.57	
26	0.50	0.53	0.52	0.49	0.56	1.43	0.96	0.71	1.07	0.63	0.60	0.56	
27	0.49	0.53	0.51	0.49	0.56	1.61	0.96	0.71	0.96	0.63	0.60	0.56	
28	0.49	0.52	0.50	0.48	0.61	1.50	0.92	0.70	0.90	0.63	0.60	0.56	
29	0.51	0.51	0.48	0.48	0.59	1.25	0.90	0.68	0.85	0.64		0.56	
30	0.50	0.53	0.48	0.51	0.92	1.73	0.89	0.72	0.81	0.63		0.57	
31		0.51		0.88	0.67		0.90		0.74	0.60		0.57	
Mean	0.51	0.53	0.54	0.49	0.58	0.87	1.03	0.74	0.72	0.60	0.61	0.58	
Max	0.55	0.59	0.69	0.88	0.92	1.73	1.64	0.87	1.07	0.64	0.63	0.63	1.73
Min	0.49	0.49	0.48	0.46	0.54	0.58	0.78	0.68	0.59	0.56	0.59	0.56	0.46

Annual Max Momentary Gage Height 1.80 M (A.D), at 15.00 Hours, on Sep 30, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.02 M (A.D)
Left Bank Elevation 9.24 M (A.D)
Right Bank Elevation 9.24 M (A.D), Drainage Area 96 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.07	0.08	0.07	0.37	0.25	7.26	1.12	0.56	0.27	0.25	0.25	
2	0.11	0.08	0.08	0.06	0.20	0.22	5.40	1.12	0.53	0.25	0.27	0.25	
3	0.10	0.10	0.10	0.06	0.18	0.35	8.36	1.03	0.53	0.18	0.25	0.25	
4	0.11	0.07	0.20	0.06	0.17	0.25	4.00	0.80	0.56	0.22	0.27	0.25	
5	0.11	0.10	0.13	0.06	0.20	0.25	2.80	0.74	0.59	0.22	0.32	0.23	
6	0.13	0.08	0.30	0.06	0.20	0.35	2.16	0.68	0.48	0.23	0.32	0.22	
7	0.17	0.15	0.17	0.06	0.23	0.35	1.60	0.68	0.50	0.23	0.25	0.22	
8	0.13	0.15	0.22	0.05	0.20	0.27	1.07	0.65	0.48	0.23	0.25	0.23	
9	0.13	0.15	0.17	0.06	0.18	1.53	0.74	0.68	0.43	0.20	0.25	0.25	
10	0.13	0.17	0.15	0.06	0.18	1.21	0.80	0.65	0.45	0.18	0.25	0.32	
11	0.10	0.20	0.15	0.06	0.18	0.85	0.85	0.62	0.43	0.27	0.25	0.27	
12	0.10	0.20	0.20	0.06	0.20	0.56	0.80	0.65	0.40	0.25	0.27	0.25	
13	0.11	0.20	0.48	0.06	0.18	0.45	0.80	0.56	0.37	0.27	0.32	0.22	
14	0.10	0.23	0.22	0.06	0.18	0.43	0.74	0.53	0.40	0.25	0.27	0.20	
15	0.10	0.22	0.22	0.06	0.18	0.68	0.93	0.56	0.37	0.25	0.25	0.25	
16	0.10	0.20	0.20	0.06	0.25	0.50	0.98	0.74	0.32	0.25	0.25	0.23	
17	0.08	0.17	0.18	0.06	0.22	0.48	2.80	0.56	0.32	0.25	0.25	0.20	
18	0.08	0.15	0.18	0.06	0.20	0.40	6.85	0.56	0.27	0.25	0.30	0.25	
19	0.10	0.20	0.13	0.07	0.18	0.45	4.20	0.53	0.30	0.25	0.25	0.22	
20	0.10	0.13	0.13	0.07	0.17	0.56	3.40	0.56	0.23	0.27	0.27	0.18	
21	0.11	0.13	0.15	0.06	0.15	1.53	2.51	0.56	0.25	0.27	0.25	0.18	
22	0.13	0.13	0.13	0.06	0.15	1.03	2.16	0.53	0.25	0.30	0.25	0.18	
23	0.10	0.08	0.13	0.10	0.18	0.85	1.74	0.56	0.25	0.27	0.25	0.18	
24	0.10	0.10	0.15	0.07	0.23	0.98	1.88	0.50	1.03	0.30	0.25	0.18	
25	0.08	0.11	0.11	0.06	0.20	3.90	1.88	0.53	1.67	0.30	0.23	0.20	
26	0.08	0.13	0.11	0.07	0.18	5.71	1.67	0.53	2.44	0.32	0.25	0.18	
27	0.07	0.13	0.10	0.07	0.18	7.94	1.67	0.53	1.67	0.32	0.25	0.18	
28	0.07	0.11	0.08	0.06	0.27	6.45	1.39	0.50	1.25	0.32	0.25	0.18	
29	0.10	0.10	0.06	0.06	0.23	3.90	1.25	0.45	1.03	0.35		0.18	
30	0.08	0.13	0.06	0.10	1.39	9.62	1.21	0.56	0.85	0.32		0.20	
31		0.10		1.16	0.43		1.25		0.62	0.25		0.20	
Total	3.14	4.27	4.77	3.09	7.64	52.30	75.15	19.27	19.83	8.09	7.34	6.78	211.67 CMSDAY
Mean	0.10	0.14	0.16	0.10	0.25	1.74	2.42	0.64	0.64	0.26	0.26	0.22	0.58 CMS
Max	0.17	0.23	0.48	1.16	1.39	9.62	8.36	1.12	2.44	0.35	0.32	0.32	9.62 CMS
Min	0.07	0.07	0.06	0.05	0.15	0.22	0.74	0.45	0.23	0.18	0.23	0.18	0.05 CMS
Runoff	0.271	0.369	0.412	0.267	0.660	4.519	6.493	1.665	1.713	0.699	0.634	0.586	18.288 MCM

Momentary Peak 10.60 CMS, at 1.80 M (A.D), at 15.00 Hours, on Sep 30, 1992
Runoff Yield 6.04 Liters/Second/Square KM, Momentary Peak Yield 110.42 Liters/Second/Square KM

WATER YEAR 1992

YOM RIVER BASIN

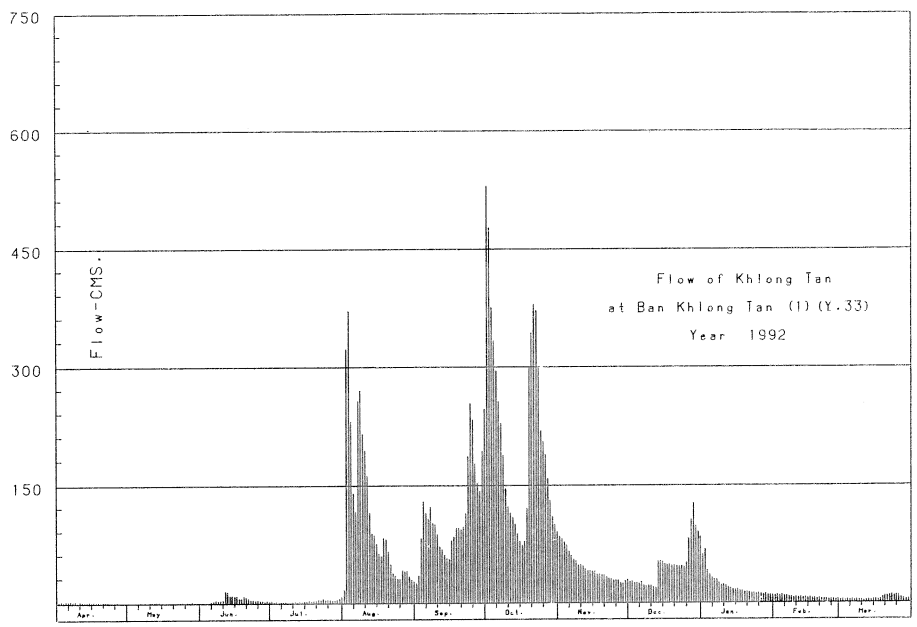
Khlong Tan at Ban Khlong Tan (1), Sukhothai (Y.33)

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	+45.820 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	46.42	46.19	46.20	46.42	47.17	47.43	55.00	48.91	47.49	48.37	46.86	46.56	
2	46.43	46.18	46.19	46.39	52.71	47.69	54.45	48.83	47.47	48.55	46.86	46.54	
3	46.43	46.17	46.19	46.36	53.27	48.87	53.32	48.75	47.44	47.87	46.86	46.54	
4	46.43	46.17	46.36	46.36	51.44	49.80	52.80	48.65	47.42	47.74	46.86	46.54	
5	46.43	46.17	46.38	46.34	50.01	49.53	52.33	48.49	47.42	47.63	46.84	46.56	
6	46.43	46.17	46.49	46.33	49.54	49.38	51.80	48.35	47.46	47.55	46.81	46.55	
7	46.43	46.17	46.53	46.30	51.83	49.66	51.42	48.24	47.35	47.57	46.80	46.54	
8	46.43	46.17	46.50	46.32	51.99	49.27	50.81	48.17	47.28	47.42	46.75	46.54	
9	46.39	46.20	46.48	46.34	51.23	49.21	50.11	48.06	47.35	47.35	46.74	46.53	
10	46.38	46.25	46.60	46.36	50.92	48.96	49.66	48.05	47.30	47.34	46.74	46.50	
11	46.37	46.27	47.11	46.36	50.38	48.63	49.50	48.02	47.24	47.31	46.74	46.50	
12	46.36	46.37	47.03	46.36	49.54	48.53	49.41	47.91	47.24	47.26	46.73	46.51	
13	46.36	46.35	46.87	46.41	49.01	48.39	49.24	47.87	48.18	47.19	46.73	46.52	
14	46.37	46.29	46.84	46.43	48.93	48.25	48.97	47.86	48.16	47.16	46.72	46.53	
15	46.36	46.29	46.84	46.45	48.71	48.26	48.76	47.86	48.14	47.14	46.72	46.56	
16	46.35	46.29	46.84	46.46	48.41	48.78	48.66	47.84	48.09	47.14	46.71	46.58	
17	46.35	46.25	46.72	46.46	48.36	48.88	48.76	47.75	48.07	47.10	46.69	46.59	
18	46.35	46.21	46.67	46.46	48.86	49.14	49.64	47.74	48.05	47.05	46.67	46.59	
19	46.35	46.23	46.85	46.45	48.84	49.12	52.39	47.74	48.04	47.04	46.67	46.77	
20	46.35	46.25	46.77	46.51	48.47	49.10	52.92	47.70	48.02	47.00	46.66	46.80	
21	46.33	46.26	46.68	46.58	48.07	49.15	53.36	47.66	48.02	46.98	46.66	46.84	
22	46.32	46.26	46.62	46.61	47.81	49.51	53.27	47.61	48.01	46.97	46.66	46.86	
23	46.29	46.27	46.56	46.64	47.69	50.80	52.39	47.56	48.01	46.95	46.62	46.86	
24	46.26	46.27	46.56	46.61	47.61	51.78	51.28	47.53	48.00	46.95	46.60	46.85	
25	46.24	46.27	46.56	46.56	47.57	51.48	51.07	47.52	48.12	46.95	46.60	46.85	
26	46.21	46.28	46.52	46.56	47.90	50.63	50.82	47.51	48.83	46.94	46.59	46.84	
27	46.20	46.29	46.50	46.57	47.87	50.23	50.33	47.45	49.35	46.92	46.60	46.75	
28	46.12	46.33	46.45	46.56	47.86	50.03	49.82	47.40	49.77	46.91	46.59	46.63	
29	46.02	46.32	46.44	46.55	47.69	50.90	49.43	47.52	49.17	46.90		46.62	
30	45.93	46.32	46.44	46.70	47.55	51.66	49.21	47.54	49.04	46.85		46.62	
31		46.29		46.77	47.48		49.02		48.88	46.84		46.62	
Mean	46.32	46.25	46.59	46.47	49.18	49.44	50.97	47.94	48.01	47.26	46.72	46.64	
Max	46.43	46.37	47.11	46.77	53.27	51.78	55.00	48.91	49.77	48.55	46.86	46.86	55.00
Min	45.93	46.17	46.19	46.30	47.17	47.43	48.66	47.40	47.24	46.84	46.59	46.50	45.93

Annual Max Momentary Gage Height 55.08 M (MSL), at 12.00 Hours, on Oct 1, 1992
Zero Gage at Bottom Elevation 45.82 M (MSL), River Bed 45.92 M (MSL)
Left Bank Elevation 56.06 M (MSL)
Right Bank Elevation 55.72 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	0.54	0.60	2.20	17.25	25.05	530.00	84.95	27.15	60.80	9.50	3.60	
2	2.30	0.48	0.54	1.93	325.80	34.15	477.75	81.35	26.45	68.75	9.50	3.40	
3	2.30	0.42	0.54	1.72	371.95	83.15	376.20	77.75	25.40	40.80	9.50	3.40	
4	2.30	0.42	1.72	1.72	230.80	129.00	333.00	73.25	24.70	35.90	9.50	3.40	
5	2.30	0.42	1.86	1.58	140.55	115.50	295.75	66.05	24.70	32.05	9.00	3.60	
6	2.30	0.42	2.90	1.51	116.00	108.00	256.00	60.00	26.10	29.25	8.25	3.50	
7	2.30	0.42	3.30	1.30	258.25	122.00	229.40	55.60	22.50	29.95	8.00	3.40	
8	2.30	0.42	3.00	1.44	270.25	102.50	187.65	52.80	20.40	24.70	7.00	3.40	
9	1.93	0.60	2.80	1.58	216.10	99.50	146.05	48.40	22.50	22.50	6.80	3.30	
10	1.86	0.95	4.00	1.72	194.80	87.20	122.00	48.00	21.00	22.20	6.80	3.00	
11	1.79	1.09	15.75	1.72	161.80	72.35	114.00	46.80	19.20	21.30	6.80	3.00	
12	1.72	1.79	13.75	1.72	116.00	67.85	109.50	42.40	19.20	19.80	6.60	3.10	
13	1.72	1.65	9.75	2.10	89.50	61.60	101.00	40.80	53.20	17.75	6.60	3.20	
14	1.79	1.23	9.00	2.30	85.85	56.00	87.65	40.40	52.40	17.00	6.40	3.30	
15	1.72	1.23	9.00	2.50	75.95	56.40	78.20	40.40	51.60	16.50	6.40	3.60	
16	1.65	1.23	9.00	2.60	62.45	79.10	73.70	39.60	49.60	16.50	6.20	3.80	
17	1.65	0.95	6.40	2.60	60.40	83.60	78.20	36.25	48.80	15.50	5.80	3.90	
18	1.65	0.67	5.40	2.60	82.70	96.00	121.00	35.90	48.00	14.25	5.40	3.90	
19	1.65	0.81	9.25	2.50	81.80	95.00	300.25	35.90	47.60	14.00	5.40	7.40	
20	1.65	0.95	7.40	3.10	65.15	94.00	342.60	34.50	46.80	13.00	5.20	8.00	
21	1.51	1.02	5.60	3.80	48.80	96.50	379.60	33.10	46.80	12.50	5.20	9.00	
22	1.44	1.02	4.40	4.20	38.40	114.50	371.95	31.35	46.40	12.25	5.20	9.50	
23	1.23	1.09	3.60	4.80	34.15	187.00	300.25	29.60	46.40	11.75	4.40	9.50	
24	1.02	1.09	3.60	4.20	31.35	254.60	219.60	28.55	46.00	11.75	4.00	9.25	
25	0.88	1.09	3.60	3.60	29.95	233.60	204.90	28.20	50.80	11.75	4.00	9.25	
26	0.67	1.16	3.20	3.60	42.00	176.80	188.30	27.85	81.35	11.50	3.90	9.00	
27	0.60	1.23	3.00	3.70	40.80	152.80	158.80	25.75	106.50	11.00	4.00	7.00	
28	0.12	1.51	2.50	3.60	40.40	141.65	130.10	24.00	127.50	10.75	3.90	4.60	
29	0.00	1.44	2.40	3.50	34.15	193.50	110.50	28.20	97.50	10.50		4.40	
30	0.00	1.44	2.40	6.00	29.25	246.20	99.50	28.90	91.00	9.25		4.40	
31		1.23		7.40	26.80		90.00		83.60	9.00		4.40	
Total	46.55	30.01	150.26	88.84	3419.40	3465.10	6613.40	1326.60	1501.15	654.50	179.25	157.50	17632.56 CMSDAY
Mean	1.55	0.97	5.01	2.87	110.30	115.50	213.34	44.22	48.42	21.11	6.40	5.08	48.31 CMS
Max	2.30	1.79	15.75	7.40	371.95	254.60	530.00	84.95	127.50	68.75	9.50	9.50	530.00 CMS
Min	0.00	0.42	0.54	1.30	17.25	25.05	73.70	24.00	19.20	9.00	3.90	3.00	0.00 CMS
Runoff	4.022	2.593	12.982	7.676	295.436	299.385	571.398	114.618	129.699	56.549	15.487	13.608	1523.453 MCM

Momentary Peak 537.60 CMS, at 55.08 M (MSL), at 12.00 Hours, on Oct 1, 1992

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

WATER YEAR 1992

NAN RIVER BASIN

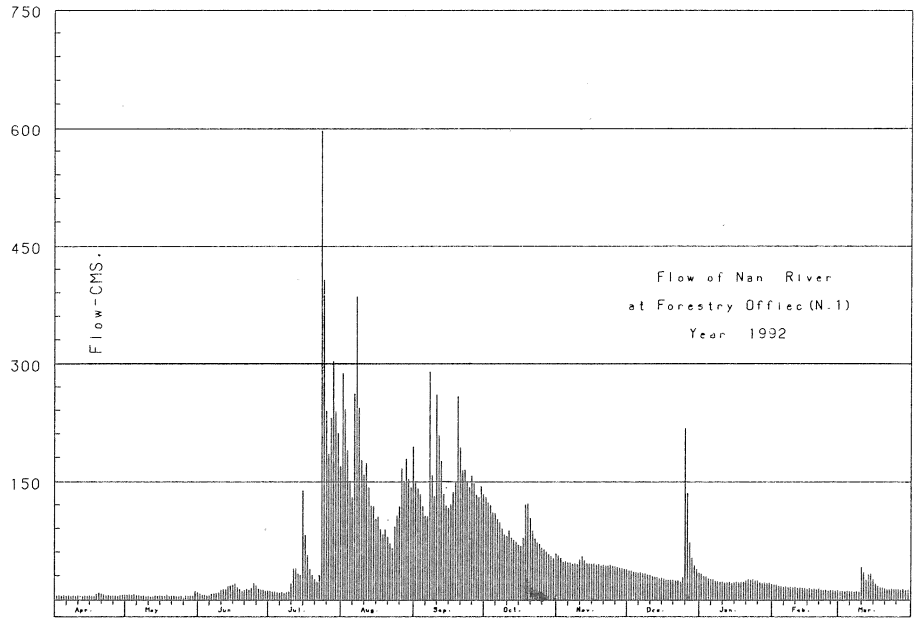
Nan River at Forestry Office, Nan (N.1)

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	+199.204 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1922-1956, 1962 to date.
Rating Operation	
Period of Rating	1954-1956, 1979 to date.
Rated by Float	-
Rated by Current Meter	1954-1956, 1979 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 123 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.72	192.76	192.80	192.90	194.99	194.09	193.95	193.32	193.13	193.08	192.93	192.80	
2	192.72	192.76	192.77	192.89	194.71	194.03	193.89	193.29	193.12	193.05	192.92	192.79	
3	192.72	192.77	192.74	192.88	194.36	193.97	193.87	193.25	193.11	193.04	192.91	192.80	
4	192.72	192.77	192.73	192.87	194.10	193.86	193.79	193.25	193.10	193.02	192.90	192.80	
5	192.72	192.75	192.74	192.86	193.94	193.76	193.79	193.24	193.10	193.01	192.89	192.80	
6	192.72	192.73	192.80	192.86	194.84	193.75	193.73	193.23	193.10	193.00	192.89	192.78	
7	192.71	192.72	192.83	192.84	195.48	195.00	193.69	193.22	193.09	192.98	192.88	192.78	
8	192.71	192.71	192.83	192.85	194.72	194.15	193.63	193.22	193.08	192.97	192.88	192.78	
9	192.71	192.70	192.86	192.90	194.28	193.95	193.56	193.22	193.07	192.97	192.88	192.78	
10	192.72	192.70	192.94	193.11	194.15	194.83	193.55	193.27	193.06	192.96	192.88	193.18	
11	192.72	192.68	192.96	193.41	194.25	194.49	193.60	193.32	193.05	192.95	192.87	193.10	
12	192.70	192.68	192.97	193.41	194.04	194.27	193.53	193.26	193.04	192.96	192.87	193.00	
13	192.70	192.71	193.04	193.33	193.86	193.98	193.50	193.23	193.03	192.96	192.87	193.08	
14	192.71	192.71	193.07	193.29	193.86	193.86	193.48	193.22	193.02	192.95	192.86	193.08	
15	192.71	192.71	193.09	194.44	193.73	193.84	193.45	193.22	193.02	192.96	192.85	193.00	
16	192.69	192.70	193.11	193.92	193.75	193.87	193.43	193.22	193.01	192.96	192.85	192.94	
17	192.71	192.71	193.03	193.62	193.62	193.99	193.53	193.21	193.00	192.96	192.84	192.90	
18	192.80	192.76	192.96	193.41	193.56	194.08	193.87	193.21	192.99	192.96	192.84	192.88	
19	192.86	192.71	192.91	193.29	193.61	194.82	193.88	193.20	193.00	192.97	192.84	192.86	
20	192.81	192.70	192.93	193.20	193.54	194.39	193.74	193.20	192.99	192.98	192.84	192.85	
21	192.77	192.70	192.96	193.15	193.46	194.19	193.60	193.20	192.98	193.00	192.83	192.84	
22	192.75	192.70	192.96	193.30	193.41	194.20	193.52	193.20	192.98	193.00	192.82	192.84	
23	192.73	192.70	193.00	196.86	193.65	194.09	193.47	193.20	192.97	193.00	192.82	192.84	
24	192.73	192.70	193.13	196.05	193.76	194.04	193.46	193.19	193.03	192.99	192.81	192.84	
25	192.71	192.70	193.06	194.70	193.85	194.14	193.41	193.18	194.55	192.98	192.81	192.83	
26	192.70	192.70	192.99	194.33	194.21	194.07	193.39	193.17	193.99	192.96	192.81	192.83	
27	192.70	192.71	192.96	194.64	194.10	193.97	193.37	193.17	193.48	192.95	192.81	192.83	
28	192.74	192.70	192.94	195.07	194.29	193.94	193.34	193.15	193.29	192.95	192.81	192.83	
29	192.76	192.74	192.92	194.69	194.11	194.05	193.31	193.15	193.20	192.95		192.82	
30	192.76	192.90	192.91	194.51	194.04	193.97	193.29	193.14	193.14	192.95		192.82	
31		192.87		194.23	194.39		193.35		193.10	192.93		192.82	
Mean	192.73	192.73	192.93	193.74	194.09	194.12	193.58	193.22	193.16	192.98	192.86	192.87	
Max	192.86	192.90	193.13	196.86	195.48	195.00	193.95	193.32	194.55	193.08	192.93	193.18	196.86
Min	192.69	192.68	192.73	192.84	193.41	193.75	193.29	193.14	192.97	192.93	192.81	192.78	192.68

Annual Max Momentary Gage Height 197.25 M (MSL), at 17.00 Hours, on Jul 23, 1992
Zero Gage at Bottom Elevation 192.17 M (MSL), River Bed 189.67 M (MSL)
Left Bank Elevation 199.64 M (MSL)
Right Bank Elevation 199.42 M (MSL), Drainage Area 4609 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.50	6.50	7.50	11.00	289.20	150.60	131.50	56.20	37.70	33.20	20.05	11.50	
2	5.50	6.50	6.75	10.65	242.50	142.20	123.70	53.00	36.80	30.50	19.20	11.08	
3	5.50	6.75	6.00	10.30	190.00	134.10	121.10	49.00	35.90	29.60	18.35	11.50	
4	5.50	6.75	5.75	9.95	152.00	119.80	110.80	49.00	35.00	27.80	17.50	11.50	
5	5.50	6.25	6.00	9.60	130.20	107.20	110.80	48.00	35.00	26.90	16.90	11.50	
6	5.50	5.75	7.50	9.60	262.80	106.00	103.60	47.00	35.00	26.00	16.90	10.66	
7	5.25	5.50	8.55	8.90	386.80	291.00	98.80	46.00	34.10	24.30	16.30	10.66	
8	5.25	5.25	8.55	9.25	244.00	159.00	91.60	46.00	33.20	23.45	16.30	10.66	
9	5.25	5.00	9.60	11.00	178.00	131.50	83.20	46.00	32.30	23.45	16.30	10.66	
10	5.50	5.00	12.52	20.60	159.00	261.10	82.00	51.00	31.40	22.60	16.30	42.20	
11	5.50	4.54	13.28	39.80	173.50	209.50	88.00	56.20	30.50	21.75	15.70	35.00	
12	5.00	4.54	13.66	39.80	143.60	176.50	79.60	50.00	29.60	22.60	15.70	26.00	
13	5.00	5.25	16.88	34.10	119.80	135.40	76.00	47.00	28.70	22.60	15.70	33.20	
14	5.25	5.25	18.44	31.40	119.80	119.80	73.80	46.00	27.80	21.75	15.10	33.20	
15	5.25	5.25	19.48	139.80	103.60	117.20	70.50	46.00	27.80	22.60	14.50	26.00	
16	4.77	5.00	20.60	83.00	106.00	121.10	68.30	46.00	26.90	22.60	14.50	20.90	
17	5.25	5.25	16.36	56.60	90.40	136.70	79.60	45.00	26.00	22.60	13.90	17.50	
18	7.50	6.50	13.28	39.80	83.20	149.20	121.10	45.00	25.15	22.60	13.90	16.30	
19	9.60	5.25	11.38	31.40	89.20	259.40	122.40	44.00	26.00	23.45	13.90	15.10	
20	7.85	5.00	12.14	26.00	80.80	194.50	104.80	44.00	25.15	24.30	13.90	14.50	
21	6.75	5.00	13.28	23.00	71.60	164.60	88.00	44.00	24.30	26.00	13.30	13.90	
22	6.25	5.00	13.28	32.00	66.10	166.00	78.40	44.00	24.30	26.00	12.70	13.90	
23	5.75	5.00	14.80	597.63	94.00	150.60	72.70	44.00	23.45	26.00	12.70	13.90	
24	5.75	5.00	21.80	407.50	107.20	143.60	71.60	43.10	28.70	25.15	12.10	13.90	
25	5.25	5.00	17.92	241.00	118.50	157.60	66.10	42.20	218.50	24.30	12.10	13.30	
26	5.00	5.00	14.42	185.50	167.50	147.80	63.90	41.30	136.70	22.60	12.10	13.30	
27	5.00	5.25	13.28	232.00	152.00	134.10	61.70	41.30	73.80	21.75	12.10	13.30	
28	6.00	5.00	12.52	303.60	179.50	130.20	58.40	39.50	53.00	21.75	12.10	13.30	
29	6.50	6.00	11.76	239.50	153.40	145.00	55.10	39.50	44.00	21.75		12.70	
30	6.50	11.00	11.38	212.50	143.60	134.10	53.00	38.60	38.60	21.75		12.70	
31		9.95		170.50	194.50		59.50		35.00	20.05		12.70	
Total	173.97	178.28	378.66	3277.28	4792.30	4695.40	2669.60	1377.90	1320.35	751.75	420.10	526.52	20562.11 CMSDAY
Mean	5.80	5.75	12.62	105.72	154.59	156.51	86.12	45.93	42.59	24.25	15.00	16.98	56.33 CMS
Max	9.60	11.00	21.80	597.63	386.80	291.00	131.50	56.20	218.50	33.20	20.05	42.20	597.63 CMS
Min	4.77	4.54	5.75	8.90	66.10	106.00	53.00	38.60	23.45	20.05	12.10	10.66	4.54 CMS
Runoff	15.031	15.403	32.716	283.157	414.055	405.683	230.653	119.051	114.078	64.951	36.297	45.491	1776.566 MCM

Momentary Peak 694.57 CMS, at 197.25 M (MSL), at 17.00 Hours, on Jul 23, 1992
Runoff Yield 12.22 Liters/Second/Square KM, Momentary Peak Yield 150.70 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

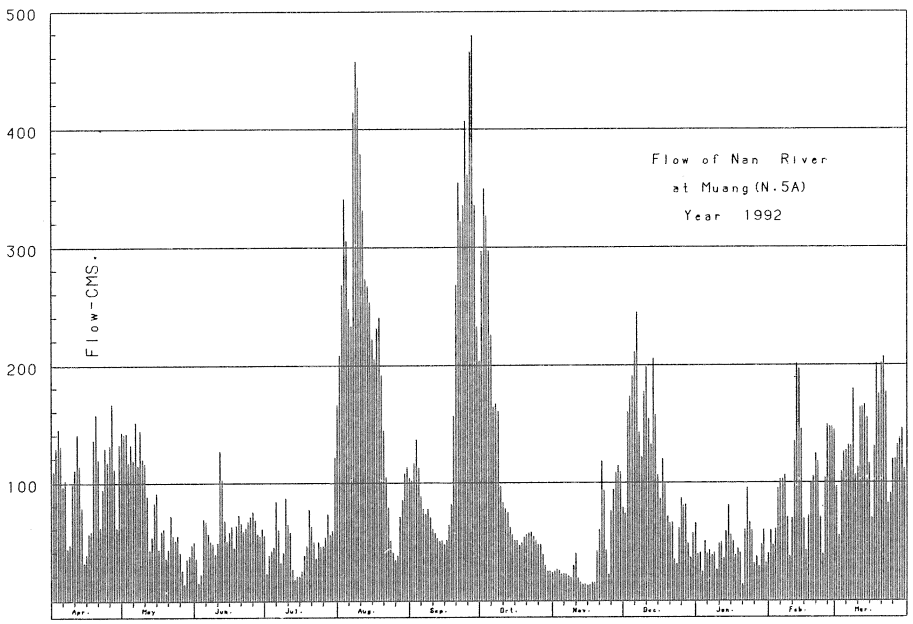
Nan River at Muang, Phitsanulok (N.5A)

Location	Lat. 16°-49'-15" N., Long. 100°-15'-49" E., on left bank near the post office and about 1 kilometer upstream from gaging station N.5, Amphoe Muang, Phitsanulok.
Drainage Area	25,286 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+34.50 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near automatic gage building.
Elevation	+45.856 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1963 to date.
Rating Operation	
Period of Rating	1966 to date.
Rated by Float	-
Rated by Current Meter	1966 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Sirikit Dam since June 5, 1971. Stage-discharge relation defined by 29 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.98	36.33	35.02	34.80	37.02	35.89	37.82	34.84	35.57	35.07	35.37	35.83	
2	36.20	36.35	34.63	35.06	37.57	36.06	38.27	34.86	36.54	35.10	35.19	35.30	
3	36.39	36.06	34.78	35.12	38.19	36.29	38.07	34.85	36.67	34.82	35.38	35.98	
4	36.22	36.23	35.51	35.16	37.90	36.02	37.83	34.78	36.85	35.24	35.82	36.16	
5	35.84	36.09	35.47	35.69	37.38	35.74	37.18	34.80	37.05	35.08	35.90	36.18	
6	35.89	36.45	35.33	35.38	37.25	35.62	36.58	34.78	37.35	35.12	35.91	36.23	
7	35.15	36.04	35.23	34.96	38.78	35.57	36.61	34.76	36.35	35.07	35.94	36.22	
8	35.19	36.37	35.20	35.10	39.11	35.62	36.55	34.71	36.12	35.09	35.53	36.74	
9	35.86	36.10	35.08	35.73	38.94	35.53	35.84	34.93	36.71	34.86	35.05	35.94	
10	35.99	36.05	35.22	35.44	38.51	35.38	35.68	35.09	36.92	35.21	35.51	36.02	
11	36.34	35.74	36.18	35.34	38.11	35.34	35.62	34.72	36.48	35.22	36.27	36.58	
12	36.03	35.13	35.90	34.87	37.61	35.27	35.59	34.63	36.24	35.03	36.95	36.58	
13	35.63	35.28	35.49	34.69	37.56	35.24	35.41	34.60	37.00	35.35	36.91	36.60	
14	34.97	35.68	35.23	34.74	37.43	35.24	35.31	34.59	36.51	35.66	36.38	36.49	
15	35.07	35.77	35.34	34.75	37.15	35.20	35.25	34.58	35.94	35.31	35.51	36.05	
16	35.33	35.13	35.41	34.83	36.99	35.25	35.24	34.57	35.72	35.24	35.12	35.52	
17	35.35	35.36	35.16	35.06	37.23	35.43	35.19	34.64	36.10	35.06	35.54	36.22	
18	36.28	35.38	35.42	35.18	37.32	35.67	35.21	34.62	35.87	35.15	35.88	36.95	
19	36.52	35.03	35.56	35.62	36.86	36.50	35.29	35.11	35.54	35.09	35.93	36.69	
20	36.10	35.13	35.46	35.41	36.37	37.57	35.31	35.38	35.45	34.60	36.15	36.96	
21	35.40	35.55	35.35	35.22	35.93	38.31	35.33	36.08	35.47	35.37	36.07	37.01	
22	35.81	35.30	35.40	35.03	35.64	38.03	35.35	35.80	35.01	35.82	35.53	36.71	
23	36.20	35.25	35.47	35.23	35.24	38.15	35.30	35.12	34.95	35.47	35.08	35.67	
24	36.07	35.30	35.53	35.16	35.10	38.72	35.25	34.79	35.39	35.36	35.92	35.77	
25	36.23	35.10	35.60	35.18	35.01	38.36	35.19	35.60	35.73	34.95	36.42	36.09	
26	36.61	34.85	35.50	35.28	35.06	39.17	35.20	35.80	35.65	35.05	36.41	36.10	
27	36.00	34.59	35.33	35.57	35.53	39.27	35.08	35.97	35.66	34.91	36.40	36.23	
28	35.40	35.01	35.29	35.32	35.71	38.15	34.92	36.03	35.21	35.20	36.37	36.30	
29	36.24	35.06	35.39	35.36	35.96	37.24	34.84	35.97	35.04	35.37		36.39	
30	36.36	35.19	35.30	36.12	36.02	36.98	34.83	35.64	35.33	34.96		36.00	
31		35.22		36.60	35.92		34.81		35.46	35.08		36.27	
Mean	35.89	35.55	35.36	35.26	36.92	36.56	35.80	35.09	36.00	35.16	35.87	36.25	
Max	36.61	36.45	36.18	36.60	39.11	39.27	38.27	36.08	37.35	35.82	36.95	37.01	39.27
Min	34.97	34.59	34.63	34.69	35.01	35.20	34.81	34.57	34.95	34.60	35.05	35.30	34.57

Annual Max Momentary Gage Height 39.34 M (MSL), at 6.00 Hours, on Sep 27, 1992
Zero Gage at Bottom Elevation 34.50 M (MSL), River Bed 33.41 M (MSL)
Left Bank Elevation 45.02 M (MSL)
Right Bank Elevation 44.50 M (MSL), Drainage Area 25286 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.72	140.79	35.40	23.00	208.20	101.74	296.40	25.20	73.90	38.90	59.90	96.41	
2	129.25	142.56	15.35	38.20	268.70	116.83	350.40	26.30	160.30	41.00	47.30	55.00	
3	146.11	116.83	22.10	42.40	340.80	137.24	326.40	25.75	173.00	24.10	60.60	109.72	
4	131.03	131.91	69.70	45.20	306.00	113.28	297.60	22.10	191.00	50.80	95.53	125.70	
5	97.30	119.49	66.90	83.99	247.80	88.43	225.80	23.00	211.50	39.60	102.63	127.47	
6	101.74	151.75	57.10	60.60	233.50	77.78	164.10	22.10	244.50	42.40	103.51	131.91	
7	44.50	115.05	50.10	31.80	414.40	73.90	167.00	21.20	142.56	38.90	106.17	131.03	
8	47.30	144.34	48.00	41.00	457.85	77.78	161.25	18.95	122.15	40.30	71.10	180.00	
9	99.08	120.37	39.60	87.54	435.20	71.10	97.30	30.15	177.00	26.30	37.50	106.17	
10	110.61	115.94	49.40	64.80	379.75	60.60	83.10	40.30	198.00	48.70	69.70	113.28	
11	141.67	88.43	127.47	57.80	331.20	57.80	77.78	19.40	154.60	49.40	135.46	164.10	
12	114.16	43.10	102.63	26.85	273.10	52.90	75.30	15.35	132.80	36.10	201.00	164.10	
13	78.66	53.60	68.30	18.05	267.60	50.80	62.70	14.00	206.00	58.50	197.00	166.00	
14	32.35	83.10	50.10	20.30	253.30	50.80	55.70	13.65	157.45	81.33	145.22	155.55	
15	38.90	91.09	57.80	20.75	222.50	48.00	51.50	13.30	106.17	55.70	69.70	115.94	
16	57.10	43.10	62.70	24.65	205.00	51.50	50.80	12.95	86.65	50.80	42.40	70.40	
17	58.50	59.20	45.20	38.20	231.30	64.10	47.30	15.80	120.37	38.20	71.80	131.03	
18	136.35	60.60	63.40	46.60	241.20	82.21	48.70	14.90	99.96	44.50	100.85	201.00	
19	158.40	36.10	73.20	77.78	192.00	156.50	54.30	41.70	71.80	40.30	105.29	175.00	
20	120.37	43.10	66.20	62.70	144.34	268.70	55.70	60.60	65.50	14.00	124.81	202.00	
21	62.00	72.50	58.50	49.40	105.29	355.20	57.10	118.60	66.90	59.90	117.71	207.10	
22	94.64	55.00	62.00	36.10	79.55	321.60	58.50	93.75	34.70	95.53	71.10	177.00	
23	129.25	51.50	66.90	50.10	50.80	336.00	55.00	42.40	31.25	66.90	39.60	82.21	
24	117.71	55.00	71.10	45.20	41.00	406.60	51.50	22.55	61.30	59.20	104.40	91.09	
25	131.91	41.00	76.00	46.60	34.70	361.20	47.30	76.00	87.54	31.25	148.90	119.49	
26	167.00	25.75	69.00	53.60	38.20	465.95	48.00	93.75	80.44	37.50	147.95	120.37	
27	111.50	13.65	57.10	73.90	71.10	479.45	39.60	108.84	81.33	29.05	147.00	131.91	
28	62.00	34.70	54.30	56.40	85.76	336.00	29.60	114.16	48.70	48.00	144.34	138.12	
29	132.80	38.20	61.30	59.20	107.95	232.40	25.20	108.84	36.80	59.90		146.11	
30	143.45	47.30	55.00	122.15	113.28	204.00	24.65	79.55	57.10	31.80		111.50	
31		49.40		166.00	104.40		23.55		66.20	39.60		135.46	
Total	3105.36	2384.45	1801.85	1670.86	6485.77	5300.39	3209.13	1335.14	3547.47	1418.46	2868.47	4182.17	37309.52 CMSDAY
Mean	103.51	76.92	60.06	53.90	209.22	176.68	103.52	44.50	114.43	45.76	102.45	134.91	102.22 CMS
Max	167.00	151.75	127.47	166.00	457.85	479.45	350.40	118.60	244.50	95.53	201.00	207.10	479.45 CMS
Min	32.35	13.65	15.35	18.05	34.70	48.00	23.55	12.95	31.25	14.00	37.50	55.00	12.95 CMS
Runoff	268.303	206.016	155.680	144.362	560.370	457.954	277.269	115.356	306.501	122.555	247.836	361.340	3223.543 MCM

Momentary Peak 488.90 CMS, at 39.34 M (MSL), at 6.00 Hours, on Sep 27, 1992

Runoff Yield 4.04 Liters/Second/Square KM, Momentary Peak Yield 19.33 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

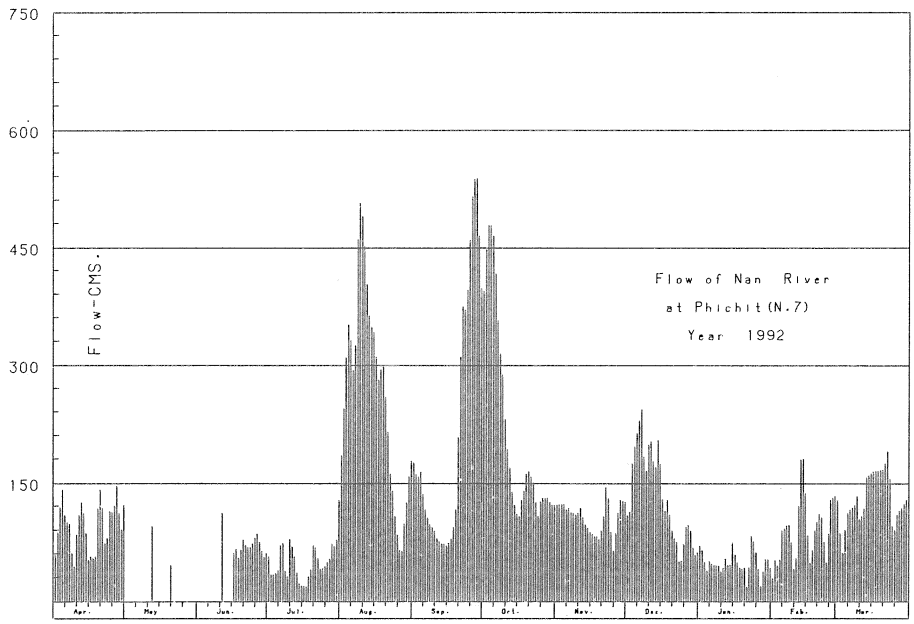
Nan River at Muang, Phichit (N.7)

Location	Lat. 16°-26'-31" N., Long. 100°-21'-11" E., on right bank infront of Phichit Phithaya Kham School, Amphoe Muang, Phichit.
Drainage Area	29,153 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+26.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Infront of Phichit Phitthaya 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. No records on May 6-31,1992. Stage-discharge relation defined by 23 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.96	26.00	26.00	26.93	28.71	28.60	30.89	27.92	27.73	27.14	26.51	27.99	
2	27.41	26.00	26.00	26.59	29.40	28.42	31.40	27.91	27.78	27.07	26.86	27.40	
3	27.86	26.00	26.00	26.58	30.07	28.39	31.68	27.93	28.59	26.82	26.77	27.02	
4	28.19	26.00	26.00	26.62	30.49	28.45	31.67	27.92	28.84	26.67	26.89	27.45	
5	27.73	26.00	26.00	26.66	30.29	28.10	31.56	27.83	29.03	26.86	27.44	27.77	
6	27.58	*******	26.00	27.15	29.91	27.82	31.11	27.85	29.22	26.79	27.49	27.82	
7	27.56	*******	26.00	27.21	30.23	27.68	30.53	27.78	29.39	26.78	27.53	27.87	
8	27.01	*******	26.00	26.66	31.52	27.55	30.13	27.76	28.68	26.76	27.56	27.90	
9	26.73	*******	26.00	26.54	31.92	27.51	29.84	27.74	28.48	26.77	27.21	28.08	
10	27.36	*******	26.00	27.27	31.78	27.43	29.25	27.76	28.87	26.65	26.70	27.66	
11	27.73	*******	27.77	27.14	31.43	27.29	28.79	27.86	28.91	26.71	26.90	27.70	
12	27.96	27.53	26.00	26.93	30.98	27.23	28.52	27.68	28.61	26.89	27.90	27.84	
13	27.75	*******	26.00	26.63	30.59	27.20	28.14	27.56	28.53	26.78	28.64	28.38	
14	27.40	*******	26.00	26.41	30.46	27.18	27.91	27.49	28.94	26.77	28.66	28.40	
15	26.88	*******	26.00	26.37	30.39	27.15	27.74	27.42	28.57	27.22	28.12	28.44	
16	26.93	*******	27.00	26.35	30.08	27.20	27.71	27.38	28.01	26.99	27.35	28.46	
17	26.91	*******	27.08	26.35	29.78	27.29	27.99	27.34	27.81	26.82	26.82	28.48	
18	26.93	*******	26.92	26.54	29.91	27.50	28.17	27.33	28.01	26.73	27.06	28.47	
19	27.85	*******	27.08	26.69	29.96	27.82	28.42	27.27	27.73	26.69	27.46	28.49	
20	28.18	26.78	27.26	27.18	29.54	28.98	28.47	27.45	27.45	26.73	27.60	28.49	
21	27.84	*******	27.17	27.11	29.05	30.09	28.38	27.71	27.29	26.35	27.74	28.58	
22	27.20	*******	27.11	26.91	28.43	30.71	28.30	28.22	27.22	26.72	27.69	28.77	
23	27.29	*******	27.13	26.70	28.16	30.66	27.95	28.04	26.85	27.35	27.22	28.36	
24	27.80	*******	27.19	26.70	27.71	30.91	27.71	27.41	26.85	27.23	26.83	27.52	
25	27.77	*******	27.32	26.75	27.37	31.50	27.98	27.06	27.19	27.03	27.40	27.46	
26	27.90	*******	27.38	26.82	27.06	32.00	28.03	27.40	27.52	26.69	28.00	27.74	
27	28.25	*******	27.23	26.90	27.05	32.18	28.04	27.76	27.54	26.36	28.05	27.80	
28	27.75	*******	27.04	27.18	27.56	32.20	28.03	27.99	27.45	26.65	28.07	27.88	
29	27.47	*******	26.93	27.13	27.96	31.55	27.97	27.99	27.12	26.88		27.94	
30	27.90	*******	26.99	27.27	28.39	30.92	27.90	27.96	26.96	26.89		28.00	
31		*******		27.99	28.62		27.90		27.01	26.71		27.71	
Mean	27.54	*******	26.62	26.85	29.51	28.92	28.97	27.69	28.01	26.82	27.45	28.00	
Max	28.25	27.53	27.77	27.99	31.92	32.20	31.68	28.22	29.39	27.35	28.66	28.77	32.20
Min	26.73	*******	26.00	26.35	27.05	27.15	27.71	27.06	26.85	26.35	26.51	27.02	*******

Annual Max Momentary Gage Height 32.49 M (MSL), at 18.00 Hours, on Sep 27, 1992
Zero Gage at Bottom Elevation 26.00 M (MSL), River Bed 24.97 M (MSL)
Left Bank Elevation 36.92 M (MSL)
Right Bank Elevation 37.25 M (MSL), Drainage Area 29153 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	58.40	0.00	0.00	56.45	186.35	177.00	394.45	123.40	110.10	70.10	29.15	128.30	
2	87.70	0.00	0.00	34.35	246.00	161.70	448.00	122.70	113.60	65.55	51.90	87.00	
3	119.20	0.00	0.00	33.70	309.65	159.15	479.20	124.10	176.15	49.30	46.05	62.30	
4	142.30	0.00	0.00	36.30	352.45	164.25	478.05	123.40	197.40	39.55	53.85	90.50	
5	110.10	0.00	0.00	38.90	331.45	136.00	465.60	117.10	213.55	51.90	89.80	112.90	
6	99.60	*******	0.00	70.75	294.45	116.40	417.55	118.50	229.80	47.35	93.30	116.40	
7	98.20	*******	0.00	74.65	325.15	106.60	356.65	113.60	245.10	46.70	96.10	119.90	
8	61.65	*******	0.00	38.90	461.20	97.50	315.35	112.20	183.80	45.40	98.20	122.00	
9	43.45	*******	0.00	31.10	506.80	94.70	287.80	110.80	166.80	46.05	74.65	134.60	
10	84.40	*******	0.00	78.55	490.70	89.10	232.50	112.20	199.95	38.25	41.50	105.20	
11	110.10	*******	112.90	70.10	451.30	79.85	193.15	119.20	203.35	42.15	54.50	108.00	
12	126.20	96.10	0.00	56.45	403.90	75.95	170.20	106.60	177.85	53.85	122.00	117.80	
13	111.50	*******	0.00	36.95	362.95	74.00	138.80	98.20	171.05	46.70	180.40	158.30	
14	87.00	*******	0.00	22.65	349.30	72.70	122.70	93.30	205.90	46.05	182.10	160.00	
15	53.20	*******	0.00	20.28	341.95	70.75	110.80	88.40	174.45	75.30	137.40	163.40	
16	56.45	*******	61.00	19.13	310.60	74.00	108.70	85.70	129.70	60.35	83.75	165.10	
17	55.15	*******	66.20	19.13	282.10	79.85	128.30	83.10	115.70	49.30	49.30	166.80	
18	56.45	*******	55.80	31.10	294.45	94.00	140.90	82.45	129.70	43.45	64.90	165.95	
19	118.50	*******	66.20	40.85	299.20	116.40	161.70	78.55	110.10	40.85	91.20	167.65	
20	141.60	46.70	77.90	72.70	259.30	209.30	165.95	90.50	90.50	43.45	101.00	167.65	
21	117.80	*******	72.05	68.15	215.25	311.55	158.30	108.70	79.85	19.13	110.80	175.30	
22	74.00	*******	68.15	55.15	162.55	375.55	151.50	144.70	75.30	42.80	107.30	191.45	
23	79.85	*******	69.45	41.50	140.20	370.30	125.50	131.80	51.25	83.75	75.30	156.60	
24	115.00	*******	73.35	41.50	108.70	396.55	108.70	87.70	51.25	75.95	49.95	95.40	
25	112.90	*******	81.80	44.75	85.05	459.00	127.60	64.90	73.35	62.95	87.00	91.20	
26	122.00	*******	85.70	49.30	64.90	516.00	131.10	87.00	95.40	40.85	129.00	110.80	
27	147.25	*******	75.95	54.50	64.25	536.70	131.80	112.20	96.80	19.70	132.50	115.00	
28	111.50	*******	63.60	72.70	98.20	539.00	131.10	128.30	90.50	38.25	133.90	120.60	
29	91.90	*******	56.45	69.45	126.20	464.50	126.90	128.30	68.80	53.20		124.80	
30	122.00	*******	60.35	78.55	159.15	397.60	122.00	126.20	58.40	53.85		129.00	
31		*******		128.30	178.70		122.00		61.65	42.15		108.70	
Total	2915.35	*******	1146.85	1586.84	8262.40	6615.95	6752.85	3223.80	4147.10	1534.18	2566.80	4038.60	******** CMSDAY
Mean	97.18	*******	38.23	51.19	266.53	220.53	217.83	107.46	133.78	49.49	91.67	130.28	******** CMS
Max	147.25	96.10	112.90	128.30	506.80	539.00	479.20	144.70	245.10	83.75	182.10	191.45	539.00 CMS
Min	43.45	*******	0.00	19.13	64.25	70.75	108.70	64.90	51.25	19.13	29.15	62.30	******** CMS
Runoff	251.886	*******	99.088	137.103	713.872	571.618	583.446	278.536	358.309	132.553	221.772	348.935	******** MCM

Momentary Peak 572.35 CMS, at 32.49 M (MSL), at 18.00 Hours, on Sep 27, 1992

Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield 19.63 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

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

Location — Lat. 16°-01'-50" N., Long. 100°-22'-53" E., on left bank about 46 meters downstream from the old staff gage, opposite to Wat Bang Mun Nak, Phichit.

Drainage Area — 32,878 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +19.80 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank about 89 meters upstream from the top staff gage.

Elevation — +30.523 m.(M.S.L.)

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

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

Period of Available Gage Records — 1951 to date.

Rating Operation

Period of Rating — 1965 - 1967, 1973 - 1979, 1991 to date.

Rated by Float —

Rated by Current Meter — 1951 - 1980, 1991 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 28 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

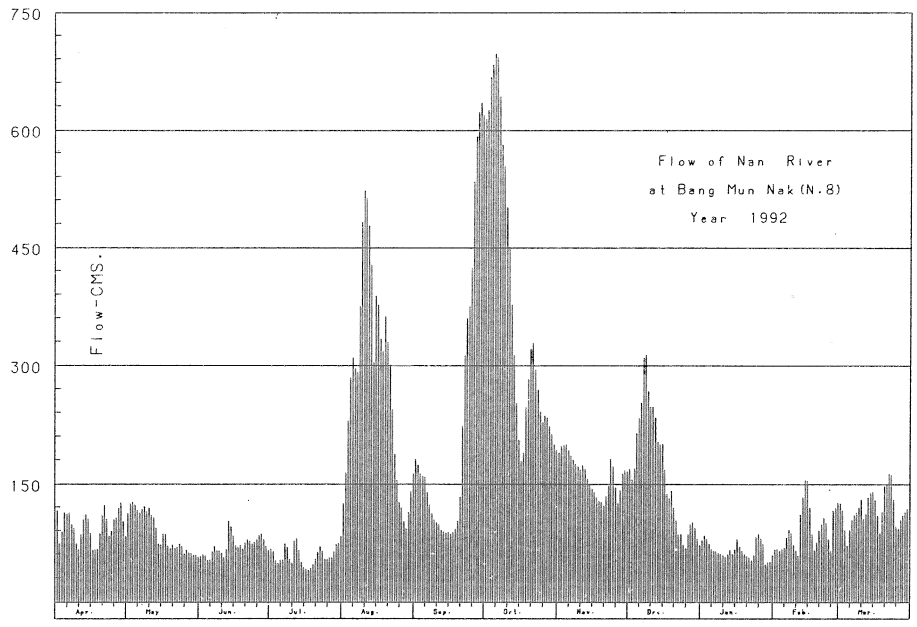
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.09	22.00	20.81	21.04	22.23	23.07	27.04	23.18	22.91	21.29	21.05	22.25	
2	21.19	22.24	20.89	20.99	22.86	22.99	27.13	23.27	22.73	21.45	21.04	22.08	
3	21.55	22.27	20.83	20.66	23.67	22.84	27.45	23.30	22.93	21.33	21.01	21.57	
4	22.02	22.22	20.70	20.59	24.28	22.81	27.56	23.30	23.48	21.21	21.04	21.16	
5	22.01	22.08	20.68	20.67	24.55	22.78	27.67	23.22	23.72	21.04	21.10	21.60	
6	22.02	22.03	20.99	20.71	24.41	22.49	27.63	23.12	23.94	21.01	21.37	21.87	
7	21.76	22.10	21.12	21.19	24.35	22.21	27.27	23.07	24.55	20.98	21.61	21.98	
8	21.63	22.19	21.02	21.11	25.14	22.02	26.80	22.99	24.58	20.94	21.49	22.03	
9	21.22	22.05	20.99	20.71	26.03	21.86	26.58	22.96	24.11	20.89	21.18	22.15	
10	21.03	22.15	20.94	20.60	26.35	21.81	26.19	22.90	23.88	20.87	21.02	22.34	
11	21.45	21.97	20.77	21.27	26.27	21.74	25.78	22.97	23.88	20.79	20.84	21.88	
12	21.88	21.92	21.05	21.36	26.00	21.60	25.16	22.92	23.73	20.90	21.98	22.01	
13	22.00	21.64	21.83	21.00	25.59	21.53	24.57	22.76	23.36	21.01	22.38	22.36	
14	21.88	21.21	21.69	20.63	24.49	21.52	23.93	22.65	23.30	20.91	22.73	22.47	
15	21.49	21.16	21.42	20.41	25.25	21.52	23.38	22.56	23.32	21.03	22.71	22.48	
16	21.03	21.47	21.14	20.35	25.15	21.49	23.04	22.47	22.93	21.32	22.16	22.30	
17	21.02	21.49	21.11	20.33	24.78	21.51	23.17	22.36	22.44	21.13	21.46	21.97	
18	21.06	21.13	21.15	20.37	24.62	21.63	23.87	22.30	22.36	20.99	21.03	21.51	
19	21.50	21.08	21.06	20.55	25.03	21.83	24.27	22.26	22.52	20.91	21.23	22.04	
20	21.97	21.16	21.22	20.72	24.73	22.39	24.66	22.20	22.14	20.82	21.57	22.60	
21	22.20	21.08	21.33	20.95	24.46	23.59	24.72	22.39	21.86	20.77	21.76	22.66	
22	21.87	21.09	21.27	21.13	23.84	24.58	24.39	22.62	21.45	20.70	21.91	22.85	
23	21.43	21.21	21.21	20.98	23.16	25.00	24.13	23.07	21.49	20.88	21.78	22.82	
24	21.55	21.12	21.23	20.74	22.72	25.14	23.82	22.96	21.16	21.38	21.34	22.32	
25	21.88	20.92	21.33	20.73	22.27	25.55	23.66	22.59	21.09	21.49	20.98	21.69	
26	21.90	21.02	21.45	20.76	22.14	26.43	23.75	22.25	21.48	21.36	22.07	21.64	
27	22.15	20.95	21.47	20.79	21.83	26.88	23.72	22.51	21.74	21.18	22.15	21.87	
28	22.25	20.91	21.33	20.96	21.62	27.11	23.60	22.85	21.80	20.54	22.25	21.96	
29	21.83	20.88	21.11	21.19	22.05	27.21	23.46	22.89	21.66	20.59		22.05	
30	21.42	20.85	21.02	21.20	22.49	27.08	23.31	22.88	21.33	20.64		22.11	
31		20.81		21.42	22.85		23.21		21.17	20.85		22.11	
Mean	21.68	21.50	21.14	20.84	24.04	23.34	25.00	22.79	22.68	21.01	21.58	22.09	
Max	22.25	22.27	21.83	21.42	26.35	27.21	27.67	23.30	24.58	21.49	22.73	22.85	27.67
Min	21.02	20.81	20.68	20.33	21.62	21.49	23.04	22.20	21.09	20.54	20.84	21.16	20.33

Annual Max Momentary Gage Height — 27.71 M (MSL), at 18.00 Hours, on Oct 5, 1992

Zero Gage at Bottom Elevation — 19.80 M (MSL), River Bed 17.11 M (MSL)

Left Bank Elevation — 30.24 M (MSL)

Right Bank Elevation — 30.48 M (MSL), Drainage Area 32878 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.9	112.0	57.4	66.8	124.8	181.6	613.2	190.4	168.8	78.1	67.2	126.0	
2	73.6	125.4	60.6	64.6	164.8	175.2	624.9	197.6	155.5	85.3	66.8	116.4	
3	89.7	127.2	58.2	52.1	229.9	163.2	667.8	200.0	170.4	79.9	65.5	90.7	
4	113.1	124.2	53.5	49.7	284.6	160.8	682.6	200.0	214.4	74.4	66.8	72.2	
5	112.6	116.4	52.8	52.5	311.0	158.7	697.8	193.6	234.2	66.8	69.5	92.0	
6	113.1	113.7	64.6	53.8	297.0	140.4	692.2	185.6	252.9	65.5	81.7	104.9	
7	99.2	117.5	70.4	73.6	291.3	123.6	643.4	181.6	311.0	64.2	92.5	110.9	
8	93.3	122.4	65.9	70.0	376.1	113.1	582.0	175.2	314.0	62.6	87.1	113.7	
9	74.9	114.7	64.6	53.8	482.8	104.3	553.4	172.8	268.5	60.6	73.1	120.2	
10	66.4	120.2	62.6	50.0	523.5	101.6	502.7	168.0	247.8	59.8	65.9	131.4	
11	85.3	110.3	56.0	77.2	513.1	98.3	451.6	173.6	247.8	56.7	58.6	105.4	
12	105.4	107.6	67.2	81.2	479.0	92.0	378.4	169.6	235.0	61.0	110.9	112.6	
13	112.0	93.8	102.7	65.0	428.8	88.9	313.0	157.4	204.8	65.5	133.8	132.6	
14	105.4	74.4	96.1	51.0	305.0	88.4	252.1	150.2	200.0	61.4	155.5	139.2	
15	87.1	72.2	83.9	43.4	388.8	88.4	206.4	144.6	201.6	66.4	154.1	139.8	
16	66.4	86.1	71.3	41.3	377.3	87.1	179.2	139.2	170.4	79.4	120.8	129.0	
17	65.9	87.1	70.0	40.6	334.9	88.0	189.6	132.6	137.4	70.8	85.7	110.3	
18	67.7	70.8	71.7	42.0	318.1	93.3	247.0	129.0	132.6	64.6	66.4	88.0	
19	87.5	68.6	67.7	48.2	363.5	102.7	283.7	126.6	142.2	61.4	75.3	114.2	
20	110.3	72.2	74.9	54.2	329.6	134.4	322.3	123.0	119.7	57.8	90.7	147.0	
21	123.0	68.6	79.9	63.0	302.0	223.2	328.6	134.4	104.3	56.0	99.2	150.9	
22	104.9	69.1	77.2	70.8	244.4	314.0	295.0	148.3	85.3	53.5	107.1	164.0	
23	84.4	74.4	74.4	64.2	188.8	360.0	270.3	181.6	87.1	60.2	100.1	161.6	
24	89.7	70.4	75.3	54.9	154.8	376.1	242.7	172.8	72.2	82.1	80.3	130.2	
25	105.4	61.8	79.9	54.6	127.2	424.0	229.1	146.4	69.1	87.1	64.2	96.1	
26	106.5	65.9	85.3	55.6	119.7	533.9	236.7	126.0	86.6	81.2	115.8	93.8	
27	120.2	63.0	86.1	56.7	102.7	592.4	234.2	141.6	98.3	73.1	120.2	104.9	
28	126.0	61.4	79.9	63.4	92.9	622.3	224.0	164.0	101.0	47.9	126.0	109.8	
29	102.7	60.2	70.0	73.6	114.7	635.3	212.8	167.2	94.7	49.7		114.7	
30	83.9	59.0	65.9	74.0	140.4	618.4	200.8	166.4	79.9	51.4		118.1	
31		57.4		83.9	164.0		192.8		72.7	59.0		118.1	
Total	2892.5	2748.0	2146.0	1845.7	8675.5	7083.6	11750.3	4859.3	5080.2	2043.4	2600.8	3658.7	55384.0 CMSDAY
Mean	96.4	88.6	71.5	59.5	279.9	236.1	379.0	162.0	163.9	65.9	92.9	118.0	151.7 CMS
Max	126.0	127.2	102.7	83.9	523.5	635.3	697.8	200.0	314.0	87.1	155.5	164.0	697.8 CMS
Min	65.9	57.4	52.8	40.6	92.9	87.1	179.2	123.0	69.1	47.9	58.6	72.2	40.6 CMS
Runoff	249.91	237.43	185.41	159.47	749.56	612.02	1015.23	419.84	438.93	176.55	224.71	316.11	4785.18 MCM

Momentary Peak 703.40 CMS, at 27.71 M (MSL), at 18.00 Hours, on Oct 5, 1992

Runoff Yield 4.62 Liters/Second/Square KM, Momentary Peak Yield 21.39 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

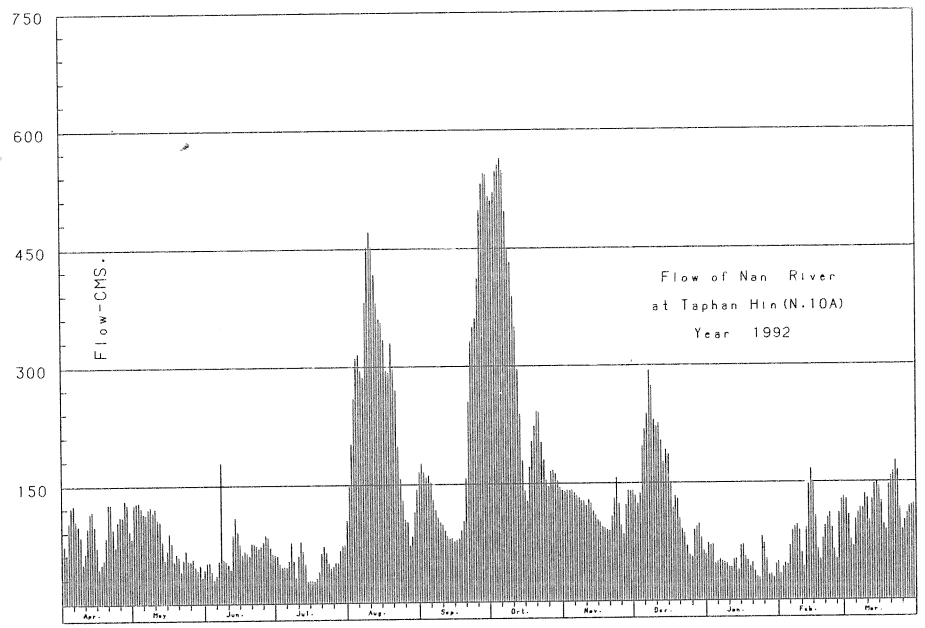
Nan River at Taphan Hin, Phichit (N.10A)

Location	Lat. 16°-12'-42" N., Long. 100°-25'-01" E., on left bank near Taphan Hin
	Office about 250 meters from station N.10, Amphoe Taphan Hin, Phichit.
Drainage Area	30,765 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+22.280 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near automatic gage buiding.
Elevation	+33.300 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1974 - 1979, 1991 to date.
Rated by Float	-
Rated by Current Meter	1974 - 1982, 1987, 1991 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.08	23.92	22.68	22.84	24.28	24.67	28.48	24.15	24.06	23.05	22.39	23.99	
2	22.88	23.96	22.71	22.66	25.00	24.51	28.60	24.17	23.91	23.02	22.55	23.65	
3	23.57	23.99	22.51	22.60	25.73	24.41	28.88	24.17	24.11	23.01	22.61	23.11	
4	23.87	23.88	22.33	22.60	26.32	24.46	28.96	24.17	24.95	22.63	22.60	22.98	
5	23.94	23.75	22.42	22.60	26.39	24.33	29.06	24.13	25.21	22.65	22.99	23.53	
6	23.59	23.71	22.72	22.72	26.14	24.00	28.89	24.06	25.46	22.72	23.32	23.70	
7	23.50	23.85	24.71	23.12	26.05	23.80	28.35	24.04	26.13	22.66	23.40	23.78	
8	23.27	23.88	22.77	22.74	27.14	23.63	27.85	23.96	25.89	22.64	23.43	23.79	
9	22.69	23.78	22.71	22.36	27.87	23.54	27.67	23.96	25.37	22.63	23.33	24.06	
10	22.90	23.84	22.67	22.84	28.08	23.47	27.21	23.88	25.26	22.55	22.85	24.00	
11	23.44	23.61	22.56	23.15	27.87	23.36	26.77	24.00	25.30	22.53	22.54	23.51	
12	23.77	23.58	23.28	22.93	27.51	23.23	26.16	23.91	25.04	22.71	23.36	23.97	
13	23.79	23.16	23.65	22.66	27.12	23.19	25.46	23.76	24.67	22.71	24.26	24.24	
14	23.49	22.75	23.36	22.28	26.90	23.19	24.72	23.66	24.88	22.49	24.54	24.28	
15	23.04	22.97	23.08	22.28	26.84	23.13	24.16	23.57	24.82	23.01	24.30	24.20	
16	22.57	23.32	22.86	22.28	26.60	23.15	23.98	23.51	24.31	23.01	23.61	23.92	
17	22.68	23.11	22.95	22.28	26.15	23.19	24.59	23.42	23.82	22.76	22.91	23.44	
18	22.76	22.73	22.89	22.34	26.11	23.35	25.03	23.38	24.05	22.68	22.70	23.31	
19	23.23	22.88	22.85	22.50	26.56	23.56	25.28	23.36	24.01	22.56	23.15	24.25	
20	23.96	22.82	23.10	22.88	26.16	24.39	25.52	23.33	23.58	22.63	23.40	24.39	
21	23.94	22.52	23.11	23.05	25.86	25.67	25.49	23.65	23.37	22.46	23.60	24.47	
22	23.43	22.77	23.05	22.91	24.96	26.57	25.02	24.01	23.26	22.33	23.67	24.68	
23	23.05	22.96	23.01	22.69	24.40	26.77	24.73	24.39	23.01	22.28	23.38	24.51	
24	23.56	22.73	23.04	22.56	24.00	26.90	24.35	23.92	22.80	23.20	22.90	23.78	
25	23.67	22.73	23.15	22.61	23.59	27.45	24.25	23.44	22.77	23.04	22.72	23.33	
26	23.68	22.77	23.29	22.68	23.55	28.35	24.51	23.27	23.33	22.71	23.68	23.51	
27	24.03	22.62	23.23	22.69	23.05	28.72	24.53	23.89	23.42	22.38	23.98	23.68	
28	23.93	22.53	23.02	22.94	23.23	28.86	24.48	24.15	23.46	22.38	24.02	23.81	
29	23.39	22.65	22.87	23.05	23.76	28.83	24.35	24.16	23.18	22.31		23.85	
30	23.21	22.40	22.85	23.06	24.19	28.54	24.21	24.15	22.90	22.61		23.86	
31		22.54		23.58	24.52		24.16		22.81	22.65		23.81	
Mean	23.40	23.18	22.98	22.73	25.68	25.04	25.99	23.85	24.17	22.68	23.29	23.85	
Max	24.03	23.99	24.71	23.58	28.08	28.86	29.06	24.39	26.13	23.20	24.54	24.68	29.06
Min	22.57	22.40	22.33	22.28	23.05	23.13	23.98	23.27	22.77	22.28	22.39	22.98	22.28

Annual Max Momentary Gage Height 29.10 M (MSL), at 17.00 Hours, on Oct 5, 1992
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 33.07 M (MSL), Drainage Area 30765 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	74.80	125.20	50.80	60.40	149.60	176.90	509.60	140.50	134.20	73.00	33.50	129.40	
2	62.80	127.60	52.60	49.60	202.00	165.70	521.00	141.90	124.60	71.20	43.00	109.00	
3	104.20	129.40	40.60	46.00	260.40	158.70	547.60	141.90	137.70	70.60	46.60	76.60	
4	122.20	122.80	30.50	46.00	310.20	162.20	555.20	141.90	198.00	47.80	46.00	68.80	
5	126.40	115.00	35.20	46.00	316.15	153.10	564.70	139.10	218.80	49.00	69.40	101.80	
6	105.40	112.60	53.20	53.20	294.90	130.00	548.55	134.20	238.80	53.20	89.20	112.00	
7	100.00	121.00	179.70	77.20	287.25	118.00	497.25	132.80	294.05	49.60	94.00	116.80	
8	86.20	122.80	56.20	54.40	382.60	107.80	449.75	127.60	273.65	48.40	95.80	117.40	
9	51.40	116.80	52.60	32.00	451.65	102.40	432.65	127.60	231.60	47.80	89.80	134.20	
10	64.00	120.40	50.20	60.40	471.60	98.20	388.95	122.80	222.80	43.00	61.00	130.00	
11	96.40	106.60	43.60	79.00	451.65	91.60	349.30	130.00	226.00	41.80	42.40	100.60	
12	116.20	104.80	86.80	65.80	417.45	83.80	296.60	124.60	205.20	52.60	91.60	128.20	
13	117.40	79.60	109.00	49.60	380.80	81.40	238.80	115.60	176.90	52.60	148.20	146.80	
14	99.40	55.00	91.60	28.00	361.00	81.40	180.40	109.60	192.40	39.40	167.80	149.60	
15	72.40	68.20	74.80	28.00	355.60	77.80	141.20	104.20	187.60	70.60	151.00	144.00	
16	44.20	89.20	61.60	28.00	334.00	79.00	128.80	100.60	151.70	70.60	106.60	125.20	
17	50.80	76.60	67.00	28.00	295.75	81.40	171.30	95.20	119.20	55.60	64.60	96.40	
18	55.60	53.80	63.40	31.00	292.35	91.00	204.40	92.80	133.50	50.80	52.00	88.60	
19	83.80	62.80	61.00	40.00	330.60	103.60	224.40	91.60	130.70	43.60	79.00	147.50	
20	127.60	59.20	76.00	62.80	296.60	157.30	243.60	89.80	104.80	47.80	94.00	157.30	
21	126.40	41.20	76.60	73.00	271.10	255.60	241.20	109.00	92.20	37.60	106.00	162.90	
22	95.80	56.20	73.00	64.60	198.80	331.45	203.60	130.70	85.60	30.50	110.20	177.60	
23	73.00	67.60	70.60	51.40	158.00	349.30	181.10	157.30	70.60	28.00	92.80	165.70	
24	103.60	53.80	72.40	43.60	130.00	361.00	154.50	125.20	58.00	82.00	64.00	116.80	
25	110.20	53.80	79.00	46.60	105.40	411.75	147.50	96.40	56.20	72.40	53.20	89.80	
26	110.80	56.20	87.40	50.80	103.00	497.25	165.70	86.20	89.80	52.60	110.80	100.60	
27	132.10	47.20	83.80	51.40	73.00	532.40	167.10	123.40	95.20	33.00	128.80	110.80	
28	125.80	41.80	71.20	66.40	83.80	545.70	163.60	140.50	97.60	33.00	131.40	118.60	
29	93.40	49.00	62.20	73.00	115.60	542.85	154.50	141.20	80.80	29.50		121.00	
30	82.60	34.00	61.00	73.60	143.30	515.30	144.70	140.50	64.00	46.60		121.60	
31		42.40		104.80	166.40		141.20		58.60	49.00		118.60	
Total	2814.90	2512.60	2073.60	1664.60	8190.55	6643.90	9058.75	3654.70	4550.80	1573.20	2462.70	3784.20	48984.50 CMSDAY
Mean	93.83	81.05	69.12	53.70	264.21	221.46	292.22	121.82	146.80	50.75	87.95	122.07	134.20 CMS
Max	132.10	129.40	179.70	104.80	471.60	545.70	564.70	157.30	294.05	82.00	167.80	177.60	564.70 CMS
Min	44.20	34.00	30.50	28.00	73.00	77.80	128.80	86.20	56.20	28.00	33.50	68.80	28.00 CMS
Runoff	243.207	217.089	179.159	143.821	707.664	574.033	782.676	315.766	393.189	135.924	212.777	326.955	4232.261 MCM

Momentary Peak 568.50 CMS, at 29.10 M (MSL), at 17.00 Hours, on Oct 5, 1992

Runoff Yield 4.36 Liters/Second/Square KM, Momentary Peak Yield 18.48 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

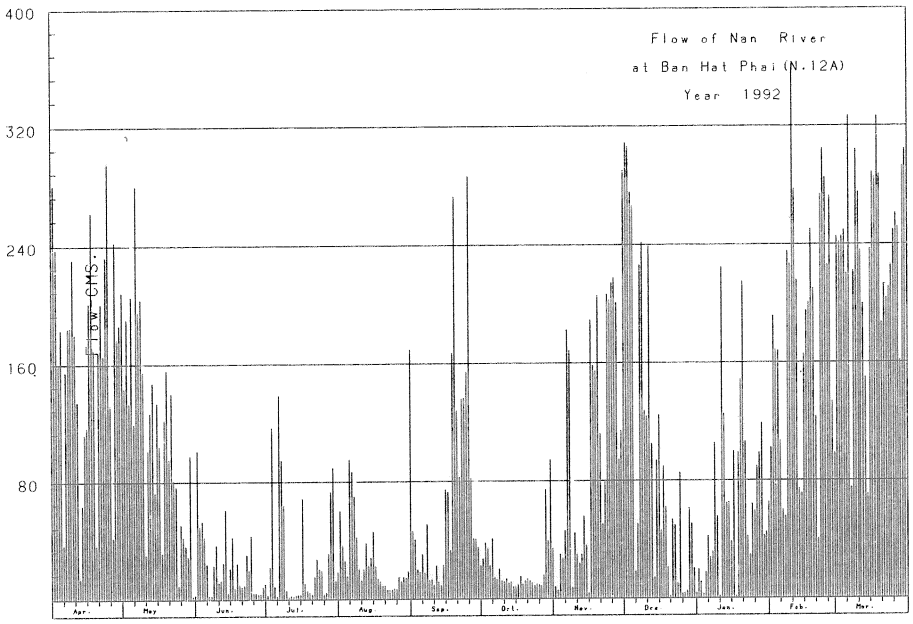
Nan River at Ban Hat Phai, Uttaradit (N.12A)

Location	Lat. 17°-44'-10" N., Long. 100°-32'-28" E., on right bank about 4 kilometers downstream from Sirikit Dam Site, along Phasom-Silot road at Ban Hat Phai, Amphoe Tha Pha, Uttaradit.
Drainage Area	15,718 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+69.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank infront of gage observer's house.
Elevation	+84.000 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1966 to date.
Rating Operation	
Period of Rating	1966 to date.
Rated by Float	-
Rated by Current Meter	1966 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 75 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.09	71.18	70.88	69.63	70.56	70.44	70.20	69.82	72.27	70.09	70.89	71.87	
2	71.82	71.51	70.47	70.13	70.33	70.38	70.35	69.77	72.25	69.90	71.52	71.85	
3	71.30	71.11	70.51	70.99	70.19	70.10	70.31	70.24	72.06	69.67	71.36	71.87	
4	71.46	71.61	70.40	69.85	70.01	70.06	70.14	70.21	72.00	70.06	71.36	71.90	
5	70.34	71.01	70.16	69.62	70.83	70.25	70.39	70.44	70.07	70.40	70.92	71.71	
6	71.26	72.09	69.61	71.15	70.77	70.05	69.99	71.46	70.49	70.21	70.56	72.38	
7	71.47	71.54	69.63	70.83	70.64	70.49	69.95	71.36	71.75	70.27	70.53	70.68	
8	71.47	71.60	70.14	70.59	70.40	69.94	70.10	69.82	71.85	70.91	71.81	71.72	
9	71.78	71.26	70.34	69.78	70.10	69.96	69.94	70.43	71.07	70.53	71.75	72.24	
10	71.44	70.25	69.91	69.59	69.95	69.87	69.93	70.24	71.04	69.60	72.60	72.06	
11	71.12	70.88	69.94	69.61	70.10	70.14	69.96	70.16	71.83	71.74	72.07	71.81	
12	69.98	71.06	70.17	69.57	70.35	69.91	69.90	70.24	70.91	71.05	71.68	71.57	
13	70.59	71.21	70.57	69.65	70.14	69.86	69.91	70.53	69.99	70.60	70.67	71.23	
14	70.96	70.66	69.72	69.64	70.22	70.14	69.84	70.33	70.82	70.60	70.65	70.64	
15	70.99	71.11	70.11	69.66	70.44	70.67	69.82	69.70	71.05	70.36	71.34	71.82	
16	71.58	70.90	70.40	70.63	70.13	70.66	69.86	71.50	70.44	70.87	71.54	72.14	
17	71.98	70.26	69.81	69.89	69.98	70.29	70.01	71.29	70.79	69.60	71.58	72.12	
18	71.37	71.03	70.16	69.77	69.92	71.35	69.87	71.26	70.58	70.86	71.90	72.38	
19	70.33	71.27	69.88	69.71	69.86	72.04	69.94	71.61	70.11	71.22	71.64	72.13	
20	71.36	70.83	69.83	69.67	69.85	71.07	69.96	70.96	69.60	71.67	71.04	71.49	
21	71.58	71.16	69.87	70.01	69.79	70.74	69.94	70.49	70.51	70.92	70.38	71.66	
22	71.34	70.72	70.25	70.20	69.77	71.13	69.89	70.71	70.48	70.40	72.05	71.60	
23	71.79	70.69	70.09	70.11	69.79	71.13	69.86	71.62	69.89	70.24	72.24	71.65	
24	72.19	69.86	70.41	70.08	69.80	71.26	69.87	71.59	70.76	70.59	72.12	71.75	
25	71.10	70.49	69.71	69.67	69.80	72.13	69.87	71.67	69.68	70.56	71.75	71.90	
26	70.40	70.40	69.70	69.71	69.99	70.73	69.84	71.69	69.68	70.79	72.04	71.97	
27	71.85	70.33	69.69	70.26	69.93	70.39	70.03	71.58	69.75	70.86	71.11	71.91	
28	71.42	70.23	69.67	70.66	69.99	70.38	70.67	70.83	70.57	71.01	70.86	71.31	
29	71.48	70.85	69.84	70.79	69.99	70.31	70.37	70.97	70.49	70.41		72.17	
30	71.63	69.62	69.88	69.94	70.07	70.14	70.83	72.15	70.11	70.43		72.24	
31		69.63		70.06	71.37		70.30		69.70	70.60		71.83	
Mean	71.32	70.85	70.06	70.05	70.16	70.53	70.06	70.82	70.73	70.55	71.43	71.79	
Max	72.19	72.09	70.88	71.15	71.37	72.13	70.83	72.15	72.27	71.74	72.60	72.38	72.60
Min	69.98	69.62	69.61	69.57	69.77	69.86	69.82	69.70	69.60	69.60	70.38	70.64	69.57

Annual Max Momentary Gage Height 73.81 M (MSL), at 15.00 Hours, on Feb 10, 1992
Zero Gage at Bottom Elevation 69.00 M (MSL), River Bed 67.90 M (MSL)
Left Bank Elevation 81.29 M (MSL)
Right Bank Elevation 80.72 M (MSL), Drainage Area 15718 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	280.40	143.20	101.40	2.60	59.80	46.00	27.00	7.80	309.20	19.50	102.70	245.20	
2	237.20	190.50	49.00	22.10	36.40	40.40	38.00	6.10	306.00	11.00	192.00	242.00	
3	160.00	133.40	53.30	116.60	26.30	20.00	34.80	29.80	275.60	3.40	168.40	245.20	
4	183.00	205.50	42.00	9.00	15.50	18.00	22.80	27.70	266.00	18.00	168.40	250.00	
5	37.20	119.40	24.20	2.40	94.90	30.50	41.20	46.00	18.50	42.00	106.80	220.50	
6	154.40	280.40	2.20	139.00	87.10	17.50	14.60	183.00	51.00	27.70	59.80	326.80	
7	184.50	195.00	2.60	94.90	70.20	51.00	13.00	168.40	226.50	31.90	55.90	75.40	
8	184.50	204.00	22.80	63.70	42.00	12.60	20.00	7.80	242.00	105.40	235.60	222.00	
9	231.00	154.40	37.20	6.40	20.00	13.40	12.60	45.00	127.80	55.90	226.50	304.40	
10	180.00	30.50	11.40	1.90	13.00	9.80	12.20	29.80	123.60	2.00	362.00	275.60	
11	134.80	101.40	12.60	2.20	20.00	22.80	13.40	24.20	238.80	225.00	277.20	235.60	
12	14.20	126.40	24.90	1.70	38.00	11.40	11.00	29.80	105.40	125.00	216.00	199.50	
13	63.70	147.40	61.10	3.00	22.80	9.40	11.40	55.90	14.60	65.00	74.10	150.20	
14	112.40	72.80	4.60	2.80	28.40	22.80	8.60	36.40	93.60	65.00	71.50	70.20	
15	116.60	133.40	20.70	3.20	46.00	74.10	7.80	4.00	125.00	38.80	165.60	237.20	
16	201.00	104.00	42.00	68.90	22.10	72.80	9.40	189.00	46.00	100.10	195.00	288.40	
17	262.80	31.20	7.40	10.60	14.20	33.30	15.50	158.60	89.70	2.00	201.00	285.20	
18	169.80	122.20	24.20	6.10	11.80	167.00	9.80	154.40	62.40	98.80	250.00	326.80	
19	36.40	155.80	10.20	4.30	9.40	272.40	12.60	205.50	20.70	148.80	210.00	286.80	
20	168.40	94.90	8.20	3.40	9.00	127.80	13.40	112.40	2.00	214.50	123.60	187.50	
21	201.00	140.40	9.80	15.50	6.70	83.20	12.60	51.00	53.30	106.80	40.40	213.00	
22	165.60	80.60	30.50	27.00	6.10	136.20	10.60	79.30	50.00	42.00	274.00	204.00	
23	232.50	76.70	19.50	20.70	6.70	136.20	9.40	207.00	10.60	29.80	304.40	211.50	
24	296.40	9.40	43.00	19.00	7.00	154.40	9.80	202.50	85.80	63.70	285.20	226.50	
25	132.00	51.00	4.30	3.40	7.00	286.80	9.80	214.50	3.60	59.80	226.50	250.00	
26	42.00	42.00	4.00	4.30	14.60	81.90	8.60	217.50	3.60	89.70	272.40	261.20	
27	242.00	36.40	3.80	31.20	12.20	41.20	16.50	201.00	5.50	98.80	133.40	251.60	
28	177.00	29.10	3.40	72.80	14.60	40.40	74.10	94.90	61.10	119.40	98.80	161.40	
29	186.00	97.50	8.60	89.70	14.60	34.80	39.60	113.80	51.00	43.00		293.20	
30	208.50	2.40	10.20	12.60	18.50	22.80	94.90	290.00	20.70	45.00		304.40	
31		2.60		18.00	169.80		34.00		4.00	65.00		238.80	
Total	4995.30	3313.90	699.10	879.00	964.70	2090.90	669.00	3193.10	3093.60	2162.80	5097.20	7290.10	34448.70 CMSDAY
Mean	166.51	106.90	23.30	28.35	31.12	69.70	21.58	106.44	99.79	69.77	182.04	235.16	94.38 CMS
Max	296.40	280.40	101.40	139.00	169.80	286.80	94.90	290.00	309.20	225.00	362.00	326.80	362.00 CMS
Min	14.20	2.40	2.20	1.70	6.10	9.40	7.80	4.00	2.00	2.00	40.40	70.20	1.70 CMS
Runoff	431.594	286.321	60.402	75.946	83.350	180.654	57.802	275.884	267.287	186.866	440.398	629.865	2976.368 MCM

Momentary Peak 552.00 CMS, at 73.81 M (MSL), at 15.00 Hours, on Feb 10, 1992

Runoff Yield 6.00 Liters/Second/Square KM, Momentary Peak Yield 35.12 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

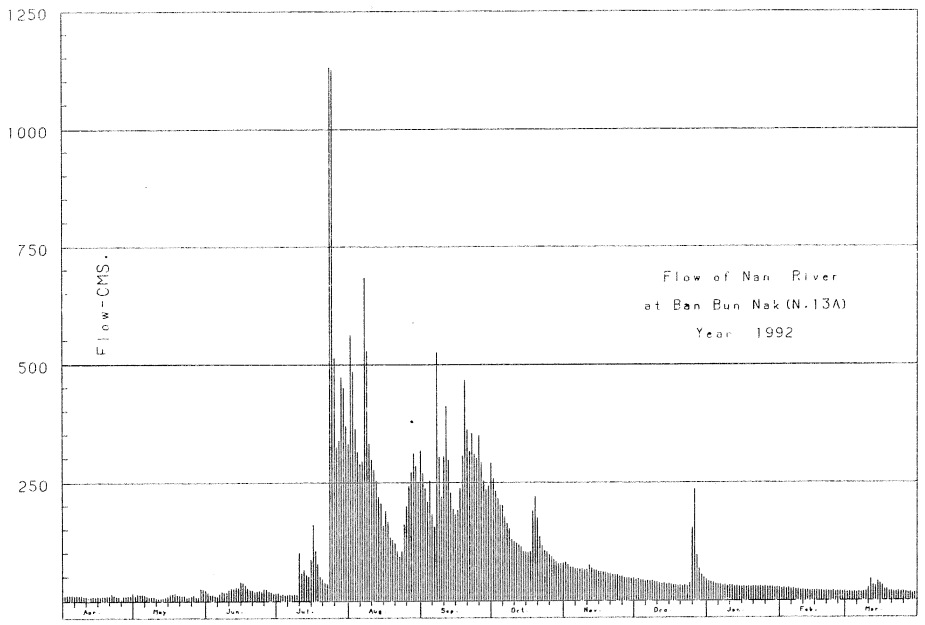
Nan River at Ban Bun Nak, Nan (N.13A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 64 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	178.10	178.10	178.15	178.14	180.56	179.50	179.46	178.65	178.40	178.36	178.24	178.16	
2	178.10	178.12	178.12	178.12	180.30	179.37	179.35	178.61	178.40	178.36	178.24	178.16	
3	178.11	178.13	178.11	178.12	179.88	179.26	179.29	178.58	178.39	178.34	178.24	178.16	
4	178.10	178.12	178.10	178.11	179.68	179.44	179.23	178.57	178.38	178.33	178.24	178.16	
5	178.10	178.12	178.09	178.12	179.58	179.15	179.23	178.56	178.37	178.32	178.23	178.16	
6	178.10	178.08	178.13	178.12	179.60	179.05	179.13	178.55	178.37	178.31	178.23	178.16	
7	178.10	178.08	178.18	178.12	180.97	180.44	179.08	178.55	178.37	178.30	178.22	178.16	
8	178.10	178.07	178.15	178.12	180.45	179.64	179.03	178.55	178.37	178.30	178.21	178.16	
9	178.09	178.07	178.17	178.12	179.75	179.30	178.93	178.54	178.36	178.29	178.20	178.18	
10	178.08	178.05	178.21	178.78	179.62	179.64	178.90	178.54	178.35	178.29	178.20	178.24	
11	178.06	178.05	178.24	178.50	179.53	180.06	178.89	178.61	178.34	178.29	178.20	178.40	
12	178.08	178.05	178.24	178.54	179.44	179.61	178.87	178.56	178.33	178.28	178.19	178.30	
13	178.08	178.05	178.26	178.47	179.30	179.34	178.85	178.54	178.33	178.28	178.19	178.27	
14	178.08	178.07	178.26	178.44	179.25	179.20	178.80	178.53	178.32	178.28	178.19	178.36	
15	178.08	178.08	178.37	178.69	179.06	179.15	178.79	178.52	178.32	178.27	178.19	178.32	
16	178.08	178.12	178.34	179.07	179.18	179.19	178.78	178.51	178.31	178.27	178.19	178.29	
17	178.08	178.14	178.31	178.81	179.09	179.37	178.80	178.51	178.31	178.27	178.19	178.22	
18	178.09	178.14	178.24	178.62	178.95	179.65	179.18	178.50	178.30	178.27	178.18	178.21	
19	178.09	178.12	178.22	178.45	178.92	180.24	179.31	178.49	178.29	178.27	178.18	178.18	
20	178.09	178.10	178.20	178.40	178.89	179.87	179.12	178.48	178.29	178.27	178.18	178.17	
21	178.14	178.09	178.18	178.34	178.80	179.69	178.96	178.47	178.29	178.27	178.18	178.16	
22	178.10	178.10	178.19	178.33	178.73	179.84	178.86	178.47	178.29	178.27	178.18	178.17	
23	178.09	178.07	178.19	182.25	178.80	179.66	178.81	178.46	178.29	178.27	178.18	178.17	
24	178.08	178.07	178.18	182.23	179.07	179.63	178.79	178.45	178.33	178.27	178.17	178.17	
25	178.07	178.09	178.23	180.40	179.22	179.82	178.76	178.44	179.04	178.27	178.17	178.16	
26	178.08	178.10	178.22	179.72	179.39	179.59	178.72	178.42	179.37	178.27	178.17	178.15	
27	178.08	178.07	178.19	179.78	179.51	179.44	178.69	178.42	178.75	178.27	178.17	178.15	
28	178.09	178.07	178.16	180.26	179.67	179.36	178.65	178.41	178.55	178.26	178.17	178.15	
29	178.10	178.24	178.14	180.19	179.56	179.39	178.63	178.41	178.47	178.25		178.14	
30	178.14	178.22	178.14	179.90	179.43	179.59	178.62	178.41	178.42	178.25		178.14	
31		178.21		179.75	179.69		178.63		178.40	178.25		178.14	
Mean	178.09	178.10	178.20	179.00	179.48	179.55	178.94	178.51	178.42	178.29	178.20	178.20	
Max	178.14	178.24	178.37	182.25	180.97	180.44	179.46	178.65	179.37	178.36	178.24	178.40	182.25
Min	178.06	178.05	178.09	178.11	178.73	179.05	178.62	178.41	178.29	178.25	178.17	178.14	178.05

Annual Max Momentary Gage Height 182.64 M (MSL), at 18.00 Hours, on Jul 23, 1992
Zero Gage at Bottom Elevation 177.39 M (MSL), River Bed 175.91 M (MSL)
Left Bank Elevation 189.43 M (MSL)
Right Bank Elevation 192.62 M (MSL), Drainage Area 8784 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.00	12.00	17.25	16.20	563.00	270.00	260.00	82.50	46.00	40.80	26.70	18.30	
2	12.00	14.10	14.10	14.10	485.00	237.50	232.50	76.50	46.00	40.80	26.70	18.30	
3	13.05	15.15	13.05	14.10	365.00	210.00	217.50	72.00	44.70	38.20	26.70	18.30	
4	12.00	14.10	12.00	13.05	315.00	255.00	202.50	70.50	43.40	36.90	26.70	18.30	
5	12.00	14.10	10.80	14.10	290.00	182.50	202.50	69.00	42.10	35.60	25.65	18.30	
6	12.00	9.60	15.15	14.10	295.00	157.50	177.50	67.50	42.10	34.30	25.65	18.30	
7	12.00	9.60	20.40	14.10	686.00	527.00	165.00	67.50	42.10	33.00	24.60	18.30	
8	12.00	8.40	17.25	14.10	530.00	305.00	152.50	67.50	42.10	33.00	23.55	18.30	
9	10.80	8.40	19.35	14.10	332.50	220.00	131.00	66.00	40.80	31.95	22.50	20.40	
10	9.60	6.00	23.55	102.00	300.00	305.00	125.00	66.00	39.50	31.95	22.50	26.70	
11	7.20	6.00	26.70	60.00	277.50	413.00	123.00	76.50	38.20	31.95	22.50	46.00	
12	9.60	6.00	26.70	66.00	255.00	297.50	119.00	69.00	36.90	30.90	21.45	33.00	
13	9.60	6.00	28.80	55.80	220.00	230.00	115.00	66.00	36.90	30.90	21.45	29.85	
14	9.60	8.40	28.80	51.60	207.50	195.00	105.00	64.50	35.60	30.90	21.45	40.80	
15	9.60	9.60	42.10	88.50	160.00	182.50	103.50	63.00	35.60	29.85	21.45	35.60	
16	9.60	14.10	38.20	162.50	190.00	192.50	102.00	61.50	34.30	29.85	21.45	31.95	
17	9.60	16.20	34.30	107.00	167.50	237.50	105.00	61.50	34.30	29.85	21.45	24.60	
18	10.80	16.20	26.70	78.00	135.00	307.50	190.00	60.00	33.00	29.85	20.40	23.55	
19	10.80	14.10	24.60	53.00	129.00	467.00	222.50	58.60	31.95	29.85	20.40	20.40	
20	10.80	12.00	22.50	46.00	123.00	362.50	175.00	57.20	31.95	29.85	20.40	19.35	
21	16.20	10.80	20.40	38.20	105.00	317.50	137.00	55.80	31.95	29.85	20.40	18.30	
22	12.00	12.00	21.45	36.90	94.50	355.00	117.00	55.80	31.95	29.85	20.40	19.35	
23	10.80	8.40	21.45	1132.50	105.00	310.00	107.00	54.40	31.95	29.85	20.40	19.35	
24	9.60	8.40	20.40	1125.50	162.50	302.50	103.50	53.00	36.90	29.85	19.35	19.35	
25	8.40	10.80	25.65	515.00	200.00	350.00	99.00	51.60	155.00	29.85	19.35	18.30	
26	9.60	12.00	24.60	325.00	242.50	292.50	93.00	48.80	237.50	29.85	19.35	17.25	
27	9.60	8.40	21.45	340.00	272.50	255.00	88.50	48.80	97.50	29.85	19.35	17.25	
28	10.80	8.40	18.30	473.00	312.50	235.00	82.50	47.40	67.50	28.80	19.35	17.25	
29	12.00	26.70	16.20	452.00	285.00	242.50	79.50	47.40	55.80	27.75		16.20	
30	16.20	24.60	16.20	370.00	252.50	292.50	78.00	47.40	48.80	27.75		16.20	
31		23.55		332.50	317.50		79.50		46.00	27.75		16.20	
Total	329.85	374.10	668.40	6138.95	8375.50	8507.00	4290.50	1853.20	1618.35	981.25	621.60	693.60	34452.30 CMSDAY
Mean	11.00	12.07	22.28	198.03	270.18	283.57	138.40	61.77	52.20	31.65	22.20	22.37	94.39 CMS
Max	16.20	26.70	42.10	1132.50	686.00	527.00	260.00	82.50	237.50	40.80	26.70	46.00	1132.50 CMS
Min	7.20	6.00	10.80	13.05	94.50	157.50	78.00	47.40	31.95	27.75	19.35	16.20	6.00 CMS
Runoff	28.499	32.322	57.750	530.405	723.643	735.005	370.699	160.117	139.825	84.780	53.706	59.927	2976.679 MCM

Momentary Peak 1269.00 CMS, at 182.64 M (MSL), at 18.00 Hours, on Jul 23, 1992
Runoff Yield 10.75 Liters/Second/Square KM, Momentary Peak Yield 144.47 Liters/Second/Square KM

WATER YEAR 1992

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 — Staff gage.

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 — 5-time daily readings at 06.00, 09.00, 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 — 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 — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 47 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

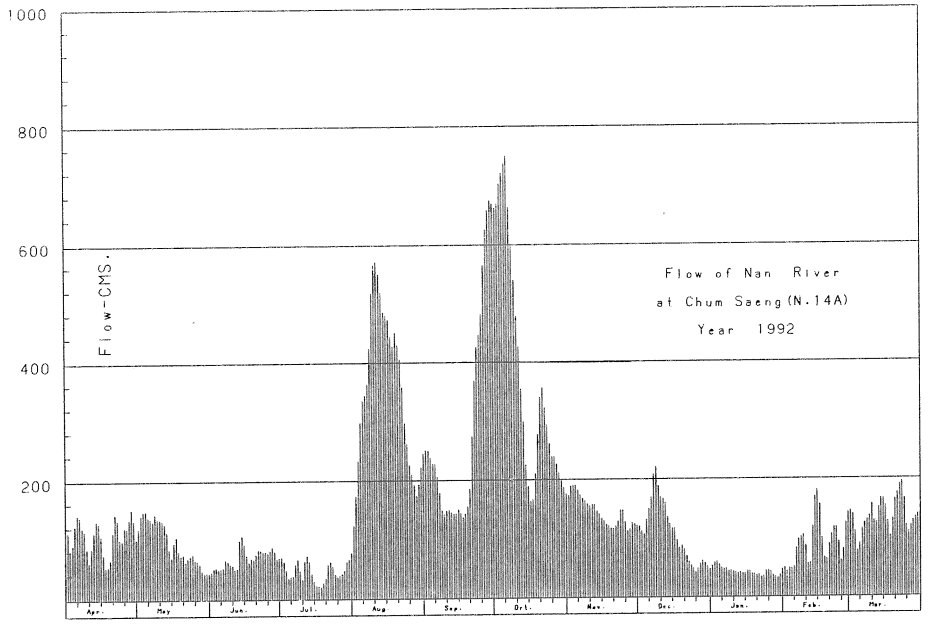
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.96	20.02	19.02	19.37	20.09	21.54	25.10	22.44	21.66	19.87	19.09	20.35	
2	19.54	20.32	19.13	19.29	20.69	21.55	25.14	22.61	21.46	20.10	18.97	20.29	
3	19.67	20.38	19.13	19.06	21.37	21.41	25.39	22.64	21.37	20.12	19.08	19.91	
4	20.09	20.41	19.10	18.86	22.04	21.31	25.51	22.63	21.83	19.99	19.05	19.48	
5	20.33	20.28	19.10	18.88	22.40	21.29	25.63	22.55	22.12	19.75	19.11	19.63	
6	20.27	20.23	19.15	18.92	22.48	21.05	25.72	22.44	22.38	19.73	19.53	19.97	
7	20.06	20.19	19.32	19.21	22.67	20.76	25.51	22.38	22.83	19.70	19.73	20.09	
8	19.97	20.33	19.30	19.34	23.22	20.41	25.15	22.31	22.97	19.57	19.80	20.17	
9	19.59	20.23	19.22	19.05	24.00	20.31	25.00	22.25	22.63	19.57	19.83	20.24	
10	19.26	20.24	19.21	18.82	24.36	20.38	24.70	22.18	22.39	19.53	19.60	20.50	
11	19.58	20.19	19.08	19.28	24.40	20.41	24.41	22.23	22.37	19.38	19.19	20.15	
12	19.95	20.14	19.13	19.42	24.25	20.35	23.98	22.21	22.25	19.37	19.19	20.10	
13	20.20	19.96	19.76	19.27	24.00	20.33	23.61	22.08	21.92	19.40	20.03	20.43	
14	20.14	19.56	19.87	18.98	23.75	20.32	23.00	21.99	21.71	19.36	20.64	20.60	
15	19.86	19.39	19.67	18.74	23.69	20.42	22.62	21.89	21.59	19.25	20.77	20.61	
16	19.45	19.70	19.42	18.61	23.64	20.33	22.32	21.81	21.57	19.57	20.49	20.45	
17	19.14	19.85	19.28	18.57	23.39	20.26	22.34	21.72	21.14	19.51	19.76	20.12	
18	19.18	19.52	19.35	18.56	23.25	20.32	22.86	21.65	20.80	19.32	19.33	19.81	
19	19.32	19.41	19.34	18.69	23.46	20.48	23.44	21.60	20.93	19.21	19.28	20.19	
20	19.96	19.45	19.44	18.85	23.28	20.82	23.89	21.55	20.73	19.14	19.64	20.58	
21	20.34	19.29	19.56	19.20	23.06	21.80	24.00	21.66	20.44	19.13	19.84	20.71	
22	20.20	19.35	19.53	19.28	22.61	22.72	23.78	21.80	20.11	18.96	20.01	20.89	
23	19.78	19.40	19.51	19.16	22.04	23.23	23.56	22.09	19.95	18.97	20.00	20.93	
24	19.76	19.46	19.50	18.97	21.66	23.42	23.32	22.07	19.73	19.59	19.69	20.61	
25	20.06	19.33	19.49	18.89	21.29	23.70	23.13	21.80	19.48	19.63	19.26	20.03	
26	20.03	19.29	19.54	18.91	21.09	24.35	23.12	21.49	19.71	19.46	19.51	19.89	
27	20.24	19.24	19.60	18.98	20.91	24.83	23.02	21.53	20.03	19.11	20.11	20.04	
28	20.43	19.05	19.52	19.05	20.70	25.06	22.86	21.74	20.16	18.87	20.31	20.14	
29	20.19	19.00	19.35	19.28	20.91	25.19	22.74	21.73	20.07	18.83		20.22	
30	19.80	19.00	19.36	19.32	21.24	25.14	22.58	21.66	19.83	18.87		20.27	
31		19.00		19.47	21.48		22.46		19.70	19.03		20.30	
Mean	19.88	19.72	19.37	19.04	22.50	21.78	23.87	22.02	21.16	19.42	19.67	20.25	
Max	20.43	20.41	19.87	19.47	24.40	25.19	25.72	22.64	22.97	20.12	20.77	20.93	25.72
Min	19.14	19.00	19.02	18.56	20.09	20.26	22.32	21.49	19.48	18.83	18.97	19.48	18.56

Annual Max Momentary Gage Height — 25.75 M (MSL), at 6.00 Hours, on Oct 6, 1992

Zero Gage at Bottom Elevation — 19.00 M (MSL), River Bed 15.27 M (MSL)

Left Bank Elevation — 27.90 M (MSL)

Right Bank Elevation — 27.54 M (MSL), Drainage Area 33182 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.0	118.6	45.3	69.8	124.2	250.3	663.0	173.5	121.3	52.1	49.8	145.0	
2	82.5	142.6	52.4	63.8	173.7	251.2	668.6	188.4	111.7	59.0	42.2	140.2	
3	92.2	147.4	52.4	47.9	234.3	238.0	703.6	191.0	107.7	59.6	49.2	110.2	
4	124.2	149.9	50.5	35.6	298.2	228.9	720.4	190.1	131.0	55.7	47.2	78.0	
5	143.4	139.4	50.5	36.8	336.0	227.1	737.2	183.1	150.4	48.8	51.2	89.2	
6	138.6	135.4	53.7	39.2	344.4	205.5	749.8	173.5	168.6	48.2	81.8	114.7	
7	121.8	132.2	66.0	57.7	364.4	179.6	663.7	168.6	208.0	47.5	96.7	124.2	
8	114.7	143.4	64.5	67.5	424.3	149.9	571.5	163.7	222.0	44.4	102.0	130.6	
9	86.2	135.4	58.5	47.2	519.0	141.8	540.0	159.5	190.1	44.4	104.2	136.2	
10	61.5	136.2	57.7	33.2	565.8	147.4	479.0	154.6	169.3	43.6	87.0	157.5	
11	85.5	132.2	49.2	63.0	571.0	149.9	425.8	158.1	167.9	40.7	56.3	129.0	
12	113.3	128.2	52.4	73.5	551.5	145.0	353.9	156.7	159.5	40.6	56.3	125.0	
13	133.0	114.0	99.0	62.2	519.0	143.4	299.4	147.6	136.8	41.0	119.4	151.6	
14	128.2	84.0	107.3	42.8	487.0	142.6	225.0	141.3	124.0	40.4	169.4	166.0	
15	106.5	71.2	92.2	29.0	479.8	150.7	189.3	134.8	117.5	38.8	180.5	166.9	
16	75.8	94.5	73.5	22.5	473.8	143.4	164.4	129.7	116.6	44.4	156.7	153.3	
17	53.1	105.8	63.0	20.8	443.8	137.8	165.8	124.6	97.3	43.2	99.0	126.6	
18	55.7	81.0	68.2	20.4	427.7	142.6	211.0	120.7	83.0	39.8	66.7	102.7	
19	66.0	72.7	67.5	26.5	452.2	155.8	277.2	118.0	88.2	38.1	63.0	132.2	
20	114.0	75.8	75.0	35.0	431.2	184.8	339.9	115.7	80.6	37.1	90.0	164.3	
21	144.2	63.8	84.0	57.0	406.6	275.0	357.0	121.3	70.4	36.9	105.0	175.3	
22	133.0	68.2	81.8	63.0	358.1	369.6	323.2	129.0	59.3	34.4	117.8	191.1	
23	100.5	72.0	80.2	54.4	298.2	425.4	292.8	148.3	54.5	34.5	117.0	194.7	
24	99.0	76.5	79.5	42.2	261.7	447.4	262.4	146.9	48.2	44.8	93.8	166.9	
25	121.8	66.7	78.7	37.4	227.1	481.0	239.9	129.0	42.6	45.7	61.5	119.4	
26	119.4	63.8	82.5	38.6	209.1	564.5	238.8	113.0	47.7	42.2	80.2	108.7	
27	136.2	60.0	87.0	42.8	192.9	626.9	227.3	114.9	56.9	36.7	125.8	120.2	
28	151.6	47.2	81.0	47.2	174.5	657.4	211.0	125.7	60.8	33.1	141.8	128.2	
29	132.2	44.0	68.2	63.0	192.9	675.6	199.8	125.1	58.1	32.5		134.6	
30	102.0	44.0	69.0	66.0	222.6	668.6	185.8	121.3	50.9	36.2		138.6	
31		44.0		77.2	244.6		175.2		47.5	46.0		141.0	
Total	3250.1	2990.1	2090.7	1483.2	11009.6	8707.1	11861.7	4367.7	3348.4	1330.4	2611.5	4262.1	57312.6 CMSDAY
Mean	108.3	96.5	69.7	47.8	355.1	290.2	382.6	145.6	108.0	42.9	93.3	137.5	157.0 CMS
Max	151.6	149.9	107.3	77.2	571.0	675.6	749.8	191.0	222.0	59.6	180.5	194.7	749.8 CMS
Min	53.1	44.0	45.3	20.4	124.2	137.8	164.4	113.0	42.6	32.5	42.2	78.0	20.4 CMS
Runoff	280.81	258.34	180.64	128.15	951.23	752.29	1024.85	377.37	289.30	114.95	225.63	368.25	4951.81 MCM

Momentary Peak 754.00 CMS, at 25.75 M (MSL), at 6.00 Hours, on Oct 6, 1992

Runoff Yield 4.73 Liters/Second/Square KM, Momentary Peak Yield 22.72 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

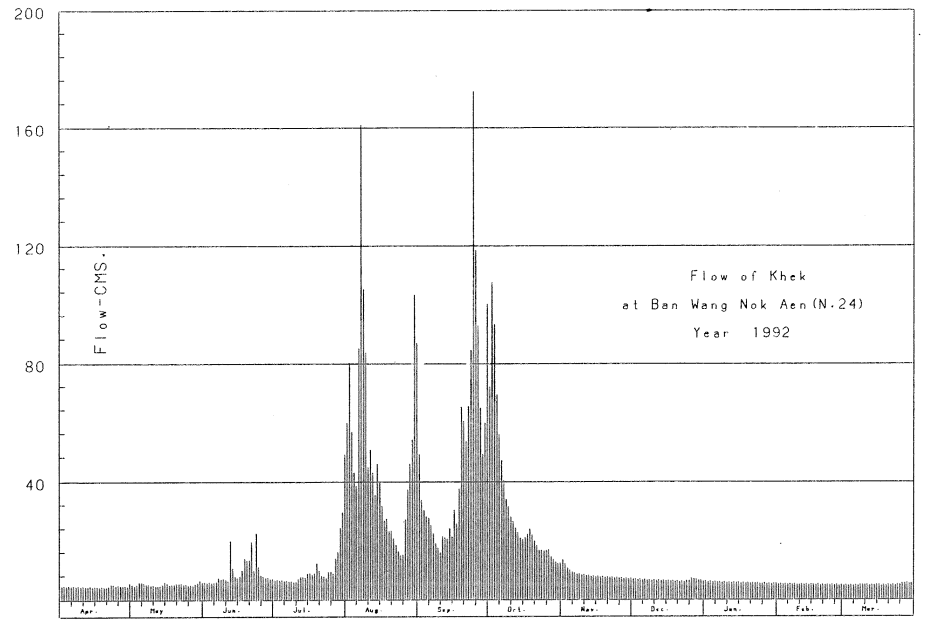
Khek River at Ban Wang Nok Aen, Phitsanulok (N.24)

Location	Lat. 16°-50'-35" N., Long. 100°-31'-20" E., on right bank about 2 kilometers downstream from Sakunothayan Fall, Amphoe Wang Thong, Phitsanulok.
Drainage Area	1,861 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Near the gage site.
Elevation	+12.845 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965-1974, 1980 to date.
Rated by Float	-
Rated by Current Meter	1965-1974, 1980 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.48	0.53	0.71	0.93	3.66	3.30	4.06	1.69	0.99	0.81	0.61	0.52	
2	0.47	0.49	0.72	0.91	4.30	2.67	5.06	1.61	0.97	0.80	0.61	0.51	
3	0.46	0.51	0.73	0.90	3.57	2.53	4.67	1.53	0.95	0.79	0.60	0.51	
4	0.47	0.77	0.71	0.88	3.05	2.41	3.99	1.47	0.94	0.78	0.60	0.50	
5	0.47	0.72	0.68	0.86	2.86	2.40	3.53	1.44	0.93	0.77	0.60	0.50	
6	0.46	0.65	0.79	0.84	4.44	2.26	3.22	1.41	0.92	0.76	0.59	0.50	
7	0.45	0.60	1.03	0.82	6.31	2.13	2.94	1.37	0.92	0.75	0.59	0.51	
8	0.45	0.56	0.99	0.80	5.01	1.96	2.69	1.35	0.91	0.75	0.59	0.52	
9	0.44	0.53	1.00	0.77	4.39	1.88	2.58	1.32	0.90	0.74	0.58	0.58	
10	0.44	0.50	0.95	0.80	3.11	1.81	2.42	1.30	0.90	0.73	0.58	0.56	
11	0.43	0.48	0.79	0.96	3.36	2.07	2.33	1.26	0.89	0.70	0.58	0.53	
12	0.43	0.47	2.01	1.15	3.04	2.05	2.23	1.23	0.89	0.72	0.57	0.52	
13	0.42	0.45	1.51	1.10	2.75	2.03	2.14	1.20	0.88	0.71	0.57	0.51	
14	0.41	0.58	1.19	1.09	3.16	2.22	2.06	1.19	0.87	0.72	0.56	0.53	
15	0.41	0.74	1.03	1.36	2.93	2.08	2.02	1.17	0.86	0.71	0.56	0.53	
16	0.40	0.62	1.20	1.39	2.59	2.52	2.07	1.17	0.85	0.70	0.55	0.52	
17	0.40	0.55	1.46	1.32	2.36	2.29	2.11	1.16	0.85	0.69	0.56	0.51	
18	0.40	0.52	1.71	1.39	2.37	2.83	2.21	1.15	0.84	0.69	0.57	0.51	
19	0.40	0.59	1.66	1.63	2.17	3.85	2.10	1.13	0.83	0.68	0.55	0.51	
20	0.40	0.61	1.68	1.46	2.17	3.68	2.01	1.12	0.82	0.68	0.55	0.53	
21	0.40	0.67	1.98	1.24	2.04	3.46	1.92	1.12	0.81	0.67	0.54	0.54	
22	0.62	0.63	1.45	1.15	1.94	3.85	1.85	1.10	0.81	0.67	0.54	0.53	
23	0.53	0.59	2.14	1.07	1.83	4.42	1.84	1.09	0.80	0.67	0.53	0.53	
24	0.51	0.56	1.54	1.43	1.75	6.57	1.84	1.08	0.84	0.66	0.54	0.56	
25	0.50	0.53	1.28	1.45	1.76	5.34	1.85	1.07	0.89	0.65	0.53	0.58	
26	0.49	0.51	1.15	1.37	2.37	4.65	1.85	1.05	1.02	0.65	0.53	0.63	
27	0.47	0.51	1.09	1.71	2.82	3.84	1.74	1.03	1.01	0.64	0.51	0.69	
28	0.45	0.59	1.06	1.81	3.16	3.29	1.68	1.02	0.94	0.64	0.52	0.70	
29	0.44	0.71	1.00	2.23	3.48	3.67	1.65	1.01	0.90	0.63		0.65	
30	0.64	0.83	0.96	2.48	4.95	4.86	1.61	1.00	0.86	0.63		0.61	
31		0.76		3.29	4.48		1.62		0.83	0.62		0.58	
Mean	0.46	0.59	1.21	1.31	3.17	3.10	2.45	1.23	0.89	0.70	0.56	0.55	
Max	0.64	0.83	2.14	3.29	6.31	6.57	5.06	1.69	1.02	0.81	0.61	0.70	6.57
Min	0.40	0.45	0.68	0.77	1.75	1.81	1.61	1.00	0.80	0.62	0.51	0.50	0.40

Annual Max Momentary Gage Height 7.06 M (A.D), at 10.00 Hours, on Sep 24, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.46 M (A.D)
Left Bank Elevation 13.92 M (A.D)
Right Bank Elevation 14.63 M (A.D), Drainage Area 1861 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.82	5.05	5.86	6.86	59.80	49.50	72.10	13.80	7.14	6.32	5.41	5.00	
2	4.77	4.86	5.91	6.77	80.50	33.75	107.40	12.20	7.05	6.27	5.41	4.95	
3	4.73	4.95	5.95	6.73	57.10	30.60	93.45	10.95	6.95	6.23	5.36	4.95	
4	4.77	6.14	5.86	6.64	43.25	28.20	69.70	10.05	6.91	6.18	5.36	4.91	
5	4.77	5.91	5.73	6.55	38.50	28.00	55.90	9.60	6.86	6.14	5.36	4.91	
6	4.73	5.59	6.23	6.45	85.40	25.20	47.50	9.15	6.82	6.09	5.32	4.91	
7	4.68	5.36	7.32	6.36	160.95	22.60	40.50	8.86	6.82	6.05	5.32	4.95	
8	4.68	5.18	7.14	6.27	105.40	19.20	34.25	8.77	6.77	6.05	5.32	5.00	
9	4.64	5.05	7.18	6.14	83.65	17.60	31.60	8.64	6.73	6.00	5.27	5.27	
10	4.64	4.91	6.95	6.27	44.75	16.20	28.40	8.55	6.73	5.95	5.27	5.18	
11	4.59	4.82	6.23	7.00	51.00	21.40	26.60	8.36	6.68	5.82	5.27	5.05	
12	4.59	4.77	20.20	7.86	43.00	21.00	24.60	8.23	6.68	5.91	5.23	5.00	
13	4.55	4.68	10.65	7.64	35.75	20.60	22.80	8.09	6.64	5.86	5.23	4.95	
14	4.50	5.27	8.05	7.59	46.00	24.40	21.20	8.05	6.59	5.91	5.18	5.05	
15	4.50	6.00	7.32	8.82	40.25	21.60	20.40	7.95	6.55	5.86	5.18	5.05	
16	4.45	5.45	8.09	8.95	31.80	30.40	21.40	7.95	6.50	5.82	5.14	5.00	
17	4.45	5.14	9.90	8.64	27.20	25.80	22.20	7.91	6.50	5.77	5.18	4.95	
18	4.45	5.00	14.20	8.95	27.40	37.75	24.20	7.86	6.45	5.77	5.23	4.95	
19	4.45	5.32	13.20	12.60	23.40	65.50	22.00	7.77	6.41	5.73	5.14	4.95	
20	4.45	5.41	13.60	9.90	23.40	60.40	20.20	7.73	6.36	5.73	5.14	5.05	
21	4.45	5.68	19.60	8.27	20.80	53.80	18.40	7.73	6.32	5.68	5.09	5.09	
22	5.45	5.50	9.75	7.86	18.80	65.50	17.00	7.64	6.32	5.68	5.09	5.05	
23	5.05	5.32	22.80	7.50	16.60	84.70	16.80	7.59	6.27	5.68	5.05	5.05	
24	4.95	5.18	11.10	9.45	15.00	172.65	16.80	7.55	6.45	5.64	5.09	5.18	
25	4.91	5.05	8.45	9.75	15.20	118.60	17.00	7.50	6.68	5.59	5.05	5.27	
26	4.86	4.95	7.86	8.86	27.40	92.75	17.00	7.41	7.27	5.59	5.05	5.50	
27	4.77	4.95	7.59	14.20	37.50	65.20	14.80	7.32	7.23	5.55	4.95	5.77	
28	4.68	5.32	7.45	16.20	46.00	49.25	13.60	7.27	6.91	5.55	5.00	5.82	
29	4.64	5.86	7.18	24.60	54.40	60.10	13.00	7.23	6.73	5.50		5.59	
30	5.55	6.41	7.00	29.60	103.25	100.10	12.20	7.18	6.55	5.50		5.41	
31		6.09		49.25	86.80		12.40		6.41	5.45		5.27	
Total	141.52	165.17	284.35	338.53	1550.25	1462.35	975.40	254.89	207.28	180.87	145.69	159.03	5865.33 CMSDAY
Mean	4.72	5.33	9.48	10.92	50.01	48.74	31.46	8.50	6.69	5.83	5.20	5.13	16.07 CMS
Max	5.55	6.41	22.80	49.25	160.95	172.65	107.40	13.80	7.27	6.32	5.41	5.82	172.65 CMS
Min	4.45	4.68	5.73	6.14	15.00	16.20	12.20	7.18	6.27	5.45	4.95	4.91	4.45 CMS
Runoff	12.227	14.271	24.568	29.249	133.942	126.347	84.275	22.022	17.909	15.627	12.588	13.740	506.765 MCM

Momentary Peak 197.30 CMS, at 7.06 M (A.D), at 10.00 Hours, on Sep 24, 1992
Runoff Yield 8.63 Liters/Second/Square KM, Momentary Peak Yield 106.02 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

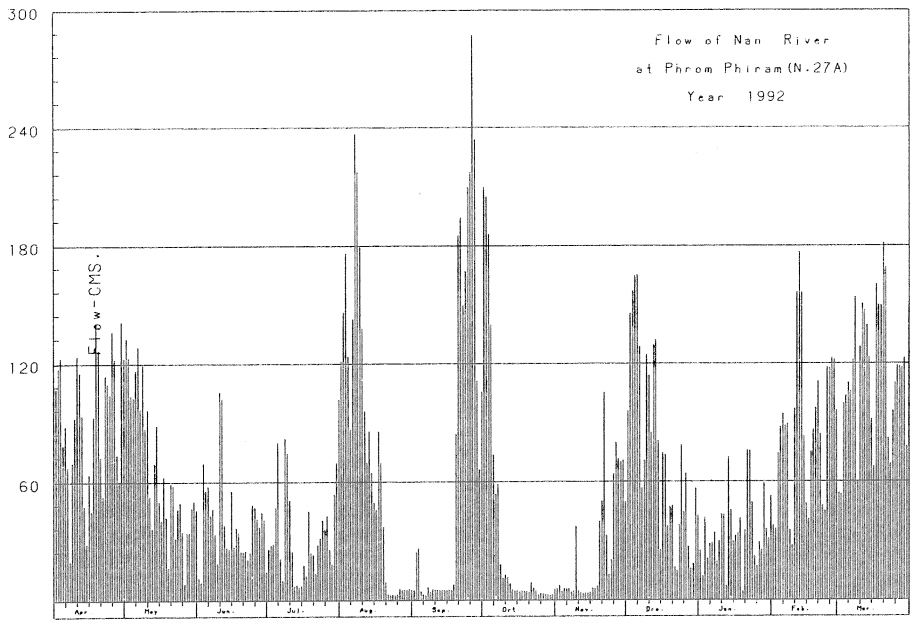
Nan River at Phrom Phiram, Phitsanulok (N.27A)

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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.06	40.38	38.34	38.73	40.24	38.06	41.26	38.09	39.91	38.71	39.00	39.31	
2	40.20	40.26	38.24	38.78	40.54	38.70	41.21	38.18	40.53	38.37	38.96	39.29	
3	40.26	40.01	39.54	38.79	40.89	38.74	41.00	38.03	40.67	39.08	39.61	39.96	
4	39.67	40.00	39.33	39.19	40.27	38.03	40.46	38.09	40.76	38.63	39.80	40.01	
5	39.81	40.18	39.37	39.69	39.78	37.94	39.60	38.09	40.77	38.79	39.89	40.10	
6	39.51	40.33	39.11	38.62	40.50	37.93	39.30	38.08	40.33	38.80	39.81	40.04	
7	38.60	39.92	39.17	38.29	41.54	38.13	39.38	38.01	39.35	38.92	39.82	40.25	
8	39.54	40.22	38.90	39.72	41.34	38.00	38.55	38.02	39.56	38.58	38.95	40.63	
9	39.86	39.79	38.57	39.61	40.93	38.07	38.33	39.00	40.28	38.82	38.77	39.41	
10	40.27	39.92	40.04	39.25	40.44	38.07	38.39	38.04	40.15	39.12	39.92	40.33	
11	40.17	39.28	39.99	38.71	39.91	38.06	38.34	37.98	39.76	39.11	40.66	40.59	
12	39.88	38.97	39.01	38.15	39.54	38.06	38.22	37.97	40.34	38.16	40.90	40.55	
13	39.20	39.54	38.75	38.19	39.77	38.05	38.06	37.97	40.37	39.58	40.66	40.46	
14	38.79	39.81	38.73	38.12	39.47	38.06	38.04	37.98	39.70	39.16	39.73	40.26	
15	39.46	39.24	39.33	38.17	39.23	38.06	38.04	37.99	38.72	38.82	39.22	39.85	
16	39.15	39.05	38.76	38.54	39.16	38.06	38.02	38.11	39.61	38.88	39.06	39.51	
17	39.87	39.44	38.98	38.37	39.77	38.06	38.03	38.08	39.60	38.91	39.62	40.71	
18	40.47	39.09	38.92	39.15	39.54	38.19	38.03	38.16	38.99	39.07	39.78	40.58	
19	40.31	38.50	38.71	38.69	38.99	39.75	38.02	39.04	39.19	38.02	39.93	40.58	
20	39.58	39.39	38.70	38.67	38.24	40.99	38.00	39.24	39.20	38.94	40.11	40.95	
21	39.28	39.37	38.71	38.42	37.96	41.09	38.23	40.03	38.51	39.63	39.75	40.81	
22	40.15	38.86	38.62	38.78	37.93	40.58	38.11	38.89	38.45	39.63	39.20	39.72	
23	40.09	39.17	38.70	38.86	37.93	40.79	38.03	38.39	39.01	39.23	39.15	39.53	
24	40.02	39.23	39.21	39.06	37.93	41.26	37.94	38.61	39.67	38.65	40.20	39.91	
25	40.42	38.93	39.19	38.96	37.94	41.34	37.96	39.46	39.14	38.52	40.20	40.10	
26	40.25	38.21	39.07	39.10	38.08	42.04	37.97	39.69	39.46	38.81	40.26	40.21	
27	39.60	38.92	38.99	38.73	38.06	41.51	37.95	39.57	38.76	38.72	40.25	40.21	
28	39.41	38.92	39.14	38.55	38.06	40.11	37.93	39.55	38.48	39.39	39.91	40.20	
29	40.48	39.18	39.06	39.30	38.07	39.49	37.93	39.56	38.56	38.96		40.26	
30	40.26	39.24	38.44	39.54	38.08	40.04	37.93	39.23	39.35	38.85		39.66	
31		39.16		39.99	38.06		38.07		39.10	39.28		40.60	
Mean	39.82	39.44	38.99	38.86	39.30	39.18	38.59	38.57	39.56	38.91	39.75	40.15	
Max	40.48	40.38	40.04	39.99	41.54	42.04	41.26	40.03	40.77	39.63	40.90	40.95	42.04
Min	38.60	38.21	38.24	38.12	37.93	37.93	37.93	37.97	38.45	38.02	38.77	39.29	37.93

Annual Max Momentary Gage Height 42.16 M (MSL), at 6.00 Hours, on Dec 31, 1992
Zero Gage at Bottom Elevation 38.43 M (MSL), River Bed 37.53 M (MSL)
Left Bank Elevation 48.85 M (MSL)
Right Bank Elevation 48.31 M (MSL), Drainage Area 19540 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	107.50	133.00	11.50	25.85	121.33	5.20	209.70	5.80	96.25	24.95	38.00	54.60	
2	118.00	123.00	9.00	28.10	146.33	24.50	204.95	7.60	145.50	12.25	36.20	53.40	
3	123.00	103.75	69.80	28.55	176.10	26.30	186.00	4.60	157.17	42.00	74.70	100.00	
4	78.90	103.00	55.80	47.50	123.83	4.60	139.67	5.80	164.67	21.35	88.00	103.75	
5	88.75	116.50	58.20	80.30	86.60	2.80	74.00	5.80	165.50	28.55	94.75	110.50	
6	67.70	128.83	43.50	20.90	143.00	2.60	54.00	5.60	128.83	29.00	88.75	106.00	
7	20.00	97.00	46.50	10.25	237.00	6.60	58.80	4.20	57.00	34.40	89.50	122.17	
8	69.80	119.67	33.50	82.40	217.30	4.00	18.25	4.40	71.20	19.30	35.75	153.83	
9	92.50	87.30	18.95	74.70	179.70	5.40	11.25	38.00	124.67	29.90	27.65	60.70	
10	123.83	97.00	106.00	51.00	138.00	5.40	12.75	4.80	114.25	44.00	97.00	128.83	
11	115.75	52.80	102.25	24.95	96.25	5.20	11.50	3.60	85.20	43.50	156.33	150.50	
12	94.00	36.65	38.50	7.00	69.80	5.20	8.50	3.40	129.67	7.20	177.00	147.17	
13	48.00	69.80	26.75	7.80	85.90	5.00	5.20	3.40	132.17	72.60	156.33	139.67	
14	28.55	88.75	25.85	6.40	64.90	5.20	4.80	3.60	81.00	46.00	83.10	123.00	
15	64.20	50.40	55.80	7.40	49.80	5.20	4.80	3.80	25.40	29.90	49.20	91.75	
16	45.50	40.50	27.20	17.90	46.00	5.20	4.40	6.20	74.70	32.60	41.00	67.70	
17	93.25	62.80	37.10	12.25	85.90	5.20	4.60	5.60	74.00	33.95	75.40	160.50	
18	140.50	42.50	34.40	45.50	69.80	7.80	4.60	7.20	37.55	41.50	86.60	149.67	
19	127.17	16.50	24.95	24.05	37.55	84.50	4.40	40.00	47.50	4.40	97.75	149.67	
20	72.60	59.40	24.50	23.15	9.00	185.10	4.00	50.40	48.00	35.30	111.25	181.50	
21	52.80	58.20	24.95	13.70	3.20	194.10	8.75	105.25	16.85	76.10	84.50	168.90	
22	114.25	31.70	20.90	28.10	2.60	149.67	6.20	33.05	14.75	76.10	48.00	82.40	
23	109.75	46.50	24.50	31.70	2.60	167.17	4.60	12.75	38.50	49.80	45.50	69.10	
24	104.50	49.80	48.60	41.00	2.60	209.70	2.80	20.45	78.90	22.25	118.00	96.25	
25	136.33	34.85	47.50	36.20	2.80	217.30	3.20	64.20	45.00	17.20	118.00	110.50	
26	122.17	8.25	41.50	43.00	5.60	287.20	3.40	80.30	64.20	29.45	123.00	118.83	
27	74.00	34.40	37.55	25.85	5.20	234.00	3.00	71.90	27.20	25.40	122.17	118.83	
28	60.70	34.40	45.00	18.25	5.20	111.25	2.60	70.50	15.80	59.40	96.25	118.00	
29	141.33	47.00	41.00	54.00	5.40	66.30	2.60	71.20	18.60	36.20		123.00	
30	123.00	50.40	14.40	69.80	5.60	106.00	2.60	49.80	57.00	31.25		78.20	
31		46.00		102.25	5.20		5.40		43.00	52.80		151.33	
Total	2758.33	2070.65	1195.95	1089.80	2230.09	2143.69	1071.32	793.20	2380.03	1108.60	2459.68	3590.25	22891.59 CMSDAY
Mean	91.94	66.80	39.87	35.15	71.94	71.46	34.56	26.44	76.78	35.76	87.85	115.81	62.72 CMS
Max	141.33	133.00	106.00	102.25	237.00	287.20	209.70	105.25	165.50	76.10	177.00	181.50	287.20 CMS
Min	20.00	8.25	9.00	6.40	2.60	2.60	2.60	3.40	14.75	4.40	27.65	53.40	2.60 CMS
Runoff	238.320	178.904	103.330	94.159	192.680	185.215	92.562	68.532	205.635	95.783	212.516	310.198	1977.834 MCM

Momentary Peak 299.80 CMS, at 42.16 M (MSL), at 6.00 Hours, on Dec 31, 1992

Runoff Yield 3.21 Liters/Second/Square KM, Momentary Peak Yield 15.34 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

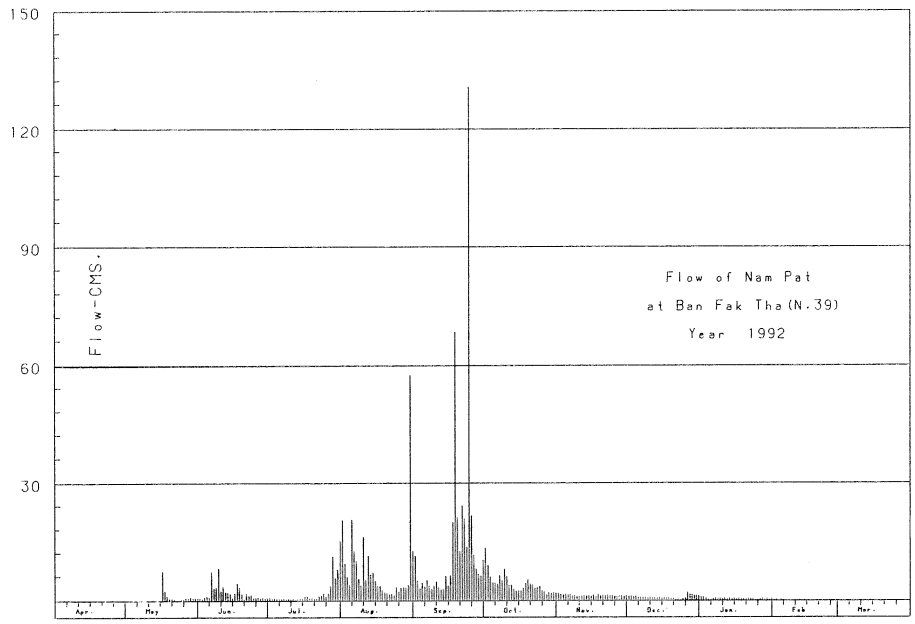
Nam Pat at Ban Fak Tha, Uttaradit (N.39)

Location	Lat. 17°-59'-52" N., Long. 100°-52'-49" E., on right bank about 400 meters north of Amphoe Fak Tha Office, Amphoe Fak Tha, Uttaradit.
Drainage Area	777 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 20 meters from the top staff gage. B.M.2 about 20 meters from B.M.1.
Elevation	B.M.1= +4.863 m.(A.D.), B.M.2= +4.909 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	1967 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 70 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.42	0.55	0.58	1.72	1.39	1.46	0.75	0.65	0.63	0.52	0.45	
2	0.45	0.41	0.53	0.55	1.30	1.03	1.28	0.69	0.64	0.61	0.51	0.42	
3	0.45	0.41	0.60	0.55	1.11	0.88	1.10	0.70	0.64	0.58	0.50	0.42	
4	0.45	0.40	0.65	0.55	0.95	0.99	1.01	0.70	0.63	0.57	0.50	0.42	
5	0.45	0.39	0.60	0.54	1.73	0.92	0.99	0.70	0.62	0.56	0.49	0.41	
6	0.45	0.38	1.18	0.54	1.43	1.05	0.98	0.69	0.61	0.55	0.49	0.41	
7	0.45	0.37	0.89	0.53	1.32	0.92	1.12	0.67	0.60	0.54	0.48	0.40	
8	0.45	0.35	0.89	0.52	1.08	0.86	1.03	0.66	0.59	0.54	0.48	0.39	
9	0.44	0.34	1.24	0.51	0.93	0.92	1.23	0.64	0.59	0.54	0.48	0.41	
10	0.44	0.33	0.82	0.51	1.58	1.03	1.12	0.62	0.59	0.54	0.47	0.47	
11	0.44	0.33	0.91	0.50	1.04	0.89	0.94	0.66	0.59	0.54	0.47	0.46	
12	0.44	0.33	0.79	0.50	1.39	0.85	0.96	0.65	0.58	0.54	0.47	0.45	
13	0.44	0.33	0.75	0.50	1.14	0.84	0.85	0.66	0.58	0.53	0.47	0.44	
14	0.44	0.33	0.73	0.54	1.18	1.12	0.82	0.65	0.58	0.53	0.46	0.43	
15	0.43	0.33	0.55	0.50	1.04	0.94	0.80	0.66	0.57	0.53	0.46	0.42	
16	0.43	1.20	0.73	0.64	0.92	1.12	0.82	0.67	0.57	0.53	0.46	0.42	
17	0.43	0.82	1.00	0.63	0.94	1.71	0.87	0.65	0.57	0.53	0.46	0.41	
18	0.43	0.64	0.89	0.58	0.82	2.69	0.99	0.69	0.56	0.53	0.45	0.41	
19	0.43	0.55	0.73	0.55	0.78	1.74	1.05	0.67	0.55	0.52	0.45	0.41	
20	0.43	0.55	0.52	0.54	0.73	1.43	0.98	0.66	0.55	0.52	0.45	0.40	
21	0.43	0.53	0.72	0.53	0.71	1.83	0.95	0.67	0.54	0.52	0.45	0.40	
22	0.43	0.52	0.67	0.63	0.70	1.73	0.89	0.67	0.53	0.54	0.45	0.41	
23	0.43	0.47	0.68	0.68	0.68	1.48	0.88	0.67	0.49	0.51	0.44	0.42	
24	0.43	0.46	0.60	0.72	0.90	3.36	0.93	0.66	0.49	0.51	0.44	0.42	
25	0.43	0.50	0.61	0.64	0.80	1.76	0.83	0.65	0.58	0.51	0.44	0.41	
26	0.43	0.56	0.59	0.74	0.88	1.39	0.77	0.61	0.75	0.53	0.43	0.41	
27	0.43	0.59	0.58	0.92	0.91	1.23	0.71	0.66	0.71	0.53	0.43	0.41	
28	0.43	0.60	0.58	1.37	0.88	1.14	0.75	0.65	0.68	0.53	0.45	0.40	
29	0.42	0.58	0.57	1.09	0.96	1.13	0.75	0.65	0.67	0.52		0.40	
30	0.42	0.57	0.56	1.21	2.51	1.33	0.75	0.65	0.65	0.52		0.39	
31		0.58		1.54	1.43		0.73		0.64	0.52		0.39	
Mean	0.44	0.49	0.72	0.68	1.11	1.32	0.95	0.67	0.60	0.54	0.47	0.42	
Max	0.45	1.20	1.24	1.54	2.51	3.36	1.46	0.75	0.75	0.63	0.52	0.47	3.36
Min	0.42	0.33	0.52	0.50	0.68	0.84	0.71	0.61	0.49	0.51	0.43	0.39	0.33

Annual Max Momentary Gage Height 3.67 M (A.D), at 15.00 Hours, on Sep 24, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.28 M (A.D)
Left Bank Elevation 5.76 M (A.D)
Right Bank Elevation 4.93 M (A.D), Drainage Area 777 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.08	0.60	0.72	20.48	11.58	13.30	2.00	1.20	1.04	0.48	0.20	
2	0.20	0.04	0.52	0.60	9.60	5.02	9.20	1.52	1.12	0.88	0.44	0.08	
3	0.20	0.04	0.80	0.60	6.16	3.20	6.00	1.60	1.12	0.72	0.40	0.08	
4	0.20	0.00	1.20	0.60	4.00	4.48	4.74	1.60	1.04	0.68	0.40	0.08	
5	0.20	0.00	0.80	0.56	20.82	3.64	4.48	1.60	0.96	0.64	0.36	0.04	
6	0.20	0.00	7.28	0.56	12.55	5.30	4.36	1.52	0.88	0.60	0.36	0.04	
7	0.20	0.00	3.30	0.52	10.04	3.64	6.32	1.36	0.80	0.56	0.32	0.00	
8	0.20	0.00	3.30	0.48	5.72	3.00	5.02	1.28	0.76	0.56	0.32	0.00	
9	0.16	0.00	8.40	0.44	3.76	3.64	8.20	1.12	0.76	0.56	0.32	0.04	
10	0.16	0.00	2.60	0.44	16.30	5.02	6.32	0.96	0.76	0.56	0.28	0.28	
11	0.16	0.00	3.52	0.40	5.16	3.30	3.88	1.28	0.76	0.56	0.28	0.24	
12	0.16	0.00	2.32	0.40	11.58	2.90	4.12	1.20	0.72	0.56	0.28	0.20	
13	0.16	0.00	2.00	0.40	6.64	2.80	2.90	1.28	0.72	0.52	0.28	0.16	
14	0.16	0.00	1.84	0.56	7.28	6.32	2.60	1.20	0.72	0.52	0.24	0.12	
15	0.12	0.00	0.60	0.40	5.16	3.88	2.40	1.28	0.68	0.52	0.24	0.08	
16	0.12	7.60	1.84	1.12	3.64	6.32	2.60	1.36	0.68	0.52	0.24	0.08	
17	0.12	2.60	4.60	1.04	3.88	20.14	3.10	1.20	0.68	0.52	0.24	0.04	
18	0.12	1.12	3.30	0.72	2.60	68.59	4.48	1.52	0.64	0.52	0.20	0.04	
19	0.12	0.60	1.84	0.60	2.24	21.16	5.30	1.36	0.60	0.48	0.20	0.04	
20	0.12	0.60	0.48	0.56	1.84	12.55	4.36	1.28	0.60	0.48	0.20	0.00	
21	0.12	0.52	1.76	0.52	1.68	24.31	4.00	1.36	0.56	0.48	0.20	0.00	
22	0.12	0.48	1.36	1.04	1.60	20.82	3.30	1.36	0.52	0.56	0.20	0.04	
23	0.12	0.28	1.44	1.44	1.44	13.80	3.20	1.36	0.36	0.44	0.16	0.08	
24	0.12	0.24	0.80	1.76	3.40	130.72	3.76	1.28	0.36	0.44	0.16	0.08	
25	0.12	0.40	0.88	1.12	2.40	21.84	2.70	1.20	0.72	0.44	0.16	0.04	
26	0.12	0.64	0.76	1.92	3.20	11.58	2.16	0.88	2.00	0.52	0.12	0.04	
27	0.12	0.76	0.72	3.64	3.52	8.20	1.68	1.28	1.68	0.52	0.12	0.04	
28	0.12	0.80	0.72	11.14	3.20	6.64	2.00	1.20	1.44	0.52	0.20	0.00	
29	0.08	0.72	0.68	5.86	4.12	6.48	2.00	1.20	1.36	0.48		0.00	
30	0.08	0.68	0.64	7.80	57.42	10.26	2.00	1.20	1.20	0.48		0.00	
31		0.72		15.30	12.55		1.84		1.12	0.48		0.00	
Total	4.40	18.92	60.90	63.26	253.98	451.13	132.32	39.84	27.52	17.36	7.40	2.16	1079.19 CMSDAY
Mean	0.15	0.61	2.03	2.04	8.19	15.04	4.27	1.33	0.89	0.56	0.26	0.07	2.96 CMS
Max	0.20	7.60	8.40	15.30	57.42	130.72	13.30	2.00	2.00	1.04	0.48	0.28	130.72 CMS
Min	0.08	0.00	0.48	0.40	1.44	2.80	1.68	0.88	0.36	0.44	0.12	0.00	0.00 CMS
Runoff	0.380	1.635	5.262	5.466	21.944	38.978	11.432	3.442	2.378	1.500	0.639	0.187	93.242 MCM

Momentary Peak 171.73 CMS, at 3.67 M (A.D), at 15.00 Hours, on Sep 24, 1992

Runoff Yield 3.81 Liters/Second/Square KM, Momentary Peak Yield 221.02 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

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

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

Drainage Area — 4,340 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m. (A.D.)

Bench Mark — B.M.-H.D.

Location — B.M.1 about 4 meters south of the gage site, B.M.2 about 90 meters south of the gage site.

Elevation — B.M.1=+14.45 m. (A.D.), B.M.2=+14.40 m. (A.D.)

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

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

Period of Available Gage Records — 1967 - 1968, 1972 to date.

Rating Operation

Period of Rating — 1977 to date.

Rated by Float —

Rated by Current Meter — 1977 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 86 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

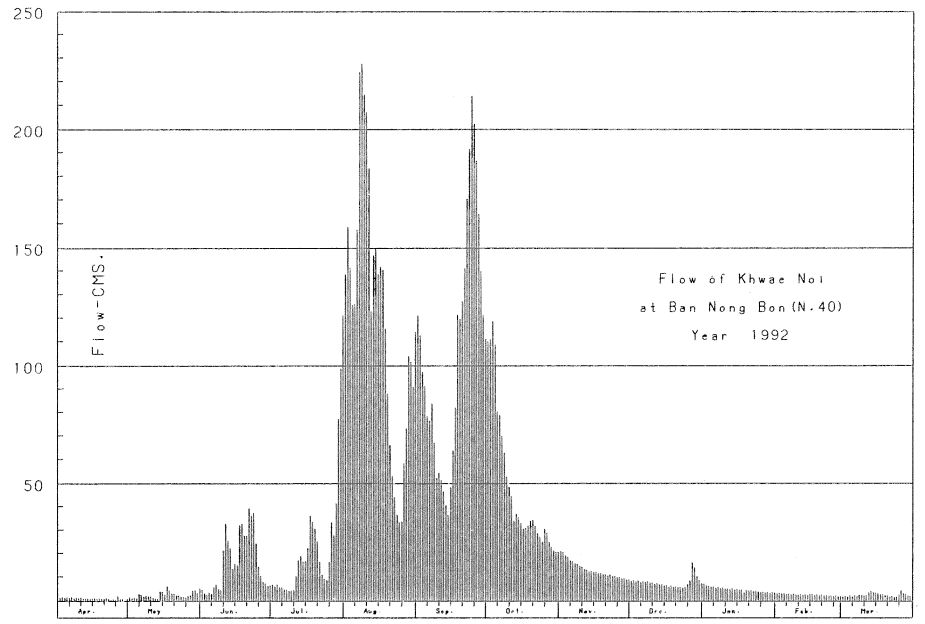
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.50	0.68	0.79	4.17	3.83	3.58	1.31	0.87	0.81	0.62	0.54	
2	0.50	0.49	0.62	0.77	4.58	3.64	3.60	1.29	0.87	0.79	0.62	0.53	
3	0.50	0.48	0.57	0.79	4.23	3.30	3.78	1.25	0.86	0.77	0.62	0.53	
4	0.50	0.49	0.62	0.75	3.92	3.16	3.56	1.22	0.86	0.76	0.61	0.55	
5	0.50	0.61	0.61	0.73	3.92	2.86	2.91	1.18	0.85	0.75	0.61	0.54	
6	0.50	0.56	0.75	0.70	4.55	2.82	2.88	1.16	0.85	0.74	0.60	0.56	
7	0.49	0.54	0.79	0.68	5.78	3.00	2.65	1.14	0.85	0.74	0.60	0.56	
8	0.49	0.54	0.71	0.67	5.84	2.58	2.48	1.12	0.85	0.73	0.60	0.57	
9	0.49	0.54	0.67	0.66	5.61	2.21	2.22	1.10	0.84	0.73	0.60	0.59	
10	0.49	0.52	1.32	0.69	5.47	2.26	2.12	1.08	0.83	0.72	0.59	0.57	
11	0.48	0.50	1.70	0.95	5.05	2.18	2.01	1.06	0.82	0.71	0.59	0.56	
12	0.48	0.47	1.45	1.17	3.86	2.06	1.74	1.04	0.82	0.71	0.59	0.65	
13	0.47	0.46	1.34	1.24	4.34	1.92	1.83	1.02	0.81	0.71	0.58	0.66	
14	0.47	0.66	1.06	1.15	4.39	1.81	1.78	1.02	0.80	0.70	0.58	0.65	
15	0.47	0.64	1.12	1.17	4.18	2.11	1.70	1.02	0.79	0.70	0.59	0.62	
16	0.47	0.57	1.11	1.34	4.24	2.50	1.63	1.01	0.78	0.70	0.59	0.61	
17	0.47	0.77	1.67	1.81	4.22	2.96	1.63	1.00	0.76	0.69	0.58	0.60	
18	0.47	0.67	1.69	1.72	3.71	3.83	1.67	0.99	0.77	0.64	0.58	0.59	
19	0.47	0.62	1.53	1.63	3.09	3.80	1.73	0.98	0.76	0.68	0.58	0.57	
20	0.47	0.60	1.52	1.44	2.56	3.95	1.75	0.97	0.75	0.68	0.58	0.55	
21	0.47	0.57	1.90	1.15	2.23	4.23	1.66	0.96	0.75	0.67	0.57	0.54	
22	0.46	0.55	1.81	0.97	2.00	4.81	1.57	0.96	0.74	0.67	0.56	0.53	
23	0.45	0.53	1.83	0.89	1.82	5.19	1.50	0.95	0.74	0.66	0.56	0.52	
24	0.44	0.51	1.42	0.88	1.71	5.60	1.45	0.94	0.74	0.66	0.55	0.51	
25	0.44	0.51	1.09	1.16	1.73	5.39	1.63	0.93	0.81	0.65	0.55	0.60	
26	0.54	0.53	0.94	1.71	2.36	5.10	1.56	0.92	0.86	0.64	0.55	0.67	
27	0.47	0.57	0.85	1.53	2.73	4.69	1.44	0.91	1.15	0.64	0.54	0.62	
28	0.45	0.66	0.81	1.94	3.45	4.20	1.36	0.90	1.07	0.63	0.54	0.59	
29	0.44	0.68	0.78	2.83	3.39	3.83	1.32	0.89	0.95	0.63		0.56	
30	0.46	0.61	0.77	3.33	3.16	3.61	1.29	0.88	0.87	0.63		0.53	
31		0.72		3.82	3.67		1.29		0.83	0.62		0.52	
Mean	0.48	0.57	1.12	1.32	3.74	3.45	2.04	1.04	0.84	0.70	0.58	0.57	
Max	0.54	0.77	1.90	3.82	5.84	5.60	3.78	1.31	1.15	0.81	0.62	0.67	5.84
Min	0.44	0.46	0.57	0.66	1.71	1.81	1.29	0.88	0.74	0.62	0.54	0.51	0.44

Annual Max Momentary Gage Height — 5.93 M (A.D), at 6.00 Hours, on Aug 8, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.39 M (A.D)

Left Bank Elevation — 13.49 M (A.D)

Right Bank Elevation — 13.34 M (A.D), Drainage Area 4340 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	1.50	4.60	6.80	138.50	121.50	110.10	21.30	8.75	7.25	3.40	2.10	
2	1.50	1.35	3.40	6.40	159.00	112.80	111.00	20.70	8.75	6.80	3.40	1.95	
3	1.50	1.20	2.55	6.80	141.50	97.50	119.10	19.50	8.50	6.40	3.40	1.95	
4	1.50	1.35	3.40	6.00	126.00	91.20	109.20	18.60	8.50	6.20	3.20	2.25	
5	1.50	3.20	3.20	5.60	126.00	78.40	80.40	17.40	8.25	6.00	3.20	2.10	
6	1.50	2.40	6.00	5.00	157.50	76.80	79.20	16.80	8.25	5.80	3.00	2.40	
7	1.35	2.10	6.80	4.60	224.38	84.00	70.00	16.20	8.25	5.80	3.00	2.40	
8	1.35	2.10	5.20	4.40	227.73	67.20	63.20	15.60	8.25	5.60	3.00	2.55	
9	1.35	2.10	4.40	4.20	214.89	52.40	52.80	15.00	8.00	5.60	3.00	2.85	
10	1.35	1.80	21.60	4.80	207.08	54.40	48.80	14.40	7.75	5.40	2.85	2.55	
11	1.20	1.50	33.00	10.75	183.75	51.20	44.40	13.80	7.50	5.20	2.85	2.40	
12	1.20	1.05	25.50	17.10	123.00	46.40	34.20	13.20	7.50	5.20	2.85	4.00	
13	1.05	0.90	22.20	19.20	147.00	40.80	37.20	12.60	7.25	5.20	2.70	4.20	
14	1.05	4.20	13.80	16.50	149.50	36.40	35.40	12.60	7.00	5.00	2.70	4.00	
15	1.05	3.80	15.60	17.10	139.00	48.40	33.00	12.60	6.80	5.00	2.85	3.40	
16	1.05	2.55	15.30	22.20	142.00	64.00	30.90	12.30	6.60	5.00	2.85	3.20	
17	1.05	6.40	32.10	36.40	141.00	82.40	30.90	12.00	6.20	4.80	2.70	3.00	
18	1.05	4.40	32.70	33.60	115.95	121.50	32.10	11.75	6.40	3.80	2.70	2.85	
19	1.05	3.40	27.90	30.90	88.05	120.00	33.90	11.50	6.20	4.60	2.70	2.55	
20	1.05	3.00	27.60	25.20	66.40	127.50	34.50	11.25	6.00	4.60	2.70	2.25	
21	1.05	2.55	40.00	16.50	53.20	141.50	31.80	11.00	6.00	4.40	2.55	2.10	
22	0.90	2.25	36.40	11.25	44.00	170.55	29.10	11.00	5.80	4.40	2.40	1.95	
23	0.75	1.95	37.20	9.25	36.80	191.45	27.00	10.75	5.80	4.20	2.40	1.80	
24	0.60	1.65	24.60	9.00	33.30	214.33	25.50	10.50	5.80	4.20	2.25	1.65	
25	0.60	1.65	14.70	16.80	33.90	202.61	30.90	10.25	7.25	4.00	2.25	3.00	
26	2.10	1.95	10.50	33.30	58.40	186.50	28.80	10.00	8.50	3.80	2.25	4.40	
27	1.05	2.55	8.25	27.90	73.20	164.50	25.20	9.75	16.50	3.80	2.10	3.40	
28	0.75	4.20	7.25	41.60	104.25	140.00	22.80	9.50	14.10	3.60	2.10	2.85	
29	0.60	4.60	6.60	77.20	101.55	121.50	21.60	9.25	10.75	3.60		2.40	
30	0.90	3.20	6.40	98.85	91.20	111.45	20.70	9.00	8.75	3.60		1.95	
31		5.40		121.00	114.15		20.70		7.75	3.40		1.80	
Total	34.50	82.25	498.75	746.20	3762.18	3219.19	1474.40	400.10	247.70	152.25	77.35	82.25	10777.12 CMSDAY
Mean	1.15	2.65	16.63	24.07	121.36	107.31	47.56	13.34	7.99	4.91	2.76	2.65	29.53 CMS
Max	2.10	6.40	40.00	121.00	227.73	214.33	119.10	21.30	16.50	7.25	3.40	4.40	227.73 CMS
Min	0.60	0.90	2.55	4.20	33.30	36.40	20.70	9.00	5.80	3.40	2.10	1.65	0.60 CMS
Runoff	2.981	7.106	43.092	64.472	325.052	278.138	127.388	34.569	21.401	13.154	6.683	7.106	931.143 MCM

Momentary Peak 232.76 CMS, at 5.93 M (A.D), at 6.00 Hours, on Aug 8, 1992

Runoff Yield 6.80 Liters/Second/Square KM, Momentary Peak Yield 53.63 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

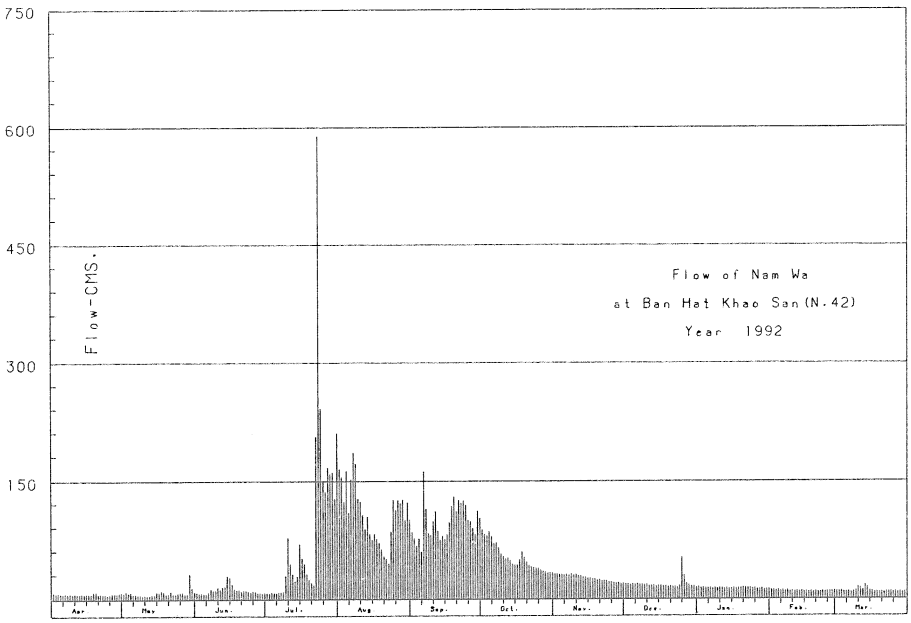
Nam Wa at Ban Hat Khao San, Nan (N.42)

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 fair. Stage-discharge relation defined by 149 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.62	1.62	1.62	1.61	3.47	2.55	2.58	1.96	1.80	1.74	1.69	1.66	
2	1.61	1.65	1.62	1.62	3.36	2.44	2.51	1.95	1.79	1.73	1.68	1.66	
3	1.61	1.63	1.61	1.63	3.02	2.32	2.49	1.95	1.79	1.73	1.68	1.66	
4	1.61	1.63	1.61	1.63	3.45	2.44	2.55	1.94	1.79	1.73	1.68	1.65	
5	1.60	1.59	1.60	1.63	2.86	2.26	2.48	1.94	1.79	1.73	1.67	1.65	
6	1.60	1.58	1.63	1.63	3.33	3.44	2.36	1.94	1.79	1.72	1.67	1.64	
7	1.60	1.57	1.72	1.65	3.68	2.91	2.36	1.94	1.79	1.72	1.67	1.64	
8	1.60	1.56	1.67	1.64	3.53	2.53	2.31	1.95	1.78	1.72	1.67	1.64	
9	1.60	1.55	1.69	1.93	3.07	2.49	2.23	1.94	1.78	1.72	1.66	1.68	
10	1.60	1.55	1.74	2.46	3.02	2.72	2.21	1.94	1.78	1.72	1.66	1.74	
11	1.60	1.55	1.71	2.11	2.81	2.88	2.17	1.93	1.77	1.72	1.66	1.72	
12	1.60	1.56	1.74	1.95	2.60	2.56	2.19	1.92	1.77	1.72	1.66	1.69	
13	1.60	1.57	1.76	1.85	2.80	2.42	2.15	1.91	1.77	1.72	1.66	1.78	
14	1.60	1.58	1.92	1.91	2.51	2.48	2.11	1.90	1.76	1.72	1.66	1.73	
15	1.59	1.64	1.91	2.34	2.42	2.42	2.09	1.89	1.76	1.72	1.65	1.67	
16	1.59	1.63	1.80	2.19	2.51	2.51	2.10	1.88	1.76	1.72	1.65	1.65	
17	1.59	1.68	1.71	2.11	2.43	2.70	2.16	1.88	1.76	1.72	1.65	1.64	
18	1.64	1.64	1.70	1.96	2.37	2.95	2.26	1.87	1.75	1.72	1.65	1.63	
19	1.66	1.60	1.69	1.86	2.28	3.09	2.19	1.86	1.75	1.73	1.65	1.63	
20	1.60	1.59	1.67	1.82	2.21	2.88	2.14	1.86	1.75	1.73	1.65	1.63	
21	1.59	1.65	1.68	1.79	2.17	3.05	2.09	1.85	1.75	1.73	1.65	1.63	
22	1.58	1.60	1.69	3.88	2.12	3.01	2.07	1.85	1.74	1.73	1.65	1.64	
23	1.58	1.60	1.65	6.69	2.56	3.05	2.05	1.84	1.74	1.72	1.65	1.65	
24	1.57	1.61	1.65	4.20	3.05	2.98	2.05	1.83	1.76	1.72	1.65	1.65	
25	1.57	1.64	1.66	3.33	2.90	2.73	2.04	1.82	2.19	1.72	1.65	1.64	
26	1.60	1.63	1.66	3.16	3.04	2.71	2.02	1.81	1.94	1.71	1.66	1.64	
27	1.60	1.60	1.63	3.49	3.01	2.61	2.00	1.81	1.81	1.71	1.66	1.63	
28	1.60	1.59	1.62	3.40	3.05	2.51	1.98	1.81	1.77	1.71	1.66	1.63	
29	1.63	1.96	1.62	3.42	2.73	2.88	1.97	1.80	1.76	1.70		1.63	
30	1.63	1.72	1.62	3.07	3.02	2.77	1.97	1.80	1.75	1.70		1.63	
31		1.65		3.92	2.74		1.97		1.74	1.70		1.62	
Mean	1.60	1.62	1.69	2.51	2.84	2.71	2.19	1.89	1.79	1.72	1.66	1.66	
Max	1.66	1.96	1.92	6.69	3.68	3.44	2.58	1.96	2.19	1.74	1.69	1.78	6.69
Min	1.57	1.55	1.60	1.61	2.12	2.26	1.97	1.80	1.74	1.70	1.65	1.62	1.55

Annual Max Momentary Gage Height 7.66 M (A.D), at 4.00 Hours, on Jul 23, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.09 M (A.D)
Left Bank Elevation 13.34 M (A.D)
Right Bank Elevation 11.28 M (A.D), Drainage Area 2107 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.28	8.28	8.28	7.74	166.00	86.00	88.40	32.80	20.00	15.56	12.06	10.44	
2	7.74	9.90	8.28	8.28	155.00	77.50	82.80	32.00	19.26	14.82	11.52	10.44	
3	7.74	8.82	7.74	8.82	123.80	67.71	81.25	32.00	19.26	14.82	11.52	10.44	
4	7.74	8.82	7.74	8.82	164.00	77.50	86.00	31.20	19.26	14.82	11.52	9.90	
5	7.20	6.78	7.20	8.82	110.80	60.86	80.50	31.20	19.26	14.82	10.98	9.90	
6	7.20	6.36	8.82	8.82	152.00	163.00	71.50	31.20	19.26	14.08	10.98	9.36	
7	7.20	5.94	14.08	9.90	187.00	114.80	71.50	31.20	19.26	14.08	10.98	9.36	
8	7.20	5.52	10.98	9.36	172.00	84.40	66.57	32.00	18.52	14.08	10.98	9.36	
9	7.20	5.10	12.06	30.40	128.30	81.25	57.43	31.20	18.52	14.08	10.44	11.52	
10	7.20	5.10	15.56	79.00	123.80	99.60	55.14	31.20	18.52	14.08	10.44	15.56	
11	7.20	5.10	13.34	45.00	106.80	112.40	51.00	30.40	17.78	14.08	10.44	14.08	
12	7.20	5.52	15.56	32.00	90.00	86.80	53.00	29.60	17.78	14.08	10.44	12.06	
13	7.20	5.94	17.04	24.00	106.00	76.00	49.00	28.80	17.78	14.08	10.44	18.52	
14	7.20	6.36	29.60	28.80	82.80	80.50	45.00	28.00	17.04	14.08	10.44	14.82	
15	6.78	9.36	28.80	70.00	76.00	76.00	43.20	27.20	17.04	14.08	9.90	10.98	
16	6.78	8.82	20.00	53.00	82.80	82.80	44.00	26.40	17.04	14.08	9.90	9.90	
17	6.78	11.52	13.34	45.00	76.75	98.00	50.00	26.40	17.04	14.08	9.90	9.36	
18	9.36	9.36	12.60	32.80	72.25	118.00	60.86	25.60	16.30	14.08	9.90	8.82	
19	10.44	7.20	12.06	24.80	63.14	130.10	53.00	24.80	16.30	14.82	9.90	8.82	
20	7.20	6.78	10.98	21.60	55.14	112.40	48.00	24.80	16.30	14.82	9.90	8.82	
21	6.78	9.90	11.52	19.26	51.00	126.50	43.20	24.00	16.30	14.82	9.90	8.82	
22	6.36	7.20	12.06	207.00	46.00	122.90	41.60	24.00	15.56	14.82	9.90	9.36	
23	6.36	7.20	9.90	589.20	86.80	126.50	40.00	23.20	15.56	14.08	9.90	9.90	
24	5.94	7.74	9.90	242.00	126.50	120.40	40.00	22.40	17.04	14.08	9.90	9.90	
25	5.94	9.36	10.44	152.00	114.00	100.40	39.20	21.60	53.00	14.08	9.90	9.36	
26	7.20	8.82	10.44	136.40	125.60	98.80	37.60	20.80	31.20	13.34	10.44	9.36	
27	7.20	7.20	8.82	168.00	122.90	90.80	36.00	20.80	20.80	13.34	10.44	8.82	
28	7.20	6.78	8.28	159.00	126.50	82.80	34.40	20.80	17.78	13.34	10.44	8.82	
29	8.82	32.80	8.28	161.00	100.40	112.40	33.60	20.00	17.04	12.60		8.82	
30	8.82	14.08	8.28	128.30	123.80	103.60	33.60	20.00	16.30	12.60		8.82	
31		9.90		211.20	101.20		33.60		15.56	12.60		8.28	
Total	221.46	267.56	371.98	2730.32	3419.08	2970.72	1650.95	805.60	597.66	437.22	293.40	322.72	14088.67 CMSDAY
Mean	7.38	8.63	12.40	88.07	110.29	99.02	53.26	26.85	19.28	14.10	10.48	10.41	38.60 CMS
Max	10.44	32.80	29.60	589.20	187.00	163.00	88.40	32.80	53.00	15.56	12.06	18.52	589.20 CMS
Min	5.94	5.10	7.20	7.74	46.00	60.86	33.60	20.00	15.56	12.60	9.90	8.28	5.10 CMS
Runoff	19.134	23.117	32.139	235.900	295.409	256.670	142.642	69.604	51.638	37.776	25.350	27.883	1217.261 MCM

Momentary Peak 765.40 CMS, at 7.66 M (A.D), at 4.00 Hours, on Jul 23, 1992
Runoff Yield 18.32 Liters/Second/Square KM, Momentary Peak Yield 363.27 Liters/Second/Square KM

WATER YEAR 1992

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 — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 27 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

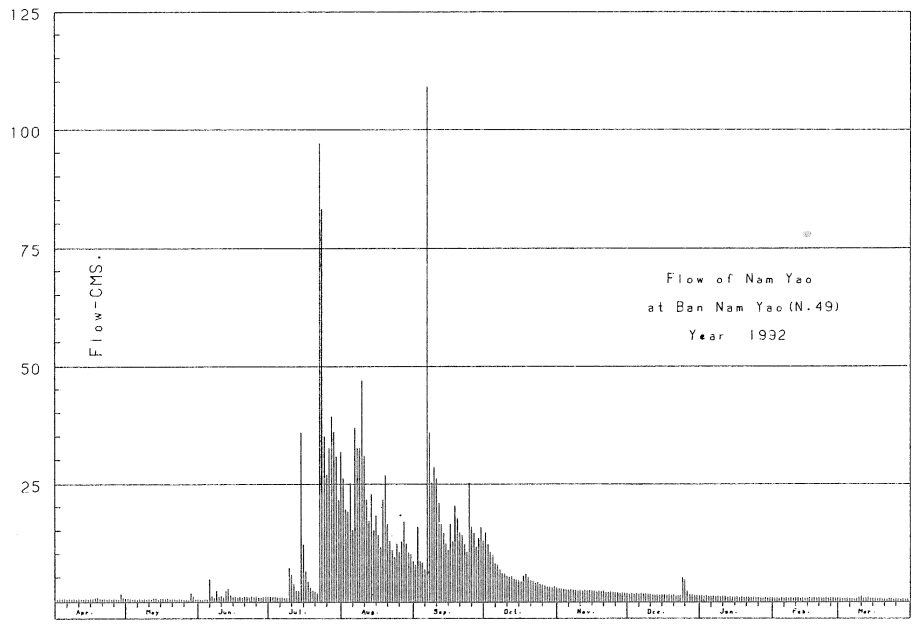
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	1.32	1.28	1.34	1.94	1.64	1.77	1.48	1.41	1.38	1.33	1.32	
2	1.30	1.29	1.28	1.35	1.85	1.79	1.73	1.47	1.41	1.37	1.33	1.32	
3	1.30	1.29	1.28	1.34	1.84	1.66	1.70	1.47	1.41	1.37	1.33	1.32	
4	1.30	1.29	1.29	1.34	1.93	1.65	1.69	1.46	1.41	1.37	1.33	1.32	
5	1.30	1.29	1.56	1.34	1.78	1.62	1.65	1.46	1.41	1.37	1.33	1.32	
6	1.30	1.29	1.37	1.33	2.07	2.64	1.64	1.46	1.41	1.36	1.33	1.31	
7	1.30	1.29	1.32	1.33	2.02	2.06	1.62	1.46	1.41	1.36	1.33	1.31	
8	1.30	1.29	1.44	1.32	2.02	1.93	1.60	1.45	1.41	1.36	1.33	1.31	
9	1.30	1.29	1.36	1.63	2.18	1.97	1.60	1.45	1.41	1.36	1.33	1.35	
10	1.30	1.29	1.36	1.59	2.00	1.94	1.58	1.45	1.40	1.36	1.33	1.36	
11	1.30	1.30	1.33	1.52	1.88	1.87	1.57	1.45	1.40	1.36	1.33	1.32	
12	1.30	1.32	1.45	1.45	1.81	1.80	1.58	1.45	1.40	1.35	1.33	1.33	
13	1.30	1.31	1.47	1.44	1.90	1.77	1.56	1.45	1.39	1.35	1.33	1.34	
14	1.30	1.29	1.39	2.06	1.78	1.73	1.55	1.45	1.39	1.35	1.33	1.32	
15	1.30	1.31	1.35	1.73	1.83	1.71	1.55	1.45	1.39	1.35	1.33	1.31	
16	1.30	1.31	1.34	1.61	1.76	1.80	1.54	1.44	1.39	1.35	1.33	1.31	
17	1.33	1.31	1.34	1.54	1.72	1.74	1.58	1.44	1.39	1.34	1.33	1.31	
18	1.33	1.31	1.34	1.48	1.88	1.86	1.60	1.44	1.39	1.34	1.33	1.31	
19	1.31	1.30	1.34	1.45	1.95	1.82	1.57	1.44	1.39	1.34	1.33	1.31	
20	1.30	1.29	1.34	1.43	1.80	1.77	1.55	1.44	1.39	1.34	1.33	1.30	
21	1.30	1.30	1.34	1.41	1.74	1.76	1.54	1.43	1.38	1.34	1.33	1.30	
22	1.30	1.29	1.34	2.57	1.71	1.73	1.53	1.43	1.38	1.34	1.33	1.32	
23	1.30	1.29	1.35	2.48	1.68	1.70	1.53	1.43	1.38	1.34	1.33	1.31	
24	1.30	1.28	1.35	2.05	1.73	1.93	1.52	1.43	1.57	1.34	1.33	1.30	
25	1.30	1.28	1.35	1.95	1.70	1.79	1.51	1.42	1.55	1.33	1.33	1.30	
26	1.29	1.27	1.34	2.02	1.74	1.77	1.51	1.42	1.44	1.33	1.33	1.30	
27	1.29	1.27	1.34	2.10	1.81	1.72	1.50	1.42	1.40	1.33	1.33	1.30	
28	1.41	1.42	1.34	2.06	1.73	1.75	1.49	1.42	1.39	1.33	1.32	1.30	
29	1.32	1.35	1.36	2.00	1.70	1.79	1.49	1.42	1.39	1.33		1.30	
30	1.31	1.30	1.34	1.88	1.69	1.74	1.50	1.41	1.38	1.33		1.30	
31		1.29		2.01	1.66		1.48		1.38	1.33		1.30	
Mean	1.31	1.30	1.36	1.68	1.83	1.82	1.58	1.44	1.41	1.35	1.33	1.31	
Max	1.41	1.42	1.56	2.57	2.18	2.64	1.77	1.48	1.57	1.38	1.33	1.36	2.64
Min	1.29	1.27	1.28	1.32	1.66	1.62	1.48	1.41	1.38	1.33	1.32	1.30	1.27

Annual Max Momentary Gage Height 3.41 M (A.D), at 19.00 Hours, on Jul 22, 1992

Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.23 M (A.D)

Left Bank Elevation 7.99 M (A.D)

Right Bank Elevation 9.98 M (A.D), Drainage Area 155 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.80	0.48	1.00	26.20	7.80	14.70	2.96	1.77	1.40	0.90	0.80	
2	0.60	0.54	0.48	1.10	19.75	15.90	12.30	2.79	1.77	1.30	0.90	0.80	
3	0.60	0.54	0.48	1.00	19.10	8.70	10.50	2.79	1.77	1.30	0.90	0.80	
4	0.60	0.54	0.54	1.00	25.40	8.25	10.05	2.62	1.77	1.30	0.90	0.80	
5	0.60	0.54	4.92	1.00	15.30	6.90	8.25	2.62	1.77	1.30	0.90	0.80	
6	0.60	0.54	1.30	0.90	36.95	109.20	7.80	2.62	1.77	1.20	0.90	0.70	
7	0.60	0.54	0.80	0.90	32.70	36.10	6.90	2.62	1.77	1.20	0.90	0.70	
8	0.60	0.54	2.28	0.80	32.70	25.40	6.00	2.45	1.77	1.20	0.90	0.70	
9	0.60	0.54	1.20	7.35	47.10	28.60	6.00	2.45	1.77	1.20	0.90	1.10	
10	0.60	0.54	1.20	5.73	31.00	26.20	5.46	2.45	1.60	1.20	0.90	1.20	
11	0.60	0.60	0.90	3.84	21.70	21.05	5.19	2.45	1.60	1.20	0.90	0.80	
12	0.60	0.80	2.45	2.45	17.15	16.50	5.46	2.45	1.60	1.10	0.90	0.90	
13	0.60	0.70	2.79	2.28	23.00	14.70	4.92	2.45	1.50	1.10	0.90	1.00	
14	0.60	0.54	1.50	36.10	15.30	12.30	4.65	2.45	1.50	1.10	0.90	0.80	
15	0.60	0.70	1.10	12.30	18.45	11.10	4.65	2.45	1.50	1.10	0.90	0.70	
16	0.60	0.70	1.00	6.45	14.10	16.50	4.38	2.28	1.50	1.10	0.90	0.70	
17	0.90	0.70	1.00	4.38	11.70	12.90	5.46	2.28	1.50	1.00	0.90	0.70	
18	0.90	0.70	1.00	2.96	21.70	20.40	6.00	2.28	1.50	1.00	0.90	0.70	
19	0.70	0.60	1.00	2.45	27.00	17.80	5.19	2.28	1.50	1.00	0.90	0.70	
20	0.60	0.54	1.00	2.11	16.50	14.70	4.65	2.28	1.50	1.00	0.90	0.60	
21	0.60	0.60	1.00	1.77	12.90	14.10	4.38	2.11	1.40	1.00	0.90	0.60	
22	0.60	0.54	1.00	97.20	11.10	12.30	4.11	2.11	1.40	1.00	0.90	0.80	
23	0.60	0.54	1.10	83.20	9.60	10.50	4.11	2.11	1.40	1.00	0.90	0.70	
24	0.60	0.48	1.10	35.25	12.30	25.40	3.84	2.11	5.19	1.00	0.90	0.60	
25	0.60	0.48	1.10	27.00	10.50	15.90	3.57	1.94	4.65	0.90	0.90	0.60	
26	0.54	0.42	1.00	32.70	12.90	14.70	3.57	1.94	2.28	0.90	0.90	0.60	
27	0.54	0.42	1.00	39.50	17.15	11.70	3.30	1.94	1.60	0.90	0.90	0.60	
28	1.77	1.94	1.00	36.10	12.30	13.50	3.13	1.94	1.50	0.90	0.80	0.60	
29	0.80	1.10	1.20	31.00	10.50	15.90	3.13	1.94	1.50	0.90		0.60	
30	0.70	0.60	1.00	21.70	10.05	12.90	3.30	1.77	1.40	0.90		0.60	
31		0.54		31.85	8.70		2.96		1.40	0.90		0.60	
Total	20.05	19.90	37.92	533.37	600.80	577.90	177.91	69.93	56.45	33.60	25.10	22.90	2175.83 CMSDAY
Mean	0.67	0.64	1.26	17.21	19.38	19.26	5.74	2.33	1.82	1.08	0.90	0.74	5.96 CMS
Max	1.77	1.94	4.92	97.20	47.10	109.20	14.70	2.96	5.19	1.40	0.90	1.20	109.20 CMS
Min	0.54	0.42	0.48	0.80	8.70	6.90	2.96	1.77	1.40	0.90	0.80	0.60	0.42 CMS
Runoff	1.732	1.719	3.276	46.083	51.909	49.931	15.371	6.042	4.877	2.903	2.169	1.979	187.992 MCM

Momentary Peak 411.00 CMS, at 3.41 M (A.D), at 19.00 Hours, on Jul 22, 1992
Runoff Yield 38.46 Liters/Second/Square KM, Momentary Peak Yield 2651.61 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

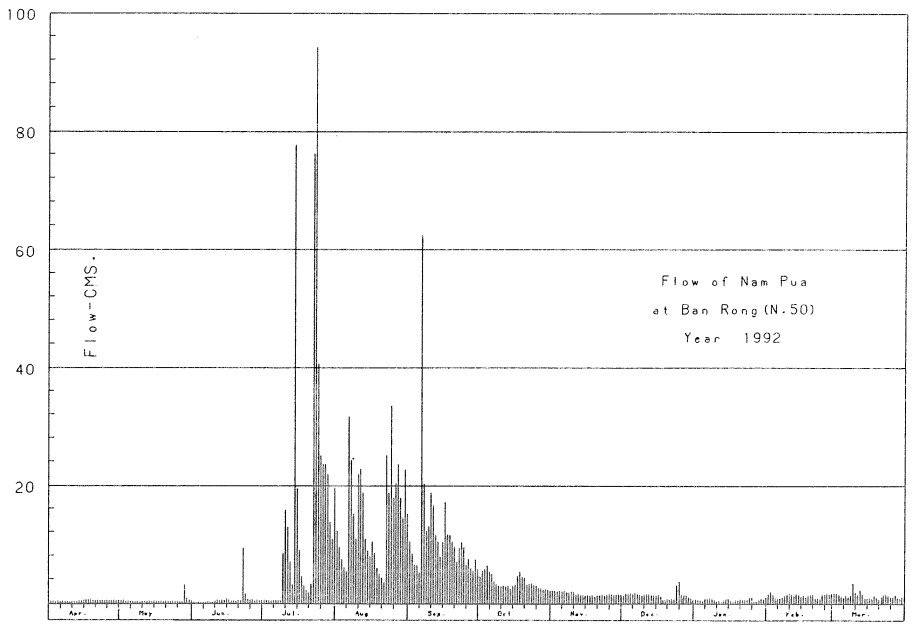
Nam Pua at Ban Rong, Nan (N.50)

Location	Lat. 19°-11'-38" N., Long. 100°-55'-14" E., on left bank downstream of the bridge of Nam Pua, along Pua-Thung Chang road at Ban Rong, Amphoe Pua, Nan.
Drainage Area	192 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+4.361 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.02	0.02	-0.08	0.02	0.52	0.49	0.35	0.23	0.15	0.05	0.18	0.20	
2	-0.04	0.02	-0.10	0.02	0.47	0.45	0.38	0.22	0.18	0.05	0.21	0.19	
3	-0.05	-0.02	-0.11	0.00	0.43	0.41	0.39	0.22	0.18	0.06	0.17	0.17	
4	-0.03	-0.03	-0.08	0.01	0.40	0.41	0.41	0.22	0.19	0.05	0.10	0.15	
5	-0.04	-0.03	-0.08	0.01	0.38	0.37	0.38	0.22	0.18	0.07	0.09	0.15	
6	-0.04	-0.04	-0.06	0.02	0.76	1.04	0.36	0.22	0.20	0.09	0.09	0.15	
7	-0.04	-0.05	-0.06	0.01	0.68	0.63	0.32	0.21	0.18	0.09	0.12	0.13	
8	-0.05	-0.05	-0.07	0.01	0.56	0.52	0.30	0.20	0.16	0.08	0.14	0.15	
9	-0.05	-0.04	-0.08	0.45	0.50	0.53	0.29	0.22	0.15	0.03	0.17	0.31	
10	-0.05	-0.04	0.00	0.57	0.65	0.61	0.28	0.21	0.16	0.01	0.20	0.21	
11	-0.04	-0.02	0.02	0.53	0.66	0.58	0.28	0.17	0.18	0.03	0.17	0.16	
12	-0.03	-0.02	0.02	0.42	0.61	0.51	0.28	0.18	0.17	0.01	0.15	0.24	
13	-0.02	-0.02	0.02	0.30	0.50	0.49	0.28	0.16	0.16	0.04	0.18	0.17	
14	0.01	-0.03	0.02	1.15	0.46	0.44	0.25	0.15	0.15	0.08	0.17	0.10	
15	0.01	-0.03	0.09	0.62	0.44	0.49	0.28	0.15	0.15	0.07	0.12	0.09	
16	0.02	-0.04	0.02	0.46	0.49	0.59	0.29	0.15	0.16	0.02	0.15	0.10	
17	0.04	-0.03	0.01	0.35	0.45	0.51	0.35	0.15	0.14	0.03	0.12	0.09	
18	0.05	-0.03	-0.02	0.28	0.40	0.51	0.38	0.15	0.05	0.03	0.14	0.14	
19	0.02	-0.03	-0.01	0.23	0.36	0.49	0.35	0.13	0.05	0.04	0.17	0.11	
20	0.01	-0.02	0.01	0.19	0.34	0.47	0.34	0.14	0.06	0.06	0.17	0.10	
21	0.01	-0.01	0.00	0.30	0.31	0.42	0.30	0.16	0.06	0.07	0.10	0.14	
22	0.01	-0.03	0.47	1.14	0.69	0.47	0.30	0.16	0.07	0.08	0.09	0.16	
23	0.00	-0.03	0.17	1.26	0.61	0.49	0.31	0.15	0.07	0.10	0.09	0.17	
24	0.01	-0.03	0.07	0.85	0.78	0.47	0.29	0.16	0.29	0.10	0.16	0.15	
25	0.01	-0.03	0.04	0.69	0.60	0.41	0.29	0.18	0.32	0.12	0.18	0.12	
26	0.00	-0.04	0.03	0.67	0.63	0.43	0.26	0.16	0.19	0.04	0.18	0.12	
27	0.01	-0.04	0.01	0.67	0.67	0.40	0.25	0.16	0.16	0.02	0.18	0.16	
28	0.01	0.30	0.02	0.65	0.60	0.38	0.24	0.16	0.15	0.04	0.18	0.10	
29	0.01	0.08	0.01	0.54	0.55	0.43	0.24	0.17	0.12	0.07		0.10	
30	0.01	0.04	0.01	0.50	0.66	0.39	0.24	0.16	0.09	0.08		0.11	
31		-0.02		0.62	0.56		0.22		0.05	0.11		0.15	
Mean	-0.01	-0.01	0.01	0.44	0.54	0.49	0.31	0.18	0.15	0.06	0.15	0.15	
Max	0.05	0.30	0.47	1.26	0.78	1.04	0.41	0.23	0.32	0.12	0.21	0.31	1.26
Min	-0.05	-0.05	-0.11	0.00	0.31	0.37	0.22	0.13	0.05	0.01	0.09	0.09	-0.11

Annual Max Momentary Gage Height 2.10 M (A.D), at 18.00 Hours, on Jul 22, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.06 M (A.D)
Left Bank Elevation 3.27 M (A.D)
Right Bank Elevation 4.05 M (A.D), Drainage Area 192 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.44	0.60	0.26	0.60	12.40	10.51	4.70	2.32	1.45	0.75	1.72	1.90	
2	0.38	0.60	0.20	0.60	9.53	8.55	5.54	2.18	1.72	0.75	2.04	1.81	
3	0.35	0.44	0.18	0.50	7.57	6.59	5.82	2.18	1.72	0.80	1.63	1.63	
4	0.41	0.41	0.26	0.55	6.10	6.59	6.59	2.18	1.81	0.75	1.00	1.45	
5	0.38	0.41	0.26	0.55	5.54	5.26	5.54	2.18	1.72	0.85	0.95	1.45	
6	0.38	0.38	0.32	0.60	31.70	62.40	4.98	2.18	1.90	0.95	0.95	1.45	
7	0.38	0.35	0.32	0.55	24.40	20.40	3.86	2.04	1.72	0.95	1.18	1.27	
8	0.35	0.35	0.29	0.55	15.20	12.40	3.30	1.90	1.54	0.90	1.36	1.45	
9	0.35	0.38	0.26	8.55	11.00	13.10	3.16	2.18	1.45	0.65	1.63	3.58	
10	0.35	0.38	0.50	15.90	22.00	18.80	3.02	2.04	1.54	0.55	1.90	2.04	
11	0.38	0.44	0.60	13.10	22.80	16.60	3.02	1.63	1.72	0.65	1.63	1.54	
12	0.41	0.44	0.60	7.08	18.80	11.70	3.02	1.72	1.63	0.55	1.45	2.46	
13	0.44	0.44	0.60	3.30	11.00	10.51	3.02	1.54	1.54	0.70	1.72	1.63	
14	0.55	0.41	0.60	77.75	9.04	8.06	2.60	1.45	1.45	0.90	1.63	1.00	
15	0.55	0.41	0.95	19.60	8.06	10.51	3.02	1.45	1.45	0.85	1.18	0.95	
16	0.60	0.38	0.60	9.04	10.51	17.30	3.16	1.45	1.54	0.60	1.45	1.00	
17	0.70	0.41	0.55	4.70	8.55	11.70	4.70	1.45	1.36	0.65	1.18	0.95	
18	0.75	0.41	0.44	3.02	6.10	11.70	5.54	1.45	0.75	0.65	1.36	1.36	
19	0.60	0.41	0.47	2.32	4.98	10.51	4.70	1.27	0.75	0.70	1.63	1.09	
20	0.55	0.44	0.55	1.81	4.42	9.53	4.42	1.36	0.80	0.80	1.63	1.00	
21	0.55	0.47	0.50	3.30	3.58	7.08	3.30	1.54	0.80	0.85	1.00	1.36	
22	0.55	0.41	9.53	76.30	25.20	9.53	3.30	1.54	0.85	0.90	0.95	1.54	
23	0.50	0.41	1.63	94.30	18.80	10.51	3.58	1.45	0.85	1.00	0.95	1.63	
24	0.55	0.41	0.85	40.75	33.60	9.53	3.16	1.54	3.16	1.00	1.54	1.45	
25	0.55	0.41	0.70	25.20	18.00	6.59	3.16	1.72	3.86	1.18	1.72	1.18	
26	0.50	0.38	0.65	23.60	20.40	7.57	2.74	1.54	1.81	0.70	1.72	1.18	
27	0.55	0.38	0.55	23.60	23.60	6.10	2.60	1.54	1.54	0.60	1.72	1.54	
28	0.55	3.30	0.60	22.00	18.00	5.54	2.46	1.54	1.45	0.70	1.72	1.00	
29	0.55	0.90	0.55	13.80	14.50	7.57	2.46	1.63	1.18	0.85		1.00	
30	0.55	0.70	0.55	11.00	22.80	5.82	2.46	1.54	0.95	0.90		1.09	
31		0.44		19.60	15.20		2.18		0.75	1.09		1.45	
Total	14.70	16.70	24.92	524.12	463.38	358.56	115.11	51.73	46.76	24.72	40.54	45.43	1726.67 CMSDAY
Mean	0.49	0.54	0.83	16.91	14.95	11.95	3.71	1.72	1.51	0.80	1.45	1.47	4.73 CMS
Max	0.75	3.30	9.53	94.30	33.60	62.40	6.59	2.32	3.86	1.18	2.04	3.58	94.30 CMS
Min	0.35	0.35	0.18	0.50	3.58	5.26	2.18	1.27	0.75	0.55	0.95	0.95	0.18 CMS
Runoff	1.270	1.443	2.153	45.284	40.036	30.980	9.946	4.469	4.040	2.136	3.503	3.925	149.185 MCM

Momentary Peak 252.50 CMS, at 2.10 M (A.D), at 18.00 Hours, on Jul 22, 1992
Runoff Yield 24.64 Liters/Second/Square KM, Momentary Peak Yield 1315.10 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

Nam Yang at Ban Don Mun, Nan (N.52)

Location — Lat. 19°-05'-08" N., Long. 100°-55'-51" E., on left bank at the bridge of Pua-Ban Du Phong Highway, Ban Don Mun, Tambon Sila Phet, Amphoe Pua, Nan.

Drainage Area — 49 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m. (A.D.)

Bench Mark — B.M.-H.D.

Location — On left bank about 15 meters from the abutment of the bridge.

Elevation — +3.063 m.(A.D.)

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

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

Period of Available Gage Records — 1980 to date.

Rating Operation

Period of Rating — 1980 to date.

Rated by Float —

Rated by Current Meter — 1980 to date.

Stability of Channel Regimes — Rather unstable with variable water surface slope.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 27 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

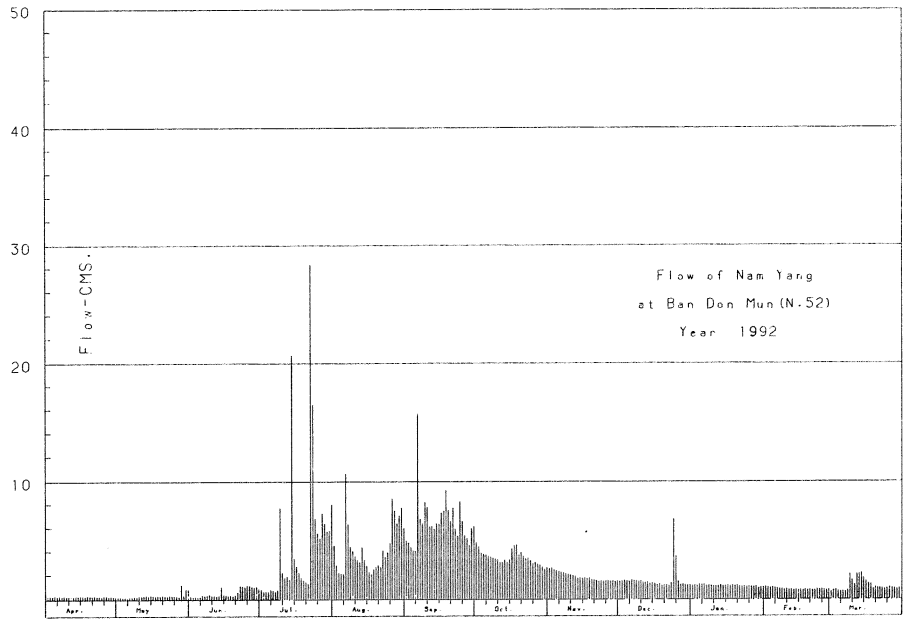
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.35	0.36	0.48	0.80	0.82	0.81	0.67	0.57	0.53	0.52	0.46	
2	0.37	0.34	0.35	0.46	0.69	0.81	0.79	0.67	0.57	0.53	0.51	0.47	
3	0.37	0.34	0.35	0.45	0.64	0.79	0.76	0.66	0.58	0.53	0.51	0.49	
4	0.38	0.33	0.35	0.46	0.63	0.77	0.75	0.65	0.57	0.54	0.51	0.46	
5	0.38	0.33	0.36	0.49	0.63	0.77	0.75	0.65	0.57	0.54	0.51	0.46	
6	0.37	0.34	0.40	0.47	1.06	1.21	0.74	0.64	0.58	0.54	0.50	0.46	
7	0.37	0.35	0.40	0.46	0.89	0.91	0.74	0.64	0.58	0.53	0.50	0.46	
8	0.37	0.36	0.39	0.47	0.79	0.89	0.73	0.63	0.57	0.53	0.49	0.47	
9	0.36	0.36	0.42	0.95	0.77	0.97	0.73	0.63	0.57	0.53	0.49	0.63	
10	0.36	0.37	0.38	0.64	0.74	0.95	0.72	0.62	0.57	0.52	0.49	0.58	
11	0.36	0.38	0.38	0.60	0.72	0.88	0.71	0.62	0.56	0.52	0.49	0.54	
12	0.37	0.39	0.38	0.61	0.71	0.88	0.71	0.61	0.56	0.53	0.48	0.63	
13	0.37	0.39	0.39	0.59	0.79	0.87	0.72	0.60	0.56	0.53	0.48	0.63	
14	0.38	0.39	0.52	1.33	0.72	0.89	0.71	0.60	0.55	0.53	0.48	0.64	
15	0.37	0.39	0.41	0.73	0.69	0.89	0.72	0.60	0.55	0.53	0.48	0.60	
16	0.37	0.38	0.40	0.68	0.64	0.93	0.78	0.60	0.55	0.53	0.48	0.57	
17	0.37	0.38	0.40	0.64	0.63	0.94	0.80	0.60	0.54	0.53	0.48	0.55	
18	0.38	0.38	0.39	0.60	0.66	1.01	0.80	0.60	0.54	0.53	0.48	0.54	
19	0.38	0.39	0.39	0.58	0.68	0.94	0.75	0.59	0.53	0.53	0.48	0.50	
20	0.37	0.39	0.40	0.56	0.69	0.90	0.76	0.58	0.53	0.53	0.48	0.51	
21	0.37	0.38	0.44	0.55	0.68	0.95	0.74	0.58	0.53	0.52	0.48	0.51	
22	0.37	0.38	0.53	1.50	0.77	0.87	0.73	0.57	0.53	0.52	0.48	0.51	
23	0.36	0.39	0.52	1.23	0.74	0.84	0.73	0.57	0.55	0.52	0.49	0.50	
24	0.36	0.39	0.52	0.91	0.76	0.97	0.72	0.57	0.91	0.52	0.49	0.50	
25	0.37	0.37	0.53	0.85	0.81	0.90	0.70	0.57	0.74	0.52	0.49	0.50	
26	0.37	0.37	0.53	0.83	0.98	0.84	0.71	0.57	0.57	0.52	0.48	0.51	
27	0.36	0.36	0.52	0.93	0.94	0.83	0.70	0.57	0.54	0.52	0.48	0.51	
28	0.36	0.54	0.51	0.89	0.89	0.80	0.69	0.57	0.54	0.52	0.48	0.50	
29	0.36	0.40	0.52	0.86	0.92	0.87	0.68	0.57	0.54	0.51		0.50	
30	0.35	0.49	0.49	0.86	0.95	0.88	0.66	0.57	0.53	0.51		0.50	
31		0.49		0.96	0.87		0.67		0.53	0.51		0.50	
Mean	0.37	0.38	0.43	0.73	0.77	0.89	0.73	0.61	0.57	0.53	0.49	0.52	
Max	0.38	0.54	0.53	1.50	1.06	1.21	0.81	0.67	0.91	0.54	0.52	0.64	1.50
Min	0.35	0.33	0.35	0.45	0.63	0.77	0.66	0.57	0.53	0.51	0.48	0.46	0.33

Annual Max Momentary Gage Height — 1.80 M (A.D), at 10.00 Hours, on Jul 22, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.27 M (A.D)

Left Bank Elevation — 3.08 M (A.D)

Right Bank Elevation — 1.79 M (A.D), Drainage Area — 49 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.21	0.24	0.81	4.60	5.00	4.80	2.64	1.54	1.18	1.10	0.69	
2	0.27	0.18	0.21	0.69	2.88	4.80	4.44	2.64	1.54	1.18	1.01	0.75	
3	0.27	0.18	0.21	0.63	2.28	4.44	3.96	2.52	1.62	1.18	1.01	0.86	
4	0.29	0.15	0.21	0.69	2.16	4.12	3.80	2.40	1.54	1.27	1.01	0.69	
5	0.29	0.15	0.24	0.86	2.16	4.12	3.80	2.40	1.54	1.27	1.01	0.69	
6	0.27	0.18	0.35	0.75	10.68	15.71	3.64	2.28	1.62	1.27	0.92	0.69	
7	0.27	0.21	0.35	0.69	6.40	6.84	3.64	2.28	1.62	1.18	0.92	0.69	
8	0.27	0.24	0.32	0.75	4.44	6.40	3.48	2.16	1.54	1.18	0.86	0.75	
9	0.24	0.24	0.46	7.80	4.12	8.28	3.48	2.16	1.54	1.18	0.86	2.16	
10	0.24	0.27	0.29	2.28	3.64	7.80	3.32	2.04	1.54	1.10	0.86	1.62	
11	0.24	0.29	0.29	1.80	3.32	6.20	3.16	2.04	1.45	1.10	0.86	1.27	
12	0.27	0.32	0.29	1.92	3.16	6.20	3.16	1.92	1.45	1.18	0.81	2.16	
13	0.27	0.32	0.32	1.71	4.44	6.00	3.32	1.80	1.45	1.18	0.81	2.16	
14	0.29	0.32	1.10	20.69	3.32	6.40	3.16	1.80	1.36	1.18	0.81	2.28	
15	0.27	0.32	0.41	3.48	2.88	6.40	3.32	1.80	1.36	1.18	0.81	1.80	
16	0.27	0.29	0.35	2.76	2.28	7.32	4.28	1.80	1.36	1.18	0.81	1.54	
17	0.27	0.29	0.35	2.28	2.16	7.56	4.60	1.80	1.27	1.18	0.81	1.36	
18	0.29	0.29	0.32	1.80	2.52	9.28	4.60	1.80	1.27	1.18	0.81	1.27	
19	0.29	0.32	0.32	1.62	2.76	7.56	3.80	1.71	1.18	1.18	0.81	0.92	
20	0.27	0.32	0.35	1.45	2.88	6.60	3.96	1.62	1.18	1.18	0.81	1.01	
21	0.27	0.29	0.58	1.36	2.76	7.80	3.64	1.62	1.18	1.10	0.81	1.01	
22	0.27	0.29	1.18	28.40	4.12	6.00	3.48	1.54	1.18	1.10	0.81	1.01	
23	0.24	0.32	1.10	16.53	3.64	5.40	3.48	1.54	1.36	1.10	0.86	0.92	
24	0.24	0.32	1.10	6.84	3.96	8.28	3.32	1.54	6.84	1.10	0.86	0.92	
25	0.27	0.27	1.18	5.60	4.80	6.60	3.00	1.54	3.64	1.10	0.86	0.92	
26	0.27	0.27	1.18	5.20	8.52	5.40	3.16	1.54	1.54	1.10	0.81	1.01	
27	0.24	0.24	1.10	7.32	7.56	5.20	3.00	1.54	1.27	1.10	0.81	1.01	
28	0.24	1.27	1.01	6.40	6.40	4.60	2.88	1.54	1.27	1.10	0.81	0.92	
29	0.24	0.35	1.10	5.80	7.08	6.00	2.76	1.54	1.27	1.01		0.92	
30	0.21	0.86	0.86	5.80	7.80	6.20	2.52	1.54	1.18	1.01		0.92	
31		0.86		8.04	6.00		2.64		1.18	1.01		0.92	
Total	7.90	10.43	17.37	152.75	135.72	198.51	109.60	57.09	50.88	35.54	24.34	35.84	835.97 CMSDAY
Mean	0.26	0.34	0.58	4.93	4.38	6.62	3.54	1.90	1.64	1.15	0.87	1.16	2.29 CMS
Max	0.29	1.27	1.18	28.40	10.68	15.71	4.80	2.64	6.84	1.27	1.10	2.28	28.40 CMS
Min	0.21	0.15	0.21	0.63	2.16	4.12	2.52	1.54	1.18	1.01	0.81	0.69	0.15 CMS
Runoff	0.683	0.901	1.501	13.198	11.726	17.151	9.469	4.933	4.396	3.071	2.103	3.097	72.228 MCM

Momentary Peak 43.20 CMS, at 1.80 M (A.D), at 10.00 Hours, on Jul 22, 1992
Runoff Yield 46.74 Liters/Second/Square KM, Momentary Peak Yield 881.63 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

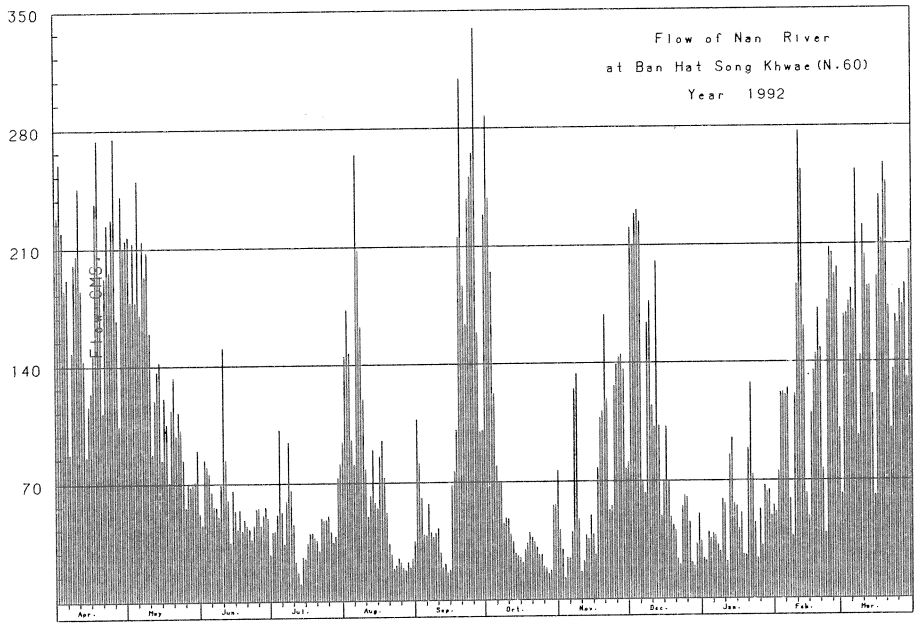
Nan River at Ban Hat Song Khwae, Uttaradit (N.60)

Location	Lat. 17°-24'-50" N., Long. 100°-07'-50" E., on right bank about 1 kilometer downstream from Wat Hat Song Khwae, Amphoe Tron, Uttaradit.
Drainage Area	18,692 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+48.50 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank near the Meteorological Station.
Elevation	+57.592 m.(M.S.L.)
Gage Reading Frequency	16-time daily readings at 03.00, 06.00 - 18.00 and 21.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 16 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 110 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.66	50.58	49.14	49.09	50.04	49.73	51.06	49.09	50.60	48.85	49.20	49.31	
2	50.88	50.30	49.52	49.09	50.26	49.49	50.73	48.94	50.53	48.82	49.44	50.22	
3	50.60	50.55	49.48	49.20	50.06	49.30	50.42	48.64	50.66	49.07	49.85	50.23	
4	50.35	50.30	49.44	49.68	49.62	49.06	49.85	48.86	50.68	49.02	49.85	50.28	
5	50.40	50.81	49.34	49.22	49.49	49.06	49.48	48.86	50.63	49.06	49.84	50.34	
6	49.55	50.24	49.25	49.00	50.91	49.26	49.39	49.08	49.38	49.04	49.87	50.24	
7	50.07	50.56	49.25	49.28	50.51	49.08	49.39	49.87	49.32	48.97	49.28	50.84	
8	50.46	50.41	49.19	49.61	50.18	49.04	49.14	49.95	50.19	48.91	49.04	49.63	
9	50.50	50.51	49.38	49.35	49.83	49.07	49.17	49.16	50.29	49.28	49.84	50.03	
10	50.78	50.16	50.09	49.14	49.46	49.11	49.17	48.70	49.79	49.25	50.36	50.61	
11	50.35	49.55	49.52	48.83	49.19	48.92	49.06	48.83	49.68	48.81	50.99	50.48	
12	50.03	49.83	49.29	48.71	49.31	48.76	49.01	49.05	50.46	49.53	50.84	50.35	
13	49.54	49.97	49.01	48.58	49.57	48.81	48.91	49.02	49.69	49.62	50.17	50.35	
14	49.80	50.02	49.35	48.88	49.27	48.70	48.88	49.19	49.18	49.25	49.31	49.84	
15	49.87	49.52	49.23	48.87	49.24	48.74	48.86	49.06	49.38	49.24	49.17	49.30	
16	50.06	49.84	49.11	49.00	49.53	49.37	48.82	48.89	49.68	49.09	49.75	50.39	
17	50.72	49.71	49.23	49.07	49.62	49.45	48.94	49.46	49.39	49.20	49.96	50.73	
18	50.97	49.40	49.10	49.08	49.42	49.67	48.99	49.73	49.17	48.88	50.04	50.55	
19	50.42	49.78	49.17	49.04	49.21	50.57	49.07	49.76	49.12	48.88	50.25	50.86	
20	49.77	49.94	49.13	49.02	49.00	51.20	49.04	50.23	49.08	49.56	50.07	50.79	
21	50.40	49.65	49.11	48.94	48.90	50.36	49.00	49.82	48.84	49.90	49.45	50.26	
22	50.63	49.77	49.03	49.18	48.76	50.19	48.96	49.22	48.79	49.42	49.06	49.67	
23	50.43	49.68	49.13	49.16	48.79	50.73	48.89	49.24	49.24	49.13	50.29	49.96	
24	50.65	49.52	49.24	49.17	48.87	50.82	48.90	49.89	49.30	48.85	50.51	50.22	
25	50.98	49.25	49.24	49.19	48.82	50.91	48.77	49.99	49.29	49.22	50.49	50.18	
26	50.22	49.39	49.13	49.09	48.76	51.39	48.75	50.03	49.14	48.96	50.40	50.33	
27	49.70	49.37	49.20	49.01	48.74	50.15	48.69	50.04	48.81	49.36	50.43	50.27	
28	50.75	49.39	49.25	49.05	48.83	49.66	48.72	49.97	48.76	49.32	49.67	50.36	
29	50.53	49.40	49.18	49.42	48.77	49.67	49.25	49.46	48.98	49.33		49.92	
30	50.56	49.57	48.91	49.49	48.86	50.66	49.25	49.49	49.19	49.18		50.50	
31		49.21		49.61	49.01		49.45		49.00	49.24		50.69	
Mean	50.35	49.88	49.25	49.13	49.38	49.70	49.23	49.38	49.56	49.17	49.91	50.25	
Max	50.98	50.81	50.09	49.68	50.91	51.39	51.06	50.23	50.68	49.90	50.99	50.86	51.39
Min	49.54	49.21	48.91	48.58	48.74	48.70	48.69	48.64	48.76	48.81	49.04	49.30	48.58

Annual Max Momentary Gage Height 51.60 M (MSL), at 6.00 Hours, on Sep 26, 1992
Zero Gage at Bottom Elevation 48.50 M (MSL), River Bed 47.73 M (MSL)
Left Bank Elevation 56.47 M (MSL)
Right Bank Elevation 57.60 M (MSL), Drainage Area 18692 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	228.40	217.20	45.60	41.20	144.80	107.60	287.50	41.20	220.00	24.00	51.00	62.00	
2	260.50	178.00	84.20	41.20	172.80	80.90	238.35	29.80	210.20	22.20	75.40	167.60	
3	220.00	213.00	79.80	51.00	147.20	61.00	194.80	13.00	228.40	39.60	122.00	168.90	
4	185.00	178.00	75.40	101.80	95.20	38.80	122.00	24.60	231.20	35.60	122.00	175.40	
5	192.00	250.00	65.00	53.00	80.90	38.80	79.80	24.60	224.20	38.80	120.80	183.60	
6	87.50	170.20	56.00	34.00	265.00	57.00	70.00	40.40	69.00	37.20	124.40	170.20	
7	148.40	214.40	56.00	59.00	207.40	40.40	70.00	124.40	63.00	31.90	59.00	254.50	
8	200.40	193.40	50.10	94.10	162.40	37.20	45.60	134.00	163.70	27.70	37.20	96.30	
9	206.00	207.40	69.00	66.00	119.60	39.60	48.30	47.40	176.70	59.00	120.80	143.60	
10	245.60	159.80	150.80	45.60	77.60	42.90	48.30	16.00	114.80	56.00	186.40	221.40	
11	185.00	87.50	84.20	22.80	50.10	28.40	38.80	22.80	101.80	21.60	277.00	203.20	
12	143.60	119.60	60.00	16.50	62.00	19.00	34.80	38.00	200.40	85.30	254.50	185.00	
13	86.40	136.40	34.80	10.20	89.70	21.60	27.70	35.60	102.90	95.20	161.10	185.00	
14	116.00	142.40	66.00	25.80	58.00	16.00	25.80	50.10	49.20	56.00	62.00	120.80	
15	124.40	84.20	54.00	25.20	55.00	18.00	24.60	38.80	69.00	55.00	48.30	61.00	
16	147.20	120.80	42.90	34.00	85.30	68.00	22.20	26.40	101.80	41.20	110.00	190.60	
17	236.90	105.20	54.00	39.60	95.20	76.50	29.80	77.60	70.00	51.00	135.20	238.35	
18	274.00	71.00	42.00	40.40	73.20	100.70	33.30	107.60	48.30	25.80	144.80	213.00	
19	194.80	113.60	48.30	37.20	52.00	215.80	39.60	111.20	43.80	25.80	171.50	257.50	
20	112.40	132.80	44.70	35.60	34.00	309.00	37.20	168.90	40.40	88.60	148.40	247.05	
21	192.00	98.50	42.90	29.80	27.00	186.40	34.00	118.40	23.40	128.00	76.50	172.80	
22	224.20	112.40	36.40	49.20	19.00	163.70	31.20	53.00	20.50	73.20	38.80	100.70	
23	196.20	101.80	44.70	47.40	20.50	238.35	26.40	55.00	55.00	44.70	176.70	135.20	
24	227.00	84.20	55.00	48.30	25.20	251.50	27.00	126.80	61.00	24.00	207.40	167.60	
25	275.50	56.00	55.00	50.10	22.20	265.00	19.50	138.80	60.00	53.00	204.60	162.40	
26	167.60	70.00	44.70	41.20	19.00	339.35	18.50	143.60	45.60	31.20	192.00	182.20	
27	104.00	68.00	51.00	34.80	18.00	158.50	15.50	144.80	21.60	67.00	196.20	174.10	
28	241.25	70.00	56.00	38.00	22.80	99.60	17.00	136.40	19.00	63.00	100.70	186.40	
29	210.20	71.00	49.20	73.20	19.50	100.70	56.00	77.60	32.60	64.00		130.40	
30	214.40	89.70	27.70	80.90	24.60	228.40	56.00	80.90	50.10	49.20		206.00	
31		52.00		94.10	34.80		76.50		34.00	55.00		232.60	
Total	5646.85	3968.50	1725.40	1461.20	2380.00	3448.70	1896.05	2247.70	2951.60	1569.80	3724.70	5395.40	36415.90 CMSDAY
Mean	188.23	128.02	57.51	47.14	76.77	114.96	61.16	74.92	95.21	50.64	133.02	174.05	99.77 CMS
Max	275.50	250.00	150.80	101.80	265.00	339.35	287.50	168.90	231.20	128.00	277.00	257.50	339.35 CMS
Min	86.40	52.00	27.70	10.20	18.00	16.00	15.50	13.00	19.00	21.60	37.20	61.00	10.20 CMS
Runoff	487.888	342.878	149.075	126.248	205.632	297.968	163.819	194.201	255.018	135.631	321.814	466.163	3146.334 MCM

Momentary Peak 374.00 CMS, at 51.60 M (MSL), at 6.00 Hours, on Sep 26, 1992
Runoff Yield 5.34 Liters/Second/Square KM, Momentary Peak Yield 20.01 Liters/Second/Square KM

WATER YEAR 1992

NAN RIVER BASIN

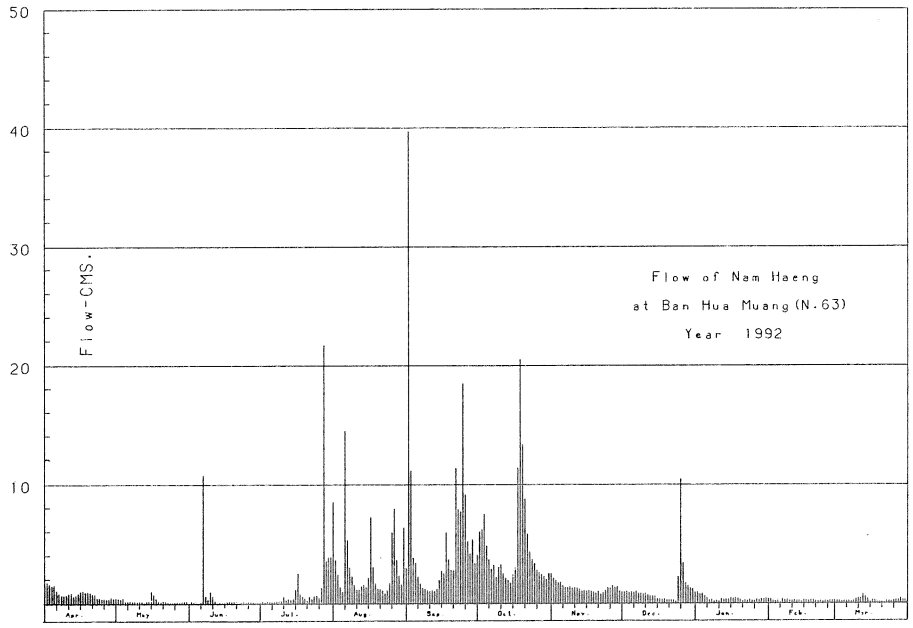
Nam Haeng at Ban Hua Muang, Nan (N.63)

Location	Lat. 18°-21'-48" N., Long. 100°-43'-41" E., on left bank at the bridge on road, Ban Hua Muang, Tambon Si Sa Ket, Amphoe Na Noi, Nan.
Drainage Area	788 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 34 meters from the first staff gage.
Elevation	+11.00 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	0.54	0.47	0.48	0.98	3.25	1.19	0.81	0.65	0.64	0.54	0.51	
2	0.74	0.54	0.47	0.47	0.84	1.59	1.21	0.78	0.65	0.62	0.50	0.50	
3	0.73	0.55	0.48	0.47	0.71	1.00	1.31	0.76	0.64	0.62	0.50	0.49	
4	0.73	0.50	0.47	0.48	0.64	0.95	1.10	0.76	0.64	0.59	0.52	0.49	
5	0.67	0.49	0.45	0.48	1.85	0.82	0.98	0.73	0.64	0.55	0.52	0.50	
6	0.62	0.50	1.56	0.48	1.14	0.75	0.90	0.70	0.65	0.52	0.53	0.50	
7	0.60	0.49	0.59	0.48	0.91	0.70	0.93	0.71	0.63	0.52	0.52	0.49	
8	0.60	0.48	0.52	0.50	0.83	0.68	0.82	0.71	0.62	0.50	0.52	0.49	
9	0.61	0.48	0.65	0.49	0.73	0.67	0.91	0.70	0.62	0.50	0.51	0.54	
10	0.62	0.48	0.58	0.57	0.68	0.65	0.94	0.70	0.62	0.50	0.51	0.55	
11	0.64	0.47	0.52	0.52	0.67	0.66	0.85	0.70	0.61	0.53	0.51	0.54	
12	0.59	0.46	0.50	0.53	0.72	0.66	0.81	0.68	0.59	0.53	0.51	0.61	
13	0.60	0.49	0.49	0.52	0.73	0.68	0.78	0.66	0.59	0.52	0.50	0.58	
14	0.63	0.49	0.49	0.53	0.71	0.79	0.76	0.66	0.58	0.53	0.50	0.53	
15	0.65	0.66	0.47	0.68	0.81	0.88	0.84	0.66	0.54	0.55	0.51	0.51	
16	0.66	0.61	0.48	0.86	1.29	0.85	0.92	0.66	0.53	0.55	0.51	0.51	
17	0.65	0.55	0.48	0.61	0.92	1.19	1.61	0.66	0.53	0.55	0.51	0.51	
18	0.65	0.51	0.47	0.58	0.75	0.98	2.25	0.64	0.53	0.55	0.51	0.50	
19	0.64	0.49	0.47	0.54	0.69	0.89	1.76	0.63	0.52	0.52	0.52	0.51	
20	0.62	0.49	0.48	0.51	0.68	0.88	1.41	0.65	0.51	0.50	0.49	0.50	
21	0.61	0.49	0.47	0.57	0.66	1.61	1.18	0.62	0.52	0.51	0.49	0.50	
22	0.56	0.48	0.46	0.54	0.63	1.34	1.05	0.63	0.51	0.51	0.49	0.50	
23	0.55	0.47	0.47	0.58	0.67	1.33	0.98	0.67	0.49	0.52	0.49	0.50	
24	0.54	0.48	0.47	0.60	0.75	2.13	0.95	0.70	0.82	0.51	0.50	0.51	
25	0.54	0.47	0.46	0.55	1.19	1.44	0.89	0.70	1.54	0.51	0.50	0.51	
26	0.53	0.47	0.47	0.70	1.35	1.13	0.86	0.72	0.95	0.52	0.50	0.51	
27	0.54	0.48	0.47	2.32	0.98	1.03	0.85	0.71	0.76	0.52	0.51	0.52	
28	0.56	0.50	0.47	0.97	0.83	1.14	0.82	0.71	0.72	0.53	0.51	0.54	
29	0.55	0.49	0.48	1.00	0.74	0.95	0.80	0.66	0.70	0.54		0.52	
30	0.55	0.48	0.48	1.00	1.22	1.02	0.85	0.64	0.68	0.54		0.51	
31		0.48		1.39	0.91		0.85		0.64	0.53		0.51	
Mean	0.62	0.50	0.53	0.68	0.88	1.09	1.04	0.69	0.65	0.54	0.51	0.52	
Max	0.77	0.66	1.56	2.32	1.85	3.25	2.25	0.81	1.54	0.64	0.54	0.61	3.25
Min	0.53	0.46	0.45	0.47	0.63	0.65	0.76	0.62	0.49	0.50	0.49	0.49	0.45

Annual Max Momentary Gage Height 6.18 M (A.D), at 10.00 Hours, on Sep 1, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.05 M (A.D)
Left Bank Elevation 6.55 M (A.D)
Right Bank Elevation 5.06 M (A.D), Drainage Area 788 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.88	0.44	0.18	0.20	3.71	39.75	6.03	2.19	1.04	0.98	0.44	0.30	
2	1.66	0.44	0.18	0.18	2.44	11.17	6.28	1.95	1.04	0.86	0.25	0.25	
3	1.58	0.49	0.20	0.18	1.43	3.90	7.53	1.80	0.98	0.86	0.25	0.23	
4	1.58	0.25	0.18	0.20	0.98	3.43	4.90	1.80	0.98	0.68	0.35	0.23	
5	1.17	0.23	0.12	0.20	14.55	2.27	3.71	1.58	0.98	0.49	0.35	0.25	
6	0.86	0.25	10.78	0.20	5.40	1.73	2.95	1.36	1.04	0.35	0.39	0.25	
7	0.73	0.23	0.68	0.20	3.05	1.36	3.24	1.43	0.92	0.35	0.35	0.23	
8	0.73	0.20	0.35	0.25	2.35	1.23	2.27	1.43	0.86	0.25	0.35	0.23	
9	0.79	0.20	1.04	0.23	1.58	1.17	3.05	1.36	0.86	0.25	0.30	0.44	
10	0.86	0.20	0.63	0.59	1.23	1.04	3.33	1.36	0.86	0.25	0.30	0.49	
11	0.98	0.18	0.35	0.35	1.17	1.11	2.53	1.36	0.79	0.39	0.30	0.44	
12	0.68	0.15	0.25	0.39	1.51	1.11	2.19	1.23	0.68	0.39	0.30	0.79	
13	0.73	0.23	0.23	0.35	1.58	1.23	1.95	1.11	0.68	0.35	0.25	0.63	
14	0.92	0.23	0.23	0.39	1.43	2.03	1.80	1.11	0.63	0.39	0.25	0.39	
15	1.04	1.11	0.18	1.23	2.19	2.78	2.44	1.11	0.44	0.49	0.30	0.30	
16	1.11	0.79	0.20	2.61	7.28	2.53	3.14	1.11	0.39	0.49	0.30	0.30	
17	1.04	0.49	0.20	0.79	3.14	6.03	11.43	1.11	0.39	0.49	0.30	0.30	
18	1.04	0.30	0.18	0.63	1.73	3.71	20.55	0.98	0.39	0.49	0.30	0.25	
19	0.98	0.23	0.18	0.44	1.30	2.87	13.38	0.92	0.35	0.35	0.35	0.30	
20	0.86	0.23	0.20	0.30	1.23	2.78	8.83	1.04	0.30	0.25	0.23	0.25	
21	0.79	0.23	0.18	0.59	1.11	11.43	5.90	0.86	0.35	0.30	0.23	0.25	
22	0.54	0.20	0.15	0.44	0.92	7.92	4.40	0.92	0.30	0.30	0.23	0.25	
23	0.49	0.18	0.18	0.63	1.17	7.79	3.71	1.17	0.23	0.35	0.23	0.25	
24	0.44	0.20	0.18	0.73	1.73	18.51	3.43	1.36	2.27	0.30	0.25	0.30	
25	0.44	0.18	0.15	0.49	6.03	9.22	2.87	1.36	10.52	0.30	0.25	0.30	
26	0.39	0.18	0.18	1.36	8.05	5.28	2.61	1.51	3.43	0.35	0.25	0.30	
27	0.44	0.20	0.18	21.74	3.71	4.20	2.53	1.43	1.80	0.35	0.30	0.35	
28	0.54	0.25	0.18	3.62	2.35	5.40	2.27	1.43	1.51	0.39	0.30	0.44	
29	0.49	0.23	0.20	3.90	1.66	3.43	2.10	1.11	1.36	0.44		0.35	
30	0.49	0.20	0.20	3.90	6.40	4.10	2.53	0.98	1.23	0.44		0.30	
31		0.20		8.57	3.05		2.53		0.98	0.39		0.30	
Total	26.27	9.12	18.32	55.88	95.46	170.51	146.41	39.47	38.58	13.31	8.25	10.24	631.82 CMSDAY
Mean	0.88	0.29	0.61	1.80	3.08	5.68	4.72	1.32	1.24	0.43	0.29	0.33	1.73 CMS
Max	1.88	1.11	10.78	21.74	14.55	39.75	20.55	2.19	10.52	0.98	0.44	0.79	39.75 CMS
Min	0.39	0.15	0.12	0.18	0.92	1.04	1.80	0.86	0.23	0.25	0.23	0.23	0.12 CMS
Runoff	2.270	0.788	1.583	4.828	8.248	14.732	12.650	3.410	3.333	1.150	0.713	0.885	54.589 MCM

Momentary Peak 161.00 CMS, at 6.18 M (A.D), at 10.00 Hours, on Sep 1, 1992
Runoff Yield 2.20 Liters/Second/Square KM, Momentary Peak Yield 204.31 Liters/Second/Square KM

WATER YEAR 1992

NAM MAE KOK BASIN

Nam Mae Thalop Luang, Ban Mae Thalop Luang, Chiang Mai (G.7)

Location — Lat. 19°-42'-40" N., Long. 99°-12'-50" E., on right bank about 200 meters downstream from damsite, Ban Mae Thalop Luang, Amphoe Fang, Chiang Mai.

Drainage Area — 85 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On right bank about 4 meters from the top staff gage.

Elevation — +4.608 m.(A.D.)

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

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

Period of Available Gage Records — 1986 to date.

Rating Operation

Period of Rating — 1986 to date.

Rated by Float — -

Rated by Current Meter — 1986 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage- discharge relation defined by 96 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

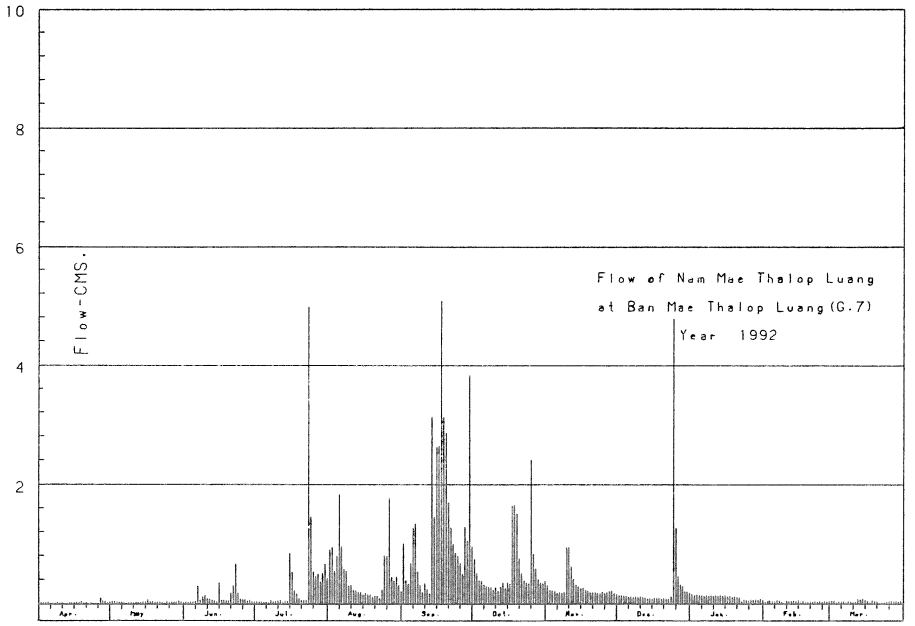
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	0.65	0.62	0.63	1.01	1.03	0.98	0.85	0.76	0.77	0.68	0.67	
2	0.60	0.63	0.62	0.63	1.02	0.89	0.92	0.82	0.75	0.76	0.67	0.66	
3	0.61	0.63	0.62	0.62	0.93	0.86	0.89	0.81	0.75	0.76	0.66	0.64	
4	0.61	0.62	0.61	0.63	0.99	0.96	0.88	0.81	0.74	0.76	0.65	0.65	
5	0.59	0.61	0.65	0.63	1.17	1.08	0.86	0.79	0.74	0.75	0.68	0.65	
6	0.58	0.60	0.85	0.62	1.02	1.09	0.84	0.79	0.73	0.75	0.67	0.65	
7	0.59	0.59	0.67	0.66	0.94	0.93	0.84	0.79	0.73	0.75	0.66	0.64	
8	0.61	0.59	0.74	0.63	0.93	0.85	0.83	0.79	0.73	0.75	0.65	0.63	
9	0.60	0.60	0.75	0.64	0.85	0.80	0.82	1.02	0.73	0.75	0.61	0.63	
10	0.59	0.59	0.72	0.66	0.85	0.87	0.83	1.02	0.73	0.75	0.66	0.63	
11	0.59	0.61	0.70	0.66	0.82	0.82	0.81	0.95	0.73	0.75	0.64	0.64	
12	0.59	0.61	0.68	0.67	0.81	0.78	0.84	0.90	0.72	0.75	0.65	0.70	
13	0.62	0.62	0.65	0.65	0.80	1.34	0.87	0.86	0.72	0.75	0.65	0.70	
14	0.60	0.62	0.64	0.65	0.79	1.11	0.83	0.84	0.71	0.75	0.64	0.70	
15	0.61	0.64	0.87	1.00	0.77	1.28	0.87	0.83	0.71	0.75	0.66	0.68	
16	0.61	0.68	0.69	0.93	0.78	1.28	0.86	0.83	0.72	0.74	0.66	0.67	
17	0.61	0.64	0.66	0.81	0.77	1.55	1.14	0,82	0.72	0.74	0.66	0.67	
18	0.63	0.64	0.67	0.78	0.76	1.34	1.14	0.81	0.72	0.73	0.65	0.66	
19	0.62	0.63	0.65	0.71	0.73	1.31	1.12	0.80	0.71	0.73	0.64	0.65	
20	0.61	0.64	0.78	0.68	0.74	1.15	0.98	0.79	0.71	0.73	0.66	0.63	
21	0.59	0.63	0.85	0.67	0.74	1.08	0.92	0.80	0.71	0.73	0.64	0.62	
22	0.59	0.61	0.96	0.67	0.72	1.03	0.89	0.78	0.70	0.69	0.64	0.62	
23	0.59	0.60	0.78	1.54	0.82	1.00	0.87	0.78	0.74	0.69	0.64	0.64	
24	0.58	0.63	0.71	1.11	0.99	0.99	0.87	0.80	1.52	0.68	0.64	0.64	
25	0.59	0.62	0.70	0.93	0.99	0.96	1.25	0.79	1.08	0.68	0.64	0.65	
26	0.72	0.62	0.69	0.91	1.16	0.92	1.00	0.79	0.91	0.68	0.64	0.64	
27	0.65	0.61	0.67	0.92	0.91	1.08	0.94	0.81	0.86	0.69	0.63	0.63	
28	0.63	0.61	0.66	0.88	0.88	1.04	0.90	0.81	0.84	0.69	0.63	0.64	
29	0.61	0.66	0.64	0.92	0.91	1.42	0.87	0.78	0.81	0.69		0.63	
30	0.62	0.62	0.63	0.96	0.85	1.02	0.87	0.77	0.80	0.70		0.64	
31		0.61		0.90	0.81		0.88		0.79	0.69		0.64	
Mean	0.61	0.62	0.70	0.78	0.88	1.06	0.92	0.83	0.78	0.73	0.65	0.65	
Max	0.72	0.68	0.96	1.54	1.17	1.55	1.25	1.02	1.52	0.77	0.68	0.70	1.55
Min	0.58	0.59	0.61	0.62	0.72	0.78	0.81	0.77	0.70	0.68	0.61	0.62	0.58

Annual Max Momentary Gage Height — 2.16 M (A.D), at 18.00 Hours, on Sep 13, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.33 M (A.D)

Left Bank Elevation — 2.76 M (A.D)

Right Bank Elevation — 3.43 M (A.D), Drainage Area — 85 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.05	0.03	0.04	0.91	1.01	0.76	0.31	0.15	0.16	0.07	0.06	
2	0.02	0.04	0.03	0.04	0.96	0.40	0.51	0.24	0.14	0.15	0.06	0.06	
3	0.03	0.04	0.03	0.03	0.55	0.33	0.40	0.22	0.14	0.15	0.06	0.04	
4	0.03	0.03	0.03	0.04	0.81	0.68	0.38	0.22	0.13	0.15	0.05	0.05	
5	0.02	0.03	0.05	0.04	1.85	1.29	0.33	0.19	0.13	0.14	0.07	0.05	
6	0.01	0.02	0.31	0.03	0.96	1.35	0.29	0.19	0.12	0.14	0.06	0.05	
7	0.02	0.02	0.06	0.06	0.59	0.55	0.29	0.19	0.12	0.14	0.06	0.04	
8	0.03	0.02	0.13	0.04	0.55	0.31	0.27	0.19	0.12	0.14	0.05	0.04	
9	0.02	0.02	0.14	0.04	0.31	0.20	0.24	0.96	0.12	0.14	0.03	0.04	
10	0.02	0.02	0.10	0.06	0.31	0.35	0.27	0.96	0.12	0.14	0.06	0.04	
11	0.02	0.03	0.08	0.06	0.24	0.24	0.22	0.64	0.12	0.14	0.04	0.04	
12	0.02	0.03	0.07	0.06	0.22	0.18	0.29	0.42	0.10	0.14	0.05	0.08	
13	0.03	0.03	0.05	0.05	0.20	3.14	0.35	0.33	0.10	0.14	0.05	0.08	
14	0.02	0.03	0.04	0.05	0.19	1.46	0.27	0.29	0.09	0.14	0.04	0.08	
15	0.03	0.04	0.35	0.85	0.16	2.65	0.35	0.27	0.09	0.14	0.06	0.07	
16	0.03	0.07	0.07	0.55	0.18	2.65	0.33	0.27	0.10	0.13	0.06	0.06	
17	0.03	0.04	0.06	0.22	0.16	5.10	1.66	0.24	0.10	0.13	0.06	0.06	
18	0.04	0.04	0.06	0.18	0.15	3.14	1.66	0.22	0.10	0.12	0.05	0.06	
19	0.03	0.04	0.05	0.09	0.12	2.88	1.53	0.20	0.09	0.12	0.04	0.05	
20	0.03	0.04	0.18	0.07	0.13	1.72	0.76	0.19	0.09	0.12	0.06	0.04	
21	0.02	0.04	0.31	0.06	0.13	1.29	0.51	0.20	0.09	0.12	0.04	0.03	
22	0.02	0.03	0.68	0.06	0.10	1.01	0.40	0.18	0.08	0.07	0.04	0.03	
23	0.02	0.02	0.18	5.00	0.24	0.85	0.35	0.18	0.13	0.07	0.04	0.04	
24	0.01	0.04	0.09	1.46	0.81	0.81	0.35	0.20	4.80	0.07	0.04	0.04	
25	0.02	0.03	0.08	0.55	0.81	0.68	2.43	0.19	1.29	0.07	0.04	0.05	
26	0.10	0.03	0.07	0.46	1.79	0.51	0.85	0.19	0.46	0.07	0.04	0.04	
27	0.05	0.03	0.06	0.51	0.46	1.29	0.59	0.22	0.33	0.07	0.04	0.04	
28	0.04	0.03	0.06	0.38	0.38	1.07	0.42	0.22	0.29	0.07	0.04	0.04	
29	0.03	0.06	0.04	0.51	0.46	3.84	0.35	0.18	0.22	0.07		0.04	
30	0.03	0.03	0.04	0.68	0.31	0.96	0.35	0.16	0.20	0.08		0.04	
31		0.03		0.42	0.22		0.38		0.19	0.07		0.04	
Total	0.85	1.05	3.53	12.69	15.26	41.94	18.14	8.66	10.35	3.60	1.40	1.52	118.99 CMSDAY
Mean	0.03	0.03	0.12	0.41	0.49	1.40	0.59	0.29	0.33	0.12	0.05	0.05	0.33 CMS
Max	0.10	0.07	0.68	5.00	1.85	5.10	2.43	0.96	4.80	0.16	0.07	0.08	5.10 CMS
Min	0.01	0.02	0.03	0.03	0.10	0.18	0.22	0.16	0.08	0.07	0.03	0.03	0.01 CMS
Runoff	0.073	0.091	0.305	1.096	1.318	3.624	1.567	0.748	0.894	0.311	0.121	0.131	10.281 MCM

Momentary Peak 13.52 CMS, at 2.16 M (A.D), at 18.00 Hours, on Sep 13, 1992

Runoff Yield 3.84 Liters/Second/Square KM, Momentary Peak Yield 159.06 Liters/Second/Square KM

WATER YEAR 1992

CHAO PHRAYA RIVER BASIN

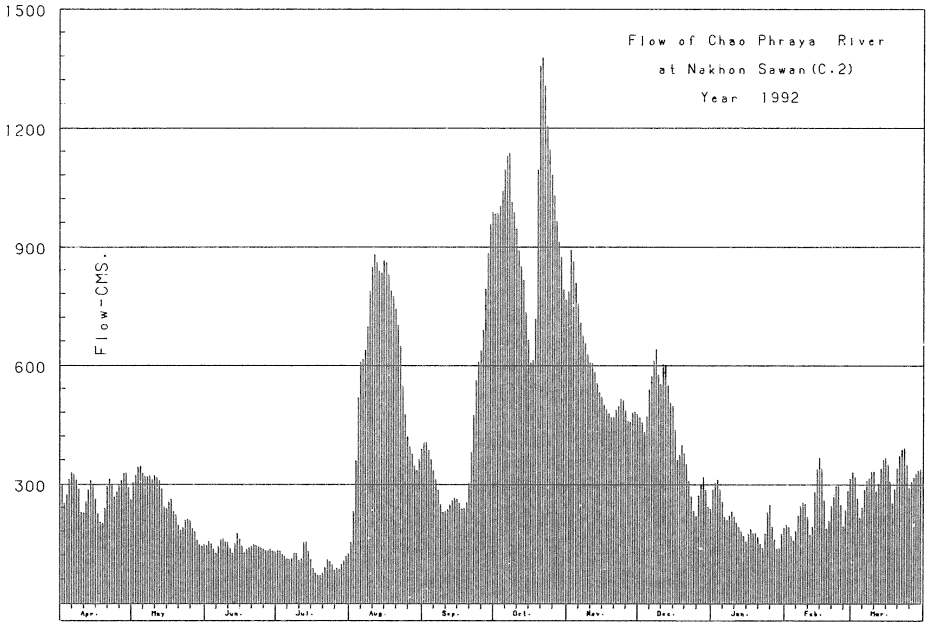
Chao Phraya River at Khai Chira Prawat, Nakhon Sawan (C.2)

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	+25.608 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1914 to date.
Rating Operation	
Period of Rating	1956 to date.
Rated by Float	-
Rated by Current Meter	1956 to date.
Stability of Channel Regimes	Fairly stable by some silting.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 121 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.59	18.61	17.62	17.50	17.68	19.17	21.23	20.92	19.57	18.52	18.00	18.76	
2	18.32	18.72	17.69	17.47	18.21	19.17	21.23	21.23	19.47	18.61	17.97	18.70	
3	18.45	18.83	17.65	17.40	18.92	19.07	21.29	21.15	19.27	18.66	17.81	18.39	
4	18.66	18.85	17.52	17.34	19.68	18.94	21.39	20.99	19.48	18.52	17.72	18.12	
5	18.76	18.75	17.43	17.28	20.02	18.79	21.53	20.83	19.76	18.35	17.90	18.26	
6	18.73	18.70	17.58	17.26	20.05	18.66	21.62	20.68	19.89	18.12	18.15	18.52	
7	18.66	18.70	17.74	17.29	20.13	18.52	21.64	20.56	20.03	18.08	18.28	18.64	
8	18.53	18.71	17.75	17.43	20.34	18.31	21.56	20.49	20.14	18.14	18.33	18.68	
9	18.19	18.66	17.70	17.41	20.63	18.20	21.49	20.38	19.90	18.21	18.32	18.77	
10	18.19	18.71	17.67	17.24	20.83	18.21	21.38	20.30	19.81	18.13	18.12	18.78	
11	18.34	18.68	17.54	17.29	20.93	18.24	21.23	20.29	20.00	18.03	17.84	18.51	
12	18.51	18.65	17.42	17.67	20.87	18.30	21.11	20.20	20.00	17.97	17.97	18.61	
13	18.65	18.53	17.65	17.70	20.80	18.37	21.01	20.07	19.80	17.89	18.49	18.81	
14	18.58	18.27	17.87	17.47	20.79	18.40	20.76	19.96	19.62	17.82	18.81	18.94	
15	18.39	18.25	17.75	17.26	20.88	18.39	20.52	19.89	19.59	17.69	18.97	18.96	
16	18.18	18.34	17.59	17.04	20.87	18.33	20.30	19.77	19.32	17.85	18.81	18.87	
17	18.04	18.38	17.44	16.92	20.77	18.25	20.32	19.69	18.94	17.94	18.36	18.63	
18	18.03	18.21	17.51	16.85	20.64	18.25	20.71	19.63	19.00	17.86	17.95	18.33	
19	18.25	18.15	17.56	16.86	20.59	18.34	21.76	19.56	19.14	17.88	18.06	18.52	
20	18.56	18.00	17.58	16.91	20.49	18.61	22.33	19.57	19.03	17.79	18.28	18.82	
21	18.67	17.91	17.64	17.07	20.35	19.04	22.37	19.68	18.87	17.65	18.42	18.99	
22	18.59	17.96	17.61	17.26	20.17	19.49	22.23	19.75	18.64	17.55	18.57	19.08	
23	18.41	18.07	17.59	17.23	19.79	19.85	22.01	19.86	18.43	17.86	18.59	19.09	
24	18.49	18.09	17.55	17.13	19.50	20.02	21.88	19.84	18.21	18.19	18.31	18.87	
25	18.57	18.06	17.53	17.01	19.24	20.13	21.73	19.67	18.14	18.31	17.99	18.54	
26	18.64	17.94	17.48	17.04	19.11	20.31	21.60	19.50	18.43	17.97	18.22	18.63	
27	18.75	17.90	17.49	17.03	19.02	20.65	21.43	19.49	18.58	17.75	18.51	18.69	
28	18.75	17.73	17.51	17.14	18.85	20.94	21.29	19.64	18.69	17.53	18.67	18.74	
29	18.55	17.62	17.48	17.24	18.79	21.15	21.18	19.65	18.51	17.54		18.79	
30	18.38	17.60	17.45	17.34	18.94	21.24	20.94	19.61	18.27	17.85		18.80	
31		17.63		17.41	19.08		20.86		18.24	17.96		18.68	
Mean	18.48	18.30	17.59	17.24	19.90	19.11	21.35	20.10	19.19	18.01	18.27	18.69	
Max	18.76	18.85	17.87	17.70	20.93	21.24	22.37	21.23	20.14	18.66	18.97	19.09	22.37
Min	18.03	17.60	17.42	16.85	17.68	18.20	20.30	19.49	18.14	17.53	17.72	18.12	16.85

Annual Max Momentary Gage Height 22.41 M (MSL), at 3.00 Hours, on Oct 21, 1992
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 14.66 M (MSL)
Left Bank Elevation 25.38 M (MSL)
Right Bank Elevation 26.24 M (MSL), Drainage Area 110569 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	300.2	303.8	147.3	134.8	154.2	407.1	984.0	785.7	470.5	287.6	198.0	330.8	
2	252.0	323.6	155.4	131.7	232.7	407.1	984.0	891.0	455.8	303.8	193.2	320.0	
3	275.0	343.4	150.7	124.6	359.6	387.6	1004.6	863.2	432.0	312.8	169.4	264.2	
4	312.8	347.0	136.8	118.5	520.2	363.2	1041.3	809.3	472.4	287.6	158.8	217.8	
5	330.8	329.0	127.7	112.4	608.5	336.2	1094.7	755.9	540.3	257.3	182.0	241.5	
6	325.4	320.0	143.0	110.3	616.7	312.8	1129.9	709.2	573.4	217.8	222.7	287.6	
7	312.8	320.0	161.1	113.4	638.7	287.6	1137.7	675.2	611.3	211.2	245.0	309.2	
8	289.4	321.8	162.3	127.7	699.0	250.2	1014.2	656.4	641.5	221.1	253.7	316.4	
9	229.3	312.8	156.5	125.6	786.4	231.0	986.3	628.0	576.0	232.7	252.0	332.6	
10	229.3	321.8	153.1	108.3	847.9	232.7	946.0	608.0	553.0	219.4	217.8	334.4	
11	255.5	316.4	138.9	113.4	881.2	238.0	891.0	605.6	603.0	203.0	173.6	285.8	
12	285.8	311.0	126.6	153.1	861.1	248.5	849.7	584.0	603.0	193.2	193.2	303.8	
13	311.0	289.4	150.7	156.5	838.0	260.8	816.0	554.7	550.5	180.6	282.2	339.8	
14	298.4	243.3	177.8	131.7	835.0	266.0	733.6	532.8	505.8	170.8	339.8	363.2	
15	264.2	239.7	162.3	110.3	864.4	264.2	664.4	520.4	498.6	155.4	368.6	366.8	
16	227.7	255.5	144.0	88.4	861.1	253.7	608.0	501.6	437.6	175.0	339.8	350.6	
17	204.6	262.5	128.7	77.2	828.9	239.7	613.0	489.1	363.2	188.4	259.0	307.4	
18	203.0	232.7	135.8	70.7	789.5	239.7	718.1	479.7	374.0	176.4	190.0	253.7	
19	239.7	222.7	140.9	71.6	774.3	255.5	1094.9	469.0	401.3	179.2	207.9	287.6	
20	294.8	198.0	143.0	76.3	744.0	303.8	1356.5	470.5	379.9	166.9	245.0	341.6	
21	314.6	183.6	149.6	91.2	702.0	381.8	1378.5	487.5	350.6	150.7	269.6	372.2	
22	300.2	191.6	146.2	110.3	649.7	474.7	1307.3	498.5	309.2	139.9	296.6	389.6	
23	267.8	209.5	144.0	107.3	548.0	563.3	1204.7	515.7	271.4	176.4	300.2	391.5	
24	282.2	212.8	139.9	97.1	477.0	608.5	1146.2	512.6	232.7	229.3	250.2	350.6	
25	296.6	207.9	137.9	85.6	421.2	638.7	1082.8	486.0	221.1	250.2	196.4	291.2	
26	309.2	188.4	132.8	88.4	395.5	690.0	1030.3	460.0	271.4	193.2	234.5	307.4	
27	329.0	182.0	133.8	87.5	377.9	792.5	964.3	458.6	298.4	162.3	285.8	318.2	
28	329.0	159.9	135.8	98.1	347.0	884.6	913.0	481.3	318.2	137.9	314.6	327.2	
29	293.0	147.3	132.8	108.3	336.2	956.5	873.3	482.8	285.8	138.9		336.2	
30	262.5	145.0	129.7	118.5	363.2	987.4	792.5	476.6	243.3	175.0		338.0	
31		148.4		125.6	389.6		765.8		238.0	191.6		316.4	
Total	8425.8	7790.8	4325.1	3374.4	18748.7	12763.4	30126.6	17448.9	13083.2	6285.6	6839.6	9893.3	139105.4 CMSDAY
Mean	280.9	251.3	144.2	108.9	604.8	425.4	971.8	581.6	422.0	202.8	244.3	319.1	381.1 CMS
Max	330.8	347.0	177.8	156.5	881.2	987.4	1378.5	891.0	641.5	312.8	368.6	391.5	1378.5 CMS
Min	203.0	145.0	126.6	70.7	154.2	231.0	608.0	458.6	221.1	137.9	158.8	217.8	70.7 CMS
Runoff	727.99	673.13	373.69	291.55	1619.89	1102.76	2602.94	1507.59	1130.39	543.08	590.94	854.78	12018.71 MCM

Momentary Peak 1400.67 CMS, at 22.41 M (MSL), at 3.00 Hours, on Oct 21, 1992

Runoff Yield 3.45 Liters/Second/Square KM, Momentary Peak Yield 12.67 Liters/Second/Square KM

WATER YEAR 1992

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Kaeo, Ang Thong (C.7A)

Location — Lat. 14-35-05 N., Long. 100-27-12 E., on left bank about 40 meters downstream from Ang Thong Bridge, Ban Bang Kaeo, Amphoe Muang, Ang Thong.

Drainage Area — Flood plain.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +0.00 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — About 21 meters from the top staff gage.

Elevation — +7.15 m.(M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1971 to date.

Rating Operation

Period of Rating — 1976-1979, 1984 to date

Rated by Float — -

Rated by Current Meter — 1976-1979, 1984 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 133 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

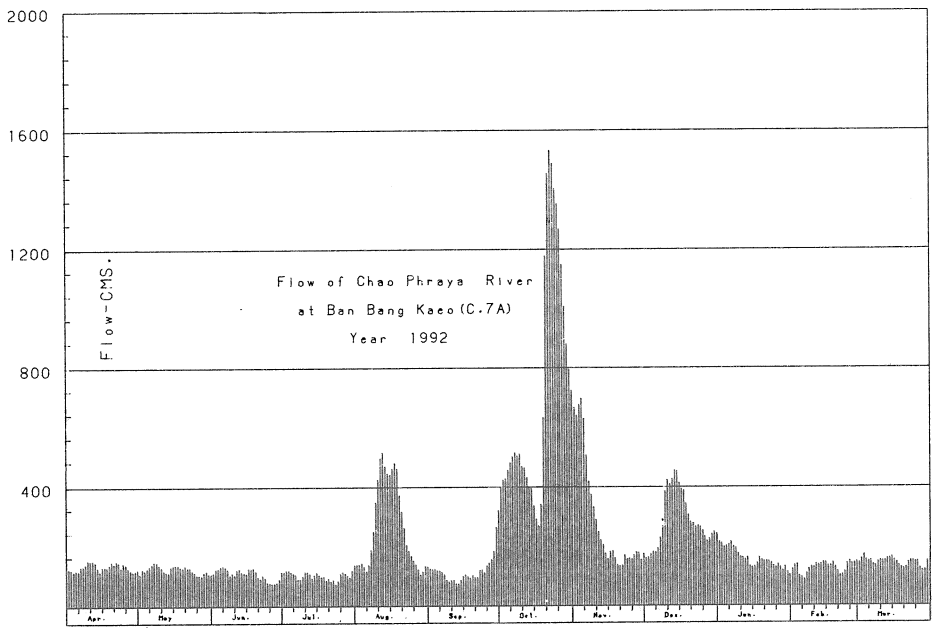
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.31	0.33	0.37	0.51	0.44	1.87	2.95	0.67	1.00	0.43	0.57	
2	0.41	0.43	0.43	0.39	0.52	0.41	1.99	2.86	0.67	0.96	0.50	0.64	
3	0.39	0.39	0.43	0.41	0.56	0.43	2.00	2.99	0.75	0.90	0.54	0.74	
4	0.39	0.45	0.49	0.36	0.47	0.39	2.13	3.06	0.79	0.91	0.26	0.62	
5	0.40	0.48	0.49	0.34	0.39	0.40	2.24	2.83	0.79	0.95	0.23	0.60	
6	0.48	0.54	0.48	0.30	0.52	0.35	2.32	2.34	0.86	0.99	0.19	0.61	
7	0.50	0.58	0.42	0.20	0.83	0.31	2.38	1.97	1.07	0.91	0.33	0.53	
8	0.53	0.58	0.30	0.17	1.18	0.15	2.33	1.77	1.37	0.87	0.42	0.49	
9	0.63	0.51	0.33	0.27	1.65	0.12	2.36	1.59	1.82	0.77	0.48	0.59	
10	0.60	0.47	0.31	0.38	1.99	0.14	2.18	1.37	1.98	0.70	0.48	0.62	
11	0.61	0.40	0.40	0.36	2.31	0.17	2.16	1.17	1.93	0.67	0.53	0.59	
12	0.59	0.35	0.44	0.33	2.38	0.05	2.02	1.02	2.00	0.64	0.52	0.62	
13	0.47	0.35	0.35	0.21	2.19	0.06	1.87	0.94	2.13	0.67	0.53	0.65	
14	0.37	0.47	0.35	0.29	2.08	0.15	1.86	0.76	2.11	0.50	0.58	0.67	
15	0.47	0.50	0.32	0.36	2.07	0.27	1.60	0.65	1.95	0.45	0.56	0.68	
16	0.49	0.51	0.44	0.29	2.15	0.29	1.38	0.79	1.85	0.47	0.49	0.61	
17	0.46	0.52	0.44	0.26	2.24	0.26	1.27	0.82	1.84	0.56	0.51	0.58	
18	0.53	0.47	0.44	0.25	2.15	0.21	1.62	0.66	1.63	0.67	0.56	0.49	
19	0.58	0.47	0.39	0.16	1.77	0.29	2.84	0.52	1.46	0.63	0.48	0.46	
20	0.55	0.49	0.24	0.20	1.50	0.22	4.56	0.48	1.33	0.59	0.37	0.42	
21	0.61	0.46	0.21	0.14	1.24	0.22	5.35	0.51	1.32	0.61	0.29	0.46	
22	0.57	0.45	0.28	0.16	0.94	0.41	5.57	0.72	1.25	0.59	0.29	0.56	
23	0.46	0.40	0.22	0.05	0.81	0.40	5.45	0.65	1.28	0.57	0.37	0.61	
24	0.55	0.35	0.09	0.13	0.72	0.35	5.21	0.65	1.25	0.49	0.54	0.63	
25	0.53	0.30	0.09	0.33	0.60	0.51	5.07	0.65	1.19	0.47	0.61	0.59	
26	0.44	0.28	0.05	0.36	0.52	0.55	4.82	0.72	1.08	0.53	0.54	0.58	
27	0.41	0.29	0.08	0.34	0.42	0.64	4.48	0.79	1.01	0.46	0.57	0.45	
28	0.36	0.34	0.08	0.27	0.31	0.80	4.07	0.77	1.04	0.39	0.58	0.38	
29	0.40	0.39	0.20	0.24	0.36	1.25	3.68	0.63	1.13	0.47		0.41	
30	0.41	0.31	0.36	0.39	0.49	1.52	3.40	0.75	1.16	0.35		0.59	
31		0.32		0.52	0.47		3.15		1.13	0.29		0.63	
Mean	0.49	0.42	0.32	0.28	1.17	0.39	3.01	1.28	1.35	0.65	0.46	0.57	
Max	0.63	0.58	0.49	0.52	2.38	1.52	5.57	3.06	2.13	1.00	0.61	0.74	5.57
Min	0.36	0.28	0.05	0.05	0.31	0.05	1.27	0.48	0.67	0.29	0.19	0.38	0.05

Annual Max Momentary Gage Height — 5.59 M (MSL), at 18.00 Hours, on Oct 22, 1992

Zero Gage at Bottom Elevation — 0.00 M (MSL), River Bed -7.67 M (MSL)

Left Bank Elevation — 7.83 M (MSL)

Right Bank Elevation — 7.45 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	127.7	106.5	109.5	115.5	136.9	126.1	396.2	665.5	161.4	217.0	124.6	146.1	
2	121.5	124.6	124.6	118.5	138.4	121.5	423.9	639.8	161.4	209.8	135.3	156.8	
3	118.5	118.5	124.6	121.5	144.5	124.6	426.2	677.1	174.3	199.0	141.5	172.6	
4	118.5	127.7	133.8	114.0	130.7	118.5	456.5	697.5	180.9	200.8	99.8	153.7	
5	120.0	132.3	133.8	111.0	118.5	120.0	482.1	631.4	180.9	208.0	95.9	150.7	
6	132.3	141.5	132.3	105.0	138.4	112.5	500.9	505.8	192.4	215.2	90.8	152.2	
7	135.3	147.6	123.1	92.0	187.5	106.5	515.6	419.3	230.3	200.8	109.5	139.9	
8	139.9	147.6	105.0	88.4	251.6	86.0	503.3	373.7	289.2	194.1	123.1	133.8	
9	155.3	136.9	109.5	101.1	347.0	82.4	510.7	334.0	385.0	177.6	132.3	149.1	
10	150.7	130.7	106.5	117.0	423.9	84.8	468.1	289.2	421.6	166.0	132.3	153.7	
11	152.2	120.0	120.0	114.0	498.5	88.4	463.5	249.6	410.0	161.4	139.9	149.1	
12	149.1	112.5	126.1	109.5	515.6	74.5	430.9	220.8	426.2	156.8	138.4	153.7	
13	130.7	112.5	112.5	93.3	470.4	75.6	396.2	206.2	456.5	161.4	139.9	158.3	
14	115.5	130.7	112.5	103.7	444.8	86.0	394.0	175.9	451.8	135.3	147.6	161.4	
15	130.7	135.3	108.0	114.0	442.5	101.1	336.0	158.3	414.6	127.7	144.5	162.9	
16	133.8	136.9	126.1	103.7	461.1	103.7	291.3	180.9	391.7	130.7	133.8	152.2	
17	129.2	138.4	126.1	99.8	482.1	99.8	269.1	185.8	389.5	144.5	136.9	147.6	
18	139.9	130.7	126.1	98.5	461.1	93.3	340.4	159.9	342.6	161.4	144.5	133.8	
19	147.6	130.7	118.5	87.2	373.7	103.7	634.2	138.4	307.5	155.3	132.3	129.2	
20	143.0	133.8	97.2	92.0	315.7	94.6	1176.3	132.3	281.1	149.1	115.5	123.1	
21	152.2	129.2	93.3	84.8	263.3	94.6	1454.2	136.9	279.1	152.2	103.7	129.2	
22	146.1	127.7	102.4	87.2	206.2	121.5	1534.1	169.3	265.2	149.1	103.7	144.5	
23	129.2	120.0	94.6	74.5	184.2	120.0	1490.5	158.3	271.1	146.1	115.5	152.2	
24	143.0	112.5	78.9	83.6	169.3	112.5	1404.4	158.3	265.2	133.8	141.5	155.3	
25	139.9	105.0	78.9	109.5	150.7	136.9	1355.2	158.3	253.6	130.7	152.2	149.1	
26	126.1	102.4	74.5	114.0	138.4	143.0	1267.3	169.3	232.2	139.9	141.5	147.6	
27	121.5	103.7	77.8	111.0	123.1	156.8	1149.0	180.9	218.9	129.2	146.1	127.7	
28	114.0	111.0	77.8	101.1	106.5	182.5	1008.9	177.6	224.6	118.5	147.6	117.0	
29	120.0	118.5	92.0	97.2	114.0	265.2	879.8	155.3	241.8	130.7		121.5	
30	121.5	106.5	114.0	118.5	133.8	319.7	796.7	174.3	247.7	112.5		149.1	
31		108.0		138.4	130.7		723.8		241.8	103.7		155.3	
Total	4004.9	3839.9	3260.0	3219.5	8203.1	3656.3	22479.3	8679.9	8990.1	4918.3	3610.2	4528.4	79389.9 CMSDAY
Mean	133.5	123.9	108.7	103.9	264.6	121.9	725.1	289.3	290.0	158.7	128.9	146.1	217.5 CMS
Max	155.3	147.6	133.8	138.4	515.6	319.7	1534.1	697.5	456.5	217.0	152.2	172.6	1534.1 CMS
Min	114.0	102.4	74.5	74.5	106.5	74.5	269.1	132.3	161.4	103.7	90.8	117.0	74.5 CMS
Runoff	346.02	331.77	281.66	278.16	708.75	315.90	1942.21	749.94	776.74	424.94	311.92	391.25	6859.29 MCM

Momentary Peak 1541.37 CMS, at 5.59 M (MSL), at 18.00 Hours, on Oct 22, 1992

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

WATER YEAR 1992

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 — Staff gage.

Zero Gage at Bottom — +0.00 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank about 5 meters from the top staff gage.

Elevation — +18.946 m.(M.S.L.)

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

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

Period of Available Gage Records — 1947 to date.

Rating Operation

Period of Rating — 1953-1962, 1965-1968, 1972, 1975-1976, 1980 to date.

Rated by Float — -

Rated by Current Meter — 1953-1962, 1965-1968, 1972, 1975-1976, 1980 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Flow regulated by Chao Phraya Diversion Dam above gage site which diverted for irrigation about 979,000 hectares. Stage-discharge relation defined by 122 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

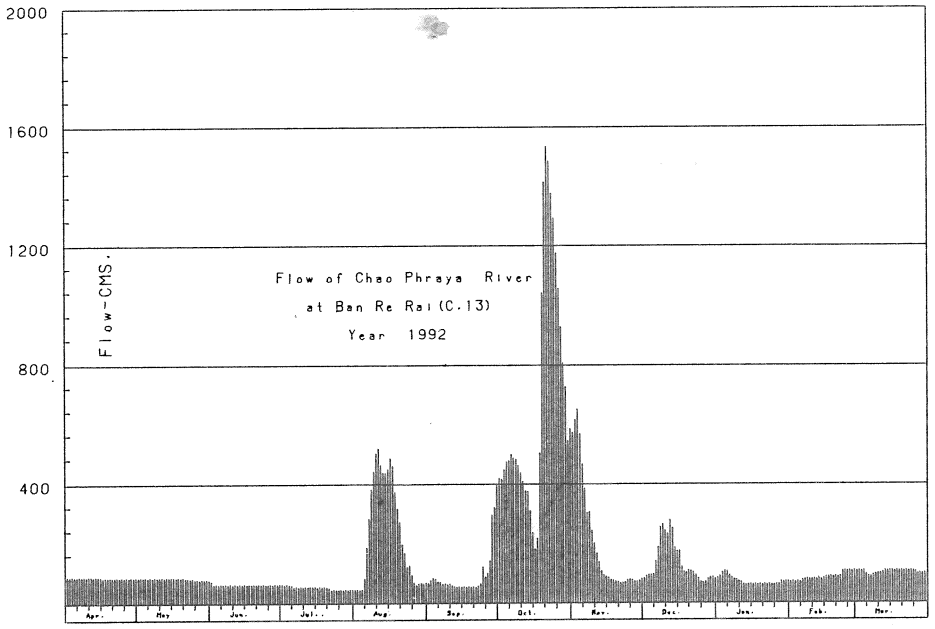
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.30	6.25	6.06	5.93	5.68	6.00	8.85	9.55	6.23	6.23	6.06	6.53	
2	6.30	6.25	5.94	5.93	5.68	6.11	8.84	9.73	6.31	6.33	6.06	6.53	
3	6.30	6.25	5.93	5.93	5.68	6.24	9.00	9.86	6.38	6.46	6.06	6.53	
4	6.30	6.25	5.93	5.93	5.69	6.17	9.12	9.54	6.36	6.54	6.06	6.53	
5	6.30	6.25	5.93	5.88	6.21	6.08	9.15	9.09	6.41	6.50	6.06	6.42	
6	6.30	6.25	5.93	5.82	7.36	6.03	9.25	8.66	6.91	6.37	6.12	6.30	
7	6.30	6.25	5.93	5.82	8.07	5.97	9.18	8.18	7.39	6.25	6.18	6.30	
8	6.30	6.25	5.93	5.82	8.64	5.95	9.17	8.21	7.90	6.18	6.18	6.35	
9	6.30	6.25	5.95	5.82	8.97	5.95	9.06	7.83	7.95	6.14	6.18	6.41	
10	6.30	6.25	5.93	5.82	9.26	5.95	8.94	7.50	7.84	6.09	6.18	6.42	
11	6.30	6.25	5.93	5.82	9.34	5.90	8.79	7.18	7.75	6.03	6.18	6.42	
12	6.30	6.25	5.93	5.82	9.07	5.82	8.62	6.88	8.05	5.94	6.18	6.48	
13	6.30	6.25	5.93	5.82	8.95	5.82	8.60	6.54	7.89	5.89	6.18	6.53	
14	6.30	6.25	5.93	5.83	8.94	5.82	8.23	6.34	7.35	5.93	6.18	6.53	
15	6.27	6.25	5.93	5.82	9.00	5.82	7.78	6.31	7.24	5.93	6.21	6.53	
16	6.25	6.25	5.93	5.81	9.19	5.82	7.32	6.25	7.27	5.93	6.27	6.53	
17	6.25	6.25	5.93	5.82	9.06	5.82	7.64	6.16	6.70	5.93	6.30	6.53	
18	6.25	6.25	5.93	5.82	8.59	5.82	9.27	6.11	6.48	5.93	6.30	6.53	
19	6.25	6.25	5.93	5.82	8.27	5.82	11.23	6.08	6.48	5.93	6.30	6.53	
20	6.25	6.25	5.93	5.82	8.00	5.82	12.32	6.04	6.54	5.92	6.30	6.53	
21	6.25	6.23	5.93	5.76	7.48	5.82	12.65	6.01	6.54	5.93	6.30	6.53	
22	6.25	6.20	5.93	5.68	7.18	5.85	12.52	6.00	6.47	5.93	6.30	6.53	
23	6.25	6.20	5.93	5.68	6.67	5.98	12.22	6.05	6.37	5.93	6.54	6.53	
24	6.25	6.20	5.93	5.68	6.76	6.69	11.98	6.13	6.21	5.93	6.53	6.53	
25	6.25	6.17	5.93	5.68	6.37	6.30	11.64	6.18	6.07	5.93	6.53	6.53	
26	6.25	6.15	5.93	5.68	6.00	6.43	11.28	6.14	6.01	5.93	6.53	6.48	
27	6.25	6.15	5.93	5.68	5.90	6.95	10.86	6.09	6.06	5.96	6.53	6.42	
28	6.25	6.15	5.93	5.68	5.95	8.13	10.45	6.05	6.18	6.05	6.53	6.42	
29	6.25	6.15	5.93	5.68	6.00	8.29	10.17	6.13	6.27	6.06		6.42	
30	6.25	6.15	5.93	5.68	6.00	8.73	9.44	6.18	6.26	6.06		6.42	
31		6.15		5.68	6.00		9.60		6.20	6.06		6.42	
Mean	6.27	6.22	5.94	5.79	7.42	6.26	9.78	7.10	6.78	6.07	6.26	6.47	
Max	6.30	6.25	6.06	5.93	9.34	8.73	12.65	9.86	8.05	6.54	6.54	6.53	12.65
Min	6.25	6.15	5.93	5.68	5.68	5.82	7.32	6.00	6.01	5.89	6.06	6.30	5.68

Annual Max Momentary Gage Height — 12.72 M (MSL), at 24.00 Hours, on Oct 21, 1992

Zero Gage at Bottom Elevation — 0.00 M (MSL), River Bed — 1.65 M (MSL)

Left Bank Elevation — 17.01 M (MSL)

Right Bank Elevation — 16.31 M (MSL), Drainage Area — 120693 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	90.0	86.4	72.8	63.5	46.0	68.5	420.0	572.7	85.0	85.0	72.8	109.2	
2	90.0	86.4	64.2	63.5	46.0	76.4	418.0	617.7	90.8	92.5	72.8	109.2	
3	90.0	86.4	63.5	63.5	46.0	85.7	450.5	650.4	96.7	103.3	72.8	109.2	
4	90.0	86.4	63.5	63.5	46.5	80.7	475.1	570.3	95.0	110.0	72.8	109.2	
5	90.0	86.4	63.5	59.9	83.5	74.2	481.2	469.0	99.2	106.7	72.8	100.0	
6	90.0	86.4	63.5	55.6	187.3	70.7	501.7	386.0	141.0	95.8	77.1	90.0	
7	90.0	86.4	63.5	55.6	285.0	66.3	487.4	303.8	190.4	86.4	81.4	90.0	
8	90.0	86.4	63.5	55.6	382.6	64.9	485.3	309.0	256.0	81.4	81.4	94.2	
9	90.0	86.4	64.9	55.6	444.4	64.9	462.8	245.5	264.5	78.5	81.4	99.2	
10	90.0	86.4	63.5	55.6	503.8	64.9	438.2	201.7	247.0	75.0	81.4	100.0	
11	90.0	86.4	63.5	55.6	521.6	61.3	408.3	168.8	233.5	70.7	81.4	100.0	
12	90.0	86.4	63.5	55.6	464.8	55.6	379.2	138.3	281.6	64.2	81.4	105.0	
13	90.0	86.4	63.5	55.6	440.3	55.6	375.8	110.0	254.5	60.6	81.4	109.2	
14	90.0	86.4	63.5	56.3	438.2	55.6	312.4	93.3	186.3	63.5	81.4	109.2	
15	87.8	86.4	63.5	55.6	450.5	55.6	238.0	90.8	175.0	63.5	83.5	109.2	
16	86.4	86.4	63.5	54.9	489.4	55.6	183.2	86.4	178.1	63.5	87.8	109.2	
17	86.4	86.4	63.5	55.6	462.8	55.6	217.6	80.0	123.3	63.5	90.0	109.2	
18	86.4	86.4	63.5	55.6	374.0	55.6	505.9	76.4	105.0	63.5	90.0	109.2	
19	86.4	86.4	63.5	55.6	319.2	55.6	1041.9	74.2	105.0	63.5	90.0	109.2	
20	86.4	86.4	63.5	55.6	273.0	55.6	1414.4	71.4	110.0	62.8	90.0	109.2	
21	86.4	85.0	63.5	51.3	199.7	55.6	1533.9	69.2	110.0	63.5	90.0	109.2	
22	86.4	82.8	63.5	46.0	168.8	57.7	1486.8	68.5	104.2	63.5	90.0	109.2	
23	86.4	82.8	63.5	46.0	120.8	67.1	1378.2	72.1	95.8	63.5	110.0	109.2	
24	86.4	82.8	63.5	46.0	128.3	122.5	1293.1	77.8	83.5	63.5	109.2	109.2	
25	86.4	80.7	63.5	46.0	95.8	90.0	1177.9	81.4	73.5	63.5	109.2	109.2	
26	86.4	79.3	63.5	46.0	68.5	100.8	1058.4	78.5	69.2	63.5	109.2	105.0	
27	86.4	79.3	63.5	46.0	61.3	145.1	929.0	75.0	72.8	65.6	109.2	100.0	
28	86.4	79.3	63.5	46.0	64.9	295.3	805.7	72.1	81.4	72.1	109.2	100.0	
29	86.4	79.3	63.5	46.0	68.5	322.7	728.5	77.8	87.8	72.8		100.0	
30	86.4	79.3	63.5	46.0	68.5	398.0	545.8	81.4	87.1	72.8		100.0	
31		79.3		46.0	68.5		585.0		82.8	72.8		100.0	
Total	2643.8	2617.9	1916.4	1659.2	7418.5	2933.7	21219.2	6069.5	4266.0	2291.0	2459.6	3239.8	58734.6 CMSDAY
Mean	88.1	84.4	63.9	53.5	239.3	97.8	684.5	202.3	137.6	73.9	87.8	104.5	160.9 CMS
Max	90.0	86.4	72.8	63.5	521.6	398.0	1533.9	650.4	281.6	110.0	110.0	109.2	1533.9 CMS
Min	86.4	79.3	63.5	46.0	46.0	55.6	183.2	68.5	69.2	60.6	72.8	90.0	46.0 CMS
Runoff	228.42	226.19	165.58	143.35	640.96	253.47	1833.34	524.40	368.58	197.94	212.51	279.92	5074.67 MCM

Momentary Peak 1559.44 CMS, at 12.72 M (MSL), at 24.00 Hours, on Oct 21, 1992

Runoff Yield 1.33 Liters/Second/Square KM, Momentary Peak Yield 12.92 Liters/Second/Square KM

WATER YEAR 1992

CHAO PHRAYA RIVER BASIN

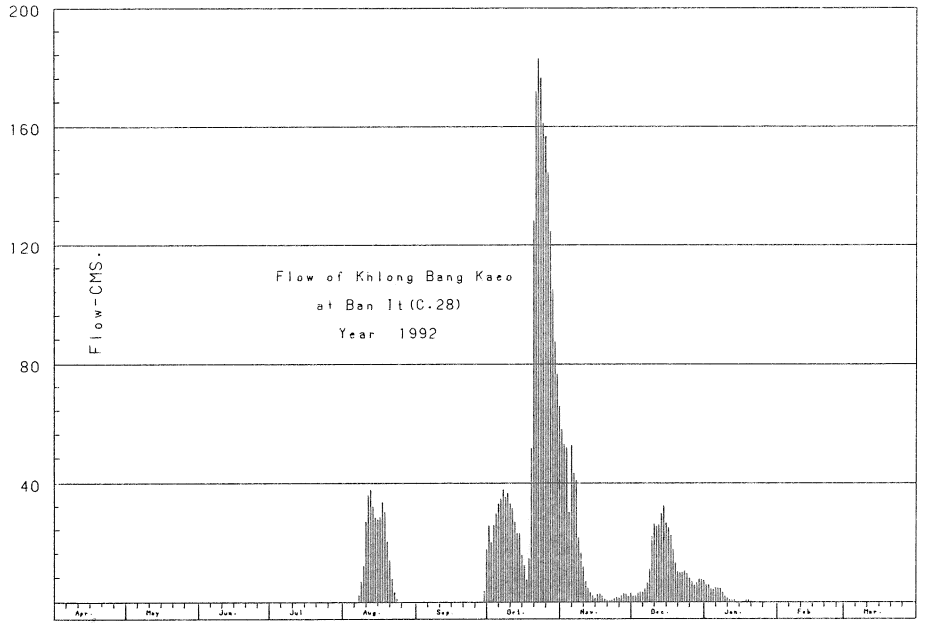
Khlong Bang Kaeo at Ban It, Ang Thong (C.28)

Location	Lat. 14-35-32 N., Long. 100-28-23- E., on right bank at the bridge on Asia Highway, Ban It, Amphoe Muang, Ang Thong.
Drainage Area	Flood plain.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(M.S.L.)
Bench Mark	B.M.-Highways department.
Location	On right bank at the abutment of the bridge.
Elevation	+12.300 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1969-1979, 1985 to date.
Rating Operation	
Period of Rating	1976,1978, 1985 - 1986, 1990 to date.
Rated by Float	-
Rated by Current Meter	1976,1978, 1985 - 1986, 1990 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 9 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.44	0.39	0.39	0.47	0.37	0.45	1.96	2.96	0.85	1.12	0.41	0.56	
2	0.42	0.46	0.40	0.45	0.45	0.44	1.76	2.82	0.84	1.13	0.48	0.62	
3	0.51	0.44	0.47	0.44	0.46	0.48	1.97	2.79	0.93	1.03	0.52	0.72	
4	0.51	0.52	0.51	0.39	0.43	0.35	2.10	2.12	0.95	1.03	0.47	0.63	
5	0.46	0.55	0.51	0.34	0.48	0.47	2.22	2.82	0.96	1.06	0.40	0.58	
6	0.50	0.53	0.50	0.37	0.57	0.34	2.27	2.55	1.03	1.06	0.33	0.59	
7	0.59	0.61	0.49	0.24	0.88	0.28	2.38	2.48	1.17	1.04	0.33	0.47	
8	0.62	0.56	0.31	0.22	1.19	0.16	2.29	1.81	1.40	0.96	0.35	0.46	
9	0.56	0.49	0.39	0.32	1.45	0.15	2.34	1.62	1.84	0.88	0.38	0.55	
10	0.54	0.41	0.42	0.40	2.01	0.18	2.22	1.43	1.98	0.80	0.40	0.58	
11	0.52	0.38	0.34	0.40	2.31	0.17	2.16	1.20	1.96	0.72	0.47	0.60	
12	0.47	0.41	0.49	0.37	2.38	0.05	2.01	1.05	1.97	0.72	0.52	0.59	
13	0.49	0.40	0.38	0.40	2.18	0.09	1.87	0.95	2.11	0.73	0.51	0.61	
14	0.44	0.31	0.37	0.44	2.06	0.29	1.87	0.85	2.19	0.53	0.59	0.69	
15	0.51	0.50	0.31	0.32	2.04	0.22	1.59	0.79	2.00	0.55	0.57	0.66	
16	0.49	0.54	0.47	0.31	2.06	0.23	1.45	0.89	1.94	0.59	0.52	0.60	
17	0.53	0.57	0.48	0.30	2.24	0.24	1.23	0.91	1.85	0.66	0.56	0.62	
18	0.51	0.49	0.47	0.32	2.12	0.19	1.54	0.84	1.66	0.77	0.52	0.51	
19	0.47	0.52	0.35	0.23	1.77	0.24	2.79	0.76	1.49	0.73	0.50	0.46	
20	0.52	0.51	0.28	0.25	1.52	0.26	4.56	0.73	1.36	0.70	0.32	0.40	
21	0.58	0.49	0.23	0.18	1.25	0.26	5.40	0.68	1.35	0.64	0.23	0.40	
22	0.59	0.51	0.33	0.21	0.97	0.34	5.61	0.71	1.35	0.61	0.29	0.43	
23	0.52	0.47	0.28	0.14	0.78	0.33	5.49	0.78	1.38	0.52	0.29	0.57	
24	0.53	0.39	0.18	0.16	0.66	0.29	5.20	0.80	1.33	0.46	0.47	0.56	
25	0.57	0.35	0.12	0.37	0.59	0.45	5.12	0.80	1.26	0.44	0.53	0.59	
26	0.45	0.33	0.13	0.43	0.60	0.46	4.88	0.85	1.19	0.47	0.46	0.59	
27	0.46	0.33	0.14	0.41	0.52	0.62	4.49	0.92	1.12	0.43	0.55	0.54	
28	0.38	0.41	0.25	0.34	0.40	0.63	4.08	0.89	1.16	0.38	0.58	0.44	
29	0.39	0.41	0.31	0.32	0.47	0.99	3.70	0.84	1.24	0.43		0.53	
30	0.45	0.39	0.44	0.46	0.49	1.66	3.43	0.92	1.23	0.32		0.64	
31		0.34		0.57	0.50		3.17		1.22	0.28		0.59	
Mean	0.50	0.45	0.36	0.34	1.17	0.38	3.00	1.35	1.43	0.70	0.45	0.56	
Max	0.62	0.61	0.51	0.57	2.38	1.66	5.61	2.96	2.19	1.13	0.59	0.72	5.61
Min	0.38	0.31	0.12	0.14	0.37	0.05	1.23	0.68	0.84	0.28	0.23	0.40	0.05

Annual Max Momentary Gage Height 5.67 M (MSL), at 18.00 Hours, on Oct 22, 1992
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed -0.67 M (MSL)
Left Bank Elevation 6.08 M (MSL)
Right Bank Elevation 7.17 M (MSL), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.00	25.65	57.93	2.10	5.72	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	20.26	52.85	1.98	5.88	0.00	0.10	
3	0.00	0.00	0.00	0.00	0.00	0.00	25.94	51.76	3.06	4.35	0.00	0.70	
4	0.00	0.00	0.00	0.00	0.00	0.00	29.74	30.32	3.30	4.35	0.00	0.15	
5	0.00	0.00	0.00	0.00	0.00	0.00	33.24	52.85	3.42	4.80	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	34.70	43.35	4.35	4.80	0.00	0.00	
7	0.00	0.05	0.00	0.00	2.46	0.00	37.92	41.06	6.52	4.50	0.00	0.00	
8	0.10	0.00	0.00	0.00	6.84	0.00	35.29	21.56	11.00	3.42	0.00	0.00	
9	0.00	0.00	0.00	0.00	12.25	0.00	36.75	16.62	22.34	2.46	0.00	0.00	
10	0.00	0.00	0.00	0.00	27.11	0.00	33.24	11.75	26.24	1.50	0.00	0.00	
11	0.00	0.00	0.00	0.00	35.87	0.00	31.49	7.00	25.65	0.70	0.00	0.00	
12	0.00	0.00	0.00	0.00	37.92	0.00	27.11	4.65	25.94	0.70	0.00	0.00	
13	0.00	0.00	0.00	0.00	32.08	0.00	23.12	3.30	30.03	0.80	0.00	0.05	
14	0.00	0.00	0.00	0.00	28.57	0.00	23.12	2.10	32.37	0.00	0.00	0.45	
15	0.00	0.00	0.00	0.00	27.99	0.00	15.84	1.40	26.82	0.00	0.00	0.30	
16	0.00	0.00	0.00	0.00	28.57	0.00	12.25	2.58	25.07	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	33.83	0.00	7.57	2.82	22.60	0.30	0.00	0.10	
18	0.00	0.00	0.00	0.00	30.32	0.00	14.54	1.98	17.66	1.20	0.00	0.00	
19	0.00	0.00	0.00	0.00	20.52	0.00	51.76	1.10	13.25	0.80	0.00	0.00	
20	0.00	0.00	0.00	0.00	14.02	0.00	128.12	0.80	10.16	0.50	0.00	0.00	
21	0.00	0.00	0.00	0.00	7.95	0.00	171.67	0.40	9.95	0.20	0.00	0.00	
22	0.00	0.00	0.00	0.00	3.54	0.00	182.98	0.60	9.95	0.05	0.00	0.00	
23	0.00	0.00	0.00	0.00	1.30	0.00	176.47	1.30	10.58	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.30	0.00	161.00	1.50	9.53	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.00	156.80	1.50	8.14	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.00	144.32	2.10	6.84	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.10	124.65	2.94	5.72	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.15	104.86	2.58	6.36	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	3.78	87.50	1.98	7.76	0.00		0.00	
30	0.00	0.00	0.00	0.00	0.00	17.66	76.48	2.94	7.57	0.00		0.20	
31		0.00		0.00	0.00		65.86		7.38	0.00		0.00	
Total	0.10	0.05	0.00	0.00	351.44	21.69	2100.24	425.62	403.64	47.03	0.00	2.05	3351.86 CMSDAY
Mean	0.00	0.00	0.00	0.00	11.34	0.72	67.75	14.19	13.02	1.52	0.00	0.07	9.18 CMS
Max	0.10	0.05	0.00	0.00	37.92	17.66	182.98	57.93	32.37	5.88	0.00	0.70	182.98 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	7.57	0.40	1.98	0.00	0.00	0.00	0.00 CMS
Runoff	0.009	0.004	0.000	0.000	30.364	1.874	181.461	36.774	34.875	4.063	0.000	0.177	289.601 MCM

Momentary Peak 186.24 CMS, at 5.67 M (MSL), at 18.00 Hours, on Oct 22, 1992

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

WATER YEAR 1992

CHAO PHRAYA RIVER BASIN

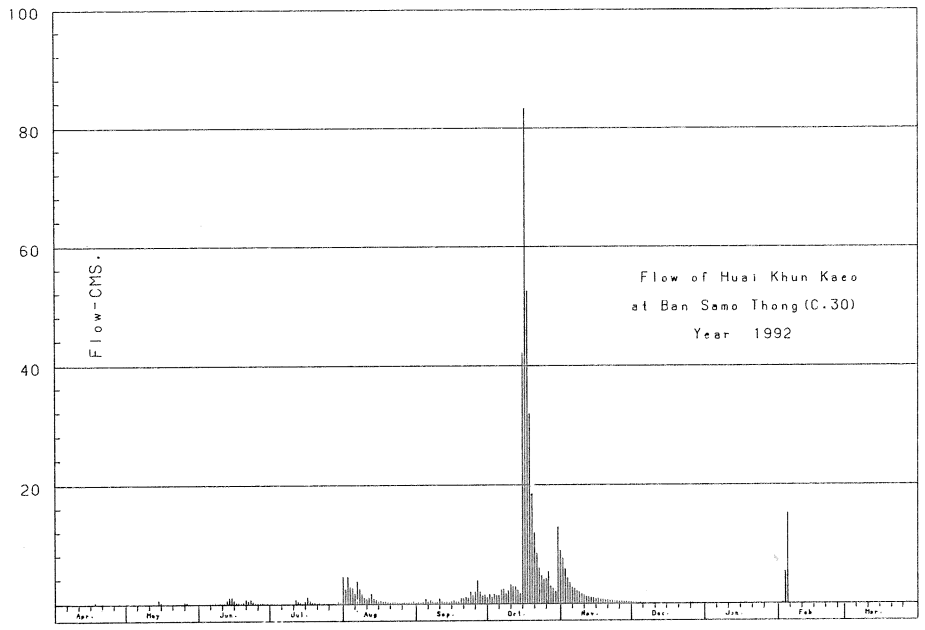
Huai Khun Kaeo at Ban Samo Thong, Uthai Thani (C.30)

Location	Lat. 15-21-04 N., Long. 99-32-22 E., on right bank infront of the Wat Samo Thong School, Ban Samo Thong, Tambon Khok Khwai, Amphoe Ban Rai, Uthai Thani.
Drainage Area	219 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 60 meters from the top staff gage.
Elevation	+11.75 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1982 to date.
Rating Operation	
Period of Rating	1983 to date.
Rated by Float	-
Rated by Current Meter	1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 78 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.59	0.56	0.57	0.64	1.32	0.74	1.16	1.85	0.74	0.58	0.47	0.38	
2	0.59	0.56	0.57	0.63	1.60	0.72	1.02	1.70	0.73	0.58	0.70	0.45	
3	0.59	0.56	0.57	0.63	1.37	0.72	1.16	1.57	0.72	0.57	1.66	0.59	
4	0.59	0.56	0.57	0.62	1.34	0.96	1.09	1.47	0.71	0.57	2.25	0.48	
5	0.59	0.56	0.60	0.60	1.17	0.78	1.12	1.37	0.71	0.56	0.51	0.44	
6	0.59	0.56	0.68	0.59	1.51	0.90	1.30	1.32	0.71	0.56	0.47	0.43	
7	0.59	0.56	0.77	0.58	1.33	0.79	1.30	1.26	0.70	0.55	0.46	0.42	
8	0.59	0.56	0.63	0.58	1.15	0.77	1.17	1.21	0.69	0.55	0.45	0.41	
9	0.59	0.56	0.66	0.57	1.03	0.75	1.25	1.17	0.68	0.55	0.45	0.40	
10	0.59	0.56	0.66	0.57	0.93	0.98	1.44	1.12	0.67	0.54	0.44	0.47	
11	0.59	0.56	0.64	0.94	1.01	0.80	1.37	1.08	0.67	0.54	0.43	0.50	
12	0.59	0.56	0.90	0.80	1.18	0.78	1.39	1.03	0.66	0.53	0.43	0.44	
13	0.59	0.59	1.01	0.71	0.98	0.76	1.27	1.02	0.65	0.53	0.43	0.43	
14	0.59	0.91	1.04	0.67	0.94	0.75	1.18	0.99	0.65	0.52	0.42	0.43	
15	0.59	0.71	0.88	0.82	0.88	0.78	3.14	0.96	0.64	0.52	0.42	0.42	
16	0.59	0.76	0.76	1.07	0.85	0.90	4.04	0.95	0.64	0.52	0.42	0.41	
17	0.79	0.62	0.71	0.85	0.83	0.78	3.40	0.93	0.63	0.52	0.41	0.40	
18	0.64	0.59	0.71	0.76	0.81	0.77	2.85	0.91	0.62	0.52	0.41	0.40	
19	0.60	0.58	0.72	0.72	0.79	1.00	2.39	0.89	0.61	0.51	0.41	0.39	
20	0.59	0.56	0.95	0.69	0.78	0.96	2.10	0.88	0.61	0.51	0.40	0.39	
21	0.57	0.55	0.84	0.67	0.75	1.01	1.90	0.87	0.61	0.51	0.40	0.38	
22	0.57	0.55	0.95	0.66	0.74	1.00	1.72	0.85	0.60	0.51	0.40	0.38	
23	0.56	0.55	0.80	0.68	0.72	1.24	1.61	0.83	0.59	0.51	0.39	0.38	
24	0.56	0.55	0.74	0.68	0.72	1.10	1.53	0.83	0.63	0.51	0.39	0.42	
25	0.56	0.80	0.72	0.65	0.71	1.24	1.56	0.81	0.70	0.51	0.39	0.41	
26	0.56	0.71	0.70	0.65	0.69	1.52	1.66	0.80	0.65	0.50	0.39	0.39	
27	0.56	0.65	0.69	0.65	0.73	1.21	1.41	0.79	0.63	0.50	0.38	0.38	
28	0.56	0.61	0.68	0.65	0.70	1.10	1.32	0.77	0.61	0.50	0.38	0.36	
29	0.56	0.61	0.66	0.82	0.77	1.12	1.25	0.77	0.60	0.49		0.35	
30	0.56	0.59	0.65	0.73	0.80	1.02	2.15	0.75	0.60	0.48		0.35	
31		0.58		1.59	0.78		1.93		0.59	0.47		0.34	
Mean	0.59	0.61	0.73	0.72	0.96	0.93	1.72	1.06	0.65	0.53	0.54	0.41	
Max	0.79	0.91	1.04	1.59	1.60	1.52	4.04	1.85	0.74	0.58	2.25	0.59	4.04
Min	0.56	0.55	0.57	0.57	0.69	0.72	1.02	0.75	0.59	0.47	0.38	0.34	0.34

Annual Max Momentary Gage Height 4.23 M (A.D), at 7.00 Hours, on Oct 16, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.42 M (A.D)
Left Bank Elevation 6.72 M (A.D)
Right Bank Elevation 7.28 M (A.D), Drainage Area 219 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.06	0.07	0.16	2.56	0.31	1.70	7.75	0.31	0.08	0.00	0.00	
2	0.09	0.06	0.07	0.14	4.70	0.28	1.12	5.85	0.30	0.08	0.25	0.00	
3	0.09	0.06	0.07	0.14	2.84	0.28	1.70	4.43	0.28	0.07	5.39	0.09	
4	0.09	0.06	0.07	0.13	2.67	0.91	1.37	3.56	0.26	0.07	15.35	0.00	
5	0.09	0.06	0.10	0.10	1.75	0.37	1.50	2.84	0.26	0.06	0.01	0.00	
6	0.09	0.06	0.22	0.09	3.89	0.70	2.45	2.56	0.26	0.06	0.00	0.00	
7	0.09	0.06	0.35	0.08	2.62	0.39	2.45	2.23	0.25	0.05	0.00	0.00	
8	0.09	0.06	0.14	0.08	1.65	0.35	1.75	1.95	0.23	0.05	0.00	0.00	
9	0.09	0.06	0.19	0.07	1.15	0.33	2.17	1.75	0.22	0.05	0.00	0.00	
10	0.09	0.06	0.19	0.07	0.81	0.98	3.32	1.50	0.21	0.04	0.00	0.00	
11	0.09	0.06	0.16	0.84	1.08	0.40	2.84	1.33	0.21	0.04	0.00	0.00	
12	0.09	0.06	0.70	0.40	1.80	0.37	2.95	1.15	0.19	0.03	0.00	0.00	
13	0.09	0.09	1.08	0.26	0.98	0.34	2.28	1.12	0.17	0.03	0.00	0.00	
14	0.09	0.74	1.19	0.21	0.84	0.33	1.80	1.01	0.17	0.02	0.00	0.00	
15	0.09	0.26	0.64	0.46	0.64	0.37	42.16	0.91	0.16	0.02	0.00	0.00	
16	0.09	0.34	0.34	1.30	0.55	0.70	83.35	0.88	0.16	0.02	0.00	0.00	
17	0.39	0.13	0.26	0.55	0.49	0.37	52.60	0.81	0.14	0.02	0.00	0.00	
18	0.16	0.09	0.26	0.34	0.43	0.35	31.95	0.74	0.13	0.02	0.00	0.00	
19	0.10	0.08	0.28	0.28	0.39	1.05	18.66	0.67	0.11	0.01	0.00	0.00	
20	0.09	0.06	0.88	0.23	0.37	0.91	12.00	0.64	0.11	0.01	0.00	0.00	
21	0.07	0.05	0.52	0.21	0.33	1.08	8.50	0.61	0.11	0.01	0.00	0.00	
22	0.07	0.05	0.88	0.19	0.31	1.05	6.08	0.55	0.10	0.01	0.00	0.00	
23	0.06	0.05	0.40	0.22	0.28	2.12	4.81	0.49	0.09	0.01	0.00	0.00	
24	0.06	0.05	0.31	0.22	0.28	1.40	4.07	0.49	0.14	0.01	0.00	0.00	
25	0.06	0.40	0.28	0.17	0.26	2.12	4.34	0.43	0.25	0.01	0.00	0.00	
26	0.06	0.26	0.25	0.17	0.23	3.98	5.39	0.40	0.17	0.00	0.00	0.00	
27	0.06	0.17	0.23	0.17	0.30	1.95	3.08	0.39	0.14	0.00	0.00	0.00	
28	0.06	0.11	0.22	0.17	0.25	1.40	2.56	0.35	0.11	0.00	0.00	0.00	
29	0.06	0.11	0.19	0.46	0.35	1.50	2.17	0.35	0.10	0.00		0.00	
30	0.06	0.09	0.17	0.30	0.40	1.12	13.10	0.33	0.10	0.00		0.00	
31		0.08		4.61	0.37		8.98		0.09	0.00		0.00	
Total	2.80	3.93	10.71	12.82	35.57	27.81	333.20	48.07	5.53	0.88	21.00	0.09	502.41 CMSDAY
Mean	0.09	0.13	0.36	0.41	1.15	0.93	10.75	1.60	0.18	0.03	0.75	0.00	1.38 CMS
Max	0.39	0.74	1.19	4.61	4.70	3.98	83.35	7.75	0.31	0.08	15.35	0.09	83.35 CMS
Min	0.06	0.05	0.07	0.07	0.23	0.28	1.12	0.33	0.09	0.00	0.00	0.00	0.00 CMS
Runoff	0.242	0.340	0.925	1.108	3.073	2.403	28.788	4.153	0.478	0.076	1.814	0.008	43.408 MCM

Momentary Peak 92.96 CMS, at 4.23 M (A.D), at 7.00 Hours, on Oct 16, 1992

Runoff Yield 6.29 Liters/Second/Square KM, Momentary Peak Yield 424.47 Liters/Second/Square KM

WATER YEAR 1992

SAKAE KRANG RIVER BASIN

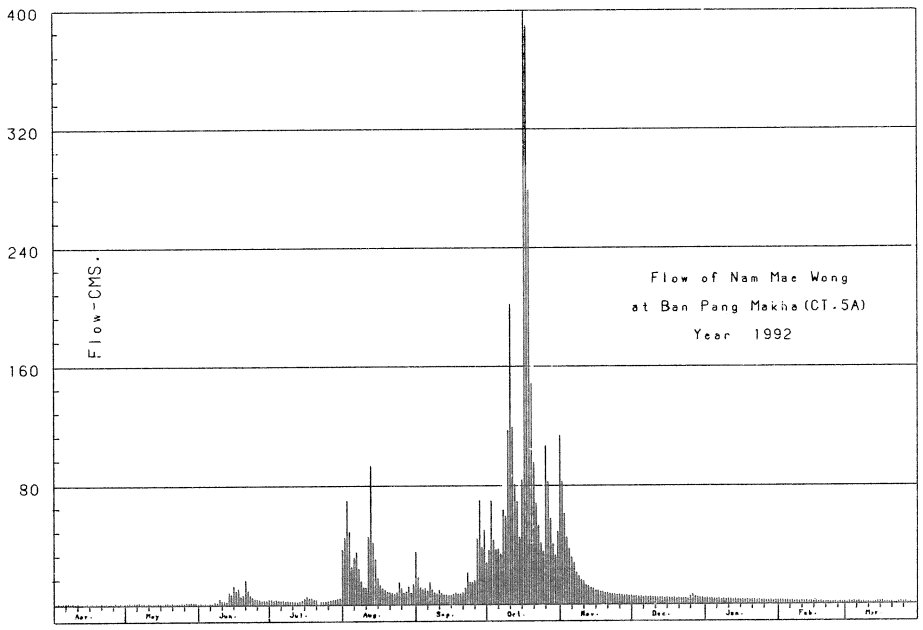
Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (CT.5A)

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	+4.60 m. (A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1969 to date.
Rated by Float	-
Rated by Current Meter	1969 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 4.17 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 91 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.10	-0.09	-0.10	0.09	1.36	0.83	1.20	1.88	0.28	0.15	0.01	-0.08	
2	-0.10	-0.09	-0.11	0.07	1.72	0.63	1.71	1.60	0.27	0.14	0.01	-0.06	
3	-0.10	-0.05	-0.12	0.08	1.43	0.59	1.33	1.36	0.26	0.13	0.01	-0.05	
4	-0.10	-0.06	-0.12	0.07	0.98	0.61	1.20	1.22	0.25	0.13	0.00	-0.04	
5	-0.10	-0.07	-0.11	0.05	1.11	0.56	1.21	1.11	0.24	0.12	0.00	-0.05	
6	-0.10	-0.08	-0.11	0.04	1.17	0.74	1.15	1.03	0.24	0.12	0.00	-0.06	
7	-0.10	-0.09	-0.03	0.03	0.96	0.59	1.63	0.90	0.24	0.11	-0.01	-0.07	
8	-0.10	-0.10	-0.05	0.02	0.76	0.48	1.57	0.84	0.23	0.10	-0.01	-0.07	
9	-0.11	-0.11	0.17	0.02	0.65	0.43	2.27	0.79	0.22	0.10	-0.02	-0.08	
10	-0.11	-0.12	0.00	-0.01	0.62	0.56	2.93	0.76	0.21	0.09	-0.02	-0.09	
11	-0.12	-0.13	0.02	-0.03	1.37	0.45	2.29	0.70	0.20	0.09	-0.02	-0.10	
12	-0.12	-0.12	0.00	0.00	2.01	0.38	1.86	0.66	0.20	0.08	-0.02	-0.08	
13	-0.12	-0.12	0.52	0.00	1.30	0.35	1.71	0.63	0.20	0.08	-0.02	-0.07	
14	-0.12	-0.11	0.38	0.07	1.09	0.34	1.36	0.60	0.19	0.08	-0.03	-0.04	
15	-0.12	-0.12	0.69	0.18	0.82	0.35	1.89	0.56	0.19	0.07	-0.03	-0.02	
16	-0.12	-0.12	0.56	0.27	0.69	0.39	4.60	0.54	0.18	0.07	-0.03	-0.03	
17	-0.12	-0.08	0.60	0.20	0.62	0.50	3.87	0.53	0.18	0.06	-0.04	-0.07	
18	-0.12	-0.09	0.30	0.18	0.56	0.41	3.37	0.51	0.18	0.06	-0.04	-0.08	
19	-0.12	-0.10	0.35	0.13	0.53	0.44	2.55	0.48	0.17	0.06	-0.05	-0.09	
20	-0.12	-0.10	0.78	0.07	0.49	0.48	2.03	0.46	0.16	0.05	-0.05	-0.09	
21	-0.12	-0.10	0.56	0.03	0.46	0.62	1.69	0.43	0.15	0.05	-0.05	-0.10	
22	-0.12	-0.11	0.36	0.00	0.43	0.90	1.49	0.42	0.15	0.05	-0.06	-0.10	
23	-0.13	-0.10	0.23	-0.02	0.50	0.75	1.29	0.39	0.14	0.05	-0.06	-0.06	
24	-0.13	-0.10	0.17	0.01	0.75	0.74	1.18	0.38	0.14	0.04	-0.06	-0.04	
25	-0.13	-0.09	0.12	0.01	0.61	0.77	2.16	0.36	0.27	0.04	-0.07	-0.05	
26	-0.09	-0.06	0.08	0.05	0.46	1.35	1.88	0.34	0.37	0.03	-0.07	-0.07	
27	-0.11	-0.06	0.07	0.11	0.54	1.72	1.55	0.33	0.28	0.03	-0.07	-0.09	
28	-0.12	-0.05	0.04	0.12	0.67	1.23	1.28	0.32	0.22	0.02	-0.08	-0.10	
29	-0.12	-0.05	0.07	0.14	0.50	1.44	1.13	0.31	0.20	0.02		-0.11	
30	-0.12	-0.08	0.09	0.20	0.71	1.04	1.43	0.30	0.17	0.02		-0.12	
31		-0.10		1.21	1.18		2.23		0.15	0.01		-0.12	
Mean	-0.11	-0.09	0.18	0.11	0.87	0.69	1.90	0.69	0.21	0.07	-0.03	-0.07	
Max	-0.09	-0.05	0.78	1.21	2.01	1.72	4.60	1.88	0.37	0.15	0.01	-0.02	4.60
Min	-0.13	-0.13	-0.12	-0.03	0.43	0.34	1.13	0.30	0.14	0.01	-0.08	-0.12	-0.13

Annual Max Momentary Gage Height 4.76 M (A.D), at 6.00 Hours, on Oct 16, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.22 M (A.D)
Left Bank Elevation 4.16 M (A.D)
Right Bank Elevation 4.70 M (A.D), Drainage Area 938 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	1.12	1.00	3.22	44.90	18.35	36.50	82.67	5.43	3.92	2.28	1.23	
2	1.00	1.12	0.90	2.98	70.13	11.25	69.40	61.33	5.32	3.80	2.28	1.47	
3	1.00	1.58	0.80	3.10	49.10	10.25	43.33	44.90	5.20	3.68	2.28	1.58	
4	1.00	1.47	0.80	2.98	25.10	10.75	36.50	37.55	5.08	3.68	2.17	1.70	
5	1.00	1.35	0.90	2.75	31.78	9.50	37.03	31.78	4.97	3.57	2.17	1.58	
6	1.00	1.23	0.90	2.63	34.93	14.60	33.88	27.57	4.97	3.57	2.17	1.47	
7	1.00	1.12	1.82	2.52	24.20	10.25	63.53	21.50	4.97	3.45	2.05	1.35	
8	1.00	1.00	1.58	2.40	15.40	7.77	59.13	18.80	4.85	3.33	2.05	1.35	
9	0.90	0.90	4.15	2.40	11.75	7.18	117.15	16.60	4.73	3.33	1.93	1.23	
10	0.90	0.80	2.17	2.05	11.00	9.50	201.73	15.40	4.62	3.22	1.93	1.12	
11	0.80	0.70	2.40	1.82	45.43	7.42	119.05	13.00	4.50	3.22	1.93	1.00	
12	0.80	0.80	2.17	2.17	93.50	6.60	81.00	12.00	4.50	3.10	1.93	1.23	
13	0.80	0.80	8.50	2.17	41.75	6.25	69.40	11.25	4.50	3.10	1.93	1.35	
14	0.80	0.90	6.60	2.98	30.73	6.13	44.90	10.50	4.38	3.10	1.82	1.70	
15	0.80	0.80	12.75	4.27	17.90	6.25	83.50	9.50	4.38	2.98	1.82	1.93	
16	0.80	0.80	9.50	5.32	12.75	6.72	610.00	9.00	4.27	2.98	1.82	1.82	
17	0.80	1.23	10.50	4.50	11.00	8.00	389.67	8.75	4.27	2.87	1.70	1.35	
18	0.80	1.12	5.67	4.27	9.50	6.95	279.00	8.25	4.27	2.87	1.70	1.23	
19	0.80	1.00	6.25	3.68	8.75	7.30	148.50	7.77	4.15	2.87	1.58	1.12	
20	0.80	1.00	16.20	2.98	7.88	7.77	95.17	7.53	4.03	2.75	1.58	1.12	
21	0.80	1.00	9.50	2.52	7.53	11.00	67.93	7.18	3.92	2.75	1.58	1.00	
22	0.80	0.90	6.37	2.17	7.18	21.50	53.30	7.07	3.92	2.75	1.47	1.00	
23	0.70	1.00	4.85	1.93	8.00	15.00	41.22	6.72	3.80	2.75	1.47	1.47	
24	0.70	1.00	4.15	2.28	15.00	14.60	35.45	6.60	3.80	2.63	1.47	1.70	
25	0.70	1.12	3.57	2.28	10.75	15.80	106.70	6.37	5.32	2.63	1.35	1.58	
26	1.12	1.47	3.10	2.75	7.53	44.38	82.67	6.13	6.48	2.52	1.35	1.35	
27	0.90	1.47	2.98	3.45	9.00	70.13	57.67	6.02	5.43	2.52	1.35	1.12	
28	0.80	1.58	2.63	3.57	12.25	38.08	40.70	5.90	4.73	2.40	1.23	1.00	
29	0.80	1.58	2.98	3.80	8.00	49.80	32.83	5.78	4.50	2.40		0.90	
30	0.80	1.23	3.22	4.50	13.40	28.10	49.10	5.67	4.15	2.40		0.80	
31		1.00		37.03	35.45		113.35		3.92	2.28		0.80	
Total	25.92	34.19	138.91	127.47	731.57	487.18	3299.29	519.09	143.36	93.42	50.39	40.65	5691.44 CMSDAY
Mean	0.86	1.10	4.63	4.11	23.60	16.24	106.43	17.30	4.62	3.01	1.80	1.31	15.59 CMS
Max	1.12	1.58	16.20	37.03	93.50	70.13	610.00	82.67	6.48	3.92	2.28	1.93	610.00 CMS
Min	0.70	0.70	0.80	1.82	7.18	6.13	32.83	5.67	3.80	2.28	1.23	0.80	0.70 CMS
Runoff	2.239	2.954	12.002	11.013	63.208	42.092	285.059	44.849	12.386	8.071	4.354	3.512	491.740 MCM

Momentary Peak 674.00 CMS, at 4.76 M (A.D), at 6.00 Hours, on Oct 16, 1992

Runoff Yield 16.62 Liters/Second/Square KM, Momentary Peak Yield 718.55 Liters/Second/Square KM

WATER YEAR 1992

SAKAE KRANG RIVER BASIN

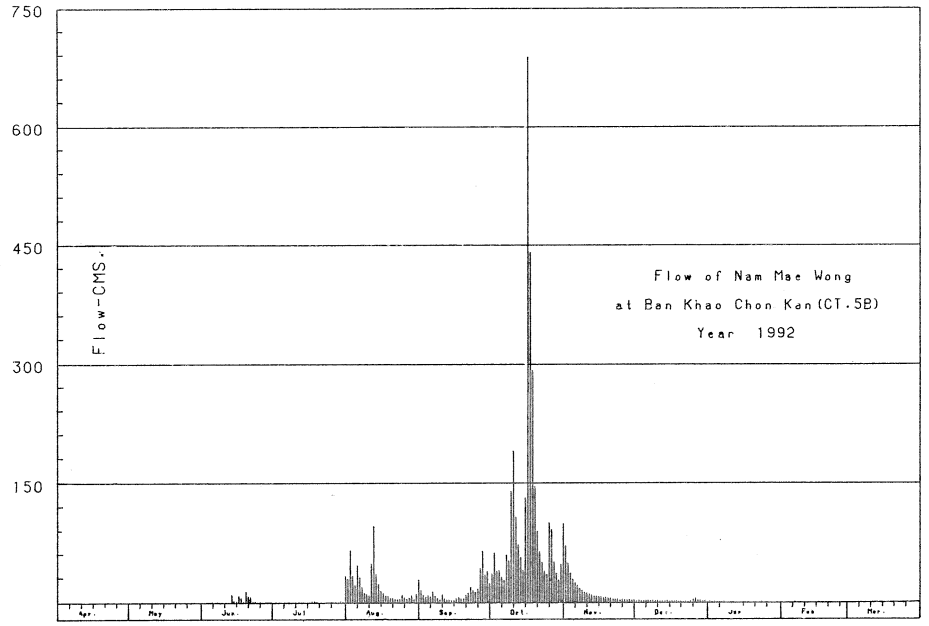
Nam Mae Wong at Ban Khao Chon Kan, Nakhon Sawan (CT.5B)

Location	Lat. 15-54-11 N., Long. 99-27-37 E., on right bank 8 kilometers upstream from CT.5A, Tambon Mae Lay, Amphoe Lat Yao, Nakhon Sawan.
Drainage Area	930 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 7.00 meters from the top staff gage.
Elevation	+13.173 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1988 to date.
Rated by Float	-
Rated by Current Meter	1988 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 71 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.70	4.77	4.72	4.82	6.08	5.67	6.24	6.80	5.05	4.97	4.85	4.77	
2	4.70	4.77	4.70	4.86	6.73	5.41	6.67	6.49	5.07	4.96	4.84	4.79	
3	4.70	4.77	4.70	4.88	6.17	5.32	6.32	6.26	5.07	4.95	4.84	4.78	
4	4.70	4.77	4.70	4.86	5.90	5.39	6.32	6.07	5.06	4.94	4.84	4.80	
5	4.70	4.77	4.70	4.84	6.46	5.35	6.14	5.99	5.06	4.93	4.84	4.80	
6	4.70	4.77	4.89	4.82	6.15	5.60	6.06	5.87	5.05	4.93	4.83	4.79	
7	4.70	4.76	4.87	4.80	5.81	5.39	6.65	5.77	5.05	4.92	4.83	4.78	
8	4.70	4.76	4.80	4.80	5.56	5.23	6.53	5.65	5.04	4.92	4.83	4.77	
9	4.70	4.75	4.89	4.80	5.46	5.17	7.46	5.58	5.03	4.92	4.83	4.77	
10	4.70	4.75	4.80	4.80	5.39	5.46	7.81	5.52	5.03	4.91	4.83	4.77	
11	4.70	4.75	4.85	4.79	6.48	5.21	7.18	5.51	5.02	4.91	4.83	4.78	
12	4.70	4.75	4.78	4.85	7.07	5.16	6.81	5.42	5.01	4.91	4.82	4.78	
13	4.70	4.75	5.45	4.88	6.22	5.11	6.61	5.38	5.01	4.90	4.81	4.78	
14	4.70	4.75	5.00	4.87	5.94	5.10	6.32	5.35	5.01	4.90	4.81	4.87	
15	4.70	4.75	5.00	4.86	5.66	5.12	7.39	5.33	5.00	4.90	4.81	4.85	
16	4.70	4.75	5.40	4.88	5.51	5.22	9.79	5.30	5.00	4.89	4.80	4.84	
17	4.70	4.75	5.25	5.00	5.41	5.30	9.00	5.29	5.00	4.88	4.80	4.83	
18	4.70	4.75	5.00	5.00	5.34	5.21	8.37	5.28	4.99	4.88	4.80	4.82	
19	4.70	4.75	5.64	4.89	5.27	5.24	7.50	5.26	4.99	4.88	4.80	4.80	
20	4.70	4.75	5.35	4.85	5.24	5.41	7.01	5.23	4.98	4.87	4.79	4.79	
21	4.70	4.73	5.30	4.82	5.21	5.53	6.69	5.22	4.98	4.87	4.78	4.79	
22	4.70	4.74	4.98	4.81	5.19	5.82	6.52	5.20	4.97	4.87	4.78	4.79	
23	4.70	4.76	4.95	4.81	5.17	5.65	6.30	5.18	4.96	4.87	4.78	4.85	
24	4.70	4.74	4.86	4.80	5.46	5.60	6.23	5.16	4.97	4.85	4.77	4.84	
25	4.70	4.74	4.82	4.80	5.26	5.72	7.10	5.14	5.18	4.84	4.77	4.83	
26	4.75	4.75	4.80	4.93	5.18	6.37	7.02	5.14	5.23	4.83	4.77	4.82	
27	4.75	4.80	4.80	4.94	5.28	6.71	6.52	5.13	5.10	4.83	4.77	4.81	
28	4.73	4.77	4.80	4.94	5.38	6.21	6.26	5.13	5.04	4.85	4.70	4.80	
29	4.73	4.75	4.85	4.97	5.19	6.30	6.05	5.12	5.01	4.86		4.79	
30	4.72	4.75	4.82	4.96	5.49	5.93	6.46	5.10	5.00	4.85		4.78	
31		4.75		6.19	6.08		7.10		4.99	4.85		4.77	
Mean	4.71	4.76	4.95	4.91	5.70	5.53	6.92	5.50	5.03	4.89	4.81	4.80	
Max	4.75	4.80	5.64	6.19	7.07	6.71	9.79	6.80	5.23	4.97	4.85	4.87	9.79
Min	4.70	4.73	4.70	4.79	5.17	5.10	6.05	5.10	4.96	4.83	4.70	4.77	4.70

Annual Max Momentary Gage Height 10.05 M (A.D), at 6.00 Hours, on Oct 16, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 4.48 M (A.D)
Left Bank Elevation 13.43 M (A.D)
Right Bank Elevation 13.25 M (A.D), Drainage Area 930 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.48	0.28	0.68	29.40	15.43	36.40	72.00	2.55	1.70	0.80	0.48	
2	0.20	0.48	0.20	0.84	66.75	9.22	62.25	49.40	2.77	1.60	0.76	0.56	
3	0.20	0.48	0.20	0.92	33.23	7.40	40.20	37.35	2.77	1.50	0.76	0.52	
4	0.20	0.48	0.20	0.84	22.50	8.80	40.20	28.98	2.66	1.40	0.76	0.60	
5	0.20	0.48	0.20	0.76	47.60	8.00	31.95	25.65	2.66	1.30	0.76	0.60	
6	0.20	0.48	0.96	0.68	32.38	13.50	28.55	21.45	2.55	1.30	0.72	0.56	
7	0.20	0.44	0.88	0.60	19.35	8.80	60.75	18.17	2.55	1.20	0.72	0.52	
8	0.20	0.44	0.60	0.60	12.60	5.25	52.10	14.88	2.44	1.20	0.72	0.48	
9	0.20	0.40	0.96	0.60	10.35	4.08	140.80	13.05	2.33	1.20	0.72	0.48	
10	0.20	0.40	0.60	0.60	8.80	10.35	191.23	11.70	2.33	1.10	0.72	0.48	
11	0.20	0.40	0.80	0.56	48.80	4.75	108.60	11.48	2.22	1.10	0.72	0.52	
12	0.20	0.40	0.52	0.80	97.23	3.94	72.90	9.45	2.11	1.10	0.68	0.52	
13	0.20	0.40	10.12	0.92	35.45	3.24	57.75	8.60	2.11	1.00	0.64	0.52	
14	0.20	0.40	2.00	0.88	23.90	3.10	40.20	8.00	2.11	1.00	0.64	0.88	
15	0.20	0.40	2.00	0.84	15.15	3.38	131.80	7.60	2.00	1.00	0.64	0.80	
16	0.20	0.40	9.00	0.92	11.48	5.00	688.83	7.00	2.00	0.96	0.60	0.76	
17	0.20	0.40	5.75	2.00	9.22	7.00	442.00	6.75	2.00	0.92	0.60	0.72	
18	0.20	0.40	2.00	2.00	7.80	4.75	292.00	6.50	1.90	0.92	0.60	0.68	
19	0.20	0.40	14.60	0.96	6.25	5.50	146.00	6.00	1.90	0.92	0.60	0.60	
20	0.20	0.40	8.00	0.80	5.50	9.22	91.03	5.25	1.80	0.88	0.56	0.56	
21	0.20	0.32	7.00	0.68	4.75	11.93	63.75	5.00	1.80	0.88	0.52	0.56	
22	0.20	0.36	1.80	0.64	4.36	19.70	51.40	4.50	1.70	0.88	0.52	0.56	
23	0.20	0.44	1.50	0.64	4.08	14.88	39.25	4.22	1.60	0.88	0.52	0.80	
24	0.20	0.36	0.84	0.60	10.35	13.50	35.93	3.94	1.70	0.80	0.48	0.76	
25	0.20	0.36	0.68	0.60	6.00	16.80	100.33	3.66	4.22	0.76	0.48	0.72	
26	0.40	0.40	0.60	1.30	4.22	42.57	92.07	3.66	5.25	0.72	0.48	0.68	
27	0.40	0.60	0.60	1.40	6.50	65.25	51.40	3.52	3.10	0.72	0.48	0.64	
28	0.32	0.48	0.60	1.40	8.60	34.98	37.35	3.52	2.44	0.80	0.20	0.60	
29	0.32	0.40	0.80	1.70	4.36	39.25	28.13	3.38	2.11	0.84		0.56	
30	0.28	0.40	0.68	1.60	11.02	23.55	47.60	3.10	2.00	0.80		0.52	
31		0.40		34.08	29.40		100.33		1.90	0.80		0.48	
Total	6.72	13.08	74.97	62.44	637.38	423.12	3403.08	407.76	73.58	32.18	17.40	18.72	5170.43 CMSDAY
Mean	0.22	0.42	2.50	2.01	20.56	14.10	109.78	13.59	2.37	1.04	0.62	0.60	14.17 CMS
Max	0.40	0.60	14.60	34.08	97.23	65.25	688.83	72.00	5.25	1.70	0.80	0.88	688.83 CMS
Min	0.20	0.32	0.20	0.56	4.08	3.10	28.13	3.10	1.60	0.72	0.20	0.48	0.20 CMS
Runoff	0.581	1.130	6.477	5.395	55.070	36.558	294.026	35.230	6.357	2.780	1.503	1.617	446.725 MCM

Momentary Peak 777.87 CMS, at 10.05 M (A.D), at 6.00 Hours, on Oct 16, 1992

Runoff Yield 15.23 Liters/Second/Square KM, Momentary Peak Yield 836.42 Liters/Second/Square KM

WATER YEAR 1992

SAKAE KRANG RIVER BASIN

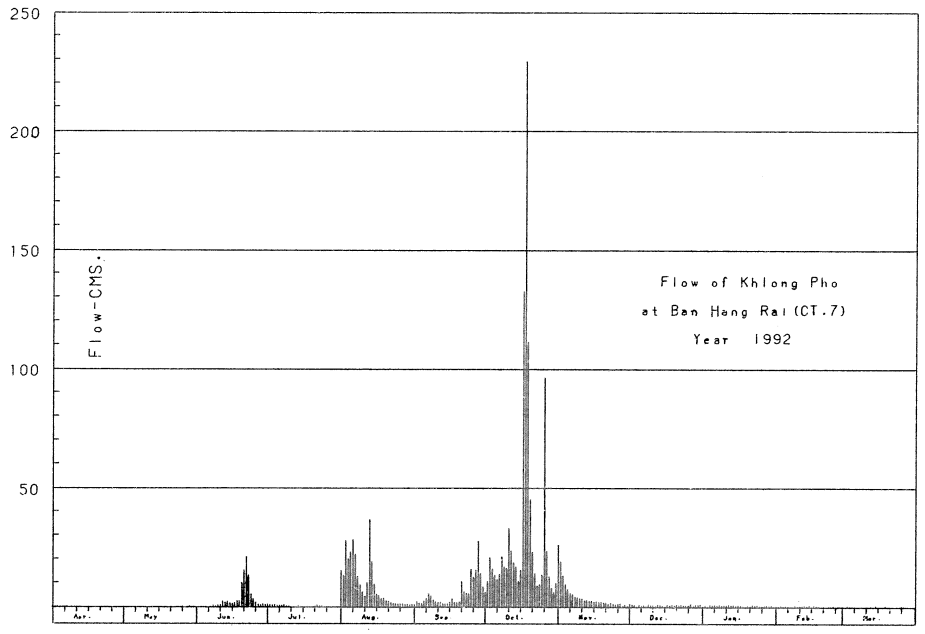
Khlong Pho at Ban Hang Rai, Nakhon Sawan (CT.7)

Location	Lat. 15-38-23 N., Long. 99-32-20 E., on right bank near the gage observer's house, Ban Hang Rai, Amphoe Lat Yao, Nakhon Sawan.
Drainage Area	457 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Infront of gage observer's house.
Elevation	+4.660 m. (A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1975 to date.
Rating Operation	
Period of Rating	1975 to 1984, 1988 to date.
Rated by Float	-
Rated by Current Meter	1975 to 1984, 1988 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 113 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.54	0.37	0.42	0.63	1.40	0.80	1.31	1.56	0.68	0.63	0.56	0.53	
2	0.52	0.37	0.40	0.63	1.75	0.71	1.60	1.39	0.68	0.63	0.56	0.55	
3	0.50	0.38	0.39	0.62	1.59	0.72	1.48	1.27	0.67	0.62	0.56	0.54	
4	0.49	0.38	0.38	0.61	1.65	0.80	1.40	1.18	0.67	0.62	0.56	0.53	
5	0.49	0.39	0.37	0.61	1.76	0.91	1.35	1.10	0.67	0.62	0.56	0.53	
6	0.49	0.38	0.46	0.61	1.63	1.08	1.41	1.04	0.66	0.62	0.56	0.54	
7	0.49	0.37	0.60	0.60	1.38	0.99	1.61	0.97	0.66	0.62	0.56	0.54	
8	0.48	0.37	0.59	0.57	1.26	0.86	1.50	0.93	0.66	0.61	0.56	0.53	
9	0.48	0.37	0.63	0.53	1.11	0.77	1.49	0.92	0.65	0.61	0.56	0.54	
10	0.48	0.36	0.65	0.51	0.99	0.77	1.85	0.89	0.65	0.61	0.57	0.53	
11	0.48	0.35	0.80	0.49	1.29	0.76	1.66	0.85	0.65	0.61	0.57	0.53	
12	0.48	0.36	0.77	0.49	1.92	0.72	1.55	0.84	0.63	0.61	0.57	0.54	
13	0.48	0.35	0.79	0.54	1.55	0.70	1.50	0.83	0.63	0.60	0.57	0.54	
14	0.46	0.37	0.74	0.53	1.27	0.73	1.32	0.81	0.63	0.60	0.57	0.56	
15	0.45	0.35	0.72	0.51	1.06	0.75	1.46	0.80	0.62	0.59	0.57	0.56	
16	0.42	0.35	0.73	0.48	0.99	0.88	2.96	0.79	0.62	0.59	0.57	0.55	
17	0.42	0.35	0.83	0.48	0.91	0.77	3.60	0.78	0.62	0.59	0.57	0.55	
18	0.41	0.34	0.81	0.47	0.90	0.75	2.79	0.77	0.62	0.59	0.56	0.54	
19	0.41	0.34	1.30	0.46	0.83	0.77	2.05	0.77	0.62	0.59	0.55	0.54	
20	0.41	0.34	1.46	0.55	0.79	1.32	1.65	0.76	0.62	0.59	0.55	0.53	
21	0.40	0.33	1.61	0.60	0.76	1.12	1.42	0.73	0.62	0.59	0.54	0.53	
22	0.40	0.33	1.40	0.57	0.72	1.10	1.25	0.72	0.62	0.59	0.54	0.54	
23	0.39	0.33	1.06	0.53	0.69	1.06	1.26	0.71	0.62	0.59	0.53	0.53	
24	0.39	0.33	0.87	0.52	0.69	1.47	1.41	0.71	0.62	0.58	0.53	0.53	
25	0.38	0.55	0.75	0.50	0.68	1.38	2.66	0.71	0.63	0.57	0.53	0.54	
26	0.38	0.53	0.69	0.48	0.68	1.46	1.66	0.70	0.67	0.57	0.53	0.52	
27	0.38	0.53	0.67	0.48	0.67	1.75	1.38	0.70	0.66	0.57	0.53	0.52	
28	0.38	0.52	0.66	0.47	0.65	1.42	1.21	0.70	0.66	0.57	0.53	0.52	
29	0.37	0.51	0.65	0.48	0.65	1.23	1.11	0.69	0.65	0.57		0.52	
30	0.37	0.48	0.64	0.46	0.63	1.12	1.28	0.68	0.64	0.57		0.51	
31		0.47		1.45	0.62		1.72		0.63	0.57		0.51	
Mean	0.44	0.39	0.76	0.56	1.08	0.99	1.67	0.88	0.64	0.60	0.55	0.53	
Max	0.54	0.55	1.61	1.45	1.92	1.75	3.60	1.56	0.68	0.63	0.57	0.56	3.60
Min	0.37	0.33	0.37	0.46	0.62	0.70	1.11	0.68	0.62	0.57	0.53	0.51	0.33

Annual Max Momentary Gage Height 3.68 M (A.D), at 10.00 Hours, on Oct 17, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.56 M (A.D)
Left Bank Elevation 4.33 M (A.D)
Right Bank Elevation 4.32 M (A.D), Drainage Area 457 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.00	0.08	1.08	13.50	2.50	10.80	19.40	1.38	1.08	0.70	0.55	
2	0.50	0.00	0.00	1.08	28.00	1.60	21.00	13.20	1.38	1.08	0.70	0.65	
3	0.40	0.00	0.00	1.02	20.60	1.70	16.30	9.75	1.32	1.02	0.70	0.60	
4	0.36	0.00	0.00	0.96	23.25	2.50	13.50	7.62	1.32	1.02	0.70	0.55	
5	0.36	0.00	0.00	0.96	28.50	3.82	12.00	6.10	1.32	1.02	0.70	0.55	
6	0.36	0.00	0.24	0.96	22.35	5.86	13.85	5.38	1.26	1.02	0.70	0.60	
7	0.36	0.00	0.90	0.90	12.90	4.78	21.45	4.54	1.26	1.02	0.70	0.60	
8	0.32	0.00	0.85	0.75	9.50	3.22	17.00	4.06	1.26	0.96	0.70	0.55	
9	0.32	0.00	1.08	0.55	6.29	2.20	16.65	3.94	1.20	0.96	0.70	0.60	
10	0.32	0.00	1.20	0.45	4.78	2.20	33.25	3.58	1.20	0.96	0.75	0.55	
11	0.32	0.00	2.50	0.36	10.25	2.10	23.70	3.10	1.20	0.96	0.75	0.55	
12	0.32	0.00	2.20	0.36	37.20	1.70	19.00	2.98	1.08	0.96	0.75	0.60	
13	0.32	0.00	2.40	0.60	19.00	1.50	17.00	2.86	1.08	0.90	0.75	0.60	
14	0.24	0.00	1.90	0.55	9.75	1.80	11.10	2.62	1.08	0.90	0.75	0.70	
15	0.20	0.00	1.70	0.45	5.62	2.00	15.60	2.50	1.02	0.85	0.75	0.70	
16	0.08	0.00	1.80	0.32	4.78	3.46	132.80	2.40	1.02	0.85	0.75	0.65	
17	0.08	0.00	2.86	0.32	3.82	2.20	229.50	2.30	1.02	0.85	0.75	0.65	
18	0.04	0.00	2.62	0.28	3.70	2.00	111.35	2.20	1.02	0.85	0.70	0.60	
19	0.04	0.00	10.50	0.24	2.86	2.20	45.50	2.20	1.02	0.85	0.65	0.60	
20	0.04	0.00	15.60	0.65	2.40	11.10	23.25	2.10	1.02	0.85	0.65	0.55	
21	0.00	0.00	21.45	0.90	2.10	6.48	14.20	1.80	1.02	0.85	0.60	0.55	
22	0.00	0.00	13.50	0.75	1.70	6.10	9.25	1.70	1.02	0.85	0.60	0.60	
23	0.00	0.00	5.62	0.55	1.44	5.62	9.50	1.60	1.02	0.85	0.55	0.55	
24	0.00	0.00	3.34	0.50	1.44	15.95	13.85	1.60	1.02	0.80	0.55	0.55	
25	0.00	0.65	2.00	0.40	1.38	12.90	96.80	1.60	1.08	0.75	0.55	0.60	
26	0.00	0.55	1.44	0.32	1.38	15.60	23.70	1.50	1.32	0.75	0.55	0.50	
27	0.00	0.55	1.32	0.32	1.32	28.00	12.90	1.50	1.26	0.75	0.55	0.50	
28	0.00	0.50	1.26	0.28	1.20	14.20	8.25	1.50	1.26	0.75	0.55	0.50	
29	0.00	0.45	1.20	0.32	1.20	8.75	6.29	1.44	1.20	0.75		0.50	
30	0.00	0.32	1.14	0.24	1.08	6.48	10.00	1.38	1.14	0.75		0.45	
31		0.28		15.25	1.02		26.50		1.08	0.75		0.45	
Total	5.58	3.30	100.70	32.67	284.31	180.52	1035.84	118.45	35.88	27.56	18.80	17.75	1861.36 CMSDAY
Mean	0.19	0.11	3.36	1.05	9.17	6.02	33.41	3.95	1.16	0.89	0.67	0.57	5.10 CMS
Max	0.60	0.65	21.45	15.25	37.20	28.00	229.50	19.40	1.38	1.08	0.75	0.70	229.50 CMS
Min	0.00	0.00	0.00	0.24	1.02	1.50	6.29	1.38	1.02	0.75	0.55	0.45	0.00 CMS
Runoff	0.482	0.285	8.700	2.823	24.564	15.597	89.497	10.234	3.100	2.381	1.624	1.534	160.822 MCM

Momentary Peak 242.70 CMS, at 3.68 M (A.D), at 10.00 Hours, on Oct 17, 1992

Runoff Yield 11.16 Liters/Second/Square KM, Momentary Peak Yield 531.07 Liters/Second/Square KM

WATER YEAR 1992

SAKAE KRANG RIVER BASIN

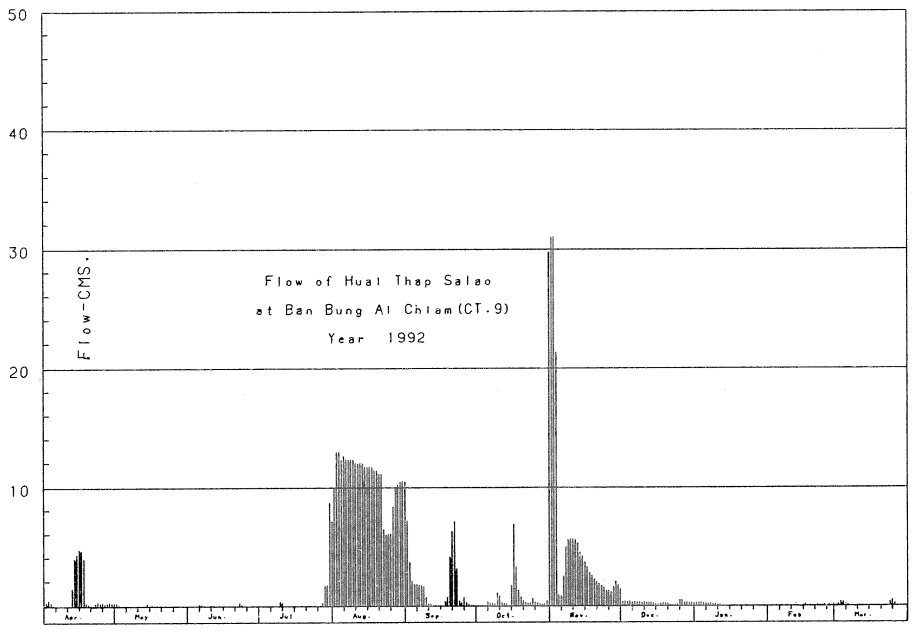
Huai Thap Salao at Ban Bung Ai Chiam, Uthai Thani (CT.9)

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	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1977 to date.
Rating Operation	
Period of Rating	1977 to date.
Rated by Float	-
Rated by Current Meter	1977 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 105 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.30	124.26	124.16	124.10	124.97	124.87	124.16	125.54	124.31	124.25	124.17	124.20	
2	124.33	124.18	124.18	124.10	125.07	124.68	124.17	125.54	124.31	124.28	124.17	124.20	
3	124.29	124.16	124.18	124.10	125.07	124.56	124.16	125.31	124.31	124.27	124.16	124.31	
4	124.10	124.16	124.21	124.10	125.05	124.54	124.18	124.41	124.31	124.26	124.17	124.32	
5	124.08	124.16	124.21	124.10	125.06	124.54	124.31	124.41	124.30	124.25	124.18	124.31	
6	124.06	124.16	124.22	124.10	125.05	124.53	124.24	124.60	124.30	124.24	124.17	124.20	
7	124.05	124.16	124.17	124.10	125.05	124.53	124.26	124.76	124.29	124.23	124.17	124.18	
8	124.05	124.15	124.17	124.10	125.05	124.52	124.22	124.80	124.29	124.22	124.16	124.18	
9	124.05	124.15	124.17	124.32	125.05	124.39	124.45	124.80	124.29	124.21	124.16	124.16	
10	124.01	124.15	124.19	124.28	125.04	124.22	124.40	124.80	124.29	124.20	124.16	124.16	
11	124.01	124.15	124.16	124.15	125.04	124.21	124.29	124.80	124.29	124.19	124.16	124.17	
12	124.51	124.18	124.16	124.12	125.04	124.19	124.25	124.78	124.28	124.18	124.16	124.13	
13	124.70	124.18	124.16	124.11	125.04	124.17	124.22	124.73	124.27	124.17	124.17	124.13	
14	124.72	124.28	124.17	124.10	125.03	124.16	124.20	124.71	124.25	124.16	124.17	124.13	
15	124.75	124.21	124.17	124.10	125.03	124.17	124.53	124.68	124.23	124.16	124.18	124.13	
16	124.74	124.20	124.17	124.10	125.03	124.18	124.86	124.65	124.22	124.16	124.19	124.14	
17	124.70	124.18	124.17	124.10	125.03	124.32	124.65	124.62	124.24	124.16	124.19	124.13	
18	124.26	124.17	124.15	124.10	125.02	124.38	124.48	124.60	124.26	124.16	124.19	124.13	
19	124.22	124.17	124.13	124.10	125.02	124.71	124.39	124.58	124.26	124.16	124.20	124.13	
20	124.19	124.16	124.12	124.10	125.01	124.83	124.32	124.56	124.22	124.16	124.20	124.13	
21	124.18	124.16	124.15	124.09	125.01	124.87	124.28	124.54	124.20	124.15	124.21	124.12	
22	124.26	124.16	124.29	124.09	124.84	124.64	124.26	124.53	124.18	124.15	124.20	124.13	
23	124.30	124.16	124.19	124.09	124.82	124.33	124.25	124.51	124.20	124.15	124.20	124.13	
24	124.28	124.16	124.14	124.09	124.82	124.27	124.36	124.48	124.21	124.17	124.20	124.31	
25	124.28	124.16	124.12	124.09	124.82	124.38	124.29	124.47	124.34	124.21	124.20	124.33	
26	124.28	124.16	124.12	124.09	124.92	124.29	124.26	124.45	124.33	124.19	124.20	124.30	
27	124.27	124.16	124.11	124.28	124.97	124.23	124.24	124.52	124.27	124.17	124.20	124.19	
28	124.28	124.16	124.11	124.53	124.98	124.20	124.22	124.56	124.28	124.15	124.21	124.16	
29	124.26	124.16	124.10	124.53	124.99	124.18	124.22	124.53	124.27	124.16		124.14	
30	124.26	124.16	124.10	124.93	124.99	124.17	124.33	124.50	124.26	124.16		124.14	
31		124.16		124.87	124.99		125.51		124.26	124.17		124.13	
Mean	124.29	124.17	124.16	124.20	125.00	124.41	124.35	124.69	124.27	124.19	124.18	124.18	
Max	124.75	124.28	124.29	124.93	125.07	124.87	125.51	125.54	124.34	124.28	124.21	124.33	125.54
Min	124.01	124.15	124.10	124.09	124.82	124.16	124.16	124.41	124.18	124.15	124.16	124.12	124.01

Annual Max Momentary Gage Height 125.55 M (MSL), at 18.00 Hours, on Nov 1, 1992
Zero Gage at Bottom Elevation 123.45 M (MSL), River Bed 124.09 M (MSL)
Left Bank Elevation 127.54 M (MSL)
Right Bank Elevation 127.65 M (MSL), Drainage Area 522 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.22	0.02	0.00	9.90	7.14	0.02	31.02	0.35	0.20	0.04	0.10	
2	0.45	0.06	0.06	0.00	12.97	3.70	0.04	31.02	0.35	0.26	0.04	0.10	
3	0.28	0.02	0.06	0.00	12.97	2.06	0.02	21.40	0.35	0.24	0.02	0.35	
4	0.00	0.02	0.12	0.00	12.35	1.84	0.06	0.86	0.35	0.22	0.04	0.40	
5	0.00	0.02	0.12	0.00	12.66	1.84	0.35	0.86	0.30	0.20	0.06	0.35	
6	0.00	0.02	0.14	0.00	12.35	1.73	0.18	2.50	0.30	0.18	0.04	0.10	
7	0.00	0.02	0.04	0.00	12.35	1.73	0.22	4.96	0.28	0.16	0.04	0.06	
8	0.00	0.00	0.04	0.00	12.35	1.62	0.14	5.60	0.28	0.14	0.02	0.06	
9	0.00	0.00	0.04	0.40	12.35	0.75	1.10	5.60	0.28	0.12	0.02	0.02	
10	0.00	0.00	0.08	0.26	12.04	0.14	0.80	5.60	0.28	0.10	0.02	0.02	
11	0.00	0.00	0.02	0.00	12.04	0.12	0.28	5.60	0.28	0.08	0.02	0.04	
12	1.51	0.06	0.02	0.00	12.04	0.08	0.20	5.28	0.26	0.06	0.02	0.00	
13	4.00	0.06	0.02	0.00	12.04	0.04	0.14	4.48	0.24	0.04	0.04	0.00	
14	4.32	0.26	0.04	0.00	11.73	0.02	0.10	4.16	0.20	0.02	0.04	0.00	
15	4.80	0.12	0.04	0.00	11.73	0.04	1.73	3.70	0.16	0.02	0.06	0.00	
16	4.64	0.10	0.04	0.00	11.73	0.06	6.92	3.25	0.14	0.02	0.08	0.00	
17	4.00	0.06	0.04	0.00	11.73	0.40	3.25	2.80	0.18	0.02	0.08	0.00	
18	0.22	0.04	0.00	0.00	11.42	0.70	1.28	2.50	0.22	0.02	0.08	0.00	
19	0.14	0.04	0.00	0.00	11.42	4.16	0.75	2.28	0.22	0.02	0.10	0.00	
20	0.08	0.02	0.00	0.00	11.11	6.26	0.40	2.06	0.14	0.02	0.10	0.00	
21	0.06	0.02	0.00	0.00	11.11	7.14	0.26	1.84	0.10	0.00	0.12	0.00	
22	0.22	0.02	0.28	0.00	6.48	3.10	0.22	1.73	0.06	0.00	0.10	0.00	
23	0.30	0.02	0.08	0.00	6.04	0.45	0.20	1.51	0.10	0.00	0.10	0.00	
24	0.26	0.02	0.00	0.00	6.04	0.24	0.60	1.28	0.12	0.04	0.10	0.35	
25	0.26	0.02	0.00	0.00	6.04	0.70	0.28	1.22	0.50	0.12	0.10	0.45	
26	0.26	0.02	0.00	0.00	8.40	0.28	0.22	1.10	0.45	0.08	0.10	0.30	
27	0.24	0.02	0.00	0.26	9.90	0.16	0.18	1.62	0.24	0.04	0.10	0.08	
28	0.26	0.02	0.00	1.73	10.20	0.10	0.14	2.06	0.26	0.00	0.12	0.02	
29	0.22	0.02	0.00	1.73	10.50	0.06	0.14	1.73	0.24	0.02		0.00	
30	0.22	0.02	0.00	8.70	10.50	0.04	0.45	1.40	0.22	0.02		0.00	
31		0.02		7.14	10.50		29.73		0.22	0.04		0.00	
Total	27.04	1.36	1.30	20.22	334.99	46.70	50.40	161.02	7.67	2.50	1.80	2.80	657.80 CMSDAY
Mean	0.90	0.04	0.04	0.65	10.81	1.56	1.63	5.37	0.25	0.08	0.06	0.09	1.80 CMS
Max	4.80	0.26	0.28	8.70	12.97	7.14	29.73	31.02	0.50	0.26	0.12	0.45	31.02 CMS
Min	0.00	0.00	0.00	0.00	6.04	0.02	0.02	0.86	0.06	0.00	0.02	0.00	0.00 CMS
Runoff	2.336	0.118	0.112	1.747	28.943	4.035	4.355	13.912	0.663	0.216	0.156	0.242	56.834 MCM

Momentary Peak 31.45 CMS, at 125.55 M (MSL), at 18.00 Hours, on Nov 1, 1992

Runoff Yield 3.45 Liters/Second/Square KM, Momentary Peak Yield 60.25 Liters/Second/Square KM

WATER YEAR 1992

PASAK RIVER BASIN

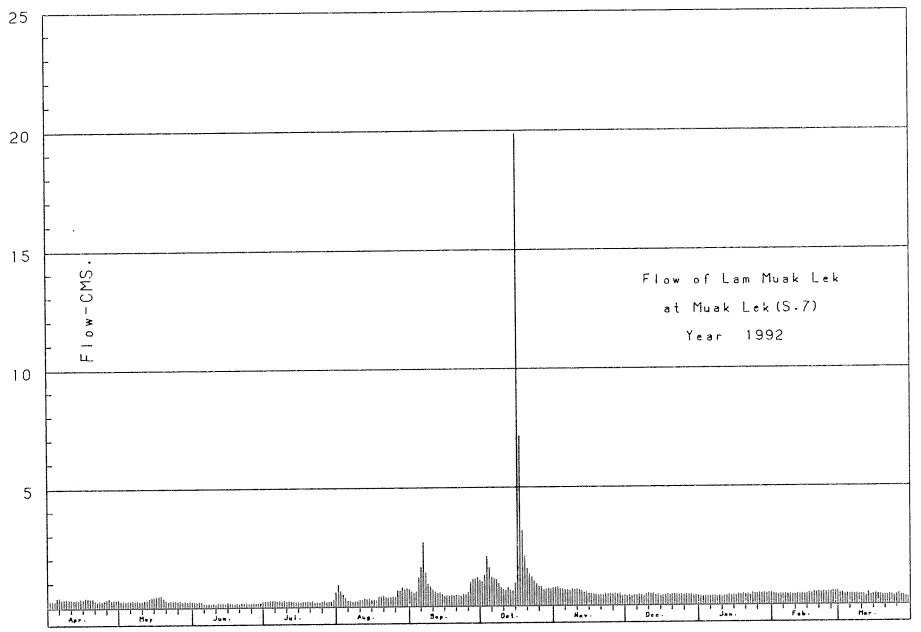
Lam Muak Lek at Muak Lek, Saraburi (S.7)

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 23 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.60	0.54	0.55	0.75	0.68	0.77	0.72	0.63	0.62	0.65	0.65	
2	0.60	0.59	0.54	0.58	0.69	0.67	0.82	0.72	0.63	0.62	0.64	0.65	
3	0.60	0.58	0.55	0.58	0.66	0.68	0.95	0.71	0.63	0.62	0.64	0.64	
4	0.63	0.59	0.55	0.60	0.62	0.81	0.89	0.70	0.63	0.62	0.64	0.64	
5	0.64	0.60	0.46	0.58	0.58	0.89	0.81	0.70	0.64	0.62	0.64	0.64	
6	0.61	0.60	0.46	0.58	0.55	1.02	0.79	0.69	0.64	0.63	0.64	0.64	
7	0.62	0.60	0.46	0.57	0.53	0.85	0.79	0.69	0.64	0.62	0.64	0.64	
8	0.62	0.59	0.46	0.56	0.54	0.75	0.75	0.70	0.62	0.62	0.64	0.64	
9	0.62	0.59	0.46	0.57	0.55	0.73	0.72	0.70	0.65	0.62	0.64	0.64	
10	0.61	0.59	0.46	0.56	0.59	0.70	0.70	0.70	0.65	0.62	0.64	0.64	
11	0.61	0.60	0.49	0.56	0.60	0.68	0.69	0.70	0.65	0.62	0.64	0.63	
12	0.61	0.61	0.49	0.56	0.61	0.67	0.72	0.68	0.65	0.63	0.64	0.62	
13	0.61	0.62	0.48	0.54	0.61	0.67	0.69	0.67	0.64	0.63	0.64	0.65	
14	0.62	0.64	0.48	0.53	0.61	0.66	0.69	0.67	0.64	0.63	0.64	0.63	
15	0.62	0.63	0.50	0.52	0.60	0.64	0.76	0.66	0.63	0.63	0.64	0.63	
16	0.63	0.64	0.50	0.52	0.58	0.64	1.69	0.65	0.63	0.63	0.65	0.64	
17	0.63	0.65	0.47	0.53	0.59	0.64	1.32	0.65	0.64	0.64	0.65	0.64	
18	0.62	0.65	0.47	0.54	0.63	0.64	1.07	0.64	0.64	0.64	0.66	0.63	
19	0.63	0.63	0.47	0.54	0.64	0.64	0.95	0.64	0.64	0.64	0.66	0.63	
20	0.60	0.60	0.47	0.55	0.64	0.64	0.88	0.64	0.64	0.64	0.66	0.62	
21	0.58	0.58	0.48	0.55	0.63	0.64	0.83	0.64	0.65	0.64	0.66	0.63	
22	0.60	0.58	0.49	0.51	0.62	0.64	0.81	0.65	0.64	0.63	0.66	0.63	
23	0.60	0.59	0.50	0.50	0.63	0.65	0.77	0.65	0.64	0.65	0.66	0.63	
24	0.60	0.59	0.48	0.50	0.63	0.65	0.75	0.65	0.64	0.65	0.66	0.63	
25	0.62	0.58	0.48	0.55	0.63	0.67	0.73	0.65	0.64	0.65	0.67	0.63	
26	0.62	0.58	0.48	0.56	0.69	0.76	0.72	0.65	0.64	0.65	0.67	0.64	
27	0.61	0.56	0.48	0.53	0.70	0.79	0.70	0.65	0.64	0.65	0.67	0.63	
28	0.61	0.57	0.48	0.52	0.72	0.79	0.70	0.65	0.64	0.65	0.67	0.62	
29	0.61	0.55	0.51	0.55	0.71	0.81	0.71	0.63	0.63	0.65		0.61	
30	0.61	0.56	0.54	0.59	0.71	0.78	0.70	0.63	0.63	0.65		0.60	
31		0.57		0.68	0.71		0.71		0.63	0.65		0.60	
Mean	0.61	0.60	0.49	0.55	0.63	0.72	0.83	0.67	0.64	0.63	0.65	0.63	
Max	0.64	0.65	0.55	0.68	0.75	1.02	1.69	0.72	0.65	0.65	0.67	0.65	1.69
Min	0.58	0.55	0.46	0.50	0.53	0.64	0.69	0.63	0.62	0.62	0.64	0.60	0.46

Annual Max Momentary Gage Height 2.22 M (A.D), at 12.00 Hours, on Oct 16, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.91 M (A.D)
Left Bank Elevation 6.88 M (A.D)
Right Bank Elevation 6.89 M (A.D), Drainage Area 177 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.30	0.24	0.25	0.95	0.62	1.05	0.80	0.42	0.38	0.50	0.50	
2	0.30	0.29	0.24	0.28	0.66	0.58	1.30	0.80	0.42	0.38	0.46	0.50	
3	0.30	0.28	0.25	0.28	0.54	0.62	2.10	0.75	0.42	0.38	0.46	0.46	
4	0.42	0.29	0.25	0.30	0.38	1.25	1.65	0.70	0.42	0.38	0.46	0.46	
5	0.46	0.30	0.16	0.28	0.28	1.65	1.25	0.70	0.46	0.38	0.46	0.46	
6	0.34	0.30	0.16	0.28	0.25	2.70	1.15	0.66	0.46	0.42	0.46	0.46	
7	0.38	0.30	0.16	0.27	0.23	1.45	1.15	0.66	0.46	0.38	0.46	0.46	
8	0.38	0.29	0.16	0.26	0.24	0.95	0.95	0.70	0.38	0.38	0.46	0.46	
9	0.38	0.29	0.16	0.27	0.25	0.85	0.80	0.70	0.50	0.38	0.46	0.46	
10	0.34	0.29	0.16	0.26	0.29	0.70	0.70	0.70	0.50	0.38	0.46	0.46	
11	0.34	0.30	0.19	0.26	0.30	0.62	0.66	0.70	0.50	0.38	0.46	0.42	
12	0.34	0.34	0.19	0.26	0.34	0.58	0.80	0.62	0.50	0.42	0.46	0.38	
13	0.34	0.38	0.18	0.24	0.34	0.58	0.66	0.58	0.46	0.42	0.46	0.50	
14	0.38	0.46	0.18	0.23	0.34	0.54	0.66	0.58	0.46	0.42	0.46	0.42	
15	0.38	0.42	0.20	0.22	0.30	0.46	1.00	0.54	0.42	0.42	0.46	0.42	
16	0.42	0.46	0.20	0.22	0.28	0.46	19.84	0.50	0.42	0.42	0.50	0.46	
17	0.42	0.50	0.17	0.23	0.29	0.46	7.18	0.50	0.46	0.46	0.50	0.46	
18	0.38	0.50	0.17	0.24	0.42	0.46	3.20	0.46	0.46	0.46	0.54	0.42	
19	0.42	0.42	0.17	0.24	0.46	0.46	2.10	0.46	0.46	0.46	0.54	0.42	
20	0.30	0.30	0.17	0.25	0.46	0.46	1.60	0.46	0.46	0.46	0.54	0.38	
21	0.28	0.28	0.18	0.25	0.42	0.46	1.35	0.46	0.50	0.46	0.54	0.42	
22	0.30	0.28	0.19	0.21	0.38	0.46	1.25	0.50	0.46	0.42	0.54	0.42	
23	0.30	0.29	0.20	0.20	0.42	0.50	1.05	0.50	0.46	0.50	0.54	0.42	
24	0.30	0.29	0.18	0.20	0.42	0.50	0.95	0.50	0.46	0.50	0.54	0.42	
25	0.38	0.28	0.18	0.25	0.42	0.58	0.85	0.50	0.46	0.50	0.58	0.42	
26	0.38	0.28	0.18	0.26	0.66	1.00	0.80	0.50	0.46	0.50	0.58	0.46	
27	0.34	0.26	0.18	0.23	0.70	1.15	0.70	0.50	0.46	0.50	0.58	0.42	
28	0.34	0.27	0.18	0.22	0.80	1.15	0.70	0.50	0.46	0.50	0.58	0.38	
29	0.34	0.25	0.21	0.25	0.75	1.25	0.75	0.42	0.42	0.50		0.34	
30	0.34	0.26	0.24	0.29	0.75	1.10	0.70	0.42	0.42	0.50		0.30	
31		0.27		0.62	0.75		0.75		0.42	0.50		0.30	
Total	10.62	10.02	5.68	8.10	14.07	24.60	59.65	17.37	14.02	13.54	14.04	13.26	204.97 CMSDAY
Mean	0.35	0.32	0.19	0.26	0.45	0.82	1.92	0.58	0.45	0.44	0.50	0.43	0.56 CMS
Max	0.46	0.50	0.25	0.62	0.95	2.70	19.84	0.80	0.50	0.50	0.58	0.50	19.84 CMS
Min	0.28	0.25	0.16	0.20	0.23	0.46	0.66	0.42	0.38	0.38	0.46	0.30	0.16 CMS
Runoff	0.918	0.866	0.491	0.700	1.216	2.125	5.154	1.501	1.211	1.170	1.213	1.146	17.709 MCM

Momentary Peak 79.32 CMS, at 2.22 M (A.D), at 12.00 Hours, on Oct 16, 1992

Runoff Yield 3.17 Liters/Second/Square KM, Momentary Peak Yield 448.14 Liters/Second/Square KM

WATER YEAR 1992

PASAK RIVER BASIN

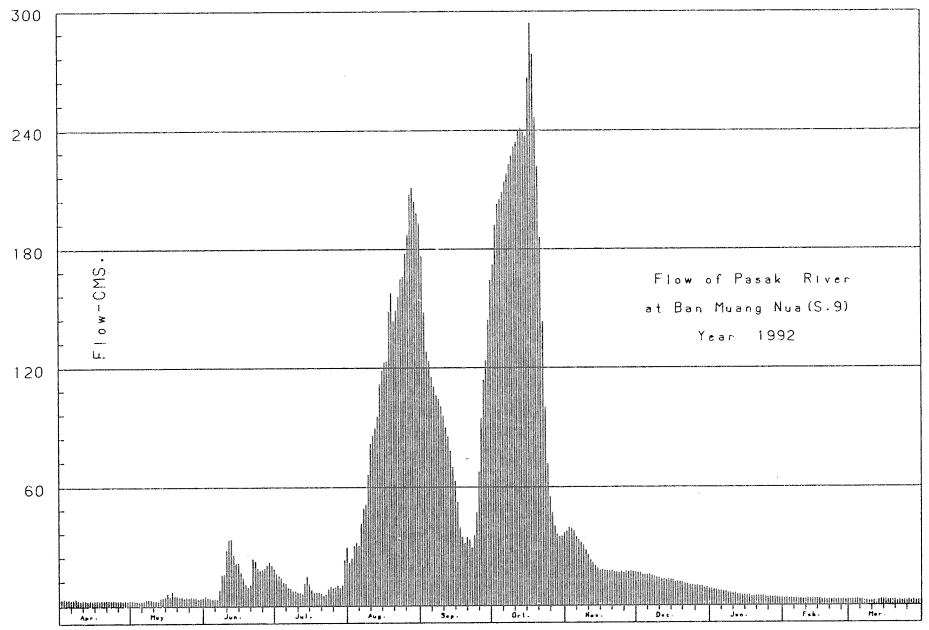
Pasak River at Ban Muang Nua, Saraburi (S.9)

Location	Lat. 14°-37'-33" N., Long. 101°-01'-00" E., on left bank at Ban Muang Nua railway bridge, Amphoe Kaeng Khoi, Saraburi.
Drainage Area	14,374 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+7.492 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank under tamarind tree along the measuring line.
Elevation	+23.099 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1973 to date.
Rating Operation	
Period of Rating	1973 to date.
Rated by Float	-
Rated by Current Meter	1973 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.23	8.19	8.29	8.69	8.83	11.02	10.97	9.14	8.71	8.44	8.24	8.20	
2	8.23	8.19	8.27	8.67	8.89	10.70	11.19	9.17	8.70	8.43	8.24	8.20	
3	8.22	8.17	8.24	8.63	9.01	10.48	11.31	9.17	8.68	8.42	8.24	8.21	
4	8.22	8.17	8.23	8.57	9.03	10.42	11.33	9.14	8.67	8.41	8.24	8.21	
5	8.21	8.17	8.23	8.54	9.01	10.32	11.37	9.09	8.68	8.40	8.24	8.21	
6	8.21	8.18	8.23	8.48	9.21	10.25	11.42	9.06	8.68	8.40	8.23	8.20	
7	8.25	8.21	8.42	8.45	9.34	10.19	11.46	9.04	8.67	8.38	8.22	8.18	
8	8.20	8.22	8.69	8.41	9.37	10.16	11.51	9.01	8.65	8.37	8.22	8.17	
9	8.19	8.22	8.68	8.40	9.62	10.11	11.55	8.97	8.64	8.36	8.22	8.17	
10	8.19	8.19	8.97	8.38	9.84	10.04	11.60	8.92	8.63	8.35	8.22	8.17	
11	8.20	8.18	9.06	8.36	9.90	9.96	11.62	8.87	8.62	8.35	8.23	8.17	
12	8.19	8.18	9.07	8.35	9.95	9.89	11.68	8.83	8.61	8.33	8.23	8.17	
13	8.19	8.26	8.92	8.54	10.04	9.79	11.69	8.80	8.61	8.32	8.23	8.19	
14	8.19	8.26	8.83	8.66	10.27	9.67	11.67	8.76	8.61	8.31	8.23	8.22	
15	8.19	8.29	8.83	8.53	10.36	9.57	11.65	8.74	8.61	8.31	8.22	8.20	
16	8.19	8.35	8.72	8.42	10.41	9.39	11.92	8.74	8.60	8.31	8.22	8.20	
17	8.19	8.29	8.63	8.38	10.42	9.17	12.16	8.74	8.57	8.30	8.20	8.19	
18	8.19	8.39	8.54	8.37	10.71	9.09	12.03	8.73	8.57	8.29	8.20	8.19	
19	8.20	8.32	8.47	8.38	10.81	9.03	11.74	8.73	8.57	8.29	8.20	8.19	
20	8.20	8.30	8.53	8.35	10.65	9.08	11.50	8.73	8.56	8.30	8.20	8.19	
21	8.20	8.29	8.88	8.31	10.71	9.06	11.12	8.72	8.54	8.29	8.20	8.17	
22	8.20	8.28	8.86	8.33	10.79	8.99	10.65	8.71	8.53	8.30	8.20	8.18	
23	8.20	8.26	8.76	8.45	10.89	9.10	10.10	8.71	8.52	8.29	8.20	8.18	
24	8.19	8.26	8.74	8.49	10.90	9.30	9.70	8.72	8.51	8.28	8.20	8.18	
25	8.18	8.27	8.75	8.47	11.03	9.64	9.44	8.71	8.51	8.27	8.20	8.18	
26	8.19	8.27	8.76	8.47	11.14	10.02	9.30	8.72	8.51	8.26	8.20	8.19	
27	8.19	8.27	8.81	8.52	11.36	10.30	9.19	8.72	8.50	8.27	8.20	8.18	
28	8.19	8.26	8.84	8.46	11.39	10.42	9.11	8.72	8.49	8.26	8.20	8.18	
29	8.19	8.24	8.81	8.52	11.32	10.66	9.09	8.72	8.47	8.26		8.18	
30	8.19	8.24	8.75	8.87	11.26	10.88	9.09	8.71	8.47	8.24		8.17	
31		8.27		8.99	11.20		9.12		8.45	8.24		8.16	
Mean	8.20	8.25	8.66	8.50	10.25	9.89	10.88	8.85	8.59	8.32	8.22	8.19	
Max	8.25	8.39	9.07	8.99	11.39	11.02	12.16	9.17	8.71	8.44	8.24	8.22	12.16
Min	8.18	8.17	8.23	8.31	8.83	8.99	9.09	8.71	8.45	8.24	8.20	8.16	8.16

Annual Max Momentary Gage Height 12.17 M (MSL), at 12.00 Hours, on Oct 17, 1992
Zero Gage at Bottom Elevation 7.49 M (MSL), River Bed 5.94 M (MSL)
Left Bank Elevation 21.44 M (MSL)
Right Bank Elevation 20.72 M (MSL), Drainage Area 14374 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.60	2.80	4.80	16.15	21.63	176.80	172.30	37.70	16.89	8.50	3.80	3.00	
2	3.60	2.80	4.40	15.45	24.09	148.00	192.10	39.35	16.50	8.25	3.80	3.00	
3	3.40	2.40	3.80	14.05	30.55	128.40	203.00	39.35	15.80	8.00	3.80	3.20	
4	3.40	2.40	3.60	12.10	31.65	123.60	205.00	37.70	15.45	7.75	3.80	3.20	
5	3.20	2.40	3.60	11.20	30.55	115.60	209.00	34.95	15.80	7.50	3.80	3.20	
6	3.20	2.60	3.60	9.50	41.60	110.50	214.00	33.30	15.80	7.50	3.60	3.00	
7	4.00	3.20	8.00	8.75	49.40	106.30	218.00	32.20	15.45	7.00	3.40	2.60	
8	3.00	3.40	16.15	7.75	51.20	104.20	223.00	30.55	14.75	6.75	3.40	2.40	
9	2.80	3.40	15.80	7.50	66.40	100.70	227.00	28.35	14.40	6.50	3.40	2.40	
10	2.80	2.80	28.35	7.00	81.80	95.80	232.00	25.60	14.05	6.25	3.40	2.40	
11	3.00	2.60	33.30	6.50	86.00	90.20	234.00	23.27	13.70	6.25	3.60	2.40	
12	2.80	2.60	33.85	6.25	89.50	85.30	240.00	21.63	13.35	5.75	3.60	2.40	
13	2.80	4.20	25.60	11.20	95.80	78.30	241.00	20.40	13.35	5.50	3.60	2.80	
14	2.80	4.20	21.63	15.10	111.90	69.90	239.00	18.84	13.35	5.25	3.60	3.40	
15	2.80	4.80	21.63	10.90	118.80	63.20	237.00	18.06	13.35	5.25	3.40	3.00	
16	2.80	6.25	17.28	8.00	122.80	52.40	266.20	18.06	13.00	5.25	3.40	3.00	
17	2.80	4.80	14.05	7.00	123.60	39.35	294.20	18.06	12.10	5.00	3.00	2.80	
18	2.80	7.25	11.20	6.75	148.90	34.95	278.60	17.67	12.10	4.80	3.00	2.80	
19	3.00	5.50	9.25	7.00	157.90	31.65	246.40	17.67	12.10	4.80	3.00	2.80	
20	3.00	5.00	10.90	6.25	143.50	34.40	222.00	17.67	11.80	5.00	3.00	2.80	
21	3.00	4.80	23.68	5.25	148.90	33.30	185.80	17.28	11.20	4.80	3.00	2.40	
22	3.00	4.60	22.86	5.75	156.10	29.45	143.50	16.89	10.90	5.00	3.00	2.60	
23	3.00	4.20	18.84	8.75	165.10	35.50	100.00	16.89	10.60	4.80	3.00	2.60	
24	2.80	4.20	18.06	9.75	166.00	47.00	72.00	17.28	10.30	4.60	3.00	2.60	
25	2.60	4.40	18.45	9.25	177.70	67.80	55.40	16.89	10.30	4.40	3.00	2.60	
26	2.80	4.40	18.84	9.25	187.60	94.40	47.00	17.28	10.30	4.20	3.00	2.80	
27	2.80	4.40	20.81	10.60	208.00	114.00	40.45	17.28	10.00	4.40	3.00	2.60	
28	2.80	4.20	22.04	9.00	211.00	123.60	36.05	17.28	9.75	4.20	3.00	2.60	
29	2.80	3.80	20.81	10.60	204.00	144.40	34.95	17.28	9.25	4.20		2.60	
30	2.80	3.80	18.45	23.27	198.40	164.20	34.95	16.89	9.25	3.80		2.40	
31		4.40		29.45	193.00		36.60		8.75	3.80		2.20	
Total	90.00	122.60	493.63	325.32	3643.37	2643.20	5380.50	701.62	393.69	175.05	93.40	84.60	14146.98 CMSDAY
Mean	3.00	3.95	16.45	10.49	117.53	88.11	173.56	23.39	12.70	5.65	3.34	2.73	38.76 CMS
Max	4.00	7.25	33.85	29.45	211.00	176.80	294.20	39.35	16.89	8.50	3.80	3.40	294.20 CMS
Min	2.60	2.40	3.60	5.25	21.63	29.45	34.95	16.89	8.75	3.80	3.00	2.20	2.20 CMS
Runoff	7.776	10.593	42.650	28.108	314.787	228.372	464.875	60.620	34.015	15.124	8.070	7.309	1222.299 MCM

Momentary Peak 295.40 CMS, at 12.17 M (MSL), at 12.00 Hours, on Oct 17, 1992

Runoff Yield 2.70 Liters/Second/Square KM, Momentary Peak Yield 20.55 Liters/Second/Square KM

WATER YEAR 1992

PASAK RIVER BASIN

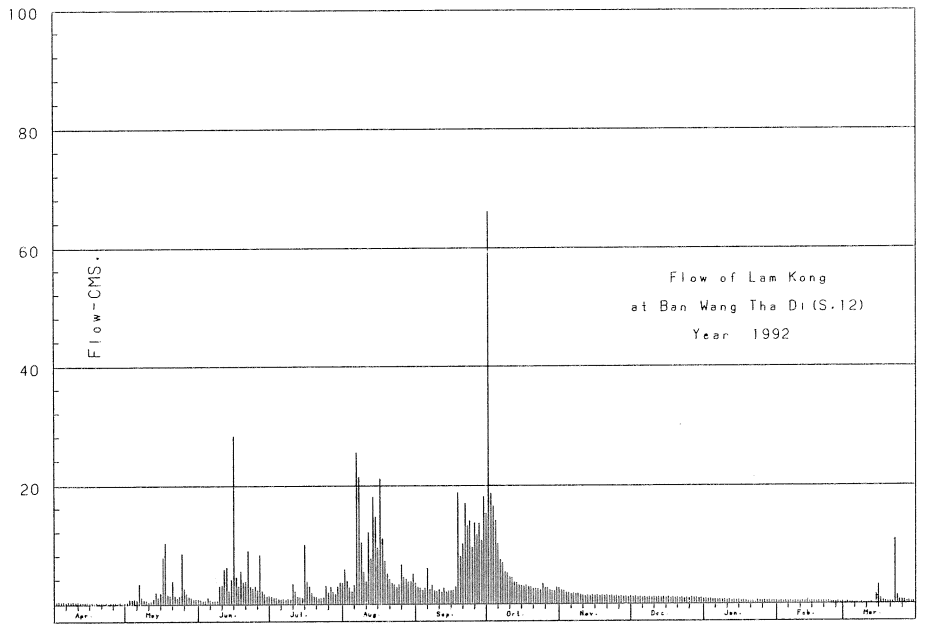
Lam Kong at Ban Wang Tha Di, Phetchabun (S.12)

Location	Lat. 15°-59'-50" N., Long. 101°-14'-28" E., on left bank at Ban Wang Tha Di, Amphoe Nong Phai, Phetchabun.
Drainage Area	471 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank along the gage line.
Elevation	+5.792 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 127 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	0.47	0.54	0.65	1.15	0.88	3.09	0.82	0.65	0.58	0.50	0.46	
2	0.49	0.56	0.53	0.63	1.00	0.85	1.82	0.79	0.65	0.58	0.50	0.46	
3	0.49	0.57	0.51	0.61	0.86	0.82	1.73	0.77	0.64	0.57	0.50	0.46	
4	0.49	0.56	0.64	0.59	0.79	0.85	1.62	0.75	0.64	0.56	0.50	0.45	
5	0.48	0.55	0.54	0.58	0.91	1.17	1.41	0.74	0.63	0.55	0.50	0.45	
6	0.48	0.95	0.52	0.57	2.08	0.84	1.26	0.74	0.63	0.55	0.50	0.44	
7	0.48	0.62	0.51	0.57	1.93	0.91	1.22	0.74	0.63	0.55	0.50	0.44	
8	0.48	0.56	0.54	0.58	1.43	0.81	1.13	0.73	0.63	0.55	0.50	0.44	
9	0.48	0.52	0.89	0.58	1.12	0.78	1.11	0.72	0.63	0.55	0.50	0.44	
10	0.47	0.49	0.92	0.95	0.99	0.82	1.06	0.69	0.63	0.54	0.50	0.44	
11	0.47	0.48	1.15	0.78	1.52	0.78	1.04	0.69	0.63	0.54	0.50	0.44	
12	0.47	0.60	1.18	0.67	1.27	0.85	0.98	0.69	0.63	0.53	0.50	0.44	
13	0.46	0.77	0.79	0.63	1.79	0.78	0.95	0.69	0.63	0.53	0.50	0.44	
14	0.46	0.62	1.01	0.63	1.65	0.79	0.92	0.70	0.63	0.53	0.50	0.72	
15	0.46	0.74	2.18	1.41	1.37	0.81	0.90	0.70	0.63	0.53	0.50	0.91	
16	0.45	1.28	1.06	0.98	1.92	0.80	0.90	0.70	0.63	0.52	0.49	0.57	
17	0.45	1.42	0.89	0.90	1.47	0.89	0.91	0.69	0.62	0.52	0.49	0.52	
18	0.45	0.72	1.13	0.75	1.24	1.82	0.89	0.69	0.62	0.52	0.49	0.48	
19	0.45	0.68	0.98	0.68	1.11	1.29	0.87	0.69	0.62	0.52	0.49	0.47	
20	0.44	1.00	0.98	0.64	1.02	1.41	0.85	0.69	0.62	0.52	0.49	0.46	
21	0.44	0.70	1.35	0.61	0.96	1.75	0.84	0.69	0.61	0.52	0.49	0.45	
22	0.44	0.62	0.90	0.60	0.92	1.58	0.83	0.68	0.61	0.52	0.49	1.46	
23	0.44	0.66	0.84	0.65	0.88	1.61	0.82	0.67	0.60	0.52	0.48	0.70	
24	0.44	1.32	0.90	0.90	0.92	1.38	0.95	0.67	0.60	0.52	0.47	0.58	
25	0.45	0.85	0.81	0.77	1.21	1.60	0.87	0.66	0.61	0.52	0.47	0.55	
26	0.45	0.73	1.30	0.89	1.05	1.50	0.85	0.66	0.63	0.51	0.47	0.52	
27	0.45	0.67	0.80	0.77	1.03	1.59	0.82	0.66	0.62	0.51	0.46	0.50	
28	0.45	0.61	0.72	0.74	0.97	1.45	0.79	0.65	0.61	0.51	0.46	0.49	
29	0.44	0.58	0.68	0.88	0.99	1.79	0.80	0.65	0.59	0.51		0.48	
30	0.43	0.57	0.67	0.97	1.10	1.67	0.86	0.65	0.59	0.50		0.47	
31		0.58		0.95	0.95		0.85		0.58	0.50		0.46	
Mean	0.46	0.71	0.88	0.75	1.21	1.16	1.09	0.70	0.62	0.53	0.49	0.54	
Max	0.49	1.42	2.18	1.41	2.08	1.82	3.09	0.82	0.65	0.58	0.50	1.46	3.09
Min	0.43	0.47	0.51	0.57	0.79	0.78	0.79	0.65	0.58	0.50	0.46	0.44	0.43

Annual Max Momentary Gage Height 3.09 M (A.D), at 6.00 Hours, on Jun 15, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.03 M (A.D)
Left Bank Elevation 6.24 M (A.D)
Right Bank Elevation 5.18 M (A.D), Drainage Area 471 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.38	0.70	1.25	5.85	2.94	66.11	2.46	1.25	0.90	0.50	0.34	
2	0.46	0.80	0.65	1.15	4.00	2.70	18.78	2.22	1.25	0.90	0.50	0.34	
3	0.46	0.85	0.55	1.05	2.78	2.46	16.62	2.06	1.20	0.85	0.50	0.34	
4	0.46	0.80	1.20	0.95	2.22	2.70	14.22	1.90	1.20	0.80	0.50	0.30	
5	0.42	0.75	0.70	0.90	3.19	6.15	10.17	1.82	1.15	0.75	0.50	0.30	
6	0.42	3.55	0.60	0.85	25.56	2.62	7.62	1.82	1.15	0.75	0.50	0.26	
7	0.42	1.10	0.55	0.85	21.51	3.19	6.94	1.82	1.15	0.75	0.50	0.26	
8	0.42	0.80	0.70	0.90	10.51	2.38	5.55	1.74	1.15	0.75	0.50	0.26	
9	0.42	0.60	3.02	0.90	5.40	2.14	5.25	1.66	1.15	0.75	0.50	0.26	
10	0.38	0.46	3.28	3.55	3.91	2.46	4.66	1.45	1.15	0.70	0.50	0.26	
11	0.38	0.42	5.85	2.14	12.12	2.14	4.44	1.45	1.15	0.70	0.50	0.26	
12	0.38	1.00	6.30	1.35	7.79	2.70	3.82	1.45	1.15	0.65	0.50	0.26	
13	0.34	2.06	2.22	1.15	18.06	2.14	3.55	1.45	1.15	0.65	0.50	0.26	
14	0.34	1.10	4.11	1.15	14.85	2.22	3.28	1.50	1.15	0.65	0.50	1.66	
15	0.34	1.82	28.42	10.17	9.49	2.38	3.10	1.50	1.15	0.65	0.50	3.19	
16	0.30	7.96	4.66	3.82	21.24	2.30	3.10	1.50	1.15	0.60	0.46	0.85	
17	0.30	10.34	3.02	3.10	11.19	3.02	3.19	1.45	1.10	0.60	0.46	0.60	
18	0.30	1.66	5.55	1.90	7.28	18.78	3.02	1.45	1.10	0.60	0.46	0.42	
19	0.30	1.40	3.82	1.40	5.25	8.13	2.86	1.45	1.10	0.60	0.46	0.38	
20	0.26	4.00	3.82	1.20	4.22	10.17	2.70	1.45	1.10	0.60	0.46	0.34	
21	0.26	1.50	9.15	1.05	3.64	17.10	2.62	1.45	1.05	0.60	0.46	0.30	
22	0.26	1.10	3.10	1.00	3.28	13.38	2.54	1.40	1.05	0.60	0.46	11.02	
23	0.26	1.30	2.62	1.25	2.94	14.01	2.46	1.35	1.00	0.60	0.42	1.50	
24	0.26	8.64	3.10	3.10	3.28	9.66	3.55	1.35	1.00	0.60	0.38	0.90	
25	0.30	2.70	2.38	2.06	6.77	13.80	2.86	1.30	1.05	0.60	0.38	0.75	
26	0.30	1.74	8.30	3.02	4.55	11.70	2.70	1.30	1.15	0.55	0.38	0.60	
27	0.30	1.35	2.30	2.06	4.33	13.59	2.46	1.30	1.10	0.55	0.34	0.50	
28	0.30	1.05	1.66	1.82	3.73	10.85	2.22	1.25	1.05	0.55	0.34	0.46	
29	0.26	0.90	1.40	2.94	3.91	18.06	2.30	1.25	0.95	0.55		0.42	
30	0.22	0.85	1.35	3.73	5.10	15.27	2.78	1.25	0.95	0.50		0.38	
31		0.90		3.55	3.55		2.70		0.90	0.50		0.34	
Total	10.28	63.88	115.08	65.31	241.50	221.14	218.17	46.80	34.35	20.40	12.96	28.31	1078.18 CMSDAY
Mean	0.34	2.06	3.84	2.11	7.79	7.37	7.04	1.56	1.11	0.66	0.46	0.91	2.95 CMS
Max	0.46	10.34	28.42	10.17	25.56	18.78	66.11	2.46	1.25	0.90	0.50	11.02	66.11 CMS
Min	0.22	0.38	0.55	0.85	2.22	2.14	2.22	1.25	0.90	0.50	0.34	0.26	0.22 CMS
Runoff	0.888	5.519	9.943	5.643	20.866	19.106	18.850	4.044	2.968	1.763	1.120	2.446	93.155 MCM

Momentary Peak 66.11 CMS, at 3.09 M (A.D), at 6.00 Hours, on Jun 15, 1992

Runoff Yield 6.27 Liters/Second/Square KM, Momentary Peak Yield 140.36 Liters/Second/Square KM

WATER YEAR 1992

PASAK RIVER BASIN

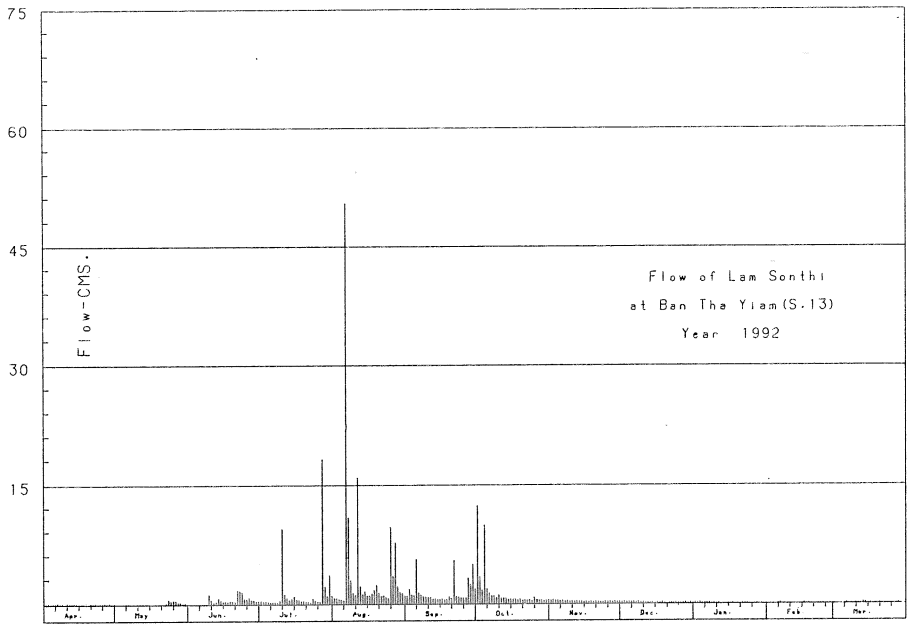
Lam Sonthi at Ban Tha Yiam, Lop Buri (S.13)

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. Stage-discharge relation defined by 30 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.13	0.12	0.26	0.38	0.42	2.06	0.30	0.22	0.20	0.15	0.15	
2	0.18	0.13	0.10	0.25	0.36	0.61	0.89	0.30	0.22	0.20	0.15	0.15	
3	0.18	0.13	0.10	0.24	0.34	0.47	0.58	0.29	0.22	0.20	0.15	0.15	
4	0.18	0.13	0.10	0.24	0.31	0.43	1.77	0.28	0.22	0.19	0.15	0.15	
5	0.18	0.13	0.10	0.23	0.30	1.25	0.63	0.27	0.22	0.19	0.15	0.15	
6	0.18	0.13	0.10	0.23	5.17	0.53	0.50	0.26	0.22	0.18	0.15	0.15	
7	0.18	0.13	0.10	0.21	1.90	0.45	0.45	0.26	0.22	0.18	0.15	0.15	
8	0.17	0.13	0.18	0.22	0.81	0.42	0.42	0.26	0.22	0.17	0.15	0.15	
9	0.17	0.13	0.49	0.27	0.52	0.39	0.39	0.25	0.21	0.17	0.15	0.15	
10	0.17	0.13	0.31	1.73	0.44	0.40	0.44	0.24	0.20	0.17	0.15	0.15	
11	0.17	0.13	0.26	0.49	2.41	0.38	0.37	0.24	0.20	0.16	0.15	0.15	
12	0.17	0.13	0.25	0.37	0.69	0.35	0.37	0.24	0.20	0.16	0.15	0.15	
13	0.17	0.13	0.37	0.32	0.48	0.33	0.35	0.24	0.20	0.16	0.15	0.22	
14	0.17	0.13	0.29	0.34	0.54	0.33	0.33	0.24	0.19	0.15	0.15	0.19	
15	0.17	0.13	0.26	0.43	0.45	0.33	0.32	0.23	0.19	0.15	0.15	0.17	
16	0.17	0.13	0.24	0.32	0.43	0.33	0.33	0.23	0.19	0.15	0.15	0.16	
17	0.17	0.13	0.23	0.29	0.51	0.32	0.32	0.23	0.19	0.15	0.15	0.15	
18	0.17	0.13	0.29	0.27	0.58	0.31	0.31	0.23	0.19	0.15	0.15	0.15	
19	0.17	0.13	0.26	0.26	0.72	0.42	0.32	0.23	0.19	0.15	0.15	0.15	
20	0.17	0.13	0.25	0.24	0.51	0.35	0.30	0.23	0.19	0.15	0.15	0.15	
21	0.17	0.13	0.60	0.23	0.43	1.23	0.30	0.23	0.19	0.15	0.15	0.15	
22	0.17	0.21	0.59	0.22	0.45	0.43	0.30	0.23	0.19	0.15	0.15	0.15	
23	0.17	0.34	0.53	0.37	0.38	0.39	0.30	0.23	0.19	0.15	0.15	0.15	
24	0.17	0.26	0.36	0.28	0.37	0.38	0.29	0.23	0.19	0.15	0.15	0.15	
25	0.17	0.32	0.33	0.25	1.74	0.36	0.38	0.23	0.19	0.15	0.15	0.15	
26	0.17	0.28	0.37	0.23	0.93	0.37	0.32	0.23	0.19	0.15	0.15	0.15	
27	0.17	0.23	0.32	2.65	1.51	0.88	0.30	0.23	0.18	0.15	0.15	0.15	
28	0.17	0.20	0.29	0.69	0.67	0.72	0.28	0.23	0.18	0.15	0.15	0.15	
29	0.17	0.19	0.27	0.44	0.54	1.17	0.28	0.23	0.18	0.15		0.15	
30	0.17	0.17	0.26	0.94	0.49	0.61	0.28	0.22	0.18	0.15		0.15	
31		0.15		0.43	0.44		0.29		0.18	0.15		0.15	
Mean	0.17	0.16	0.28	0.45	0.83	0.51	0.48	0.24	0.20	0.16	0.15	0.15	
Max	0.18	0.34	0.60	2.65	5.17	1.25	2.06	0.30	0.22	0.20	0.15	0.22	5.17
Min	0.17	0.13	0.10	0.21	0.30	0.31	0.28	0.22	0.18	0.15	0.15	0.15	0.10

Annual Max Momentary Gage Height 5.68 M (A.D), at 18.00 Hours, on Aug 6, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.10 M (A.D)
Left Bank Elevation 8.84 M (A.D)
Right Bank Elevation 8.29 M (A.D), Drainage Area 359 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.16	0.06	0.04	0.38	0.82	0.99	12.49	0.50	0.26	0.20	0.10	0.10	
2	0.16	0.06	0.00	0.35	0.74	1.85	3.37	0.50	0.26	0.20	0.10	0.10	
3	0.16	0.06	0.00	0.32	0.66	1.21	1.71	0.47	0.26	0.20	0.10	0.10	
4	0.16	0.06	0.00	0.32	0.54	1.03	9.94	0.44	0.26	0.18	0.10	0.10	
5	0.16	0.06	0.00	0.29	0.50	5.71	1.96	0.41	0.26	0.18	0.10	0.10	
6	0.16	0.06	0.00	0.29	50.55	1.48	1.35	0.38	0.26	0.16	0.10	0.10	
7	0.16	0.06	0.00	0.23	11.00	1.12	1.12	0.38	0.26	0.16	0.10	0.10	
8	0.14	0.06	0.16	0.26	2.93	0.99	0.99	0.38	0.26	0.14	0.10	0.10	
9	0.14	0.06	1.30	0.41	1.44	0.86	0.86	0.35	0.23	0.14	0.10	0.10	
10	0.14	0.06	0.54	9.62	1.08	0.90	1.08	0.32	0.20	0.14	0.10	0.10	
11	0.14	0.06	0.38	1.30	15.94	0.82	0.78	0.32	0.20	0.12	0.10	0.10	
12	0.14	0.06	0.35	0.78	2.29	0.70	0.78	0.32	0.20	0.12	0.10	0.10	
13	0.14	0.06	0.78	0.58	1.26	0.62	0.70	0.32	0.20	0.12	0.10	0.26	
14	0.14	0.06	0.47	0.66	1.53	0.62	0.62	0.32	0.18	0.10	0.10	0.18	
15	0.14	0.06	0.38	1.03	1.12	0.62	0.58	0.29	0.18	0.10	0.10	0.14	
16	0.14	0.06	0.32	0.58	1.03	0.62	0.62	0.29	0.18	0.10	0.10	0.12	
17	0.14	0.06	0.29	0.47	1.39	0.58	0.58	0.29	0.18	0.10	0.10	0.10	
18	0.14	0.06	0.47	0.41	1.71	0.54	0.54	0.29	0.18	0.10	0.10	0.10	
19	0.14	0.06	0.38	0.38	2.45	0.99	0.58	0.29	0.18	0.10	0.10	0.10	
20	0.14	0.06	0.35	0.32	1.39	0.70	0.50	0.29	0.18	0.10	0.10	0.10	
21	0.14	0.06	1.80	0.29	1.03	5.54	0.50	0.29	0.18	0.10	0.10	0.10	
22	0.14	0.23	1.75	0.26	1.12	1.03	0.50	0.29	0.18	0.10	0.10	0.10	
23	0.14	0.66	1.48	0.78	0.82	0.86	0.50	0.29	0.18	0.10	0.10	0.10	
24	0.14	0.38	0.74	0.44	0.78	0.82	0.47	0.29	0.18	0.10	0.10	0.10	
25	0.14	0.58	0.62	0.35	9.70	0.74	0.82	0.29	0.18	0.10	0.10	0.10	
26	0.14	0.44	0.78	0.29	3.58	0.78	0.58	0.29	0.18	0.10	0.10	0.10	
27	0.14	0.29	0.58	18.38	7.82	3.31	0.50	0.29	0.16	0.10	0.10	0.10	
28	0.14	0.20	0.47	2.29	2.18	2.45	0.44	0.29	0.16	0.10	0.10	0.10	
29	0.14	0.18	0.41	1.08	1.53	5.06	0.44	0.29	0.16	0.10		0.10	
30	0.14	0.14	0.38	3.64	1.30	1.85	0.44	0.26	0.16	0.10		0.10	
31		0.10		1.03	1.08		0.47		0.16	0.10		0.10	
Total	4.34	4.46	15.22	47.81	131.31	45.39	46.81	10.02	6.25	3.86	2.80	3.40	321.67 CMSDAY
Mean	0.14	0.14	0.51	1.54	4.24	1.51	1.51	0.33	0.20	0.12	0.10	0.11	0.88 CMS
Max	0.16	0.66	1.80	18.38	50.55	5.71	12.49	0.50	0.26	0.20	0.10	0.26	50.55 CMS
Min	0.14	0.06	0.00	0.23	0.50	0.54	0.44	0.26	0.16	0.10	0.10	0.10	0.00 CMS
Runoff	0.375	0.385	1.315	4.131	11.345	3.922	4.044	0.866	0.540	0.334	0.242	0.294	27.792 MCM

Momentary Peak 58.20 CMS, at 5.68 M (A.D), at 18.00 Hours, on Aug 6, 1992
Runoff Yield 2.45 Liters/Second/Square KM, Momentary Peak Yield 162.12 Liters/Second/Square KM

WATER YEAR 1992

PASAK RIVER BASIN

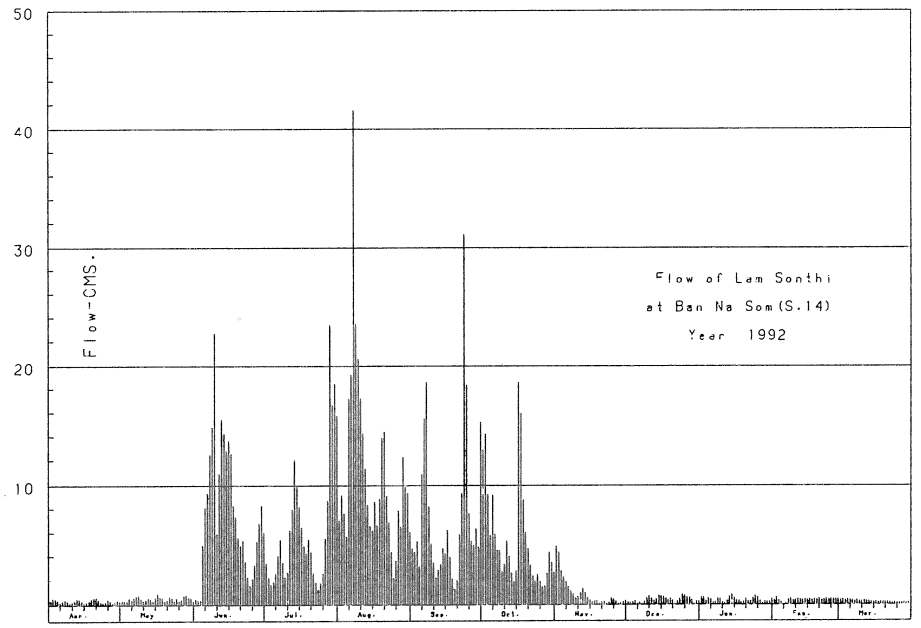
Lam Sonthi at Ban Na Som, Lop Buri (S.14)

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	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	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 29 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.27	1.25	1.30	2.05	2.53	2.22	3.24	2.25	1.22	1.38	1.27	1.28	
2	1.33	1.23	1.25	1.81	2.79	2.18	3.39	2.19	1.18	1.35	1.36	1.28	
3	1.32	1.24	1.27	1.66	2.61	2.31	2.80	1.94	1.21	1.25	1.27	1.27	
4	1.26	1.32	2.26	1.73	2.37	2.01	2.38	1.81	1.23	1.32	1.20	1.28	
5	1.19	1.28	2.67	1.89	3.71	3.01	2.80	1.73	1.15	1.30	1.13	1.28	
6	1.23	1.34	2.81	2.14	3.90	3.53	2.39	1.62	1.18	1.19	1.14	1.25	
7	1.28	1.40	3.20	2.33	5.64	3.84	2.21	1.52	1.14	1.20	1.30	1.24	
8	1.23	1.41	3.45	2.07	4.28	2.68	2.20	1.44	1.23	1.32	1.31	1.26	
9	1.18	1.32	4.21	1.81	4.02	2.28	1.93	1.34	1.34	1.30	1.27	1.24	
10	1.19	1.24	2.40	1.92	3.71	2.06	2.04	1.37	1.39	1.21	1.27	1.22	
11	1.25	1.28	3.01	2.43	3.39	1.81	2.31	1.49	1.34	1.15	1.30	1.26	
12	1.32	1.35	3.52	2.65	3.07	1.95	2.14	1.58	1.25	1.26	1.30	1.24	
13	1.29	1.29	3.39	3.15	2.69	2.05	1.90	1.49	1.29	1.37	1.27	1.22	
14	1.23	1.24	3.23	2.90	2.48	2.23	1.73	1.35	1.42	1.45	1.30	1.20	
15	1.16	1.34	3.32	2.67	2.43	2.17	1.93	1.27	1.39	1.34	1.29	1.21	
16	1.19	1.45	3.21	2.46	2.72	2.43	3.84	1.19	1.37	1.24	1.29	1.21	
17	1.25	1.38	2.69	2.26	2.48	2.13	3.58	1.25	1.34	1.26	1.28	1.20	
18	1.30	1.33	2.57	2.17	2.76	1.78	2.75	1.23	1.26	1.17	1.29	1.20	
19	1.36	1.24	2.35	2.33	3.35	1.58	2.41	1.16	1.33	1.22	1.29	1.21	
20	1.35	1.26	2.26	2.19	3.41	1.75	2.23	1.20	1.25	1.30	1.31	1.19	
21	1.28	1.37	2.32	1.89	2.79	2.39	2.03	1.23	1.15	1.22	1.28	1.19	
22	1.22	1.34	2.08	1.71	2.51	2.81	1.84	1.15	1.23	1.24	1.30	1.20	
23	1.16	1.25	1.81	1.56	2.19	4.89	1.73	1.20	1.31	1.34	1.31	1.18	
24	1.21	1.32	1.65	1.69	1.79	3.82	1.86	1.33	1.45	1.40	1.30	1.18	
25	1.28	1.25	1.79	1.89	2.08	2.61	1.73	1.29	1.41	1.36	1.30	1.17	
26	1.23	1.28	2.03	2.34	2.63	2.31	1.61	1.23	1.35	1.25	1.30	1.17	
27	1.17	1.42	2.31	2.74	2.47	2.26	1.64	1.14	1.36	1.17	1.30	1.18	
28	1.19	1.42	2.50	4.27	3.18	2.45	1.89	1.16	1.27	1.24	1.29	1.18	
29	1.25	1.36	2.69	3.65	2.88	2.25	2.18	1.22	1.15	1.21		1.17	
30	1.22	1.33	2.41	3.83	2.82	3.49	2.07	1.25	1.23	1.23		1.16	
31		1.23		3.55	2.41		1.90		1.22	1.30		1.16	
Mean	1.25	1.31	2.53	2.38	2.97	2.51	2.28	1.42	1.28	1.28	1.28	1.22	
Max	1.36	1.45	4.21	4.27	5.64	4.89	3.84	2.25	1.45	1.45	1.36	1.28	5.64
Min	1.16	1.23	1.25	1.56	1.79	1.58	1.61	1.14	1.14	1.15	1.13	1.16	1.13

Annual Max Momentary Gage Height 5.73 M (A.D), at 18.00 Hours, on Aug 7, 1992
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 11.54 M (A.D), Drainage Area 1247 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.32	0.45	3.45	7.06	4.68	12.98	4.90	0.25	0.65	0.37	0.40	
2	0.53	0.27	0.32	2.29	9.18	4.39	14.36	4.46	0.16	0.58	0.60	0.40	
3	0.50	0.30	0.37	1.65	7.71	5.34	9.26	2.85	0.22	0.32	0.37	0.37	
4	0.35	0.50	4.97	1.95	5.78	3.17	5.85	2.29	0.27	0.50	0.20	0.40	
5	0.18	0.40	8.20	2.63	17.30	10.97	9.26	1.95	0.10	0.45	0.06	0.40	
6	0.27	0.55	9.34	4.09	19.30	15.64	5.93	1.48	0.16	0.18	0.08	0.32	
7	0.40	0.70	12.62	5.49	41.62	18.67	4.61	1.12	0.08	0.20	0.45	0.30	
8	0.27	0.73	14.91	3.59	23.57	8.28	4.53	0.84	0.27	0.50	0.47	0.35	
9	0.16	0.50	22.79	2.29	20.65	5.12	2.80	0.55	0.55	0.45	0.37	0.30	
10	0.18	0.30	6.00	2.76	17.30	3.52	3.38	0.63	0.68	0.22	0.37	0.25	
11	0.32	0.40	10.97	6.24	14.36	2.29	5.34	1.01	0.55	0.10	0.45	0.35	
12	0.50	0.58	15.55	8.04	11.46	2.89	4.09	1.33	0.32	0.35	0.45	0.30	
13	0.42	0.42	14.36	12.16	8.36	3.45	2.68	1.01	0.42	0.63	0.37	0.25	
14	0.27	0.30	12.89	10.07	6.65	4.75	1.95	0.58	0.77	0.88	0.45	0.20	
15	0.12	0.55	13.72	8.20	6.24	4.31	2.80	0.37	0.68	0.55	0.42	0.22	
16	0.18	0.88	12.71	6.49	8.61	6.24	18.67	0.18	0.63	0.30	0.42	0.22	
17	0.32	0.65	8.36	4.97	6.65	4.02	16.10	0.32	0.55	0.35	0.40	0.20	
18	0.45	0.53	7.38	4.31	8.93	2.16	8.85	0.27	0.35	0.14	0.42	0.20	
19	0.60	0.30	5.63	5.49	13.99	1.33	6.08	0.12	0.53	0.25	0.42	0.22	
20	0.58	0.35	4.97	4.46	14.54	2.04	4.75	0.20	0.32	0.45	0.47	0.18	
21	0.40	0.63	5.41	2.63	9.18	5.93	3.31	0.27	0.10	0.25	0.40	0.18	
22	0.25	0.55	3.66	1.87	6.90	9.34	2.42	0.10	0.27	0.30	0.45	0.20	
23	0.12	0.32	2.29	1.26	4.46	31.09	1.95	0.20	0.47	0.55	0.47	0.16	
24	0.22	0.50	1.61	1.78	2.21	18.46	2.51	0.53	0.88	0.70	0.45	0.16	
25	0.40	0.32	2.21	2.63	3.66	7.71	1.95	0.42	0.73	0.60	0.45	0.14	
26	0.27	0.40	3.31	5.56	7.87	5.34	1.44	0.27	0.58	0.32	0.45	0.14	
27	0.14	0.77	5.34	8.77	6.57	4.97	1.57	0.08	0.60	0.14	0.45	0.16	
28	0.18	0.77	6.81	23.46	12.43	6.41	2.63	0.12	0.37	0.30	0.42	0.16	
29	0.32	0.60	8.36	16.74	9.91	4.90	4.39	0.25	0.10	0.22		0.14	
30	0.25	0.53	6.08	18.56	9.42	15.28	3.59	0.32	0.27	0.27		0.12	
31		0.27		15.82	6.08		2.68		0.25	0.45		0.12	
Total	9.52	15.19	231.59	199.70	347.95	222.69	172.71	29.02	12.48	12.15	11.15	7.51	1271.66 CMSDAY
Mean	0.32	0.49	7.72	6.44	11.22	7.42	5.57	0.97	0.40	0.39	0.40	0.24	3.48 CMS
Max	0.60	0.88	22.79	23.46	41.62	31.09	18.67	4.90	0.88	0.88	0.60	0.40	41.62 CMS
Min	0.12	0.27	0.32	1.26	2.21	1.33	1.44	0.08	0.08	0.10	0.06	0.12	0.06 CMS
Runoff	0.823	1.312	20.009	17.254	30.063	19.240	14.922	2.507	1.078	1.050	0.963	0.649	109.871 MCM

Momentary Peak 42.99 CMS, at 5.73 M (A.D), at 18.00 Hours, on Aug 7, 1992

Runoff Yield 2.79 Liters/Second/Square KM, Momentary Peak Yield 34.47 Liters/Second/Square KM

WATER YEAR 1992

PASAK RIVER BASIN

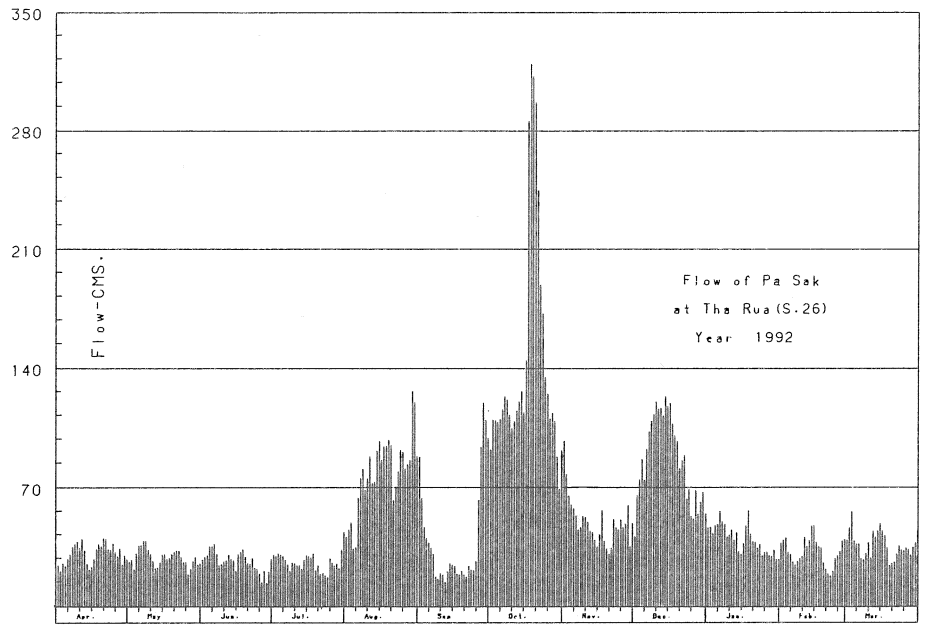
Pasak River at Tha Rua, Phra Nakhon Si Ayutthaya (S.26)

Location	Lat. 14°-33'-22" N., Long. 100°-43'-38" E., on right bank at the railway bridge, Amphoe Tha Rua, Phra Nakhon Si Ayutthaya.
Drainage Area	Flood plain.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 10 meters from the top staff gage.
Elevation	+9.710 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1985 to date.
Rated by Float	-
Rated by Current Meter	1985 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.72	2.77	2.80	2.87	3.08	3.83	3.89	3.96	3.09	3.17	3.02	3.05	
2	2.63	2.79	2.83	2.84	3.16	3.45	4.13	3.68	3.48	3.18	3.05	3.17	
3	2.74	2.66	2.86	2.89	3.22	3.18	4.13	3.48	3.63	3.12	3.08	3.33	
4	2.71	2.88	2.98	2.86	2.95	3.07	4.11	3.39	3.81	3.19	2.90	3.05	
5	2.81	3.00	2.99	2.85	2.98	3.03	4.14	3.36	3.63	3.21	2.88	3.01	
6	2.87	3.00	3.01	2.79	3.46	2.96	4.22	3.29	3.89	3.33	2.77	3.02	
7	2.98	3.05	2.88	2.73	3.65	2.88	4.32	3.15	4.04	3.23	2.72	2.81	
8	3.01	3.04	2.71	2.64	3.73	2.56	4.30	3.18	4.12	3.21	2.78	2.80	
9	3.04	2.94	2.73	2.75	3.53	2.52	4.17	3.28	4.18	3.09	2.81	2.88	
10	2.96	2.87	2.77	2.74	3.64	2.60	4.06	3.27	4.28	3.10	2.85	3.03	
11	3.06	2.78	2.78	2.72	3.83	2.58	4.12	3.23	4.22	3.15	3.08	2.83	
12	2.93	2.68	2.87	2.71	3.60	2.48	4.21	3.14	4.23	3.05	2.98	3.14	
13	2.74	2.68	2.80	2.67	3.61	2.63	4.28	3.13	4.17	3.13	3.05	3.08	
14	2.66	2.76	2.79	2.79	3.88	2.74	4.36	3.05	4.32	2.91	3.19	3.15	
15	2.69	2.87	2.64	2.86	3.96	2.72	4.19	2.98	4.24	2.88	3.19	3.21	
16	2.80	2.87	2.87	2.84	3.80	2.71	4.58	3.11	4.27	3.02	3.03	3.14	
17	2.95	2.80	2.91	2.83	3.91	2.60	6.12	3.34	4.10	3.19	2.99	3.10	
18	3.01	2.83	2.94	2.88	3.92	2.58	6.44	3.04	4.00	3.34	2.96	2.96	
19	2.99	2.87	2.84	2.65	3.97	2.64	6.37	2.95	3.96	3.11	2.76	2.72	
20	3.07	2.91	2.74	2.72	3.92	2.58	6.23	2.88	3.73	3.04	2.66	2.74	
21	3.06	2.92	2.73	2.59	3.43	2.55	5.72	2.96	3.80	3.03	2.59	2.77	
22	2.95	2.93	2.82	2.61	3.57	2.71	5.11	3.25	3.84	2.97	2.57	2.88	
23	2.93	2.83	2.68	2.57	3.71	2.65	4.92	3.18	3.45	3.01	2.64	2.99	
24	3.02	2.76	2.66	2.55	3.88	2.65	4.46	3.15	3.54	2.86	2.81	2.93	
25	2.90	2.76	2.60	2.82	3.87	2.78	4.34	3.25	3.28	2.90	2.86	2.93	
26	2.85	2.58	2.47	2.75	3.73	3.44	4.14	3.17	3.26	2.91	2.92	2.97	
27	2.95	2.67	2.64	2.71	3.77	3.91	4.19	3.21	3.53	2.86	3.04	2.94	
28	2.73	2.78	2.47	2.75	3.80	4.27	4.12	3.39	3.30	2.84	3.06	2.87	
29	2.85	2.83	2.62	2.67	4.36	4.13	3.83	2.98	3.42	2.94		2.97	
30	2.80	2.73	2.80	2.94	4.27	3.98	3.54	3.21	3.51	2.80		3.03	
31		2.74		3.13	3.83		3.88		3.31	2.81		3.13	
Mean	2.88	2.83	2.77	2.77	3.68	2.98	4.54	3.22	3.79	3.05	2.90	2.99	
Max	3.07	3.05	3.01	3.13	4.36	4.27	6.44	3.96	4.32	3.34	3.19	3.33	6.44
Min	2.63	2.58	2.47	2.55	2.95	2.48	3.54	2.88	3.09	2.80	2.57	2.72	2.47

Annual Max Momentary Gage Height 6.55 M (A.D), at 12.00 Hours, on Oct 18, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.10 M (A.D)
Left Bank Elevation 9.25 M (A.D)
Right Bank Elevation 9.46 M (A.D), Drainage Area Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.33	26.42	27.67	30.58	40.80	88.32	92.62	97.63	41.40	46.32	37.20	39.00	
2	20.58	27.25	28.92	29.33	45.70	63.58	109.82	77.77	65.43	46.93	39.00	46.32	
3	25.17	21.83	30.17	31.42	49.40	46.93	109.82	65.43	74.68	43.23	40.80	56.18	
4	23.92	31.00	35.17	30.17	33.92	40.20	108.38	59.88	86.88	47.55	31.83	39.00	
5	28.08	36.00	35.58	29.75	35.17	37.80	110.53	58.03	74.68	48.78	31.00	36.60	
6	30.58	36.00	36.60	27.25	64.20	34.33	116.27	53.72	92.62	56.18	26.42	37.20	
7	35.17	39.00	31.00	24.75	75.92	31.00	123.63	45.08	103.37	50.02	24.33	28.08	
8	36.60	38.40	23.92	21.00	81.15	17.67	122.00	46.93	109.10	48.78	26.83	27.67	
9	38.40	33.50	24.75	25.58	68.52	16.00	112.68	53.10	113.40	41.40	28.08	31.00	
10	34.33	30.58	26.42	25.17	75.30	19.33	104.80	52.48	120.57	42.00	29.75	37.80	
11	39.60	26.83	26.83	24.33	88.32	18.50	109.10	50.02	116.27	45.08	40.80	28.92	
12	33.08	22.67	30.58	23.92	72.83	14.33	115.55	44.47	116.98	39.00	35.17	44.47	
13	25.17	22.67	27.67	22.25	73.45	20.58	120.57	43.85	112.68	43.85	39.00	40.80	
14	21.83	26.00	27.25	27.25	91.90	25.17	126.89	39.00	123.63	32.25	47.55	45.08	
15	23.08	30.58	21.00	30.17	97.63	24.33	114.12	35.17	117.70	31.00	47.55	48.78	
16	27.67	30.58	30.58	29.33	86.17	23.92	144.80	42.62	119.85	37.20	37.80	44.47	
17	33.92	27.67	32.25	28.92	94.05	19.33	285.70	56.80	107.67	47.55	35.58	42.00	
18	36.60	28.92	33.50	31.00	94.77	18.50	319.53	38.40	100.50	56.80	34.33	34.33	
19	35.58	30.58	29.33	21.42	98.35	21.00	311.76	33.92	97.63	42.62	26.00	24.33	
20	40.20	32.25	25.17	24.33	94.77	18.50	296.88	31.00	81.15	38.40	21.83	25.17	
21	39.60	32.67	24.75	18.92	62.35	17.25	245.03	34.33	86.17	37.80	18.92	26.42	
22	33.92	33.08	28.50	19.75	70.98	23.92	189.06	51.25	89.03	34.75	18.08	31.00	
23	33.08	28.92	22.67	18.08	79.72	21.42	172.49	46.93	63.58	36.60	21.00	35.58	
24	37.20	26.00	21.83	17.25	91.90	21.42	135.03	45.08	69.13	30.17	28.08	33.08	
25	31.83	26.00	19.33	28.50	91.18	26.83	125.26	51.25	53.10	31.83	30.17	33.08	
26	29.75	18.50	13.92	25.58	81.15	62.97	110.53	46.32	51.87	32.25	32.67	34.75	
27	33.92	22.25	21.00	23.92	84.02	94.05	114.12	48.78	68.52	30.17	38.40	33.50	
28	24.75	26.83	13.92	25.58	86.17	119.85	109.10	59.88	54.33	29.33	39.60	30.58	
29	29.75	28.92	20.17	22.25	126.89	109.82	88.32	35.17	61.73	33.50		34.75	
30	27.67	24.75	27.67	33.50	119.85	99.07	69.13	48.78	67.28	27.67		37.80	
31		25.17		43.85	88.32		91.90		54.95	28.08		43.85	
Total	935.36	891.82	798.12	815.10	2444.85	1195.92	4505.42	1493.07	2695.88	1237.09	907.77	1131.59	19051.99 CMSDAY
Mean	31.18	28.77	26.60	26.29	78.87	39.86	145.34	49.77	86.96	39.91	32.42	36.50	52.20 CMS
Max	40.20	39.00	36.60	43.85	126.89	119.85	319.53	97.63	123.63	56.80	47.55	56.18	319.53 CMS
Min	20.58	18.50	13.92	17.25	33.92	14.33	69.13	31.00	41.40	27.67	18.08	24.33	13.92 CMS
Runoff	80.815	77.053	68.958	70.425	211.235	103.327	389.268	129.001	232.924	106.885	78.431	97.769	1646.092 MCM

Momentary Peak 331.73 CMS, at 6.55 M (A.D), at 12.00 Hours, on Oct 18, 1992

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

WATER YEAR 1992

PASAK RIVER BASIN

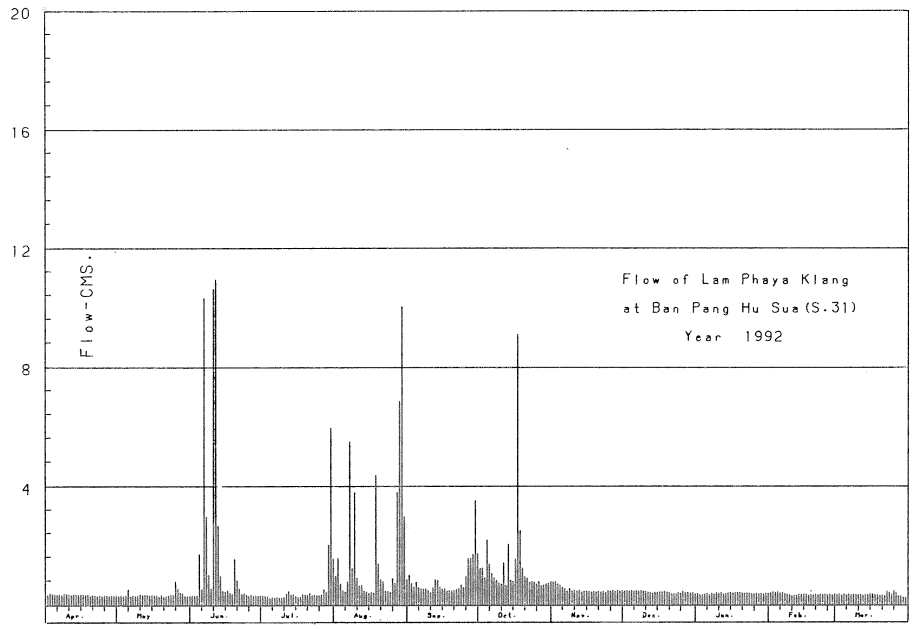
Lam Phaya Klang at Ban Pang Hu Sua, Lop Buri (S.31)

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 because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records poor. Stage-discharge relation defined by 23 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	0.23	0.23	0.23	0.38	0.39	0.41	0.35	0.30	0.26	0.27	0.25	
2	0.26	0.23	0.23	0.23	0.43	0.34	0.41	0.35	0.30	0.25	0.28	0.25	
3	0.26	0.23	0.23	0.22	0.34	0.32	0.37	0.34	0.30	0.24	0.28	0.25	
4	0.25	0.23	0.44	0.20	0.30	0.35	0.47	0.33	0.30	0.26	0.28	0.25	
5	0.25	0.31	0.31	0.21	0.29	0.32	0.42	0.32	0.30	0.26	0.27	0.25	
6	0.25	0.23	0.77	0.21	0.35	0.31	0.40	0.31	0.30	0.25	0.27	0.25	
7	0.25	0.23	0.51	0.21	0.60	0.31	0.37	0.30	0.30	0.26	0.26	0.25	
8	0.26	0.23	0.39	0.21	0.41	0.31	0.36	0.31	0.30	0.26	0.25	0.25	
9	0.26	0.23	0.31	0.20	0.54	0.30	0.34	0.30	0.30	0.27	0.25	0.25	
10	0.25	0.25	0.83	0.22	0.37	0.28	0.34	0.30	0.29	0.27	0.23	0.25	
11	0.25	0.25	0.89	0.26	0.33	0.32	0.42	0.30	0.29	0.27	0.23	0.24	
12	0.25	0.25	0.50	0.29	0.33	0.36	0.33	0.30	0.27	0.26	0.24	0.24	
13	0.25	0.24	0.38	0.25	0.30	0.36	0.46	0.29	0.27	0.26	0.25	0.24	
14	0.25	0.24	0.30	0.25	0.28	0.32	0.36	0.29	0.27	0.27	0.25	0.25	
15	0.25	0.24	0.28	0.23	0.27	0.31	0.35	0.30	0.28	0.27	0.25	0.25	
16	0.25	0.24	0.30	0.21	0.27	0.31	0.43	0.29	0.28	0.27	0.25	0.25	
17	0.25	0.23	0.27	0.22	0.27	0.30	0.68	0.29	0.29	0.27	0.24	0.25	
18	0.25	0.22	0.25	0.25	0.56	0.30	0.49	0.29	0.29	0.28	0.24	0.24	
19	0.23	0.24	0.43	0.25	0.42	0.30	0.41	0.29	0.29	0.27	0.25	0.24	
20	0.24	0.22	0.36	0.24	0.36	0.30	0.38	0.29	0.27	0.27	0.25	0.23	
21	0.23	0.22	0.31	0.26	0.35	0.31	0.37	0.29	0.26	0.26	0.25	0.23	
22	0.23	0.24	0.26	0.24	0.30	0.31	0.35	0.29	0.26	0.27	0.25	0.29	
23	0.23	0.24	0.26	0.24	0.29	0.33	0.35	0.28	0.26	0.26	0.25	0.28	
24	0.23	0.25	0.25	0.24	0.28	0.32	0.35	0.30	0.27	0.26	0.25	0.25	
25	0.23	0.35	0.23	0.24	0.37	0.38	0.34	0.30	0.27	0.26	0.25	0.30	
26	0.23	0.31	0.24	0.24	0.34	0.43	0.35	0.30	0.29	0.26	0.25	0.27	
27	0.23	0.28	0.23	0.31	0.54	0.43	0.33	0.30	0.28	0.26	0.25	0.23	
28	0.23	0.26	0.23	0.27	0.63	0.44	0.33	0.30	0.27	0.26	0.25	0.22	
29	0.23	0.23	0.23	0.46	0.71	0.53	0.34	0.30	0.27	0.26		0.21	
30	0.23	0.22	0.23	0.61	0.51	0.44	0.34	0.30	0.27	0.26		0.20	
31		0.23		0.43	0.36		0.35		0.26	0.26		0.21	
Mean	0.24	0.25	0.36	0.26	0.39	0.34	0.39	0.30	0.28	0.26	0.25	0.25	
Max	0.26	0.35	0.89	0.61	0.71	0.53	0.68	0.35	0.30	0.28	0.28	0.30	0.89
Min	0.23	0.22	0.23	0.20	0.27	0.28	0.33	0.28	0.26	0.24	0.23	0.20	0.20

Annual Max Momentary Gage Height 2.02 M (A.D), at 21.00 Hours, on Jun 6, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.41 M (A.D)
Left Bank Elevation 5.83 M (A.D)
Right Bank Elevation 6.07 M (A.D), Drainage Area 381 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.33	0.33	0.33	0.98	1.04	1.26	0.80	0.50	0.40	0.43	0.37	
2	0.40	0.33	0.33	0.33	1.58	0.74	1.26	0.80	0.50	0.37	0.45	0.37	
3	0.40	0.33	0.33	0.30	0.74	0.62	0.92	0.74	0.50	0.35	0.45	0.37	
4	0.37	0.33	1.74	0.25	0.50	0.80	2.22	0.68	0.50	0.40	0.45	0.37	
5	0.37	0.56	0.56	0.27	0.47	0.62	1.42	0.62	0.50	0.40	0.43	0.37	
6	0.37	0.33	10.35	0.27	0.80	0.56	1.10	0.56	0.50	0.37	0.43	0.37	
7	0.37	0.33	2.98	0.27	5.50	0.56	0.92	0.50	0.50	0.40	0.40	0.37	
8	0.40	0.33	1.04	0.27	1.26	0.56	0.86	0.56	0.50	0.40	0.37	0.37	
9	0.40	0.33	0.56	0.25	3.82	0.50	0.74	0.50	0.50	0.43	0.37	0.37	
10	0.37	0.37	10.65	0.30	0.92	0.45	0.74	0.50	0.47	0.43	0.33	0.37	
11	0.37	0.37	10.95	0.40	0.68	0.62	1.42	0.50	0.47	0.43	0.33	0.35	
12	0.37	0.37	2.70	0.47	0.68	0.86	0.68	0.50	0.43	0.40	0.35	0.35	
13	0.37	0.35	0.98	0.37	0.50	0.86	2.06	0.47	0.43	0.40	0.37	0.35	
14	0.37	0.35	0.50	0.37	0.45	0.62	0.86	0.47	0.43	0.43	0.37	0.37	
15	0.37	0.35	0.45	0.33	0.43	0.56	0.80	0.50	0.45	0.43	0.37	0.37	
16	0.37	0.35	0.50	0.27	0.43	0.56	1.58	0.47	0.45	0.43	0.37	0.37	
17	0.37	0.33	0.43	0.30	0.43	0.50	9.10	0.47	0.47	0.43	0.35	0.37	
18	0.37	0.30	0.37	0.37	4.38	0.50	2.54	0.47	0.47	0.45	0.35	0.35	
19	0.33	0.35	1.58	0.37	1.42	0.50	1.26	0.47	0.47	0.43	0.37	0.35	
20	0.35	0.30	0.86	0.35	0.86	0.50	0.98	0.47	0.43	0.43	0.37	0.33	
21	0.33	0.30	0.56	0.40	0.80	0.56	0.92	0.47	0.40	0.40	0.37	0.33	
22	0.33	0.35	0.40	0.35	0.50	0.56	0.80	0.47	0.40	0.43	0.37	0.47	
23	0.33	0.35	0.40	0.35	0.47	0.68	0.80	0.45	0.40	0.40	0.37	0.45	
24	0.33	0.37	0.37	0.35	0.45	0.62	0.80	0.50	0.43	0.40	0.37	0.37	
25	0.33	0.80	0.33	0.35	0.92	0.98	0.74	0.50	0.43	0.40	0.37	0.50	
26	0.33	0.56	0.35	0.35	0.74	1.58	0.80	0.50	0.47	0.40	0.37	0.43	
27	0.33	0.45	0.33	0.56	3.82	1.58	0.68	0.50	0.45	0.40	0.37	0.33	
28	0.33	0.40	0.33	0.43	6.85	1.74	0.68	0.50	0.43	0.40	0.37	0.30	
29	0.33	0.33	0.33	2.06	10.05	3.54	0.74	0.50	0.43	0.40		0.27	
30	0.33	0.30	0.33	5.95	2.98	1.74	0.74	0.50	0.43	0.40		0.25	
31		0.33		1.58	0.86		0.80		0.40	0.40		0.27	
Total	10.76	11.53	51.92	19.17	55.27	26.11	41.22	15.94	14.14	12.64	10.67	11.23	280.60 CMSDAY
Mean	0.36	0.37	1.73	0.62	1.78	0.87	1.33	0.53	0.46	0.41	0.38	0.36	0.77 CMS
Max	0.40	0.80	10.95	5.95	10.05	3.54	9.10	0.80	0.50	0.45	0.45	0.50	10.95 CMS
Min	0.33	0.30	0.33	0.25	0.43	0.45	0.68	0.45	0.40	0.35	0.33	0.25	0.25 CMS
Runoff	0.930	0.996	4.486	1.656	4.775	2.256	3.561	1.377	1.222	1.092	0.922	0.970	24.244 MCM

Momentary Peak 26.86 CMS, at 2.02 M (A.D), at 21.00 Hours, on Jun 6, 1992

Runoff Yield 2.02 Liters/Second/Square KM, Momentary Peak Yield 70.50 Liters/Second/Square KM

WATER YEAR 1992

SALAWIN RIVER BASIN

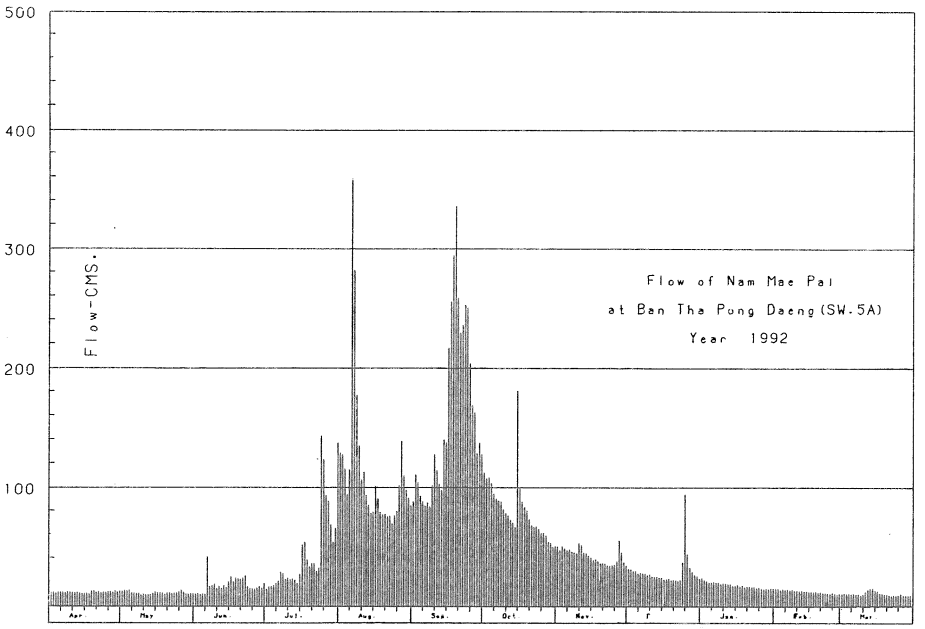
Nam Mae Pai at Ban Tha Pong Daeng, Mae Hong Son (SW.5A)

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 fair. Stage-discharge relation defined by 141 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.79	0.82	0.76	0.86	1.90	1.56	1.77	1.28	1.12	1.01	0.87	0.77	
2	0.79	0.83	0.76	0.89	1.89	1.76	1.73	1.26	1.11	0.99	0.86	0.77	
3	0.78	0.83	0.75	0.91	1.80	1.70	1.74	1.28	1.10	0.97	0.85	0.77	
4	0.79	0.83	0.75	0.91	1.62	1.61	1.70	1.27	1.09	0.96	0.85	0.76	
5	0.80	0.79	0.76	0.95	1.79	1.56	1.62	1.26	1.07	0.96	0.85	0.76	
6	0.79	0.77	1.22	0.97	3.52	1.53	1.59	1.26	1.07	0.96	0.84	0.76	
7	0.79	0.78	0.90	1.09	3.01	1.55	1.57	1.25	1.07	0.96	0.84	0.76	
8	0.80	0.76	0.92	1.06	2.27	1.52	1.56	1.24	1.06	0.95	0.84	0.75	
9	0.80	0.75	0.93	1.00	1.95	1.68	1.50	1.24	1.05	0.94	0.83	0.74	
10	0.78	0.75	0.87	1.01	1.72	1.89	1.48	1.30	1.05	0.94	0.82	0.76	
11	0.79	0.75	0.90	1.00	1.78	1.79	1.46	1.29	1.04	0.94	0.82	0.80	
12	0.80	0.75	0.88	1.00	1.61	1.69	1.44	1.24	1.03	0.94	0.82	0.85	
13	0.77	0.74	0.91	0.98	1.53	1.65	1.42	1.24	1.02	0.93	0.82	0.86	
14	0.77	0.78	0.89	0.95	1.48	1.99	1.40	1.22	1.02	0.92	0.81	0.87	
15	0.76	0.80	0.96	1.06	1.48	1.97	2.30	1.21	1.01	0.92	0.81	0.84	
16	0.77	0.78	1.02	1.29	1.68	2.55	1.67	1.20	1.01	0.92	0.80	0.81	
17	0.76	0.79	0.97	1.31	1.59	2.83	1.56	1.20	1.00	0.91	0.80	0.78	
18	0.81	0.77	1.01	1.20	1.48	3.09	1.52	1.19	1.00	0.91	0.80	0.76	
19	0.83	0.76	1.01	1.14	1.47	3.37	1.49	1.18	0.99	0.90	0.79	0.76	
20	0.80	0.78	0.99	1.16	1.47	2.85	1.44	1.17	0.98	0.90	0.79	0.74	
21	0.80	0.78	1.01	1.16	1.46	2.64	1.41	1.16	0.98	0.90	0.79	0.74	
22	0.79	0.77	1.04	1.10	1.46	2.69	1.40	1.15	0.98	0.90	0.78	0.73	
23	0.79	0.77	0.91	1.12	1.42	2.81	1.40	1.14	0.98	0.89	0.76	0.73	
24	0.80	0.79	0.86	2.01	1.46	2.79	1.39	1.15	1.18	0.88	0.77	0.73	
25	0.80	0.80	0.87	1.86	1.49	2.46	1.36	1.15	1.62	0.88	0.78	0.73	
26	0.80	0.84	0.85	1.61	1.68	2.21	1.36	1.18	1.23	0.87	0.76	0.75	
27	0.80	0.80	0.88	1.57	1.98	2.16	1.35	1.32	1.13	0.86	0.76	0.74	
28	0.82	0.75	0.90	1.41	1.75	1.90	1.31	1.24	1.08	0.86	0.76	0.72	
29	0.81	0.76	0.88	1.31	1.65	1.97	1.30	1.18	1.05	0.86		0.73	
30	0.81	0.76	0.94	1.39	1.59	1.89	1.28	1.14	1.03	0.86		0.72	
31		0.76		1.97	1.53		1.28		1.01	0.86		0.70	
Mean	0.79	0.78	0.91	1.20	1.76	2.12	1.51	1.22	1.07	0.92	0.81	0.76	
Max	0.83	0.84	1.22	2.01	3.52	3.37	2.30	1.32	1.62	1.01	0.87	0.87	3.52
Min	0.76	0.74	0.75	0.86	1.42	1.52	1.28	1.14	0.98	0.86	0.76	0.70	0.70

Annual Max Momentary Gage Height 3.85 M (A.D), at 22.00 Hours, on Aug 6, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.11 M (A.D)
Left Bank Elevation 7.82 M (A.D)
Right Bank Elevation 5.25 M (A.D), Drainage Area 4466 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.60	12.90	10.40	14.70	129.00	88.00	112.40	50.30	31.90	23.70	15.15	10.80	
2	11.60	13.35	10.40	16.05	127.70	111.20	107.60	47.60	30.95	22.35	14.70	10.80	
3	11.20	13.35	10.00	17.15	116.00	104.00	108.80	50.30	30.00	21.05	14.25	10.80	
4	11.60	13.35	10.00	17.15	94.40	93.20	104.00	48.95	29.30	20.40	14.25	10.40	
5	12.00	11.60	10.40	19.75	114.80	88.00	94.40	47.60	27.90	20.40	14.25	10.40	
6	11.60	10.80	42.20	21.05	359.00	85.00	91.00	47.60	27.90	20.40	13.80	10.40	
7	11.60	11.20	16.50	29.30	282.50	87.00	89.00	46.25	27.90	20.40	13.80	10.40	
8	12.00	10.40	17.80	27.20	177.80	84.00	88.00	44.90	27.20	19.75	13.80	10.00	
9	12.00	10.00	18.45	23.00	135.50	101.60	82.00	44.90	26.50	19.10	13.35	9.60	
10	11.20	10.00	15.15	23.70	106.40	127.70	79.00	53.00	26.50	19.10	12.90	10.40	
11	11.60	10.00	16.50	23.00	113.60	114.80	76.00	51.65	25.80	19.10	12.90	12.00	
12	12.00	10.00	15.60	23.00	93.20	102.80	73.00	44.90	25.10	19.10	12.90	14.25	
13	10.80	9.60	17.15	21.70	85.00	98.00	70.00	44.90	24.40	18.45	12.90	14.70	
14	10.80	11.20	16.05	19.75	79.00	140.70	67.00	42.20	24.40	17.80	12.45	15.15	
15	10.40	12.00	20.40	27.20	79.00	138.10	182.00	40.85	23.70	17.80	12.45	13.80	
16	10.80	11.20	24.40	51.65	101.60	217.00	100.40	39.50	23.70	17.80	12.00	12.45	
17	10.40	11.60	21.05	54.40	91.00	256.20	88.00	39.50	23.00	17.15	12.00	11.20	
18	12.45	10.80	23.70	39.50	79.00	294.50	84.00	38.55	23.00	17.15	12.00	10.40	
19	13.35	10.40	23.70	33.80	77.50	336.50	80.50	37.60	22.35	16.50	11.60	10.40	
20	12.00	11.20	22.35	35.70	77.50	259.00	73.00	36.65	21.70	16.50	11.60	9.60	
21	12.00	11.20	23.70	35.70	76.00	229.60	68.50	35.70	21.70	16.50	11.60	9.60	
22	11.60	10.80	25.80	30.00	76.00	236.60	67.00	34.75	21.70	16.50	11.20	9.20	
23	11.60	10.80	17.15	31.90	70.00	253.40	67.00	33.80	21.70	16.05	10.40	9.20	
24	12.00	11.60	14.70	143.30	76.00	250.60	65.60	34.75	37.60	15.60	10.80	9.20	
25	12.00	12.00	15.15	123.80	80.50	204.40	61.40	34.75	94.40	15.60	11.20	9.20	
26	12.00	13.80	14.25	93.20	101.60	169.40	61.40	37.60	43.55	15.15	10.40	10.00	
27	12.00	12.00	15.60	89.00	139.40	162.80	60.00	55.80	32.85	14.70	10.40	9.60	
28	12.90	10.00	16.50	68.50	110.00	129.00	54.40	44.90	28.60	14.70	10.40	8.80	
29	12.45	10.40	15.60	54.40	98.00	138.10	53.00	37.60	26.50	14.70		9.20	
30	12.45	10.40	19.10	65.60	91.00	127.70	50.30	33.80	25.10	14.70		8.80	
31		10.40		138.10	85.00		50.30		23.70	14.70		8.00	
Total	352.00	348.35	539.75	1412.25	3523.00	4828.90	2509.00	1281.15	900.60	552.90	349.45	328.75	16926.10 CMSDAY
Mean	11.73	11.24	17.99	45.56	113.65	160.96	80.94	42.71	29.05	17.84	12.48	10.60	46.37 CMS
Max	13.35	13.80	42.20	143.30	359.00	336.50	182.00	55.80	94.40	23.70	15.15	15.15	359.00 CMS
Min	10.40	9.60	10.00	14.70	70.00	84.00	50.30	33.80	21.70	14.70	10.40	8.00	8.00 CMS
Runoff	30.413	30.097	46.634	122.018	304.387	417.217	216.778	110.691	77.812	47.771	30.192	28.404	1462.415 MCM

Momentary Peak 410.00 CMS, at 3.85 M (A.D), at 22.00 Hours, on Aug 6, 1992

Runoff Yield 10.38 Liters/Second/Square KM, Momentary Peak Yield 91.80 Liters/Second/Square KM

WATER YEAR 1992

SALAWIN RIVER BASIN

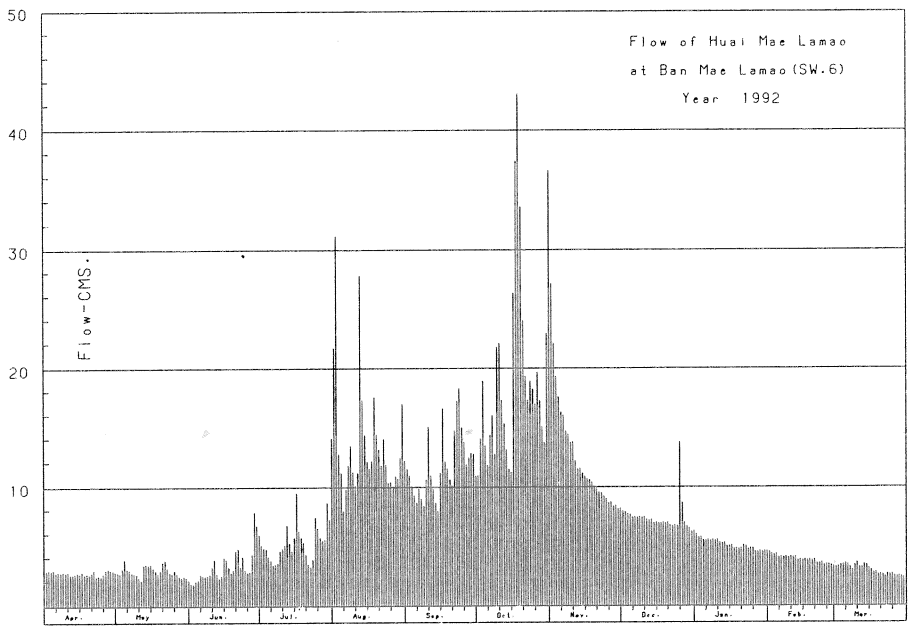
Huai Mae Lamao at Ban Mae Lamao, Tak (SW.6)

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 102 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.55	0.49	0.66	1.22	0.91	0.89	1.36	0.78	0.70	0.64	0.58	
2	0.56	0.54	0.49	0.65	1.46	0.89	0.99	1.23	0.78	0.69	0.63	0.58	
3	0.56	0.57	0.50	0.65	0.95	0.86	1.14	1.15	0.77	0.69	0.63	0.59	
4	0.56	0.61	0.51	0.62	0.90	0.83	0.97	1.10	0.77	0.68	0.63	0.59	
5	0.55	0.57	0.54	0.61	0.78	0.81	0.92	1.06	0.76	0.68	0.62	0.60	
6	0.55	0.56	0.53	0.59	0.85	0.85	1.00	1.05	0.76	0.68	0.62	0.59	
7	0.55	0.55	0.53	0.59	0.92	0.82	1.05	1.01	0.76	0.68	0.62	0.58	
8	0.55	0.54	0.53	0.60	0.97	0.80	0.95	1.00	0.76	0.68	0.62	0.56	
9	0.55	0.54	0.54	0.64	0.90	0.88	1.22	0.98	0.76	0.68	0.62	0.59	
10	0.55	0.52	0.58	0.65	0.86	1.02	1.23	0.98	0.76	0.68	0.62	0.60	
11	0.54	0.51	0.61	0.66	0.90	0.89	1.09	0.93	0.75	0.67	0.62	0.58	
12	0.54	0.59	0.54	0.73	1.38	0.85	1.03	0.91	0.75	0.67	0.62	0.58	
13	0.54	0.59	0.52	0.67	1.09	0.81	0.96	0.91	0.75	0.67	0.61	0.59	
14	0.55	0.59	0.53	0.64	1.00	0.78	0.91	0.90	0.74	0.66	0.61	0.59	
15	0.54	0.59	0.62	0.69	0.93	0.90	0.90	0.89	0.74	0.66	0.61	0.57	
16	0.55	0.57	0.61	0.84	0.91	1.07	1.34	0.88	0.74	0.66	0.61	0.56	
17	0.54	0.56	0.58	0.71	0.93	0.93	1.61	0.88	0.74	0.65	0.61	0.55	
18	0.54	0.54	0.55	0.69	1.10	0.91	1.73	0.87	0.74	0.65	0.61	0.55	
19	0.54	0.56	0.56	0.67	1.00	0.88	1.52	0.86	0.74	0.65	0.61	0.54	
20	0.55	0.60	0.64	0.63	0.96	0.86	1.28	0.85	0.74	0.65	0.61	0.54	
21	0.56	0.61	0.65	0.59	0.92	1.01	1.15	0.84	0.73	0.66	0.60	0.54	
22	0.53	0.57	0.58	0.58	0.99	1.09	1.09	0.84	0.73	0.66	0.60	0.53	
23	0.53	0.55	0.62	0.61	0.92	1.12	1.14	0.83	0.73	0.65	0.60	0.54	
24	0.53	0.54	0.56	0.76	0.87	1.02	1.12	0.82	0.73	0.65	0.59	0.54	
25	0.54	0.56	0.55	0.72	0.87	0.98	1.08	0.81	0.98	0.65	0.59	0.54	
26	0.56	0.54	0.55	0.69	0.86	0.92	1.16	0.81	0.81	0.64	0.59	0.53	
27	0.57	0.53	0.63	0.68	0.89	0.94	1.09	0.80	0.74	0.64	0.59	0.53	
28	0.56	0.52	0.78	0.68	0.88	0.95	1.02	0.80	0.73	0.64	0.58	0.53	
29	0.56	0.53	0.73	0.81	0.94	0.95	0.98	0.79	0.72	0.64		0.53	
30	0.55	0.52	0.70	0.75	1.08	0.89	1.25	0.79	0.71	0.64		0.52	
31		0.51		0.99	0.93		1.59		0.71	0.64		0.52	
Mean	0.55	0.56	0.58	0.68	0.97	0.91	1.14	0.93	0.76	0.66	0.61	0.56	
Max	0.57	0.61	0.78	0.99	1.46	1.12	1.73	1.36	0.98	0.70	0.64	0.60	1.73
Min	0.53	0.51	0.49	0.58	0.78	0.78	0.89	0.79	0.71	0.64	0.58	0.52	0.49

Annual Max Momentary Gage Height 1.82 M (A.D), at 18.00 Hours, on Oct 18, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.10 M (A.D)
Left Bank Elevation 8.87 M (A.D)
Right Bank Elevation 7.93 M (A.D), Drainage Area 1038 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.96	2.80	1.80	5.04	21.76	11.52	10.92	27.08	7.92	6.00	4.56	3.28	
2	2.96	2.64	1.80	4.80	31.12	10.92	14.08	22.14	7.92	5.76	4.32	3.28	
3	2.96	3.12	2.00	4.80	12.80	10.08	18.96	19.30	7.68	5.76	4.32	3.44	
4	2.96	3.84	2.16	4.08	11.20	9.24	13.44	17.60	7.68	5.52	4.32	3.44	
5	2.80	3.12	2.64	3.84	7.92	8.68	11.84	16.32	7.44	5.52	4.08	3.60	
6	2.80	2.96	2.48	3.44	9.80	9.80	14.40	16.00	7.44	5.52	4.08	3.44	
7	2.80	2.80	2.48	3.44	11.84	8.96	16.00	14.72	7.44	5.52	4.08	3.28	
8	2.80	2.64	2.48	3.60	13.44	8.40	12.80	14.40	7.44	5.52	4.08	2.96	
9	2.80	2.64	2.64	4.56	11.20	10.64	21.76	13.76	7.44	5.52	4.08	3.44	
10	2.80	2.32	3.28	4.80	10.08	15.04	22.14	13.76	7.44	5.52	4.08	3.60	
11	2.64	2.16	3.84	5.04	11.20	10.92	17.28	12.16	7.20	5.28	4.08	3.28	
12	2.64	3.44	2.64	6.72	27.84	9.80	15.36	11.52	7.20	5.28	4.08	3.28	
13	2.64	3.44	2.32	5.28	17.28	8.68	13.12	11.52	7.20	5.28	3.84	3.44	
14	2.80	3.44	2.48	4.56	14.40	7.92	11.52	11.20	6.96	5.04	3.84	3.44	
15	2.64	3.44	4.08	5.76	12.16	11.20	11.20	10.92	6.96	5.04	3.84	3.12	
16	2.80	3.12	3.84	9.52	11.52	16.64	26.32	10.64	6.96	5.04	3.84	2.96	
17	2.64	2.96	3.28	6.24	12.16	12.16	37.46	10.64	6.96	4.80	3.84	2.80	
18	2.64	2.64	2.80	5.76	17.60	11.52	43.04	10.36	6.96	4.80	3.84	2.80	
19	2.64	2.96	2.96	5.28	14.40	10.64	33.64	10.08	6.96	4.80	3.84	2.64	
20	2.80	3.60	4.56	4.32	13.12	10.08	24.04	9.80	6.96	4.80	3.84	2.64	
21	2.96	3.84	4.80	3.44	11.84	14.72	19.30	9.52	6.72	5.04	3.60	2.64	
22	2.48	3.12	3.28	3.28	14.08	17.28	17.28	9.52	6.72	5.04	3.60	2.48	
23	2.48	2.80	4.08	3.84	11.84	18.28	18.96	9.24	6.72	4.80	3.60	2.64	
24	2.48	2.64	2.96	7.44	10.36	15.04	18.28	8.96	6.72	4.80	3.44	2.64	
25	2.64	2.96	2.80	6.48	10.36	13.76	16.96	8.68	13.76	4.80	3.44	2.64	
26	2.96	2.64	2.80	5.76	10.08	11.84	19.64	8.68	8.68	4.56	3.44	2.48	
27	3.12	2.48	4.32	5.52	10.92	12.48	17.28	8.40	6.96	4.56	3.44	2.48	
28	2.96	2.32	7.92	5.52	10.64	12.80	15.04	8.40	6.72	4.56	3.28	2.48	
29	2.96	2.48	6.72	8.68	12.48	12.80	13.76	8.16	6.48	4.56		2.48	
30	2.80	2.32	6.00	7.20	16.96	10.92	22.90	8.16	6.24	4.56		2.32	
31		2.16		14.08	12.16		36.58		6.24	4.56		2.32	
Total	83.36	89.84	102.24	172.12	424.56	352.76	605.30	371.64	228.12	158.16	108.72	91.76	2788.58 CMSDAY
Mean	2.78	2.90	3.41	5.55	13.70	11.76	19.53	12.39	7.36	5.10	3.88	2.96	7.64 CMS
Max	3.12	3.84	7.92	14.08	31.12	18.28	43.04	27.08	13.76	6.00	4.56	3.60	43.04 CMS
Min	2.48	2.16	1.80	3.28	7.92	7.92	10.92	8.16	6.24	4.56	3.28	2.32	1.80 CMS
Runoff	7.202	7.762	8.834	14.871	36.682	30.478	52.298	32.110	19.710	13.665	9.393	7.928	240.933 MCM

Momentary Peak 47.40 CMS, at 1.82 M (A.D), at 18.00 Hours, on Oct 18, 1992

Runoff Yield 7.36 Liters/Second/Square KM, Momentary Peak Yield 45.66 Liters/Second/Square KM

WATER YEAR 1992

KHONG RIVER BASIN

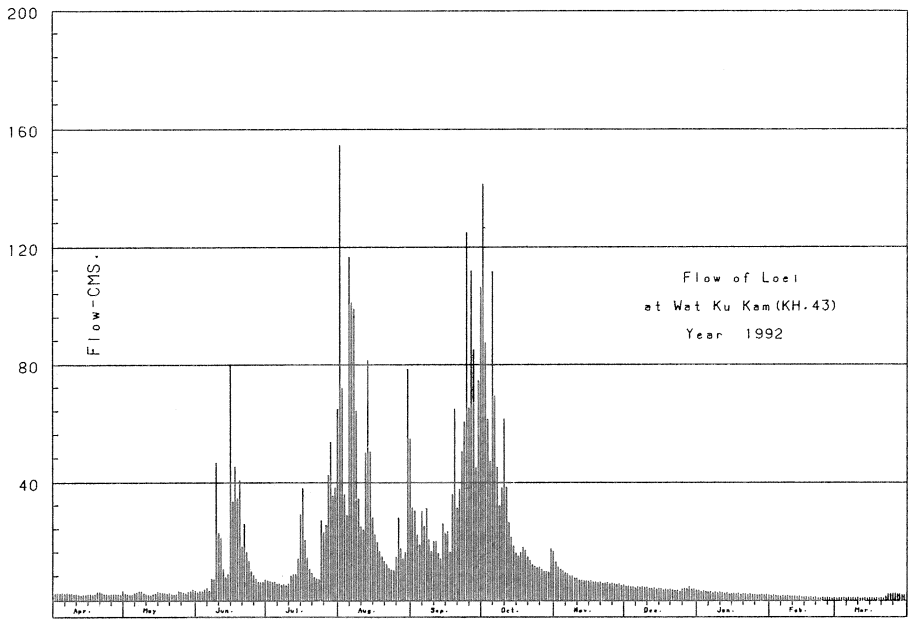
Loei River at Wat Ku Kam, Loei (Kh.43)

Location	Lat. 17°-14'-15" N., Long. 101°-41'-31" E., on left bank downstream from Wat Ku Kam at Ban Sai Khao, Amphoe Wang Saphung, Loei.
Drainage Area	991 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+248.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 30 meters from the top staff gage.
Elevation	+258.667 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1966 to date.
Rating Operation	
Period of Rating	1966 - 1973, 1981 to date.
Rated by Float	-
Rated by Current Meter	1966 - 1973, 1981 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 102 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	248.47	248.47	248.49	248.69	251.47	249.41	251.29	248.94	248.60	248.52	248.44	248.39	
2	248.47	248.45	248.50	248.67	250.22	249.39	250.50	248.87	248.59	248.51	248.44	248.39	
3	248.47	248.45	248.51	248.66	249.51	249.18	250.03	248.85	248.59	248.51	248.44	248.40	
4	248.47	248.44	248.53	248.66	249.35	249.10	249.76	248.82	248.58	248.51	248.43	248.40	
5	248.47	248.48	248.57	248.64	250.94	249.38	250.87	248.80	248.58	248.50	248.43	248.40	
6	248.47	248.48	248.52	248.63	250.71	249.26	250.17	248.78	248.58	248.50	248.43	248.40	
7	248.47	248.51	248.72	248.62	250.68	249.41	249.72	248.76	248.58	248.49	248.43	248.40	
8	248.46	248.50	248.70	248.62	250.08	249.14	249.43	248.75	248.58	248.49	248.43	248.40	
9	248.46	248.47	249.75	248.61	249.48	249.04	249.56	248.73	248.58	248.49	248.43	248.40	
10	248.45	248.45	249.20	248.63	249.25	249.13	250.03	248.72	248.57	248.49	248.42	248.40	
11	248.45	248.45	249.15	248.76	249.23	249.13	249.57	248.70	248.56	248.48	248.42	248.39	
12	248.44	248.44	248.85	248.77	249.82	249.03	249.29	248.69	248.56	248.48	248.42	248.39	
13	248.44	248.45	248.74	248.78	250.39	248.97	249.16	248.69	248.56	248.48	248.42	248.39	
14	248.45	248.47	248.77	248.97	249.83	249.28	249.09	248.68	248.55	248.47	248.42	248.39	
15	248.45	248.49	250.37	249.36	249.33	249.20	249.03	248.68	248.55	248.47	248.42	248.39	
16	248.45	248.48	249.46	249.56	249.18	249.21	249.00	248.68	248.55	248.47	248.41	248.39	
17	248.45	248.48	249.72	249.14	249.12	249.04	249.03	248.67	248.54	248.47	248.41	248.39	
18	248.45	248.47	249.48	248.98	249.04	249.51	249.08	248.66	248.54	248.47	248.41	248.39	
19	248.50	248.47	249.62	248.85	249.00	250.09	249.05	248.66	248.54	248.46	248.41	248.39	
20	248.49	248.47	249.08	248.79	248.94	249.41	249.00	248.66	248.54	248.46	248.41	248.39	
21	248.47	248.46	249.28	248.74	248.91	249.55	248.95	248.65	248.54	248.46	248.40	248.39	
22	248.46	248.45	249.04	248.71	248.86	249.83	248.91	248.65	248.53	248.46	248.40	248.43	
23	248.45	248.45	248.94	248.71	248.83	250.01	248.88	248.65	248.52	248.46	248.40	248.46	
24	248.45	248.51	248.82	249.30	248.83	251.06	248.87	248.64	248.51	248.46	248.40	248.47	
25	248.45	248.49	248.76	249.20	248.99	250.10	248.87	248.64	248.54	248.45	248.40	248.47	
26	248.45	248.48	248.71	249.27	249.33	250.87	248.84	248.63	248.55	248.45	248.39	248.47	
27	248.46	248.47	248.67	249.66	249.07	250.46	248.82	248.63	248.56	248.45	248.39	248.47	
28	248.45	248.49	248.65	249.89	248.97	249.71	248.81	248.63	248.58	248.45	248.39	248.46	
29	248.45	248.51	248.67	249.50	249.03	250.27	248.81	248.61	248.55	248.45		248.45	
30	248.51	248.53	248.70	249.56	250.34	250.79	249.07	248.61	248.54	248.45		248.44	
31		248.51		250.09	249.91		249.04		248.53	248.44		248.45	
Mean	248.46	248.47	248.97	249.00	249.57	249.60	249.37	248.70	248.56	248.47	248.42	248.41	
Max	248.51	248.53	250.37	250.09	251.47	251.06	251.29	248.94	248.60	248.52	248.44	248.47	251.47
Min	248.44	248.44	248.49	248.61	248.83	248.97	248.81	248.61	248.51	248.44	248.39	248.39	248.39

Annual Max Momentary Gage Height 252.18 M (MSL), at 6.00 Hours, on Aug 1, 1992
Zero Gage at Bottom Elevation 248.00 M (MSL), River Bed 248.06 M (MSL)
Left Bank Elevation 258.02 M (MSL)
Right Bank Elevation 258.37 M (MSL), Drainage Area 991 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.40	2.40	2.80	6.80	154.75	31.45	141.30	13.20	5.00	3.40	1.80	0.90	
2	2.40	2.00	3.00	6.40	72.10	30.60	87.50	11.25	4.80	3.20	1.80	0.90	
3	2.40	2.00	3.20	6.20	35.95	22.20	61.65	10.75	4.80	3.20	1.80	1.00	
4	2.40	1.80	3.60	6.20	29.00	19.00	47.20	10.00	4.60	3.20	1.60	1.00	
5	2.40	2.60	4.40	5.80	116.80	30.20	111.90	9.50	4.60	3.00	1.60	1.00	
6	2.40	2.60	3.40	5.60	101.15	25.40	69.35	9.00	4.60	3.00	1.60	1.00	
7	2.40	3.20	7.50	5.40	99.20	31.45	45.40	8.50	4.60	2.80	1.60	1.00	
8	2.20	3.00	7.00	5.40	64.40	20.60	32.35	8.25	4.60	2.80	1.60	1.00	
9	2.20	2.40	46.75	5.20	34.60	16.60	38.20	7.75	4.60	2.80	1.60	1.00	
10	2.00	2.00	23.00	5.60	25.00	20.20	61.65	7.50	4.40	2.80	1.40	1.00	
11	2.00	2.00	21.00	8.50	24.20	20.20	38.65	7.00	4.20	2.60	1.40	0.90	
12	1.80	1.80	10.75	8.75	50.10	16.20	26.60	6.80	4.20	2.60	1.40	0.90	
13	1.80	2.00	8.00	9.00	81.45	14.10	21.40	6.80	4.20	2.60	1.40	0.90	
14	2.00	2.40	8.75	14.10	50.65	26.20	18.60	6.60	4.00	2.40	1.40	0.90	
15	2.00	2.80	80.35	29.40	28.20	23.00	16.20	6.60	4.00	2.40	1.40	0.90	
16	2.00	2.60	33.70	38.20	22.20	23.40	15.00	6.60	4.00	2.40	1.20	0.90	
17	2.00	2.60	45.40	20.60	19.80	16.60	16.20	6.40	3.80	2.40	1.20	0.90	
18	2.00	2.40	34.60	14.40	16.60	35.95	18.20	6.20	3.80	2.40	1.20	0.90	
19	3.00	2.40	40.90	10.75	15.00	64.95	17.00	6.20	3.80	2.20	1.20	0.90	
20	2.80	2.40	18.20	9.25	13.20	31.45	15.00	6.20	3.80	2.20	1.20	0.90	
21	2.40	2.20	26.20	8.00	12.30	37.75	13.50	6.00	3.80	2.20	1.00	0.90	
22	2.20	2.00	16.60	7.25	11.00	50.65	12.30	6.00	3.60	2.20	1.00	1.60	
23	2.00	2.00	13.20	7.25	10.25	60.55	11.50	6.00	3.40	2.20	1.00	2.20	
24	2.00	3.20	10.00	27.00	10.25	125.20	11.25	5.80	3.20	2.20	1.00	2.40	
25	2.00	2.80	8.50	23.00	14.70	65.50	11.25	5.80	3.80	2.00	1.00	2.40	
26	2.00	2.60	7.25	25.80	28.20	111.90	10.50	5.60	4.00	2.00	0.90	2.40	
27	2.20	2.40	6.40	42.70	17.80	85.30	10.00	5.60	4.20	2.00	0.90	2.40	
28	2.00	2.80	6.00	53.95	14.10	44.95	9.75	5.60	4.60	2.00	0.90	2.20	
29	2.00	3.20	6.40	35.50	16.20	74.85	9.75	5.20	4.00	2.00		2.00	
30	3.20	3.60	7.00	38.20	78.70	106.35	17.80	5.20	3.80	2.00		1.80	
31		3.20		64.95	55.05		16.60		3.60	1.80		2.00	
Total	66.60	77.40	513.85	555.15	1322.90	1282.75	1033.55	217.90	128.40	77.00	37.10	41.10	5353.70 CMSDAY
Mean	2.22	2.50	17.13	17.91	42.67	42.76	33.34	7.26	4.14	2.48	1.33	1.33	14.67 CMS
Max	3.20	3.60	80.35	64.95	154.75	125.20	141.30	13.20	5.00	3.40	1.80	2.40	154.75 CMS
Min	1.80	1.80	2.80	5.20	10.25	14.10	9.75	5.20	3.20	1.80	0.90	0.90	0.90 CMS
Runoff	5.754	6.687	44.397	47.965	114.299	110.830	89.299	18.827	11.094	6.653	3.205	3.551	462.560 MCM

Momentary Peak 212.20 CMS, at 252.18 M (MSL), at 6.00 Hours, on Aug 1, 1992
Runoff Yield 14.80 Liters/Second/Square KM, Momentary Peak Yield 214.13 Liters/Second/Square KM

WATER YEAR 1992

KHONG RIVER BASIN

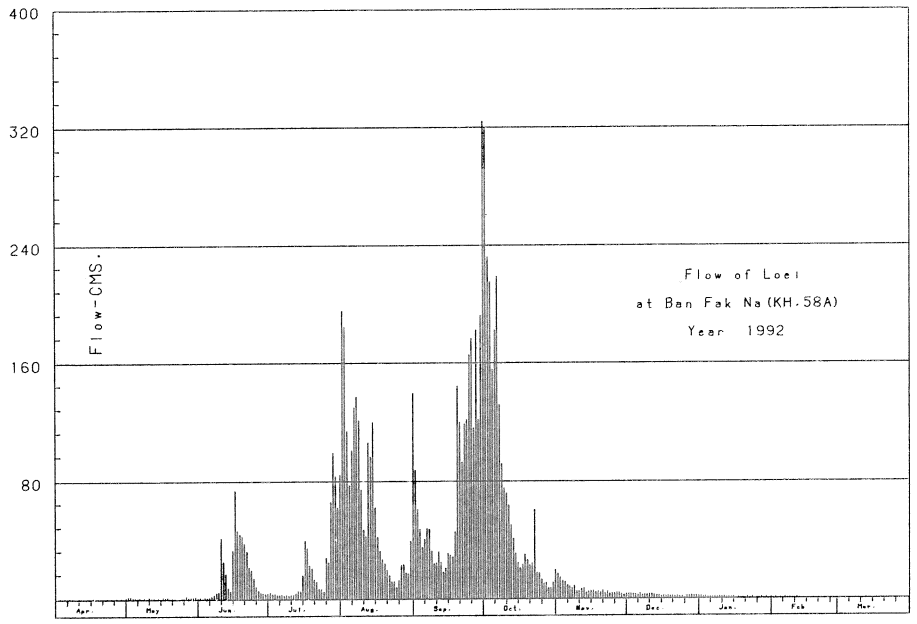
Loei River at Ban Fak Na, Loei (Kh.58A)

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	1984 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 124 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.04	230.20	230.12	230.44	233.79	232.43	235.19	230.98	230.37	230.18	230.08	229.92	
2	230.07	230.16	230.09	230.38	233.66	231.98	234.27	230.88	230.34	230.17	230.11	229.94	
3	230.06	230.13	230.10	230.35	232.84	231.73	234.02	230.82	230.34	230.16	230.09	229.96	
4	230.05	230.11	230.12	230.33	232.26	231.44	233.33	230.78	230.30	230.14	230.09	229.98	
5	230.03	230.08	230.15	230.32	232.65	231.56	233.64	230.72	230.28	230.13	230.08	229.98	
6	230.02	230.06	230.20	230.30	233.04	231.74	234.07	230.67	230.36	230.13	230.11	229.98	
7	230.01	230.07	230.29	230.28	233.12	231.74	233.06	230.61	230.29	230.14	230.11	229.99	
8	230.00	230.09	230.46	230.27	232.94	231.37	232.50	230.70	230.28	230.14	230.07	230.00	
9	230.00	230.09	230.47	230.27	232.20	231.16	232.22	230.52	230.31	230.15	230.08	229.97	
10	230.02	230.14	231.58	230.28	231.73	231.16	232.17	230.50	230.30	230.15	230.04	229.98	
11	230.04	230.11	231.19	230.28	231.61	231.35	232.03	230.60	230.35	230.14	230.08	229.95	
12	230.02	230.09	230.97	230.43	232.73	231.17	231.80	230.60	230.27	230.13	230.02	229.94	
13	230.02	230.04	230.65	230.53	232.58	231.01	231.58	230.44	230.27	230.12	230.04	229.97	
14	230.01	230.09	230.52	230.53	232.92	231.07	231.32	230.47	230.23	230.13	230.05	229.99	
15	230.06	230.07	231.39	230.95	232.00	231.33	231.16	230.53	230.22	230.13	230.04	229.97	
16	230.07	230.16	232.20	231.55	231.61	231.29	231.08	230.52	230.20	230.10	230.01	229.97	
17	230.06	230.14	231.71	231.41	231.37	231.27	231.13	230.48	230.20	230.10	230.00	229.96	
18	230.02	230.12	231.66	231.12	231.22	231.70	231.30	230.49	230.21	230.11	230.00	229.96	
19	230.01	230.09	231.62	231.08	231.16	233.20	231.22	230.46	230.20	230.09	229.95	229.95	
20	230.00	230.07	231.49	230.84	231.04	232.92	231.13	230.53	230.19	230.09	229.95	229.92	
21	230.03	230.04	231.37	230.79	230.94	232.52	231.15	230.40	230.18	230.11	229.95	229.92	
22	230.07	229.99	231.10	230.61	230.80	232.91	231.98	230.50	230.19	230.10	229.91	229.91	
23	230.05	229.99	231.04	230.58	230.79	232.94	230.99	230.38	230.16	230.12	229.93	230.03	
24	230.05	230.00	230.88	230.52	230.66	233.45	230.99	230.36	230.17	230.08	230.03	229.97	
25	230.05	230.06	230.67	231.26	230.82	233.57	230.85	230.40	230.10	230.09	230.00	229.96	
26	230.05	230.20	230.55	231.17	231.12	232.87	230.74	230.42	230.20	230.10	229.95	229.94	
27	230.07	230.13	230.47	232.07	231.14	233.64	230.76	230.44	230.22	230.11	229.98	229.91	
28	230.06	230.11	230.39	232.62	231.00	232.94	230.63	230.32	230.22	230.10	230.02	229.93	
29	230.09	230.15	230.39	232.36	230.97	233.75	230.61	230.30	230.23	230.11		229.90	
30	230.10	230.16	230.37	232.00	231.54	235.23	230.78	230.31	230.21	230.09		229.92	
31		230.12		232.37	233.15		231.04		230.20	230.10		229.90	
Mean	230.04	230.10	230.81	230.91	231.92	232.21	231.89	230.54	230.24	230.12	230.03	229.95	
Max	230.10	230.20	232.20	232.62	233.79	235.23	235.19	230.98	230.37	230.18	230.11	230.03	235.23
Min	230.00	229.99	230.09	230.27	230.66	231.01	230.61	230.30	230.10	230.08	229.91	229.90	229.90

Annual Max Momentary Gage Height 235.50 M (MSL), at 19.00 Hours, on Sep 31, 1992
Zero Gage at Bottom Elevation 229.00 M (MSL), River Bed 229.51 M (MSL)
Left Bank Elevation 239.22 M (MSL)
Right Bank Elevation 238.69 M (MSL), Drainage Area 3101 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	2.00	1.20	4.40	195.67	87.80	320.00	17.40	3.70	1.80	0.90	0.10	
2	0.85	1.60	0.95	3.80	184.33	60.80	232.23	14.40	3.40	1.70	1.10	0.20	
3	0.80	1.30	1.00	3.50	113.80	47.20	215.35	12.60	3.40	1.60	0.95	0.30	
4	0.75	1.10	1.20	3.30	77.60	35.60	155.53	11.40	3.00	1.40	0.95	0.40	
5	0.65	0.90	1.50	3.20	101.00	40.40	182.58	9.60	2.80	1.30	0.90	0.40	
6	0.60	0.80	2.00	3.00	130.22	47.60	218.73	8.40	3.60	1.30	1.10	0.40	
7	0.55	0.85	2.90	2.80	137.20	47.60	131.96	7.20	2.90	1.40	1.10	0.45	
8	0.50	0.95	4.60	2.70	121.49	32.80	92.00	9.00	2.80	1.40	0.85	0.50	
9	0.50	0.95	4.70	2.70	74.00	24.40	75.20	5.40	3.10	1.50	0.90	0.35	
10	0.60	1.40	41.20	2.80	47.20	24.40	72.20	5.00	3.00	1.50	0.70	0.40	
11	0.70	1.10	25.60	2.80	42.40	32.00	63.80	7.00	3.50	1.40	0.90	0.25	
12	0.60	0.95	17.10	4.30	106.10	24.80	50.00	7.00	2.70	1.30	0.60	0.20	
13	0.60	0.70	8.00	5.60	96.80	18.40	41.20	4.40	2.70	1.20	0.70	0.35	
14	0.55	0.95	5.40	5.60	119.75	20.80	30.80	4.70	2.30	1.30	0.75	0.45	
15	0.80	0.85	33.60	16.50	62.00	31.20	24.40	5.60	2.20	1.30	0.70	0.35	
16	0.85	1.60	74.00	40.00	42.40	29.60	21.20	5.40	2.00	1.00	0.55	0.35	
17	0.80	1.40	46.40	34.40	32.80	28.80	23.20	4.80	2.00	1.00	0.50	0.30	
18	0.60	1.20	44.40	22.80	26.80	46.00	30.00	4.90	2.10	1.10	0.50	0.30	
19	0.55	0.95	42.80	21.20	24.40	144.18	26.80	4.60	2.00	0.95	0.25	0.25	
20	0.50	0.85	37.60	13.20	19.60	119.75	23.20	5.60	1.90	0.95	0.25	0.10	
21	0.65	0.70	32.80	11.70	16.20	93.20	24.00	4.00	1.80	1.10	0.25	0.10	
22	0.85	0.45	22.00	7.20	12.00	118.87	60.80	5.00	1.90	1.00	0.05	0.05	
23	0.75	0.45	19.60	6.60	11.70	121.49	17.70	3.80	1.60	1.20	0.15	0.65	
24	0.75	0.50	14.40	5.40	8.20	166.00	17.70	3.60	1.70	0.90	0.65	0.35	
25	0.75	0.80	8.40	28.40	12.60	176.47	13.50	4.00	1.00	0.95	0.50	0.30	
26	0.75	2.00	6.00	24.80	22.80	115.90	10.20	4.20	2.00	1.00	0.25	0.20	
27	0.85	1.30	4.70	66.20	23.60	182.58	10.80	4.40	2.20	1.10	0.40	0.05	
28	0.80	1.10	3.90	99.20	18.00	121.49	7.60	3.20	2.20	1.00	0.60	0.15	
29	0.95	1.50	3.90	83.60	17.10	192.18	7.20	3.00	2.30	1.10		0.00	
30	1.00	1.60	3.70	62.00	39.60	324.50	11.40	3.10	2.10	0.95		0.10	
31		1.20		84.20	139.82		19.60		2.00	1.00		0.00	
Total	21.15	34.00	515.55	677.90	2077.18	2556.81	2230.88	192.70	75.90	37.70	18.00	8.35	8446.12 CMSDAY
Mean	0.71	1.10	17.18	21.87	67.01	85.23	71.96	6.42	2.45	1.22	0.64	0.27	23.14 CMS
Max	1.00	2.00	74.00	99.20	195.67	324.50	320.00	17.40	3.70	1.80	1.10	0.65	324.50 CMS
Min	0.50	0.45	0.95	2.70	8.20	18.40	7.20	3.00	1.00	0.90	0.05	0.00	0.00 CMS
Runoff	1.827	2.938	44.544	58.571	179.468	220.908	192.748	16.649	6.558	3.257	1.555	0.721	729.745 MCM

Momentary Peak 356.00 CMS, at 235.50 M (MSL), at 19.00 Hours, on Sep 31, 1992

Runoff Yield 7.46 Liters/Second/Square KM, Momentary Peak Yield 114.80 Liters/Second/Square KM

WATER YEAR 1992

KHONG RIVER BASIN

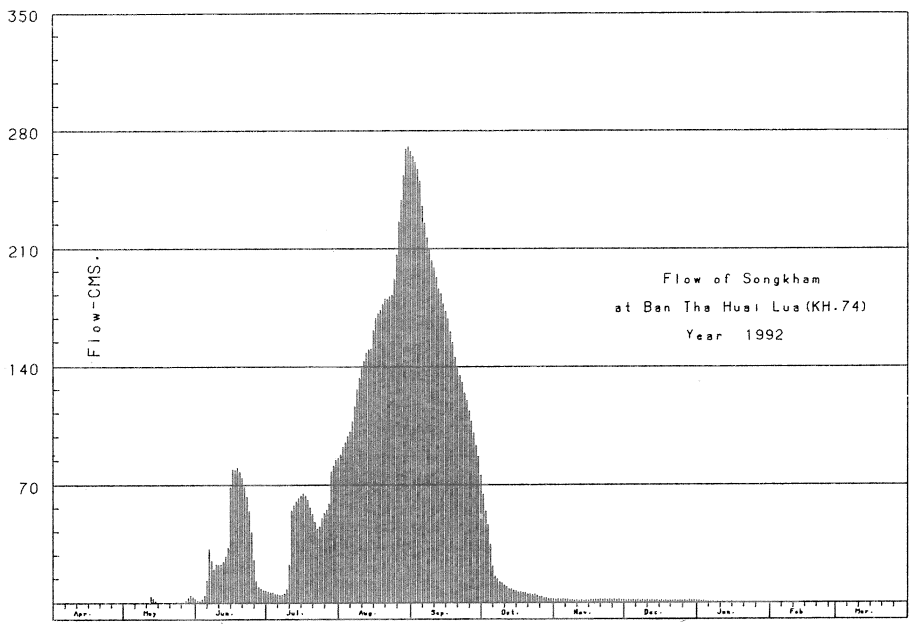
Songkram River at Ban Tha Huai Lua, Sakon Nakhon (Kh.74)

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	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 84 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.86	1.80	1.96	2.23	5.61	9.47	5.17	2.01	1.98	1.96	1.91	1.89	
2	1.86	1.79	1.96	2.21	5.75	9.44	4.62	2.01	1.98	1.96	1.91	1.89	
3	1.86	1.78	2.00	2.20	5.85	9.41	4.06	2.01	1.98	1.96	1.91	1.89	
4	1.87	1.76	2.13	2.17	5.96	9.35	3.49	2.01	1.98	1.95	1.90	1.89	
5	1.87	1.75	2.58	2.15	6.06	9.28	2.97	2.01	1.98	1.95	1.90	1.89	
6	1.86	1.75	3.38	2.14	6.25	9.20	2.70	2.00	1.98	1.95	1.90	1.89	
7	1.86	1.74	3.12	2.13	6.56	9.13	2.61	1.99	1.98	1.94	1.90	1.88	
8	1.86	1.72	2.89	2.18	6.88	9.06	2.54	1.98	1.98	1.94	1.90	1.88	
9	1.86	1.71	3.03	2.30	7.12	9.00	2.48	1.98	1.98	1.93	1.90	1.88	
10	1.86	1.70	3.00	3.02	7.30	8.95	2.44	1.98	1.98	1.93	1.89	1.88	
11	1.86	1.85	3.01	4.30	7.44	8.89	2.37	1.98	1.98	1.92	1.89	1.87	
12	1.86	2.10	3.09	4.82	7.55	8.80	2.33	1.98	1.98	1.93	1.89	1.87	
13	1.86	2.02	3.20	4.98	7.61	8.77	2.30	1.97	1.98	1.94	1.89	1.87	
14	1.86	1.95	3.43	5.05	7.61	8.69	2.28	1.97	1.97	1.94	1.88	1.86	
15	1.86	1.92	4.86	5.15	7.89	8.63	2.25	1.98	1.97	1.94	1.89	1.86	
16	1.86	1.91	5.27	5.20	8.06	8.56	2.23	1.99	1.97	1.93	1.90	1.86	
17	1.86	1.93	5.27	5.15	8.14	8.45	2.22	1.99	1.97	1.93	1.91	1.86	
18	1.85	1.92	5.31	5.01	8.18	8.34	2.21	1.99	1.97	1.92	1.91	1.86	
19	1.85	1.92	5.22	4.78	8.28	8.20	2.19	2.00	1.97	1.92	1.90	1.86	
20	1.85	1.90	5.07	4.49	8.35	8.06	2.17	2.00	1.97	1.91	1.90	1.86	
21	1.85	1.90	4.86	4.19	8.35	7.98	2.16	2.00	1.97	1.90	1.90	1.86	
22	1.85	1.90	4.63	3.90	8.38	7.87	2.15	2.00	1.97	1.90	1.90	1.86	
23	1.85	1.89	4.28	4.01	8.41	7.72	2.15	2.00	1.97	1.89	1.90	1.86	
24	1.85	1.91	3.80	4.32	8.59	7.57	2.13	2.00	1.97	1.90	1.90	1.86	
25	1.85	1.90	3.13	4.54	8.86	7.37	2.09	2.00	1.97	1.90	1.90	1.86	
26	1.84	1.91	2.54	4.65	9.10	7.16	2.08	2.00	1.97	1.91	1.90	1.86	
27	1.84	1.96	2.38	4.91	9.24	6.90	2.05	2.00	1.97	1.92	1.89	1.86	
28	1.83	2.06	2.31	5.22	9.38	6.61	2.04	2.00	1.98	1.92	1.89	1.86	
29	1.82	2.11	2.28	5.37	9.50	6.30	2.03	2.00	1.98	1.92		1.86	
30	1.81	2.08	2.25	5.49	9.51	5.75	2.01	1.99	1.97	1.92		1.86	
31		2.01		5.53	9.49		2.01		1.97	1.92		1.86	
Mean	1.85	1.89	3.41	3.99	7.78	8.30	2.53	1.99	1.97	1.93	1.90	1.87	
Max	1.87	2.11	5.31	5.53	9.51	9.47	5.17	2.01	1.98	1.96	1.91	1.89	9.51
Min	1.81	1.70	1.96	2.13	5.61	5.75	2.01	1.97	1.97	1.89	1.88	1.86	1.70

Annual Max Momentary Gage Height 9.51 M (A.D), at 24.00 Hours, on Aug 30, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.35 M (A.D)
Left Bank Elevation 8.64 M (A.D)
Right Bank Elevation 8.69 M (A.D), Drainage Area 2145 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.20	6.60	88.30	265.10	64.40	2.20	1.60	1.20	0.20	0.00	
2	0.00	0.00	1.20	6.20	92.50	261.20	54.80	2.20	1.60	1.20	0.20	0.00	
3	0.00	0.00	2.00	6.00	95.50	257.30	46.40	2.20	1.60	1.20	0.20	0.00	
4	0.00	0.00	4.60	5.40	98.80	250.00	35.08	2.20	1.60	1.00	0.00	0.00	
5	0.00	0.00	13.60	5.00	101.80	235.40	21.79	2.20	1.60	1.00	0.00	0.00	
6	0.00	0.00	32.00	4.80	107.50	225.00	16.00	2.00	1.60	1.00	0.00	0.00	
7	0.00	0.00	25.50	4.60	116.80	216.60	14.20	1.80	1.60	0.80	0.00	0.00	
8	0.00	0.00	19.80	5.60	126.40	209.00	12.80	1.60	1.60	0.80	0.00	0.00	
9	0.00	0.00	23.25	8.00	133.60	203.00	11.60	1.60	1.60	0.60	0.00	0.00	
10	0.00	0.00	22.50	23.00	139.00	198.50	10.80	1.60	1.60	0.60	0.00	0.00	
11	0.00	0.00	22.75	55.00	143.60	193.20	9.40	1.60	1.60	0.40	0.00	0.00	
12	0.00	4.00	24.75	57.80	148.00	186.00	8.60	1.60	1.60	0.60	0.00	0.00	
13	0.00	2.40	27.50	60.60	150.40	183.60	8.00	1.40	1.60	0.80	0.00	0.00	
14	0.00	1.00	33.25	62.00	150.40	177.30	7.60	1.40	1.40	0.80	0.00	0.00	
15	0.00	0.40	69.00	64.00	161.60	173.10	7.00	1.60	1.40	0.80	0.00	0.00	
16	0.00	0.20	79.25	65.00	168.40	168.20	6.60	1.80	1.40	0.60	0.00	0.00	
17	0.00	0.60	79.25	64.00	171.60	161.00	6.40	1.80	1.40	0.60	0.20	0.00	
18	0.00	0.40	80.25	61.20	173.20	154.40	6.20	1.80	1.40	0.40	0.20	0.00	
19	0.00	0.40	78.00	57.20	177.20	146.00	5.80	2.00	1.40	0.40	0.00	0.00	
20	0.00	0.00	74.25	52.85	180.00	139.00	5.40	2.00	1.40	0.20	0.00	0.00	
21	0.00	0.00	69.00	48.35	180.00	135.20	5.20	2.00	1.40	0.00	0.00	0.00	
22	0.00	0.00	63.25	44.00	181.20	130.80	5.00	2.00	1.40	0.00	0.00	0.00	
23	0.00	0.00	54.50	45.65	182.50	124.80	5.00	2.00	1.40	0.00	0.00	0.00	
24	0.00	0.20	42.50	50.30	191.50	120.10	4.60	2.00	1.40	0.00	0.00	0.00	
25	0.00	0.00	25.75	53.60	206.60	114.10	3.80	2.00	1.40	0.00	0.00	0.00	
26	0.00	0.20	12.80	55.25	226.00	107.80	3.60	2.00	1.40	0.20	0.00	0.00	
27	0.00	1.20	9.60	59.20	238.60	101.00	3.00	2.00	1.40	0.40	0.00	0.00	
28	0.00	3.20	8.20	78.00	253.60	93.75	2.80	2.00	1.60	0.40	0.00	0.00	
29	0.00	4.20	7.60	81.75	269.00	87.00	2.60	2.00	1.60	0.40		0.00	
30	0.00	3.60	7.00	84.75	270.80	76.00	2.20	1.80	1.40	0.40		0.00	
31		2.20		85.90	267.70		2.20		1.40	0.40		0.00	
Total	0.00	24.20	1014.10	1361.60	5192.10	5093.45	398.87	56.40	46.40	17.20	1.00	0.00	13205.32 CMSDAY
Mean	0.00	0.78	33.80	43.92	167.49	169.78	12.87	1.88	1.50	0.55	0.04	0.00	36.18 CMS
Max	0.00	4.20	80.25	85.90	270.80	265.10	64.40	2.20	1.60	1.20	0.20	0.00	270.80 CMS
Min	0.00	0.00	1.20	4.60	88.30	76.00	2.20	1.40	1.40	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	2.091	87.618	117.642	448.597	440.074	34.462	4.873	4.009	1.486	0.086	0.000	1140.940 MCM

Momentary Peak 270.80 CMS, at 9.51 M (A.D), at 24.00 Hours, on Aug 30, 1992

Runoff Yield 16.87 Liters/Second/Square KM, Momentary Peak Yield 126.25 Liters/Second/Square KM

WATER YEAR 1992

KHONG RIVER BASIN

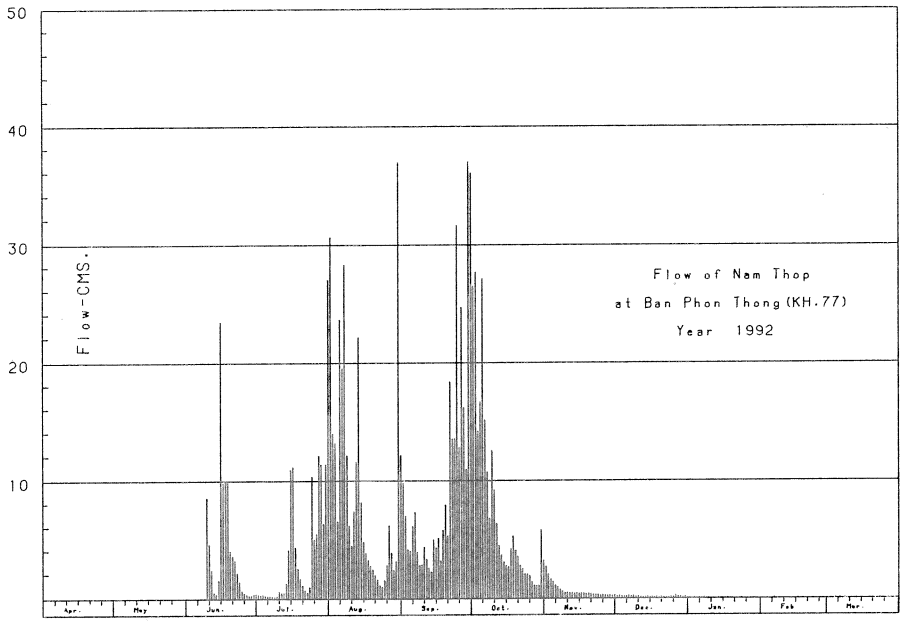
Nam Thop at Ban Phon Thong, Loei (Kh.77)

Location	Lat. 17-15-51 N., Long. 101-39-26 E., on left bank at Ban Phon Thong, Amphoe Wang Saphung, Loei.
Drainage Area	142 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank near the measuring line.
Elevation	+7.608 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 58 discharge measurements in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.31	0.31	0.35	0.50	2.19	1.30	2.05	0.84	0.46	0.41	0.36	0.34	
2	0.31	0.31	0.33	0.50	1.51	1.16	2.09	0.76	0.46	0.40	0.36	0.33	
3	0.31	0.32	0.33	0.50	1.47	1.00	1.52	0.72	0.45	0.40	0.36	0.32	
4	0.31	0.33	0.33	0.48	1.14	0.98	1.64	0.69	0.45	0.40	0.36	0.33	
5	0.31	0.32	0.32	0.46	1.95	1.12	2.07	0.66	0.45	0.40	0.35	0.33	
6	0.31	0.32	0.31	0.45	1.77	1.18	1.57	0.64	0.45	0.39	0.36	0.35	
7	0.31	0.32	0.33	0.44	2.11	0.97	1.35	0.62	0.45	0.39	0.36	0.35	
8	0.31	0.31	0.38	0.44	1.42	0.85	1.15	0.59	0.45	0.39	0.35	0.35	
9	0.31	0.31	1.24	0.44	1.12	0.85	1.44	0.57	0.43	0.39	0.35	0.34	
10	0.31	0.31	1.03	0.59	1.02	1.01	1.27	0.56	0.43	0.39	0.34	0.33	
11	0.31	0.31	0.80	0.57	1.18	0.91	1.13	0.56	0.42	0.38	0.33	0.34	
12	0.31	0.31	0.58	0.55	1.39	0.82	1.02	0.55	0.42	0.38	0.34	0.33	
13	0.31	0.31	0.52	0.68	1.89	0.79	0.94	0.55	0.42	0.38	0.34	0.33	
14	0.31	0.30	0.71	0.99	1.22	1.05	0.88	0.55	0.42	0.38	0.34	0.33	
15	0.31	0.30	1.94	1.36	1.04	1.01	0.84	0.54	0.42	0.37	0.34	0.33	
16	0.31	0.31	1.30	1.37	0.96	1.06	0.83	0.54	0.42	0.37	0.34	0.33	
17	0.31	0.31	1.31	1.01	0.90	0.89	1.00	0.55	0.41	0.37	0.35	0.33	
18	0.31	0.33	1.31	0.82	0.84	1.10	1.07	0.52	0.41	0.37	0.35	0.33	
19	0.31	0.33	0.98	0.72	0.81	1.21	0.99	0.55	0.41	0.37	0.33	0.33	
20	0.31	0.32	0.94	0.66	0.75	1.07	0.93	0.52	0.41	0.37	0.33	0.33	
21	0.30	0.32	0.89	0.61	0.71	1.72	0.85	0.51	0.41	0.37	0.32	0.33	
22	0.30	0.32	0.78	0.58	0.66	1.49	0.81	0.51	0.41	0.37	0.32	0.33	
23	0.30	0.31	0.69	0.64	0.64	1.49	0.77	0.50	0.41	0.37	0.32	0.33	
24	0.30	0.31	0.61	1.33	0.71	2.22	0.76	0.49	0.42	0.36	0.32	0.32	
25	0.30	0.31	0.55	1.05	0.85	1.45	0.75	0.49	0.43	0.36	0.33	0.31	
26	0.30	0.32	0.52	1.08	1.12	1.99	0.69	0.48	0.48	0.36	0.34	0.32	
27	0.31	0.33	0.49	1.42	0.97	1.62	0.66	0.48	0.44	0.36	0.34	0.33	
28	0.30	0.33	0.47	1.38	0.80	1.36	0.65	0.47	0.42	0.36	0.34	0.33	
29	0.31	0.34	0.53	1.13	0.88	2.40	0.66	0.47	0.42	0.37		0.33	
30	0.32	0.33	0.52	1.38	2.40	2.37	1.10	0.47	0.42	0.35		0.33	
31		0.33		2.07	1.42		0.89		0.41	0.35		0.33	
Mean	0.31	0.32	0.71	0.85	1.22	1.28	1.11	0.56	0.43	0.38	0.34	0.33	
Max	0.32	0.34	1.94	2.07	2.40	2.40	2.09	0.84	0.48	0.41	0.36	0.35	2.40
Min	0.30	0.30	0.31	0.44	0.64	0.79	0.65	0.47	0.41	0.35	0.32	0.31	0.30

Annual Max Momentary Gage Height 2.86 M (A.D), at 9.00 Hours, on Aug 30, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.64 M (A.D)
Left Bank Elevation 7.02 M (A.D)
Right Bank Elevation 8.05 M (A.D), Drainage Area 142 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.05	0.30	30.70	9.80	26.50	2.76	0.22	0.12	0.06	0.04	
2	0.01	0.01	0.03	0.30	14.00	7.00	27.70	2.04	0.22	0.10	0.06	0.03	
3	0.01	0.02	0.03	0.30	13.20	4.20	14.20	1.68	0.20	0.10	0.06	0.02	
4	0.01	0.03	0.03	0.26	6.60	4.02	16.68	1.41	0.20	0.10	0.06	0.03	
5	0.01	0.02	0.02	0.22	23.70	6.20	27.10	1.14	0.20	0.10	0.05	0.03	
6	0.01	0.02	0.01	0.20	19.54	7.40	15.20	0.96	0.20	0.09	0.06	0.05	
7	0.01	0.02	0.03	0.18	28.30	3.93	10.80	0.78	0.20	0.09	0.06	0.05	
8	0.01	0.01	0.08	0.18	12.20	2.85	6.80	0.57	0.20	0.09	0.05	0.05	
9	0.01	0.01	8.60	0.18	6.20	2.85	12.60	0.51	0.16	0.09	0.05	0.04	
10	0.01	0.01	4.68	0.57	4.52	4.36	9.20	0.48	0.16	0.09	0.04	0.03	
11	0.01	0.01	2.40	0.51	7.40	3.39	6.40	0.48	0.14	0.08	0.03	0.04	
12	0.01	0.01	0.54	0.45	11.60	2.58	4.52	0.45	0.14	0.08	0.04	0.03	
13	0.01	0.01	0.36	1.32	22.18	2.31	3.66	0.45	0.14	0.08	0.04	0.03	
14	0.01	0.00	1.59	4.11	8.20	5.00	3.12	0.45	0.14	0.08	0.04	0.03	
15	0.01	0.00	23.44	11.00	4.84	4.36	2.76	0.42	0.14	0.07	0.04	0.03	
16	0.01	0.01	9.80	11.20	3.84	5.16	2.67	0.42	0.14	0.07	0.04	0.03	
17	0.01	0.01	10.00	4.36	3.30	3.21	4.20	0.45	0.12	0.07	0.05	0.03	
18	0.01	0.03	10.00	2.58	2.76	5.80	5.32	0.36	0.12	0.07	0.05	0.03	
19	0.01	0.03	4.02	1.68	2.49	8.00	4.11	0.45	0.12	0.07	0.03	0.03	
20	0.01	0.02	3.66	1.14	1.95	5.32	3.57	0.36	0.12	0.07	0.03	0.03	
21	0.00	0.02	3.21	0.69	1.59	18.44	2.85	0.33	0.12	0.07	0.02	0.03	
22	0.00	0.02	2.22	0.54	1.14	13.60	2.49	0.33	0.12	0.07	0.02	0.03	
23	0.00	0.01	1.41	0.96	0.96	13.60	2.13	0.30	0.12	0.07	0.02	0.03	
24	0.00	0.01	0.69	10.40	1.59	31.60	2.04	0.28	0.14	0.06	0.02	0.02	
25	0.00	0.01	0.45	5.00	2.85	12.80	1.95	0.28	0.16	0.06	0.03	0.01	
26	0.00	0.02	0.36	5.48	6.20	24.74	1.41	0.26	0.26	0.06	0.04	0.02	
27	0.01	0.03	0.28	12.20	3.93	16.24	1.14	0.26	0.18	0.06	0.04	0.03	
28	0.00	0.03	0.24	11.40	2.40	11.00	1.05	0.24	0.14	0.06	0.04	0.03	
29	0.01	0.04	0.39	6.40	3.12	37.00	1.14	0.24	0.14	0.07		0.03	
30	0.02	0.03	0.36	11.40	37.00	36.10	5.80	0.24	0.14	0.05		0.03	
31		0.03		27.10	12.20		3.21		0.12	0.05		0.03	
Total	0.24	0.54	88.98	132.61	300.50	312.86	232.32	19.38	4.92	2.39	1.17	0.97	1096.88 CMSDAY
Mean	0.01	0.02	2.97	4.28	9.69	10.43	7.49	0.65	0.16	0.08	0.04	0.03	3.01 CMS
Max	0.02	0.04	23.44	27.10	37.00	37.00	27.70	2.76	0.26	0.12	0.06	0.05	37.00 CMS
Min	0.00	0.00	0.01	0.18	0.96	2.31	1.05	0.24	0.12	0.05	0.02	0.01	0.00 CMS
Runoff	0.021	0.047	7.688	11.458	25.963	27.031	20.072	1.674	0.425	0.206	0.101	0.084	94.770 MCM

Momentary Peak 53.22 CMS, at 2.86 M (A.D), at 9.00 Hours, on Aug 30, 1992

Runoff Yield 21.16 Liters/Second/Square KM, Momentary Peak Yield 374.79 Liters/Second/Square KM

WATER YEAR 1992

KHONG RIVER BASIN

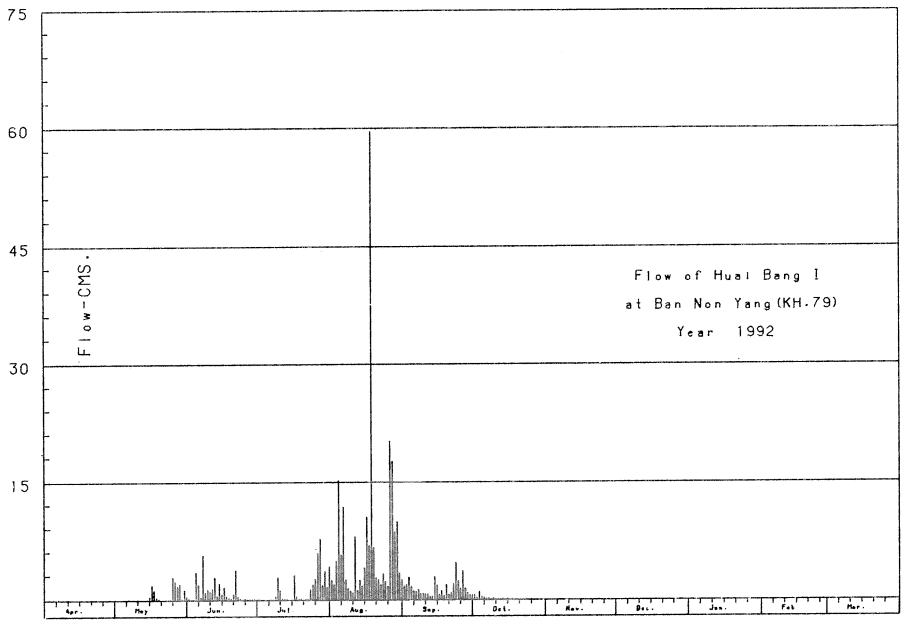
Huai Bang I at Ban Non Yang, Muk Dahan (Kh.79)

Location	Lat.16°-28'-49" N., Long. 104°-20'-08" E., on right bank at the bridge on highway, Ban Non Yang, Amphoe Kham Cha I, Muk Dahan.
Drainage Area	110 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	At abutment of the bridge.
Elevation	+9.673 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +3.63 m.(A.D.), and records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	0.37	0.44	0.42	0.83	0.74	0.57	0.36	0.29	0.27	0.24	0.22	
2	0.38	0.37	0.40	0.41	0.75	0.75	0.52	0.36	0.29	0.27	0.24	0.22	
3	0.38	0.37	0.39	0.40	1.09	0.88	0.65	0.37	0.29	0.27	0.24	0.22	
4	0.38	0.38	0.95	0.40	1.65	0.73	0.55	0.35	0.29	0.27	0.24	0.22	
5	0.38	0.37	0.76	0.40	1.16	0.66	0.52	0.35	0.29	0.27	0.24	0.22	
6	0.38	0.37	0.54	0.40	1.49	0.64	0.50	0.35	0.29	0.27	0.24	0.22	
7	0.37	0.37	1.15	0.37	0.84	0.68	0.48	0.35	0.29	0.26	0.24	0.22	
8	0.37	0.37	0.63	0.56	0.69	0.61	0.49	0.35	0.28	0.26	0.24	0.22	
9	0.37	0.37	0.68	0.88	0.66	0.62	0.48	0.35	0.28	0.26	0.23	0.22	
10	0.37	0.37	0.64	0.66	0.62	0.60	0.46	0.33	0.28	0.26	0.23	0.22	
11	0.37	0.37	0.69	0.53	1.30	0.60	0.45	0.33	0.28	0.26	0.23	0.22	
12	0.37	0.37	0.88	0.45	0.67	0.55	0.44	0.33	0.28	0.26	0.23	0.22	
13	0.37	0.37	0.57	0.42	0.83	0.54	0.44	0.32	0.28	0.26	0.23	0.22	
14	0.37	0.37	0.77	0.41	0.73	0.88	0.44	0.32	0.28	0.25	0.23	0.25	
15	0.37	0.55	0.61	0.40	1.01	0.75	0.44	0.32	0.27	0.25	0.23	0.25	
16	0.37	0.75	0.72	0.91	1.43	0.60	0.44	0.32	0.27	0.25	0.23	0.25	
17	0.37	0.66	0.55	0.57	1.24	0.65	0.43	0.31	0.27	0.25	0.23	0.24	
18	0.37	0.53	0.52	0.46	2.92	0.57	0.42	0.31	0.27	0.25	0.23	0.24	
19	0.37	0.43	0.48	0.44	1.22	0.76	0.41	0.30	0.26	0.25	0.23	0.24	
20	0.37	0.39	0.61	0.40	0.86	0.60	0.41	0.29	0.26	0.25	0.23	0.24	
21	0.37	0.38	0.98	0.40	0.83	0.62	0.40	0.29	0.26	0.25	0.23	0.24	
22	0.37	0.39	0.54	0.40	0.76	0.76	0.40	0.28	0.26	0.24	0.23	0.24	
23	0.37	0.38	0.47	0.67	0.93	1.08	0.39	0.28	0.26	0.24	0.22	0.24	
24	0.37	0.38	0.47	0.76	0.80	0.82	0.38	0.28	0.27	0.24	0.22	0.24	
25	0.37	0.88	0.45	0.84	0.73	0.69	0.38	0.28	0.28	0.24	0.22	0.24	
26	0.37	0.80	0.43	1.17	1.84	0.96	0.35	0.28	0.28	0.24	0.22	0.24	
27	0.37	0.74	0.42	1.29	1.75	0.70	0.35	0.28	0.28	0.24	0.22	0.24	
28	0.37	0.76	0.43	0.75	1.33	0.62	0.35	0.28	0.28	0.24	0.22	0.24	
29	0.37	0.49	0.43	0.97	1.40	0.59	0.36	0.29	0.28	0.24	0.22	0.23	
30	0.37	0.68	0.42	0.71	0.93	0.57	0.38	0.29	0.28	0.24		0.23	
31		0.54		1.02	0.83		0.36		0.28	0.24		0.23	
Mean	0.37	0.48	0.60	0.61	1.10	0.69	0.44	0.32	0.28	0.25	0.23	0.23	
Max	0.38	0.88	1.15	1.29	2.92	1.08	0.65	0.37	0.29	0.27	0.24	0.25	2.92
Min	0.37	0.37	0.39	0.37	0.62	0.54	0.35	0.28	0.26	0.24	0.22	0.22	0.22

Annual Max Momentary Gage Height 4.13 M (A.D), at 8.00 Hours, on Aug 18, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.19 M (A.D)
Left Bank Elevation 3.62 M (A.D)
Right Bank Elevation 4.04 M (A.D), Drainage Area 110 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.07	0.14	0.12	2.54	1.82	0.55	0.06	0.00	0.00	0.00	0.00	
2	0.08	0.07	0.10	0.11	1.90	1.90	0.30	0.06	0.00	0.00	0.00	0.00	
3	0.08	0.07	0.09	0.10	4.90	2.94	1.10	0.07	0.00	0.00	0.00	0.00	
4	0.08	0.08	3.55	0.10	15.30	1.74	0.45	0.05	0.00	0.00	0.00	0.00	
5	0.08	0.07	1.98	0.10	5.78	1.18	0.30	0.05	0.00	0.00	0.00	0.00	
6	0.08	0.07	0.40	0.10	11.80	1.02	0.20	0.05	0.00	0.00	0.00	0.00	
7	0.07	0.07	5.65	0.07	2.62	1.34	0.18	0.05	0.00	0.00	0.00	0.00	
8	0.07	0.07	0.94	0.50	1.42	0.78	0.19	0.05	0.00	0.00	0.00	0.00	
9	0.07	0.07	1.34	2.94	1.18	0.86	0.18	0.05	0.00	0.00	0.00	0.00	
10	0.07	0.07	1.02	1.18	0.86	0.70	0.16	0.03	0.00	0.00	0.00	0.00	
11	0.07	0.07	1.42	0.35	8.00	0.70	0.15	0.03	0.00	0.00	0.00	0.00	
12	0.07	0.07	2.94	0.15	1.26	0.45	0.14	0.03	0.00	0.00	0.00	0.00	
13	0.07	0.07	0.55	0.12	2.54	0.40	0.14	0.02	0.00	0.00	0.00	0.00	
14	0.07	0.07	2.06	0.11	1.74	2.94	0.14	0.02	0.00	0.00	0.00	0.00	
15	0.07	0.45	0.78	0.10	4.10	1.90	0.14	0.02	0.00	0.00	0.00	0.00	
16	0.07	1.90	1.66	3.19	10.60	0.70	0.14	0.02	0.00	0.00	0.00	0.00	
17	0.07	1.18	0.45	0.55	6.98	1.10	0.13	0.01	0.00	0.00	0.00	0.00	
18	0.07	0.35	0.30	0.16	59.64	0.55	0.12	0.01	0.00	0.00	0.00	0.00	
19	0.07	0.13	0.18	0.14	6.64	1.98	0.11	0.00	0.00	0.00	0.00	0.00	
20	0.07	0.09	0.78	0.10	2.78	0.70	0.11	0.00	0.00	0.00	0.00	0.00	
21	0.07	0.08	3.82	0.10	2.54	0.86	0.10	0.00	0.00	0.00	0.00	0.00	
22	0.07	0.09	0.40	0.10	1.98	1.98	0.10	0.00	0.00	0.00	0.00	0.00	
23	0.07	0.08	0.17	1.26	3.37	4.80	0.09	0.00	0.00	0.00	0.00	0.00	
24	0.07	0.08	0.17	1.98	2.30	2.46	0.08	0.00	0.00	0.00	0.00	0.00	
25	0.07	2.94	0.15	2.62	1.74	1.42	0.08	0.00	0.00	0.00	0.00	0.00	
26	0.07	2.30	0.13	5.91	20.20	3.64	0.05	0.00	0.00	0.00	0.00	0.00	
27	0.07	1.82	0.12	7.83	17.70	1.50	0.05	0.00	0.00	0.00	0.00	0.00	
28	0.07	1.98	0.13	1.90	8.60	0.86	0.05	0.00	0.00	0.00	0.00	0.00	
29	0.07	0.19	0.13	3.73	10.00	0.65	0.06	0.00	0.00	0.00		0.00	
30	0.07	1.34	0.12	1.58	3.37	0.55	0.08	0.00	0.00	0.00		0.00	
31		0.40		4.20	2.54		0.06		0.00	0.00		0.00	
Total	2.16	16.39	31.67	41.50	226.92	44.42	5.73	0.68	0.00	0.00	0.00	0.00	369.47 CMSDAY
Mean	0.07	0.53	1.06	1.34	7.32	1.48	0.18	0.02	0.00	0.00	0.00	0.00	1.01 CMS
Max	0.08	2.94	5.65	7.83	59.64	4.80	1.10	0.07	0.00	0.00	0.00	0.00	59.64 CMS
Min	0.07	0.07	0.09	0.07	0.86	0.40	0.05	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.187	1.416	2.736	3.586	19.606	3.838	0.495	0.059	0.000	0.000	0.000	0.000	31.922 MCM

Momentary Peak 122.80 CMS, at 4.13 M (A.D), at 8.00 Hours, on Aug 18, 1992

Runoff Yield 9.20 Liters/Second/Square KM, Momentary Peak Yield 1116.36 Liters/Second/Square KM

WATER YEAR 1992

KHONG RIVER BASIN

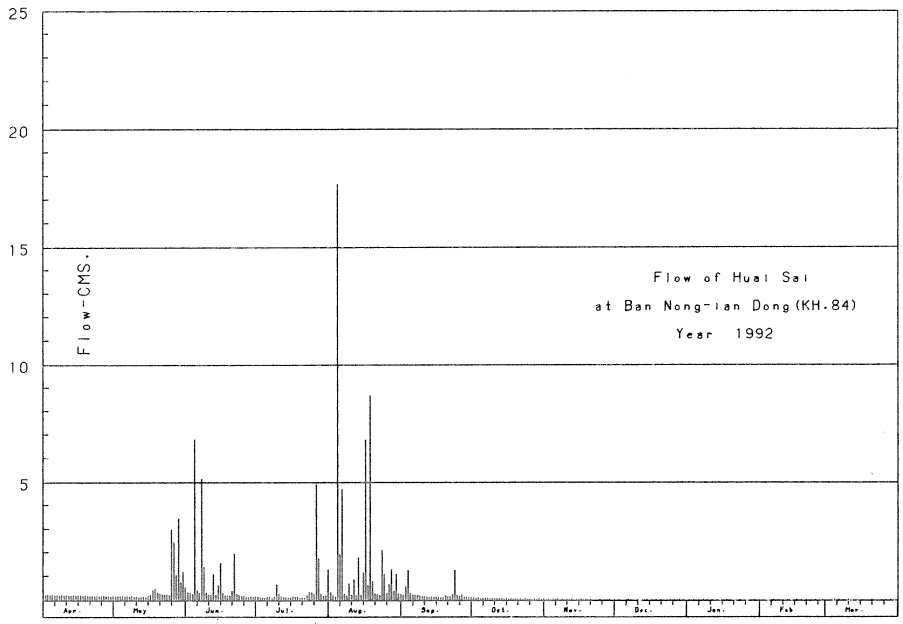
Huai Sai at Ban Nong Ian Dong, Muk Dahan (Kh.84)

Location	Lat. 16-32-15 N., Long. 104-24-20 E., on left bank at the bridge of Ban Huai Sai-Ban Nong Ian Dong Road, Amphoe Kham Cha-I, Muk Dahan.
Drainage Area	48 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Department.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+6.037 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Rather unstable 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 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.13	1.08	1.21	1.04	1.21	1.11	1.01	0.92	0.89	0.89	0.88	0.87	
2	1.13	1.08	1.20	1.02	1.12	1.26	1.00	0.92	0.89	0.89	0.88	0.87	
3	1.13	1.08	1.19	1.01	1.07	1.35	1.00	0.91	0.89	0.89	0.88	0.87	
4	1.13	1.08	1.63	1.01	1.90	1.20	1.00	0.91	0.89	0.89	0.88	0.87	
5	1.12	1.07	1.23	1.05	1.41	1.15	1.00	0.91	0.89	0.89	0.88	0.87	
6	1.12	1.07	1.20	1.04	1.55	1.12	1.00	0.91	0.89	0.89	0.88	0.87	
7	1.12	1.07	1.57	1.01	1.18	1.13	0.98	0.91	0.89	0.89	0.88	0.87	
8	1.12	1.07	1.36	1.05	1.09	1.08	0.98	0.91	0.89	0.89	0.88	0.87	
9	1.12	1.06	1.21	1.28	1.28	1.07	1.00	0.90	0.89	0.89	0.88	0.87	
10	1.11	1.06	1.13	1.17	1.14	1.06	0.98	0.90	0.89	0.89	0.88	0.87	
11	1.11	1.05	1.13	1.08	1.31	1.05	0.97	0.92	0.89	0.88	0.87	0.87	
12	1.11	1.05	1.33	1.05	1.11	1.05	0.97	0.91	0.89	0.88	0.87	0.87	
13	1.11	1.05	1.14	1.03	1.40	1.05	0.96	0.91	0.89	0.88	0.87	0.88	
14	1.11	1.05	1.27	1.02	1.13	1.05	0.95	0.90	0.89	0.88	0.87	0.88	
15	1.10	1.08	1.38	1.03	1.34	1.05	0.95	0.89	0.89	0.88	0.87	0.88	
16	1.10	1.12	1.20	1.06	1.63	1.03	0.95	0.90	0.89	0.88	0.87	0.88	
17	1.10	1.23	1.13	1.07	1.27	1.02	0.94	0.90	0.89	0.88	0.87	0.87	
18	1.10	1.24	1.08	1.05	1.69	1.01	0.95	0.90	0.89	0.88	0.87	0.87	
19	1.10	1.21	1.11	1.01	1.30	1.12	0.94	0.90	0.89	0.88	0.87	0.87	
20	1.09	1.18	1.22	1.00	1.20	1.04	0.93	0.90	0.89	0.88	0.87	0.86	
21	1.09	1.17	1.41	0.99	1.16	1.05	0.93	0.89	0.89	0.88	0.87	0.86	
22	1.09	1.16	1.18	1.13	1.13	1.17	0.93	0.89	0.89	0.88	0.87	0.86	
23	1.09	1.14	1.12	1.21	1.42	1.35	0.93	0.89	0.89	0.88	0.87	0.86	
24	1.08	1.14	1.09	1.21	1.33	1.13	0.93	0.89	0.89	0.88	0.87	0.86	
25	1.08	1.47	1.08	1.15	1.18	1.08	0.92	0.89	0.91	0.88	0.87	0.86	
26	1.09	1.44	1.05	1.56	1.28	1.14	0.92	0.89	0.91	0.88	0.87	0.86	
27	1.09	1.33	1.05	1.40	1.35	1.05	0.92	0.89	0.90	0.88	0.87	0.86	
28	1.08	1.50	1.05	1.17	1.22	1.03	0.93	0.89	0.89	0.88	0.87	0.86	
29	1.08	1.30	1.06	1.10	1.33	1.02	0.95	0.89	0.89	0.88		0.86	
30	1.08	1.34	1.05	1.10	1.18	1.01	0.93	0.89	0.89	0.88		0.86	
31		1.25		1.35	1.18		0.93		0.89	0.88		0.86	
Mean	1.10	1.17	1.20	1.11	1.29	1.10	0.96	0.90	0.89	0.88	0.87	0.87	
Max	1.13	1.50	1.63	1.56	1.90	1.35	1.01	0.92	0.91	0.89	0.88	0.88	1.90
Min	1.08	1.05	1.05	0.99	1.07	1.01	0.92	0.89	0.89	0.88	0.87	0.86	0.86

Annual Max Momentary Gage Height 2.66 M (A.D), at 12.00 Hours, on Jun 4, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -3.10 M (A.D)
Left Bank Elevation 3.59 M (A.D)
Right Bank Elevation 4.05 M (A.D), Drainage Area 48 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.23	0.18	0.35	0.14	0.35	0.21	0.11	0.06	0.04	0.04	0.04	0.04	
2	0.23	0.18	0.30	0.12	0.22	0.60	0.10	0.06	0.04	0.04	0.04	0.04	
3	0.23	0.18	0.29	0.11	0.17	1.30	0.10	0.06	0.04	0.04	0.04	0.04	
4	0.23	0.18	6.83	0.11	17.70	0.30	0.10	0.06	0.04	0.04	0.04	0.04	
5	0.22	0.17	0.45	0.15	1.97	0.25	0.10	0.06	0.04	0.04	0.04	0.04	
6	0.22	0.17	0.30	0.14	4.70	0.22	0.10	0.06	0.04	0.04	0.04	0.04	
7	0.22	0.17	5.18	0.11	0.28	0.23	0.09	0.06	0.04	0.04	0.04	0.04	
8	0.22	0.17	1.40	0.15	0.19	0.18	0.09	0.06	0.04	0.04	0.04	0.04	
9	0.22	0.16	0.35	0.70	0.70	0.17	0.10	0.05	0.04	0.04	0.04	0.04	
10	0.21	0.16	0.23	0.27	0.24	0.16	0.09	0.05	0.04	0.04	0.04	0.04	
11	0.21	0.15	0.23	0.18	0.90	0.15	0.09	0.06	0.04	0.04	0.04	0.04	
12	0.21	0.15	1.10	0.15	0.21	0.15	0.09	0.06	0.04	0.04	0.04	0.04	
13	0.21	0.15	0.24	0.13	1.80	0.15	0.08	0.06	0.04	0.04	0.04	0.04	
14	0.21	0.15	0.65	0.12	0.23	0.15	0.08	0.05	0.04	0.04	0.04	0.04	
15	0.20	0.18	1.60	0.13	1.20	0.15	0.08	0.04	0.04	0.04	0.04	0.04	
16	0.20	0.22	0.30	0.16	6.83	0.13	0.08	0.05	0.04	0.04	0.04	0.04	
17	0.20	0.45	0.23	0.17	0.65	0.12	0.07	0.05	0.04	0.04	0.04	0.04	
18	0.20	0.50	0.18	0.15	8.69	0.11	0.08	0.05	0.04	0.04	0.04	0.04	
19	0.20	0.35	0.21	0.11	0.80	0.22	0.07	0.05	0.04	0.04	0.04	0.04	
20	0.19	0.28	0.40	0.10	0.30	0.14	0.07	0.05	0.04	0.04	0.04	0.03	
21	0.19	0.27	1.97	0.10	0.26	0.15	0.07	0.04	0.04	0.04	0.04	0.03	
22	0.19	0.26	0.28	0.23	0.23	0.27	0.07	0.04	0.04	0.04	0.04	0.03	
23	0.19	0.24	0.22	0.35	2.14	1.30	0.07	0.04	0.04	0.04	0.04	0.03	
24	0.18	0.24	0.19	0.35	1.10	0.23	0.07	0.04	0.04	0.04	0.04	0.03	
25	0.18	2.99	0.18	0.25	0.28	0.18	0.06	0.04	0.06	0.04	0.04	0.03	
26	0.19	2.48	0.15	4.94	0.70	0.24	0.06	0.04	0.06	0.04	0.04	0.03	
27	0.19	1.10	0.15	1.80	1.30	0.15	0.06	0.04	0.05	0.04	0.04	0.03	
28	0.18	3.50	0.15	0.27	0.40	0.13	0.07	0.04	0.04	0.04	0.04	0.03	*
29	0.18	0.80	0.16	0.20	1.10	0.12	0.08	0.04	0.04	0.04		0.03	
30	0.18	1.20	0.15	0.20	0.28	0.11	0.07	0.04	0.04	0.04		0.03	
31		0.55		1.30	0.28		0.07		0.04	0.04		0.03	
Total	6.11	17.93	24.42	13.39	56.20	7.97	2.52	1.50	1.29	1.24	1.12	1.12	134.81 CMSDAY
Mean	0.20	0.58	0.81	0.43	1.81	0.27	0.08	0.05	0.04	0.04	0.04	0.04	0.37 CMS
Max	0.23	3.50	6.83	4.94	17.70	1.30	0.11	0.06	0.06	0.04	0.04	0.04	17.70 CMS
Min	0.18	0.15	0.15	0.10	0.17	0.11	0.06	0.04	0.04	0.04	0.04	0.03	0.03 CMS
Runoff	0.528	1.549	2.110	1.157	4.856	0.689	0.218	0.130	0.111	0.107	0.097	0.097	11.648 MCM

Momentary Peak 77.94 CMS, at 2.66 M (A.D), at 12.00 Hours, on Jun 4, 1992

Runoff Yield 7.69 Liters/Second/Square KM, Momentary Peak Yield 1623.75 Liters/Second/Square KM

WATER YEAR 1992

KHONG RIVER BASIN

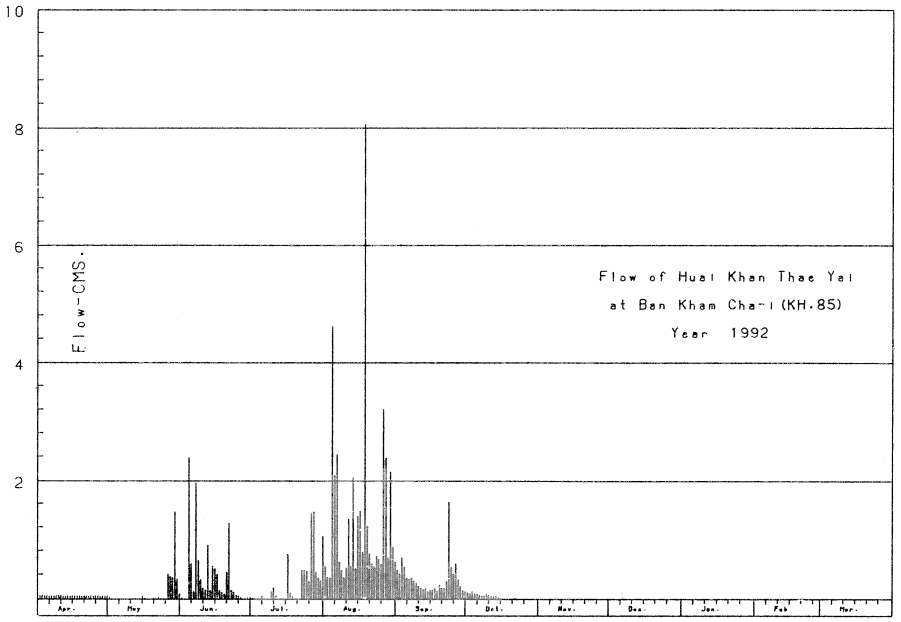
Huai Khan Thae Yai at Ban Kham Cha-I, Muk Dahan (KH.85)

Location	Lat. 16°-31'-12" N., Long. 104°-21'-58" E., on left bank at the bridge on road, Ban Kham Cha-I, Muk Dahan.
Drainage Area	28 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Department.
Location	On right bank downstream side at the abutment of the bridge.
Elevation	+6.657 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.34	0.32	0.31	0.31	0.53	0.51	0.37	0.30	0.26	0.25	0.25	0.24	
2	0.34	0.10	0.30	0.30	0.47	0.49	0.36	0.29	0.26	0.25	0.25	0.24	
3	0.34	0.00	0.29	0.30	0.47	0.57	0.38	0.28	0.26	0.25	0.25	0.24	
4	0.33	0.00	0.97	0.30	1.37	0.53	0.36	0.27	0.26	0.25	0.25	0.24	
5	0.33	0.00	0.54	0.33	0.91	0.47	0.36	0.27	0.26	0.25	0.25	0.24	
6	0.33	0.00	0.39	0.30	0.98	0.46	0.34	0.27	0.27	0.25	0.25	0.24	
7	0.33	0.00	0.88	0.30	0.55	0.47	0.34	0.28	0.27	0.25	0.25	0.24	
8	0.34	0.00	0.56	0.30	0.51	0.45	0.33	0.28	0.27	0.25	0.25	0.24	
9	0.34	0.00	0.46	0.39	0.47	0.44	0.36	0.28	0.26	0.25	0.25	0.24	
10	0.34	0.00	0.41	0.41	0.52	0.42	0.34	0.28	0.26	0.25	0.25	0.24	
11	0.33	0.00	0.40	0.34	0.74	0.41	0.33	0.28	0.26	0.25	0.24	0.24	
12	0.33	0.31	0.63	0.31	0.53	0.41	0.33	0.28	0.26	0.25	0.24	0.24	
13	0.33	0.31	0.40	0.30	0.90	0.41	0.33	0.28	0.26	0.25	0.24	0.24	
14	0.33	0.31	0.53	0.30	0.52	0.39	0.32	0.27	0.26	0.25	0.24	0.24	
15	0.33	0.33	0.52	0.30	0.75	0.40	0.31	0.27	0.26	0.25	0.24	0.24	
16	0.33	0.31	0.49	0.59	0.77	0.40	0.31	0.27	0.26	0.25	0.24	0.26	
17	0.33	0.30	0.40	0.37	0.60	0.41	0.31	0.27	0.26	0.25	0.24	0.26	
18	0.33	0.10	0.37	0.33	1.88	0.39	0.31	0.27	0.26	0.25	0.24	0.26	
19	0.33	0.00	0.36	0.30	0.71	0.43	0.32	0.27	0.26	0.25	0.24	0.26	
20	0.33	0.32	0.50	0.30	0.59	0.41	0.31	0.27	0.26	0.25	0.24	0.26	
21	0.33	0.31	0.72	0.30	0.54	0.41	0.31	0.27	0.25	0.25	0.24	0.26	
22	0.33	0.32	0.40	0.51	0.53	0.45	0.30	0.27	0.25	0.25	0.24	0.26	
23	0.33	0.31	0.37	0.51	0.58	0.81	0.30	0.28	0.25	0.25	0.24	0.26	
24	0.33	0.31	0.35	0.51	0.56	0.53	0.29	0.27	0.25	0.25	0.24	0.26	
25	0.33	0.31	0.33	0.45	0.54	0.49	0.28	0.26	0.25	0.25	0.24	0.26	
26	0.33	0.49	0.32	0.76	1.13	0.54	0.28	0.26	0.25	0.25	0.24	0.26	
27	0.33	0.48	0.31	0.77	0.97	0.46	0.27	0.26	0.25	0.25	0.24	0.26	
28	0.33	0.47	0.31	0.50	0.57	0.42	0.27	0.26	0.25	0.25	0.24	0.26	
29	0.33	0.77	0.32	0.47	0.92	0.40	0.28	0.26	0.25	0.25		0.26	
30	0.33	0.46	0.32	0.45	0.62	0.38	0.30	0.26	0.25	0.25		0.26	
31		0.36		0.67	0.55		0.30		0.25	0.25		0.26	
Mean	0.33	0.24	0.45	0.41	0.72	0.46	0.32	0.27	0.26	0.25	0.24	0.25	
Max	0.34	0.77	0.97	0.77	1.88	0.81	0.38	0.30	0.27	0.25	0.25	0.26	1.88
Min	0.33	0.00	0.29	0.30	0.47	0.38	0.27	0.26	0.25	0.25	0.24	0.24	0.00

Annual Max Momentary Gage Height 2.85 M (A.D), at 7.00 Hours, on Aug 18, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.24 M (A.D)
Left Bank Elevation 4.59 M (A.D)
Right Bank Elevation 4.02 M (A.D), Drainage Area 28 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.03	0.01	0.01	0.55	0.48	0.11	0.00	0.00	0.00	0.00	0.00	
2	0.06	0.00	0.00	0.00	0.36	0.42	0.09	0.00	0.00	0.00	0.00	0.00	
3	0.06	0.00	0.00	0.00	0.36	0.69	0.12	0.00	0.00	0.00	0.00	0.00	
4	0.05	0.00	2.40	0.00	4.62	0.55	0.09	0.00	0.00	0.00	0.00	0.00	
5	0.05	0.00	0.59	0.05	2.10	0.36	0.09	0.00	0.00	0.00	0.00	0.00	
6	0.05	0.00	0.13	0.00	2.45	0.33	0.06	0.00	0.00	0.00	0.00	0.00	
7	0.05	0.00	1.96	0.00	0.63	0.36	0.06	0.00	0.00	0.00	0.00	0.00	
8	0.06	0.00	0.66	0.00	0.48	0.30	0.05	0.00	0.00	0.00	0.00	0.00	
9	0.06	0.00	0.33	0.13	0.36	0.27	0.09	0.00	0.00	0.00	0.00	0.00	
10	0.06	0.00	0.18	0.18	0.52	0.21	0.06	0.00	0.00	0.00	0.00	0.00	
11	0.05	0.00	0.15	0.06	1.36	0.18	0.05	0.00	0.00	0.00	0.00	0.00	
12	0.05	0.01	0.92	0.01	0.55	0.18	0.05	0.00	0.00	0.00	0.00	0.00	
13	0.05	0.01	0.15	0.00	2.05	0.18	0.05	0.00	0.00	0.00	0.00	0.00	
14	0.05	0.01	0.55	0.00	0.52	0.13	0.03	0.00	0.00	0.00	0.00	0.00	
15	0.05	0.05	0.52	0.00	1.40	0.15	0.01	0.00	0.00	0.00	0.00	0.00	
16	0.05	0.01	0.42	0.76	1.48	0.15	0.01	0.00	0.00	0.00	0.00	0.00	
17	0.05	0.00	0.15	0.11	0.80	0.18	0.01	0.00	0.00	0.00	0.00	0.00	
18	0.05	0.00	0.11	0.05	8.06	0.13	0.01	0.00	0.00	0.00	0.00	0.00	
19	0.05	0.00	0.09	0.00	1.24	0.24	0.03	0.00	0.00	0.00	0.00	0.00	
20	0.05	0.03	0.45	0.00	0.76	0.18	0.01	0.00	0.00	0.00	0.00	0.00	
21	0.05	0.01	1.28	0.00	0.59	0.18	0.01	0.00	0.00	0.00	0.00	0.00	
22	0.05	0.03	0.15	0.48	0.55	0.30	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.05	0.01	0.11	0.48	0.73	1.65	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.05	0.01	0.07	0.48	0.66	0.55	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.05	0.01	0.05	0.30	0.59	0.42	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.05	0.42	0.03	1.44	3.21	0.59	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.05	0.39	0.01	1.48	2.40	0.33	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.05	0.36	0.01	0.45	0.69	0.21	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.05	1.48	0.03	0.36	2.15	0.15	0.00	0.00	0.00	0.00		0.00	
30	0.05	0.33	0.03	0.30	0.88	0.12	0.00	0.00	0.00	0.00		0.00	
31		0.09		1.08	0.63		0.00		0.00	0.00		0.00	
Total	1.56	3.29	11.54	8.21	43.73	10.17	1.09	0.00	0.00	0.00	0.00	0.00	79.59 CMSDAY
Mean	0.05	0.11	0.38	0.26	1.41	0.34	0.04	0.00	0.00	0.00	0.00	0.00	0.22 CMS
Max	0.06	1.48	2.40	1.48	8.06	1.65	0.12	0.00	0.00	0.00	0.00	0.00	8.06 CMS
Min	0.05	0.00	0.00	0.00	0.36	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.135	0.284	0.997	0.709	3.778	0.879	0.094	0.000	0.000	0.000	0.000	0.000	6.877 MCM

Momentary Peak 16.17 CMS, at 2.85 M (A.D), at 7.00 Hours, on Aug 18, 1992
Runoff Yield 7.79 Liters/Second/Square KM, Momentary Peak Yield 577.68 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

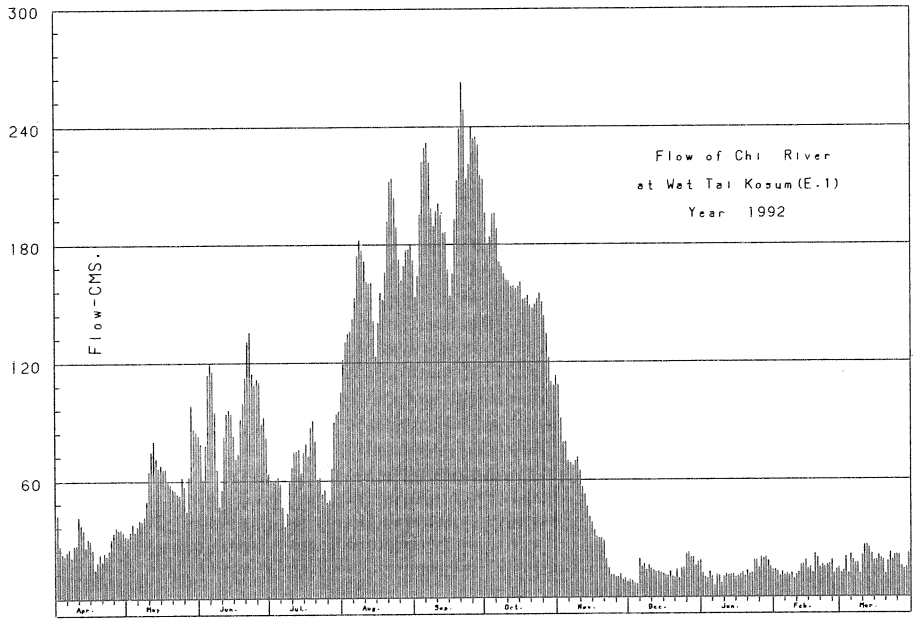
Chi River at Wat Tai Kosum, Maha Sarakham (E.1)

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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1936-1943, 1951 to date.
Rating Operation	
Period of Rating	1965-1973, 1981 to date.
Rated by Float	-
Rated by Current Meter	1965-1973, 1981 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Nam Phong Dam above gage site. Stage-discharge relation defined by 22 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.64	137.38	138.36	138.01	139.11	139.61	140.26	138.90	136.78	136.89	136.96	136.90	
2	137.28	137.44	138.01	138.00	139.26	139.77	140.01	138.60	136.77	136.83	136.92	136.93	
3	137.19	137.54	138.35	138.01	139.32	140.25	140.08	138.37	136.70	136.80	136.85	137.12	
4	137.15	137.45	138.99	138.04	139.34	140.61	140.25	138.38	136.70	136.92	136.91	136.89	
5	137.21	137.51	139.08	137.96	139.44	140.71	140.26	138.20	137.11	136.83	136.86	137.16	
6	137.24	137.57	139.01	137.72	139.60	140.74	140.14	138.18	137.01	136.66	136.88	137.08	
7	137.14	137.56	138.66	137.51	139.93	140.61	139.88	138.15	137.04	136.86	136.85	137.04	
8	137.29	137.62	138.12	137.66	140.05	140.29	139.84	138.20	136.95	136.86	136.90	137.05	
9	137.29	137.79	137.73	138.00	139.97	140.16	139.79	138.23	137.03	136.70	136.80	136.88	
10	137.61	138.10	137.91	138.14	139.89	140.27	139.74	138.10	136.97	136.84	136.87	137.15	
11	137.52	138.29	138.43	138.29	139.73	140.33	139.73	137.93	136.95	136.87	136.90	137.27	
12	137.47	138.39	138.64	138.29	139.71	140.24	139.69	137.86	136.91	136.86	137.03	137.28	
13	137.27	138.23	138.68	138.31	139.72	140.11	139.69	137.72	136.93	136.86	137.03	137.24	
14	137.37	138.13	138.64	138.08	139.42	140.11	139.67	137.61	136.90	136.88	137.09	137.17	
15	137.34	138.16	138.44	138.28	139.14	139.82	139.69	137.54	136.89	136.82	136.96	137.07	
16	137.23	138.12	138.22	138.36	139.41	139.62	139.72	137.46	136.85	136.85	136.99	137.08	
17	136.98	138.12	138.27	138.25	139.64	139.79	139.59	137.38	136.85	136.87	136.90	137.14	
18	137.07	137.99	138.59	138.51	139.59	140.21	139.59	137.37	136.93	136.90	137.16	137.11	
19	137.18	137.96	138.74	138.58	139.80	140.49	139.62	137.36	136.84	136.85	137.12	137.08	
20	137.09	137.92	138.96	138.39	140.20	140.84	139.54	137.34	136.82	136.94	136.98	136.88	
21	137.19	137.90	139.26	138.02	140.48	141.14	139.52	137.10	136.95	136.87	137.03	137.06	
22	137.15	137.87	139.34	138.03	140.50	140.96	139.55	136.99	136.81	136.90	136.99	137.18	
23	137.23	137.85	139.00	137.87	140.37	140.50	139.59	136.86	136.98	137.09	137.03	137.09	
24	137.36	138.04	138.90	137.90	140.15	140.60	139.64	136.87	136.98	137.08	137.03	137.14	
25	137.43	137.94	138.95	137.78	139.90	140.85	139.57	136.84	137.17	136.99	137.09	137.15	
26	137.50	137.68	138.92	137.80	139.74	140.77	139.46	136.83	137.18	137.12	136.88	137.14	
27	137.47	138.04	138.55	138.13	139.85	140.78	139.32	136.88	137.13	137.11	136.96	137.01	
28	137.47	138.72	138.61	138.56	139.97	140.73	139.13	136.79	137.12	137.12	136.98	136.95	
29	137.44	138.50	138.42	138.64	139.98	140.52	138.92	136.81	137.02	137.08		136.99	
30	137.39	138.47	138.07	138.66	140.01	140.50	138.89	136.75	137.06	137.00		137.17	
31		138.44		138.84	139.89		138.97		137.09	136.94		137.20	
Mean	137.31	137.96	138.60	138.15	139.78	140.40	139.66	137.59	136.95	136.91	136.96	137.08	
Max	137.64	138.72	139.34	138.84	140.50	141.14	140.26	138.90	137.18	137.12	137.16	137.28	141.14
Min	136.98	137.38	137.73	137.51	139.11	139.61	138.89	136.75	136.70	136.66	136.80	136.88	136.66

Annual Max Momentary Gage Height 141.15 M (MSL), at 18.00 Hours, on Sep 21, 1992
Zero Gage at Bottom Elevation 136.64 M (MSL), River Bed 136.37 M (MSL)
Left Bank Elevation 147.35 M (MSL)
Right Bank Elevation 150.55 M (MSL), Drainage Area 29788 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.80	31.10	78.80	60.50	121.60	153.65	196.20	109.00	9.00	12.20	14.30	12.50	
2	26.70	33.80	60.50	60.00	130.90	164.05	179.65	92.00	8.75	10.40	13.10	13.40	
3	23.10	38.30	78.25	60.50	134.80	195.50	184.20	79.35	7.00	9.50	11.00	20.30	
4	21.50	34.25	114.40	62.00	136.10	221.75	195.50	79.90	7.00	13.10	12.80	12.20	
5	23.90	36.95	119.80	58.00	142.60	229.25	196.20	70.00	19.90	10.40	11.30	21.90	
6	25.10	39.65	115.60	46.40	153.00	231.50	188.10	69.00	15.90	6.00	11.90	18.70	
7	21.10	39.20	95.30	36.95	174.45	221.75	171.20	67.50	17.10	11.30	11.00	17.10	
8	27.10	41.90	66.00	43.70	182.25	198.30	168.60	70.00	14.00	11.30	12.50	17.50	
9	27.10	49.55	46.85	60.00	177.05	189.40	165.35	71.65	16.70	7.00	9.50	11.90	
10	41.45	65.00	55.50	67.00	171.85	196.90	162.10	65.00	14.60	10.70	11.60	21.50	
11	37.40	74.95	82.65	74.95	161.45	201.10	161.45	56.50	14.00	11.60	12.50	26.30	
12	35.15	80.45	94.20	74.95	160.15	194.80	158.85	53.00	12.80	11.30	16.70	26.70	
13	26.30	71.65	96.40	76.05	160.80	186.15	158.85	46.40	13.40	11.30	16.70	25.10	
14	30.65	66.50	94.20	64.00	141.30	186.15	157.55	41.45	12.50	11.90	19.10	22.30	
15	29.30	68.00	83.20	74.40	123.40	167.30	158.85	38.30	12.20	10.10	14.30	18.30	
16	24.70	66.00	71.10	78.80	140.65	154.30	160.80	34.70	11.00	11.00	15.20	18.70	
17	14.90	66.00	73.85	72.75	155.60	165.35	152.35	31.10	11.00	11.60	12.50	21.10	
18	18.30	59.50	91.45	87.05	152.35	192.70	152.35	30.65	13.40	12.50	21.90	19.90	
19	22.70	58.00	99.70	90.90	166.00	212.75	154.30	30.20	10.70	11.00	20.30	18.70	
20	19.10	56.00	112.60	80.45	192.00	239.00	149.10	29.30	10.10	13.70	14.90	11.90	
21	23.10	55.00	130.90	61.00	212.00	262.70	147.80	19.50	14.00	11.60	16.70	17.90	
22	21.50	53.50	136.10	61.50	213.50	248.30	149.75	15.20	9.80	12.50	15.20	22.70	
23	24.70	52.50	115.00	53.50	203.90	213.50	152.35	11.30	14.90	19.10	16.70	19.10	
24	30.20	62.00	109.00	55.00	188.75	221.00	155.60	11.60	14.90	18.70	16.70	21.10	
25	33.35	57.00	112.00	49.10	172.50	239.75	151.05	10.70	22.30	15.20	19.10	21.50	
26	36.50	44.60	110.20	50.00	162.10	233.75	143.90	10.40	22.70	20.30	11.90	21.10	
27	35.15	62.00	89.25	66.50	169.25	234.50	134.80	11.90	20.70	19.90	14.30	15.90	
28	35.15	98.60	92.55	89.80	177.05	230.75	122.80	9.25	20.30	20.30	14.90	14.00	
29	33.80	86.50	82.10	94.20	177.70	215.00	110.20	9.80	16.30	18.70		15.20	
30	31.55	84.85	63.50	95.30	179.65	213.50	108.40	8.25	17.90	15.50		22.30	
31		83.20		105.40	171.85		113.20		19.10	13.70		23.50	
Total	843.35	1816.50	2770.95	2110.65	5106.55	6214.40	4861.40	1282.90	443.95	403.40	408.60	590.30	26852.95 CMSDAY
Mean	28.11	58.60	92.36	68.09	164.73	207.15	156.82	42.76	14.32	13.01	14.59	19.04	73.57 CMS
Max	42.80	98.60	136.10	105.40	213.50	262.70	196.20	109.00	22.70	20.30	21.90	26.70	262.70 CMS
Min	14.90	31.10	46.85	36.95	121.60	153.65	108.40	8.25	7.00	6.00	9.50	11.90	6.00 CMS
Runoff	72.865	156.946	239.410	182.360	441.206	536.924	420.025	110.843	38.357	34.854	35.303	51.002	2320.095 MCM

Momentary Peak 263.50 CMS, at 141.15 M (MSL), at 18.00 Hours, on Sep 21, 1992
Runoff Yield 2.47 Liters/Second/Square KM, Momentary Peak Yield 8.85 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

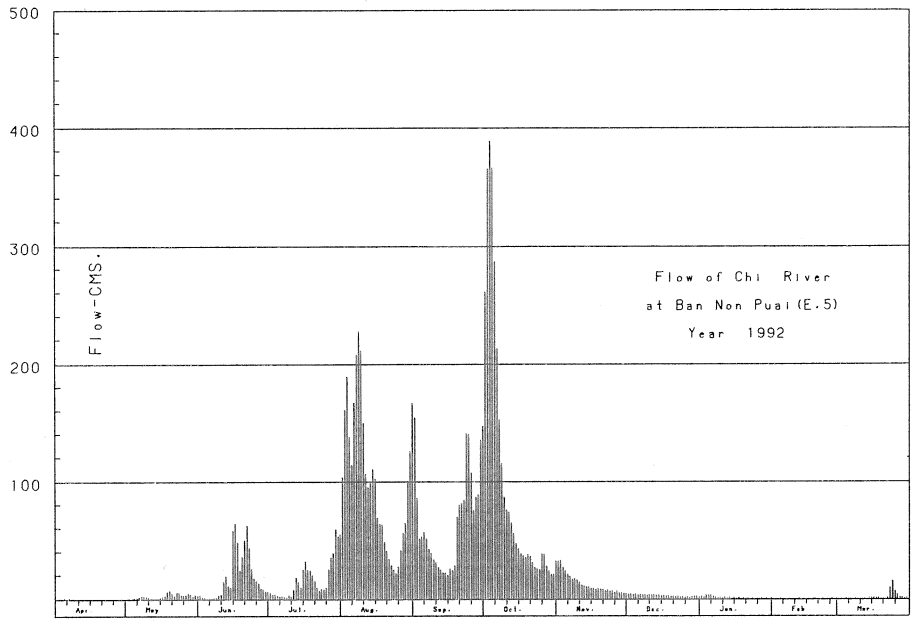
Chi River at Ban Non Puai, Chaiyaphum (E.5)

Location	Lat. 15-46-07 N., Long. 101-49-03 E., on left bank near Ban Non Puai about 30 meters downstream from Ban Ta Ngo, Amphoe Ban Khwao, Chaiyaphum.
Drainage Area	4,254 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+186.07 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Infront of the station office.
Elevation	+197.543 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1958 to date.
Rating Operation	
Period of Rating	1967-1971, 1973, 1979, 1982 to date.
Rated by Float	-
Rated by Current Meter	1967-1971, 1973, 1979, 1982 to date.
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 45 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.20	190.01	190.35	190.41	191.52	193.00	194.98	190.80	190.39	190.32	190.21	190.20	
2	190.21	190.06	190.29	190.38	193.15	191.30	196.23	190.81	190.38	190.32	190.20	190.21	
3	190.20	190.12	190.22	190.37	193.77	191.00	196.46	190.75	190.38	190.35	190.20	190.21	
4	190.19	190.14	190.23	190.35	192.56	191.01	196.23	190.71	190.38	190.36	190.20	190.22	
5	190.18	190.25	190.19	190.33	191.89	191.05	195.33	190.68	190.37	190.35	190.20	190.20	
6	190.18	190.26	190.17	190.31	193.27	191.00	194.23	190.65	190.37	190.33	190.19	190.20	
7	190.18	190.34	190.23	190.30	194.14	190.91	192.94	190.62	190.37	190.28	190.18	190.20	
8	190.17	190.31	190.29	190.29	194.46	190.87	191.91	190.62	190.36	190.28	190.17	190.18	
9	190.15	190.32	190.34	190.37	194.19	190.82	191.31	190.61	190.36	190.27	190.16	190.18	
10	190.13	190.24	190.36	190.31	192.89	190.79	191.22	190.58	190.36	190.26	190.15	190.17	
11	190.13	190.16	190.59	190.47	191.62	190.75	191.20	190.55	190.37	190.27	190.15	190.16	
12	190.12	190.13	190.65	190.64	191.37	190.72	191.13	190.53	190.36	190.27	190.16	190.14	
13	190.12	190.12	190.54	190.58	191.40	190.70	191.04	190.53	190.36	190.26	190.18	190.15	
14	190.12	190.11	190.51	190.52	191.77	190.69	190.96	190.52	190.35	190.25	190.18	190.27	
15	190.12	190.28	191.07	190.73	191.50	190.67	190.91	190.51	190.35	190.25	190.17	190.29	
16	190.06	190.30	191.12	190.80	191.16	190.73	190.87	190.50	190.34	190.24	190.17	190.26	
17	190.04	190.34	190.97	190.72	191.12	190.72	190.85	190.50	190.34	190.24	190.19	190.28	
18	189.99	190.43	190.72	190.72	191.11	190.76	190.84	190.50	190.33	190.23	190.20	190.27	
19	189.98	190.47	190.84	190.66	190.97	191.17	190.86	190.50	190.33	190.23	190.20	190.24	
20	189.95	190.39	190.98	190.60	190.89	191.25	190.85	190.48	190.32	190.23	190.20	190.23	
21	189.93	190.34	191.11	190.51	190.82	191.26	190.79	190.47	190.32	190.23	190.18	190.21	
22	189.93	190.43	190.92	190.47	190.77	191.29	190.75	190.47	190.32	190.23	190.17	190.25	
23	189.93	190.41	190.73	190.49	190.72	192.66	190.73	190.46	190.31	190.24	190.17	190.51	
24	189.93	190.37	190.63	190.49	190.69	192.62	190.73	190.45	190.31	190.23	190.17	190.60	
25	189.92	190.34	190.59	190.51	190.75	191.67	190.87	190.43	190.30	190.22	190.18	190.46	
26	189.94	190.35	190.57	190.73	190.90	191.21	190.86	190.45	190.30	190.22	190.20	190.37	
27	189.95	190.41	190.51	190.84	191.05	191.31	190.76	190.42	190.30	190.22	190.21	190.31	
28	189.99	190.37	190.48	190.87	191.12	191.32	190.71	190.41	190.31	190.23	190.21	190.28	
29	190.00	190.33	190.45	191.08	191.44	192.50	190.68	190.41	190.33	190.24		190.25	
30	189.99	190.35	190.43	191.02	192.21	192.80	190.67	190.39	190.32	190.23		190.23	
31		190.35		191.03	193.26		190.81		190.31	190.22		190.22	
Mean	190.06	190.28	190.57	190.58	191.89	191.28	191.89	190.54	190.34	190.26	190.18	190.26	
Max	190.21	190.47	191.12	191.08	194.46	193.00	196.46	190.81	190.39	190.36	190.21	190.60	196.46
Min	189.92	190.01	190.17	190.29	190.69	190.67	190.67	190.39	190.30	190.22	190.15	190.14	189.92

Annual Max Momentary Gage Height 196.48 M (MSL), at 21.00 Hours, on Oct 3, 1992
Zero Gage at Bottom Elevation 186.07 M (MSL), River Bed 185.88 M (MSL)
Left Bank Elevation 197.58 M (MSL)
Right Bank Elevation 197.53 M (MSL), Drainage Area 4254 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.0	0.4	3.5	5.4	103.6	155.0	261.1	32.0	4.7	2.6	1.1	1.0	
2	1.1	0.6	1.9	4.4	161.7	86.0	366.0	33.0	4.4	2.6	1.0	1.1	
3	1.0	0.8	1.2	4.1	189.7	52.0	389.3	27.5	4.4	3.5	1.0	1.1	
4	1.0	0.8	1.3	3.5	138.1	53.0	366.0	23.9	4.4	3.8	1.0	1.2	
5	0.9	1.5	1.0	2.9	114.7	57.0	287.3	21.6	4.1	3.5	1.0	1.0	
6	0.9	1.6	0.9	2.3	167.2	52.0	213.8	19.5	4.1	2.9	1.0	1.0	
7	0.9	3.2	1.3	2.0	208.7	43.0	152.6	17.4	4.1	1.8	0.9	1.0	
8	0.9	2.3	1.9	1.9	227.6	39.0	115.4	17.4	3.8	1.8	0.9	0.9	
9	0.8	2.6	3.2	4.1	211.5	34.0	87.4	16.7	3.8	1.7	0.9	0.9	
10	0.8	1.4	3.8	2.3	150.6	31.1	76.4	14.6	3.8	1.6	0.8	0.9	
11	0.8	0.9	15.3	7.8	106.6	27.5	74.0	12.5	4.1	1.7	0.8	0.9	
12	0.8	0.8	19.5	18.8	95.8	24.8	65.6	11.1	3.8	1.7	0.9	0.8	
13	0.8	0.8	11.8	14.6	100.0	23.0	56.0	11.1	3.8	1.6	0.9	0.8	
14	0.8	0.7	9.7	10.4	111.1	22.3	48.0	10.4	3.5	1.5	0.9	1.7	
15	0.8	1.8	59.0	25.7	103.0	20.9	43.0	9.7	3.5	1.5	0.9	1.9	
16	0.6	2.0	64.4	32.0	69.2	25.7	39.0	9.0	3.2	1.4	0.9	1.6	
17	0.5	3.2	49.0	24.8	64.4	24.8	37.0	9.0	3.2	1.4	1.0	1.8	
18	0.4	6.2	24.8	24.8	63.2	28.4	36.0	9.0	2.9	1.3	1.0	1.7	
19	0.4	7.8	36.0	20.2	49.0	70.4	38.0	9.0	2.9	1.3	1.0	1.4	
20	0.3	4.7	50.0	16.0	41.0	80.0	37.0	8.2	2.6	1.3	1.0	1.3	
21	0.3	3.2	63.2	9.7	34.0	81.2	31.1	7.8	2.6	1.3	0.9	1.1	
22	0.3	6.2	44.0	7.8	29.3	84.8	27.5	7.8	2.6	1.3	0.9	1.5	
23	0.3	5.4	25.7	8.6	24.8	141.6	25.7	7.4	2.3	1.4	0.9	9.7	
24	0.3	4.1	18.1	8.6	22.3	140.2	25.7	7.0	2.3	1.3	0.9	16.0	
25	0.2	3.2	15.3	9.7	27.5	108.1	39.0	6.2	2.0	1.2	0.9	7.4	
26	0.3	3.5	13.9	25.7	42.0	75.2	38.0	7.0	2.0	1.2	1.0	4.1	
27	0.3	5.4	9.7	36.0	57.0	87.4	28.4	5.8	2.0	1.2	1.1	2.3	
28	0.4	4.1	8.2	39.0	64.4	88.8	23.9	5.4	2.3	1.3	1.1	1.8	
29	0.4	2.9	7.0	60.0	101.2	136.0	21.6	5.4	2.9	1.4		1.5	
30	0.4	3.5	6.2	54.0	125.9	147.0	20.9	4.7	2.6	1.3		1.3	
31		3.5		55.0	166.7		33.0		2.3	1.2		1.2	
Total	18.7	89.1	570.8	542.1	3171.8	2040.2	3103.7	387.1	101.0	54.6	26.6	71.9	10177.6 CMSDAY
Mean	0.6	2.9	19.0	17.5	102.3	68.0	100.1	12.9	3.3	1.8	0.9	2.3	27.9 CMS
Max	1.1	7.8	64.4	60.0	227.6	155.0	389.3	33.0	4.7	3.8	1.1	16.0	389.3 CMS
Min	0.2	0.4	0.9	1.9	22.3	20.9	20.9	4.7	2.0	1.2	0.8	0.8	0.2 CMS
Runoff	1.62	7.70	49.32	46.84	274.04	176.27	268.16	33.45	8.73	4.72	2.30	6.21	879.34 MCM

Momentary Peak 391.40 CMS, at 196.48 M (MSL), at 21.00 Hours, on Oct 3, 1992

Runoff Yield 6.55 Liters/Second/Square KM, Momentary Peak Yield 92.01 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

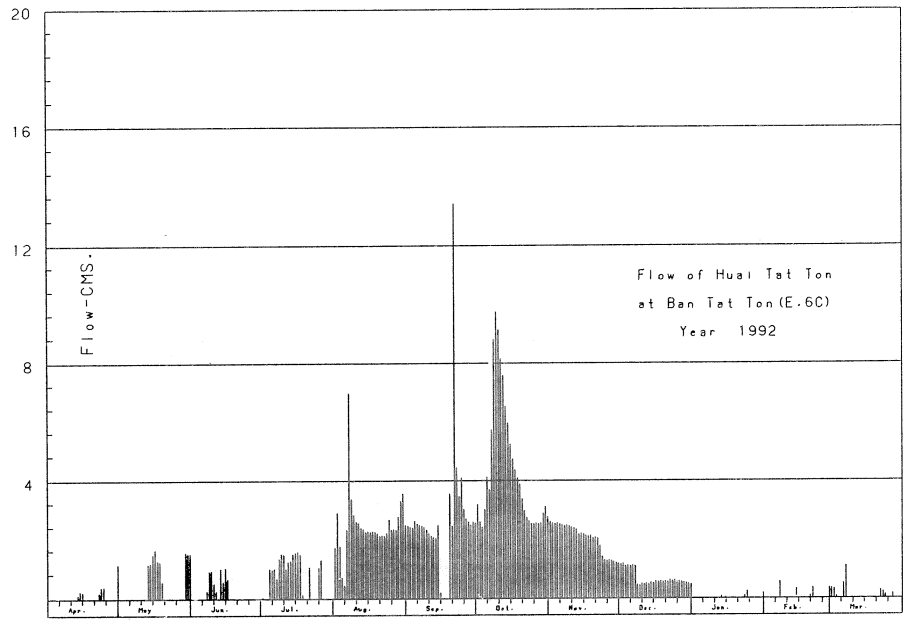
Huai Tat Ton at Ban Tat Ton, Chaiyaphum (E.6C).

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	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.09	-0.21	-0.23	-0.08	0.26	0.37	0.47	0.39	0.18	-0.10	-0.16	0.01	
2	-0.09	-0.22	-0.23	-0.10	0.43	0.36	0.39	0.38	0.18	-0.10	-0.21	0.01	
3	-0.10	-0.22	-0.23	-0.10	0.27	0.36	0.36	0.38	0.17	-0.10	-0.28	-0.07	
4	-0.10	-0.23	-0.23	0.15	0.10	0.39	0.45	0.38	0.17	-0.10	-0.30	-0.15	
5	-0.11	-0.23	-0.23	0.15	0.04	0.38	0.59	0.38	0.17	-0.10	-0.30	-0.22	
6	-0.12	-0.24	-0.23	0.15	0.35	0.37	0.54	0.37	0.17	-0.10	-0.14	0.05	
7	-0.20	-0.24	-0.01	0.10	0.93	0.37	0.79	0.37	0.17	-0.10	0.07	0.17	
8	-0.21	-0.24	0.14	0.21	0.50	0.36	1.10	0.37	0.04	-0.10	-0.18	-0.12	
9	-0.22	-0.25	0.14	0.23	0.42	0.35	1.18	0.37	0.04	-0.10	-0.21	-0.12	
10	-0.22	-0.25	0.06	0.23	0.39	0.33	1.13	0.36	0.05	-0.10	-0.27	-0.12	
11	-0.23	-0.25	-0.01	0.15	0.38	0.32	1.04	0.36	0.05	-0.10	-0.28	-0.12	
12	-0.24	-0.25	-0.21	0.19	0.36	0.31	0.99	0.35	0.05	-0.10	-0.29	-0.12	
13	-0.05	0.18	0.15	0.20	0.35	0.31	0.88	0.33	0.05	-0.07	-0.11	-0.12	
14	-0.02	0.18	0.07	0.23	0.34	0.37	0.82	0.33	0.06	-0.22	0.01	-0.12	
15	-0.02	0.23	0.16	0.24	0.34	-0.03	0.73	0.33	0.06	-0.08	-0.15	-0.12	
16	-0.18	0.25	0.09	0.24	0.34	-0.10	0.67	0.32	0.07	-0.10	-0.26	-0.12	
17	-0.20	0.20	-0.12	0.23	0.34	-0.12	0.62	0.32	0.07	-0.10	-0.29	-0.12	
18	-0.23	0.19	-0.15	-0.05	0.34	-0.15	0.59	0.32	0.07	-0.11	-0.29	-0.12	
19	-0.23	0.07	-0.24	-0.16	0.33	0.52	0.56	0.31	0.07	-0.13	-0.28	-0.12	
20	-0.23	-0.11	-0.24	-0.21	0.32	0.37	0.50	0.31	0.07	-0.19	-0.07	-0.12	
21	-0.20	-0.12	-0.17	0.16	0.32	1.46	0.44	0.31	0.07	-0.27	0.02	-0.11	
22	-0.03	-0.20	-0.15	-0.11	0.32	0.63	0.41	0.27	0.08	-0.32	-0.14	-0.01	
23	0.02	-0.22	-0.16	-0.20	0.33	0.51	0.39	0.22	0.08	-0.07	-0.27	-0.02	
24	0.03	-0.23	-0.16	-0.24	0.40	0.59	0.38	0.20	0.08	-0.01	-0.28	-0.04	
25	-0.10	-0.24	-0.16	0.16	0.35	0.45	0.38	0.20	0.07	-0.17	-0.28	-0.10	
26	-0.15	-0.25	-0.14	0.20	0.35	0.40	0.38	0.20	0.07	-0.27	-0.28	-0.26	
27	-0.20	-0.25	-0.14	-0.09	0.35	0.39	0.38	0.20	0.07	-0.30	-0.29	-0.04	
28	-0.23	-0.25	-0.15	-0.15	0.41	0.37	0.38	0.19	0.06	-0.30	0.02	-0.12	
29	-0.24	0.24	-0.15	-0.15	0.49	0.39	0.43	0.19	0.06	-0.30		-0.13	
30	0.18	0.23	-0.16	-0.16	0.52	0.38	0.46	0.18	0.05	-0.17		-0.26	
31		0.23		-0.16	0.37		0.41		0.05	-0.04		-0.28	
Mean	-0.13	-0.09	-0.10	0.04	0.37	0.37	0.61	0.31	0.09	-0.14	-0.20	-0.10	
Max	0.18	0.25	0.16	0.24	0.93	1.46	1.18	0.39	0.18	-0.01	0.07	0.17	1.46
Min	-0.24	-0.25	-0.24	-0.24	0.04	-0.15	0.36	0.18	0.04	-0.32	-0.30	-0.28	-0.32

Annual Max Momentary Gage Height 2.22 M (A.D), at 6.00 Hours, on Sep 21, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.38 M (A.D)
Left Bank Elevation 7.54 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, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.00	0.00	0.06	1.72	2.49	3.19	2.63	1.18	0.00	0.00	0.34	
2	0.03	0.00	0.00	0.00	2.91	2.42	2.63	2.56	1.18	0.00	0.00	0.34	
3	0.00	0.00	0.00	0.00	1.79	2.42	2.42	2.56	1.12	0.00	0.00	0.09	
4	0.00	0.00	0.00	1.00	0.70	2.63	3.05	2.56	1.12	0.00	0.00	0.00	
5	0.00	0.00	0.00	1.00	0.46	2.56	4.12	2.56	1.12	0.00	0.00	0.00	
6	0.00	0.00	0.00	1.00	2.35	2.49	3.72	2.49	1.12	0.00	0.00	0.50	
7	0.00	0.00	0.27	0.70	7.00	2.49	5.72	2.49	1.12	0.00	0.58	1.12	
8	0.00	0.00	0.94	1.37	3.40	2.42	8.80	2.49	0.46	0.00	0.00	0.00	
9	0.00	0.00	0.94	1.51	2.84	2.35	9.76	2.49	0.46	0.00	0.00	0.00	
10	0.00	0.00	0.54	1.51	2.63	2.21	9.16	2.42	0.50	0.00	0.00	0.00	
11	0.00	0.00	0.27	1.00	2.56	2.14	8.14	2.42	0.50	0.00	0.00	0.00	
12	0.00	0.00	0.00	1.24	2.42	2.07	7.60	2.35	0.50	0.00	0.00	0.00	
13	0.15	1.18	1.00	1.30	2.35	2.07	6.52	2.21	0.50	0.09	0.00	0.00	
14	0.24	1.18	0.58	1.51	2.28	2.49	5.98	2.21	0.54	0.00	0.34	0.00	
15	0.24	1.51	1.06	1.58	2.28	0.21	5.24	2.21	0.54	0.06	0.00	0.00	
16	0.00	1.65	0.66	1.58	2.28	0.00	4.76	2.14	0.58	0.00	0.00	0.00	
17	0.00	1.30	0.00	1.51	2.28	0.00	4.36	2.14	0.58	0.00	0.00	0.00	
18	0.00	1.24	0.00	0.15	2.28	0.00	4.12	2.14	0.58	0.00	0.00	0.00	
19	0.00	0.58	0.00	0.00	2.21	3.56	3.88	2.07	0.58	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	2.14	2.49	3.40	2.07	0.58	0.00	0.09	0.00	
21	0.00	0.00	0.00	1.06	2.14	13.44	2.98	2.07	0.58	0.00	0.38	0.00	
22	0.21	0.00	0.00	0.00	2.14	4.44	2.77	1.79	0.62	0.00	0.00	0.27	
23	0.38	0.00	0.00	0.00	2.21	3.48	2.63	1.44	0.62	0.09	0.00	0.24	
24	0.42	0.00	0.00	0.00	2.70	4.12	2.56	1.30	0.62	0.27	0.00	0.18	
25	0.00	0.00	0.00	1.06	2.35	3.05	2.56	1.30	0.58	0.00	0.00	0.00	
26	0.00	0.00	0.00	1.30	2.35	2.70	2.56	1.30	0.58	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.03	2.35	2.63	2.56	1.30	0.58	0.00	0.00	0.18	
28	0.00	0.00	0.00	0.00	2.77	2.49	2.56	1.24	0.54	0.00	0.38	0.00	
29	0.00	1.58	0.00	0.00	3.33	2.63	2.91	1.24	0.54	0.00		0.00	
30	1.18	1.51	0.00	0.00	3.56	2.56	3.12	1.18	0.50	0.00		0.00	
31		1.51		0.00	2.49		2.77		0.50	0.18		0.00	
Total	2.88	13.24	6.26	21.47	77.27	81.05	136.55	61.37	21.12	0.69	1.77	3.26	426.93 CMSDAY
Mean	0.10	0.43	0.21	0.69	2.49	2.70	4.40	2.05	0.68	0.02	0.06	0.11	1.17 CMS
Max	1.18	1.65	1.06	1.58	7.00	13.44	9.76	2.63	1.18	0.27	0.58	1.12	13.44 CMS
Min	0.00	0.00	0.00	0.00	0.46	0.00	2.42	1.18	0.46	0.00	0.00	0.00	0.00 CMS
Runoff	0.249	1.144	0.541	1.855	6.676	7.003	11.798	5.302	1.825	0.060	0.153	0.282	36.887 MCM

Momentary Peak 25.85 CMS, at 2.22 M (A.D), at 6.00 Hours, on Sep 21, 1992

Runoff Yield 3.90 Liters/Second/Square KM, Momentary Peak Yield 86.16 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

Chi River at Ban Tha Khon Yang, Maha Sarakham (E.8A)

Location — Lat. 16°13'51" N., Long. 103°16'29" E., on right bank at the bridge of Maha Sarakham-Kalasin Highway, Tambon Tha Khon Yang, Amphoe Kantharawichai, Maha Sarakham.

Drainage Area — 30,764 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +133.21 m. (M.S.L.)

Bench Mark — B.M.-H.D.

Location — Near the automatic gage building.

Elevation — +144.420 m. (M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1955 to date.

Rating Operation

Period of Rating — 1955-1957, 1965-1976, 1982 to date.

Rated by Float — -

Rated by Current Meter — 1955-1957, 1965-1976, 1982 to date.

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

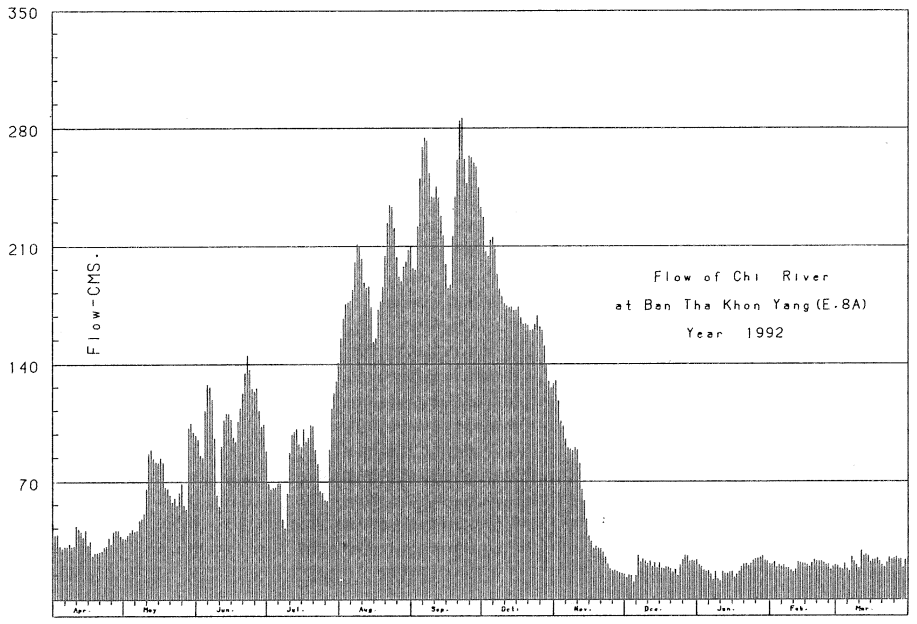
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Flow regulated by Nam Phong Dam above gage site. Stage-discharge relation defined by 21 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.60	134.57	135.44	135.05	136.72	137.42	137.88	136.27	134.08	134.26	134.26	134.24	
2	134.61	134.60	135.23	134.99	136.92	137.40	137.58	135.99	134.11	134.23	134.30	134.21	
3	134.50	134.63	135.19	135.01	137.06	137.80	137.54	135.68	134.10	134.20	134.22	134.20	
4	134.46	134.65	135.85	135.01	137.08	138.20	137.68	135.64	134.02	134.16	134.26	134.27	
5	134.49	134.64	136.21	135.05	137.09	138.47	137.71	135.45	134.11	134.18	134.24	134.21	
6	134.48	134.64	136.18	135.05	137.20	138.55	137.63	135.34	134.38	134.13	134.25	134.17	
7	134.52	134.73	136.00	134.74	137.48	138.52	137.36	135.31	134.30	134.04	134.22	134.37	
8	134.48	134.74	135.47	134.66	137.65	138.25	137.21	135.29	134.33	134.16	134.21	134.30	
9	134.50	134.79	134.94	134.96	137.63	138.05	137.14	135.34	134.31	134.06	134.19	134.26	
10	134.68	135.00	134.85	135.27	137.51	138.04	137.07	135.30	134.27	134.02	134.15	134.21	
11	134.66	135.25	135.35	135.52	137.28	138.13	137.04	135.12	134.31	134.17	134.19	134.44	
12	134.63	135.31	135.72	135.55	137.22	138.04	137.03	134.99	134.24	134.13	134.30	134.38	
13	134.58	135.18	135.81	135.60	137.24	137.89	137.03	134.90	134.28	134.14	134.28	134.39	
14	134.65	135.14	135.80	135.38	137.03	137.72	137.00	134.74	134.22	134.15	134.28	134.38	
15	134.51	135.12	135.72	135.34	136.69	137.46	137.00	134.60	134.28	134.17	134.28	134.30	
16	134.54	135.19	135.48	135.59	136.72	137.22	137.03	134.54	134.21	134.08	134.25	134.32	
17	134.38	135.13	135.41	135.42	137.01	137.25	136.93	134.47	134.21	134.12	134.24	134.32	
18	134.41	135.01	135.70	135.47	137.09	137.72	136.86	134.49	134.23	134.17	134.28	134.35	
19	134.42	135.00	135.88	135.65	137.23	138.05	136.87	134.47	134.23	134.23	134.33	134.30	
20	134.42	134.94	136.09	135.63	137.54	138.36	136.85	134.46	134.20	134.26	134.30	134.25	
21	134.44	134.88	136.37	135.30	137.83	138.69	136.80	134.42	134.15	134.28	134.30	134.23	
22	134.48	134.92	136.56	135.11	137.98	138.72	136.81	134.36	134.20	134.25	134.31	134.29	
23	134.49	134.86	136.41	134.98	137.96	138.37	136.86	134.27	134.11	134.27	134.28	134.35	
24	134.58	134.96	136.16	134.96	137.78	138.16	136.95	134.20	134.25	134.32	134.26	134.33	
25	134.51	135.05	136.12	134.90	137.53	138.40	136.84	134.18	134.33	134.33	134.26	134.34	
26	134.63	134.86	136.16	134.89	137.33	138.38	136.80	134.18	134.38	134.34	134.20	134.36	
27	134.65	134.82	135.85	135.31	137.29	138.34	136.65	134.17	134.38	134.36	134.24	134.33	
28	134.64	135.61	135.63	135.88	137.43	138.30	136.46	134.14	134.30	134.37	134.25	134.33	
29	134.60	135.67	135.65	136.09	137.48	138.13	136.26	134.14	134.32	134.32		134.23	
30	134.57	135.55	135.28	136.26	137.60	137.96	136.16	134.12	134.30	134.30		134.32	
31		135.50		136.48	137.63		136.22		134.32	134.27		134.34	
Mean	134.54	135.00	135.75	135.33	137.33	138.07	137.01	134.82	134.24	134.21	134.25	134.30	
Max	134.68	135.67	136.56	136.48	137.98	138.72	137.88	136.27	134.38	134.37	134.33	134.44	138.72
Min	134.38	134.57	134.85	134.66	136.69	137.22	136.16	134.12	134.02	134.02	134.15	134.17	134.02

Annual Max Momentary Gage Height 138.77 M (MSL), at 6.00 Hours, on Sep 22, 1992
Zero Gage at Bottom Elevation 133.21 M (MSL), River Bed 133.37 M (MSL)
Left Bank Elevation 142.29 M (MSL)
Right Bank Elevation 143.52 M (MSL), Drainage Area 30764 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.00	36.20	94.86	69.00	155.20	197.20	227.60	130.43	13.20	20.70	20.70	19.80	
2	38.70	38.00	85.86	65.30	167.20	196.00	206.80	118.43	14.40	19.35	22.50	18.45	
3	32.00	40.10	84.14	66.60	175.60	222.00	204.40	105.14	14.00	18.00	18.90	18.00	
4	30.00	41.50	112.43	66.60	176.80	250.00	213.60	103.43	10.80	16.40	20.70	21.15	
5	31.50	40.80	127.86	69.00	177.40	268.90	215.70	95.29	14.40	17.20	19.80	18.45	
6	31.00	40.80	126.57	69.00	184.00	274.50	210.10	90.57	26.10	15.20	20.25	16.80	
7	33.20	47.10	118.86	47.80	200.80	272.40	193.60	89.29	22.50	11.60	18.90	25.65	
8	31.00	47.80	96.14	42.20	211.50	253.50	184.60	88.43	23.85	16.40	18.45	22.50	
9	32.00	51.30	61.80	63.20	210.10	239.50	180.40	90.57	22.95	12.40	17.60	20.70	
10	43.60	66.00	55.50	87.57	202.60	238.80	176.20	88.86	21.15	10.80	16.00	18.45	
11	42.20	86.71	91.00	98.29	188.80	245.10	174.40	81.14	22.95	16.80	17.60	29.00	
12	40.10	89.29	106.86	99.57	185.20	238.80	173.80	65.30	19.80	15.20	22.50	26.10	
13	36.80	83.71	110.71	101.71	186.40	228.30	173.80	59.00	21.60	15.60	21.60	26.55	
14	41.50	82.00	110.29	92.29	173.80	216.40	172.00	47.80	18.90	16.00	21.60	26.10	
15	32.60	81.14	106.86	90.57	153.40	199.60	172.00	38.00	21.60	16.80	21.60	22.50	
16	34.40	84.14	96.57	101.29	155.20	185.20	173.80	34.40	18.45	13.20	20.25	23.40	
17	26.10	81.57	93.57	94.00	172.60	187.00	167.80	30.50	18.45	14.80	19.80	23.40	
18	27.50	66.60	106.00	96.14	177.40	216.40	163.60	31.50	19.35	16.80	21.60	24.75	
19	28.00	66.00	113.71	103.86	185.80	239.50	164.20	30.50	19.35	19.35	23.85	22.50	
20	28.00	61.80	122.71	103.00	204.40	261.20	163.00	30.00	18.00	20.70	22.50	20.25	
21	29.00	57.60	134.71	88.86	224.10	284.30	160.00	28.00	16.00	21.60	22.50	19.35	
22	31.00	60.40	145.60	80.71	234.60	286.40	160.60	25.20	18.00	20.25	22.95	22.05	
23	31.50	56.20	136.60	64.60	233.20	261.90	163.60	21.15	14.40	21.15	21.60	24.75	
24	36.80	63.20	125.71	63.20	220.60	247.20	169.00	18.00	20.25	23.40	20.70	23.85	
25	32.60	69.00	124.00	59.00	203.80	264.00	162.40	17.20	23.85	23.85	20.70	24.30	
26	40.10	56.20	125.71	58.30	191.80	262.60	160.00	17.20	26.10	24.30	18.00	25.20	
27	41.50	53.40	112.43	89.29	189.40	259.80	151.00	16.80	26.10	25.20	19.80	23.85	
28	40.80	102.14	103.00	113.71	197.80	257.00	139.60	15.60	22.50	25.65	20.25	23.85	
29	38.00	104.71	103.86	122.71	200.80	245.10	130.00	15.60	23.40	23.40		19.35	
30	36.20	99.57	88.00	130.00	208.00	233.20	125.71	14.80	22.50	22.50		23.40	
31		97.43		140.80	210.10		128.29		23.40	21.15		24.30	
Total	1035.70	2052.41	3221.92	2638.17	5958.40	7231.80	5361.60	1638.13	618.30	575.75	573.20	698.75	31604.13 CMSDAY
Mean	34.52	66.21	107.40	85.10	192.21	241.06	172.95	54.60	19.95	18.57	20.47	22.54	86.59 CMS
Max	43.60	104.71	145.60	140.80	234.60	286.40	227.60	130.43	26.10	25.65	23.85	29.00	286.40 CMS
Min	26.10	36.20	55.50	42.20	153.40	185.20	125.71	14.80	10.80	10.80	16.00	16.80	10.80 CMS
Runoff	89.484	177.328	278.374	227.938	514.806	624.828	463.242	141.534	53.421	49.745	49.524	60.372	2730.597 MCM

Momentary Peak 289.90 CMS, at 138.77 M (MSL), at 6.00 Hours, on Sep 22, 1992

Runoff Yield 2.81 Liters/Second/Square KM, Momentary Peak Yield 9.42 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

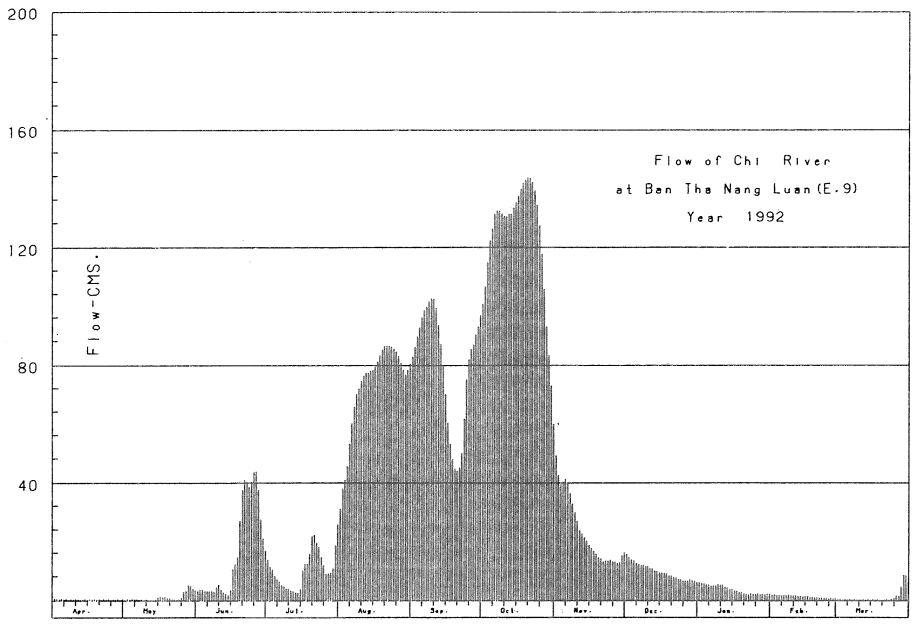
Chi River at Ban Tha Nang Luan, Khon Kaen (E.9)

Location	Lat. 16-05-49 N., Long. 102-34-23- E., on left bank about 80 meters downstream from the bridge on highway, Amphoe Chonnabot, Khon Kaen.
Drainage Area	11,020 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+151.11 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 45 meters from the top staff gage.
Elevation	+163.044 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1958 to date.
Rating Operation	
Period of Rating	1967 - 1973, 1986 - 1987, 1992 to date.
Rated by Float	-
Rated by Current Meter	1967 - 1980, 1983 - 1987, 1992 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.16	152.07	152.60	153.62	154.78	157.26	157.95	155.77	153.78	152.94	152.42	152.12	
2	152.12	152.08	152.64	153.44	155.17	157.39	158.16	155.41	153.69	152.93	152.42	152.09	
3	152.10	152.07	152.64	153.34	155.32	157.54	158.46	155.24	153.64	152.90	152.40	152.09	
4	152.11	152.07	152.60	153.17	155.59	157.65	158.72	155.30	153.59	152.88	152.38	152.09	
5	152.08	152.06	152.58	153.06	155.97	157.79	158.87	155.34	153.54	152.85	152.38	152.08	
6	152.09	152.06	152.57	152.96	156.30	157.87	159.04	155.27	153.49	152.83	152.38	152.08	
7	152.10	152.05	152.60	152.85	156.55	157.92	159.09	155.08	153.48	152.81	152.40	152.07	
8	152.09	152.03	152.54	152.77	156.72	157.98	159.08	154.87	153.47	152.83	152.41	152.06	
9	152.10	152.02	152.76	152.71	156.81	158.02	159.05	154.72	153.46	152.87	152.39	152.05	
10	152.10	152.02	152.84	152.68	156.91	158.01	159.02	154.54	153.44	152.87	152.37	152.05	
11	152.09	152.02	152.66	152.62	156.99	157.90	159.01	154.36	153.41	152.85	152.35	152.07	
12	152.06	152.01	152.52	152.57	157.02	157.69	159.05	154.26	153.37	152.79	152.33	152.06	
13	152.07	152.02	152.44	152.54	157.03	157.43	159.04	154.18	153.33	152.72	152.30	152.07	
14	152.07	152.03	152.39	152.48	157.05	157.13	159.12	154.09	153.30	152.68	152.31	152.07	
15	152.08	152.25	152.64	152.67	157.07	156.73	159.18	154.00	153.27	152.66	152.30	152.06	
16	152.08	152.29	153.37	153.33	157.13	156.31	159.25	153.91	153.25	152.63	152.29	152.07	
17	152.07	152.27	153.49	153.50	157.19	155.97	159.34	153.85	153.26	152.59	152.27	152.05	
18	152.06	152.24	153.71	153.52	157.27	155.70	159.40	153.77	153.23	152.56	152.26	152.04	
19	152.05	152.20	154.55	153.78	157.36	155.54	159.44	153.70	153.19	152.54	152.25	152.02	
20	152.05	152.16	155.14	154.20	157.40	155.49	159.46	153.65	153.16	152.49	152.22	152.03	
21	152.06	152.13	155.32	154.25	157.41	155.56	159.46	153.59	153.14	152.45	152.21	152.06	
22	152.07	152.09	155.29	154.06	157.41	155.80	159.41	153.59	153.10	152.44	152.19	152.07	
23	152.09	152.05	155.19	153.94	157.39	156.38	159.32	153.60	153.07	152.47	152.19	152.07	
24	152.07	152.03	155.30	153.71	157.37	156.93	159.15	153.61	153.04	152.47	152.19	152.08	
25	152.06	152.23	155.48	153.46	157.32	157.22	158.91	153.59	153.01	152.46	152.17	152.20	
26	152.07	152.54	155.48	153.22	157.26	157.36	158.56	153.56	152.99	152.46	152.16	152.33	
27	152.07	152.60	155.13	153.25	157.17	157.43	158.13	153.54	153.01	152.45	152.14	152.35	
28	152.05	152.85	154.59	153.25	157.07	157.56	157.67	153.54	153.03	152.44	152.14	152.77	
29	152.06	152.79	154.15	153.39	157.00	157.67	157.27	153.75	153.02	152.44		153.21	
30	152.06	152.70	153.86	153.99	157.06	157.81	156.85	153.81	152.98	152.45		153.17	
31		152.61		154.48	157.15		156.29		152.96	152.45		152.98	
Mean	152.08	152.21	153.64	153.32	156.81	157.10	158.73	154.25	153.28	152.65	152.29	152.21	
Max	152.16	152.85	155.48	154.48	157.41	158.02	159.46	155.77	153.78	152.94	152.42	153.21	159.46
Min	152.05	152.01	152.39	152.48	154.78	155.49	156.29	153.54	152.96	152.44	152.14	152.02	152.01

Annual Max Momentary Gage Height 159.46 M (MSL), at 6.00 Hours, on Oct 20, 1992
Zero Gage at Bottom Elevation 151.11 M (MSL), River Bed 150.31 M (MSL)
Left Bank Elevation 161.79 M (MSL)
Right Bank Elevation 161.80 M (MSL), Drainage Area 11020 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.84	0.54	3.40	13.84	31.24	83.04	100.80	49.40	15.92	6.20	2.12	0.68	
2	0.68	0.56	3.72	11.68	38.26	86.16	106.68	42.58	14.68	6.10	2.12	0.58	
3	0.60	0.54	3.72	10.48	40.96	89.84	115.08	39.52	14.08	5.80	2.00	0.58	
4	0.64	0.54	3.40	8.50	45.82	92.70	122.36	40.60	13.48	5.64	1.90	0.58	
5	0.56	0.52	3.24	7.40	53.40	96.34	126.56	41.32	12.88	5.40	1.90	0.56	
6	0.58	0.52	3.16	6.40	60.20	98.56	131.32	40.06	12.28	5.24	1.90	0.56	
7	0.60	0.50	3.40	5.40	66.00	99.96	132.72	36.64	12.16	5.08	2.00	0.54	
8	0.58	0.46	2.92	4.76	70.08	101.64	132.44	32.86	12.04	5.24	2.06	0.52	
9	0.60	0.44	4.68	4.28	72.24	102.76	131.60	30.16	11.92	5.56	1.95	0.50	
10	0.60	0.44	5.32	4.04	74.64	102.48	130.76	26.92	11.68	5.56	1.85	0.50	
11	0.58	0.44	3.88	3.56	76.56	99.40	130.48	24.04	11.32	5.40	1.75	0.54	
12	0.52	0.42	2.76	3.16	77.28	93.74	131.60	22.64	10.84	4.92	1.65	0.52	
13	0.54	0.44	2.24	2.92	77.52	87.12	131.32	21.52	10.36	4.36	1.50	0.54	
14	0.54	0.46	1.95	2.48	78.00	79.92	133.58	20.26	10.00	4.04	1.55	0.54	
15	0.56	1.25	3.72	3.96	78.48	70.32	135.32	19.00	9.64	3.88	1.50	0.52	
16	0.56	1.45	10.84	10.36	79.92	60.42	137.40	17.74	9.40	3.64	1.45	0.54	
17	0.54	1.35	12.28	12.40	81.36	53.40	140.10	16.90	9.52	3.32	1.35	0.50	
18	0.52	1.20	14.94	12.64	83.28	48.00	141.90	15.78	9.16	3.08	1.30	0.48	
19	0.50	1.00	27.10	15.92	85.44	44.92	143.14	14.80	8.70	2.92	1.25	0.44	
20	0.50	0.84	37.72	21.80	86.40	44.02	143.76	14.20	8.40	2.54	1.10	0.46	
21	0.52	0.72	40.96	22.50	86.64	45.28	143.76	13.48	8.20	2.30	1.05	0.52	
22	0.54	0.58	40.42	19.84	86.64	50.00	142.21	13.48	7.80	2.24	0.96	0.54	
23	0.58	0.50	38.62	18.16	86.16	61.96	139.50	13.60	7.50	2.42	0.96	0.54	
24	0.54	0.46	40.60	14.94	85.68	75.12	134.45	13.72	7.20	2.42	0.96	0.56	
25	0.52	1.15	43.84	11.92	84.48	82.08	127.68	13.48	6.90	2.36	0.88	1.00	
26	0.54	2.92	43.84	9.04	83.04	85.44	117.88	13.12	6.70	2.36	0.84	1.65	
27	0.54	3.40	37.54	9.40	80.88	87.12	105.84	12.88	6.90	2.30	0.76	1.75	
28	0.50	5.40	27.82	9.40	78.48	90.36	93.22	12.88	7.10	2.24	0.76	4.76	
29	0.52	4.92	21.10	11.08	76.80	93.22	83.28	15.50	7.00	2.24		8.92	
30	0.52	4.20	17.04	18.86	78.24	96.88	73.20	16.34	6.60	2.30		8.50	
31		3.48		25.88	80.40		59.98		6.40	2.30		6.60	
Total	16.96	41.64	506.17	337.00	2264.52	2402.20	3819.92	705.42	306.76	119.40	41.37	46.02	10607.38 CMSDAY
Mean	0.57	1.34	16.87	10.87	73.05	80.07	123.22	23.51	9.90	3.85	1.48	1.48	29.06 CMS
Max	0.84	5.40	43.84	25.88	86.64	102.76	143.76	49.40	15.92	6.20	2.12	8.92	143.76 CMS
Min	0.50	0.42	1.95	2.48	31.24	44.02	59.98	12.88	6.40	2.24	0.76	0.44	0.42 CMS
Runoff	1.465	3.598	43.733	29.117	195.655	207.550	330.041	60.948	26.504	10.316	3.574	3.976	916.478 MCM

Momentary Peak 143.76 CMS, at 159.46 M (MSL), at 6.00 Hours, on Oct 20, 1992
Runoff Yield 2.64 Liters/Second/Square KM, Momentary Peak Yield 13.05 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

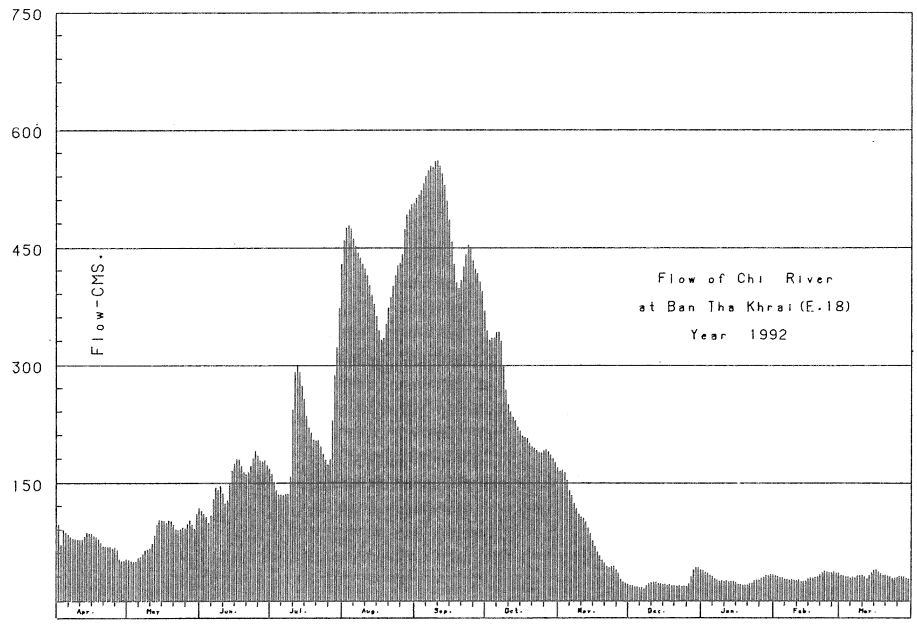
Chi River at Ban Tha Khrai, Roi Et (E.18)

Location	Lat. 16-01-59 N., Long. 103-54-38 E., on left bank at Ban Tha Khrai, Amphoe Selaphum, Roi Et.
Drainage Area	41,594 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+122.244 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+135.187 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1974 to date.
Rated by Float	-
Rated by Current Meter	1974 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 141 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.45	123.72	124.70	125.35	128.62	129.15	127.64	125.60	123.21	123.66	123.53	123.54	
2	124.07	123.70	124.64	125.22	128.77	129.20	127.52	125.61	123.19	123.63	123.49	123.51	
3	124.36	123.67	124.58	125.07	128.81	129.25	127.54	125.58	123.16	123.59	123.46	123.50	
4	124.30	123.70	124.49	125.00	128.76	129.34	127.55	125.45	123.14	123.55	123.45	123.48	
5	124.28	123.79	124.62	124.99	128.64	129.43	127.62	125.28	123.12	123.49	123.42	123.46	
6	124.22	123.80	124.92	124.99	128.54	129.51	127.63	125.18	123.11	123.43	123.39	123.47	
7	124.20	123.87	125.12	125.01	128.46	129.56	127.50	125.05	123.08	123.37	123.39	123.46	
8	124.18	123.94	125.08	125.01	128.39	129.55	127.16	124.94	123.19	123.35	123.39	123.51	
9	124.18	123.97	125.15	125.31	128.32	129.62	126.81	124.85	123.28	123.35	123.38	123.54	
10	124.16	123.98	125.02	126.35	128.25	129.64	126.61	124.79	123.29	123.34	123.38	123.53	
11	124.17	124.08	124.83	126.88	128.17	129.61	126.50	124.78	123.32	123.35	123.38	123.48	
12	124.24	124.26	124.89	126.99	128.04	129.54	126.43	124.70	123.30	123.33	123.34	123.43	
13	124.30	124.46	125.19	126.88	127.92	129.42	126.37	124.60	123.28	123.32	123.32	123.52	
14	124.29	124.53	125.40	126.69	127.80	129.26	126.29	124.49	123.26	123.34	123.35	123.62	
15	124.28	124.53	125.51	126.50	127.65	129.05	126.23	124.37	123.25	123.30	123.41	123.67	
16	124.25	124.51	125.58	126.26	127.46	128.78	126.16	124.23	123.24	123.26	123.44	123.68	
17	124.22	124.49	125.58	126.09	127.34	128.49	126.13	124.12	123.22	123.23	123.45	123.64	
18	124.19	124.52	125.47	126.00	127.36	128.26	126.12	124.03	123.23	123.22	123.46	123.58	
19	124.10	124.52	125.38	125.89	127.55	128.18	126.04	123.94	123.21	123.21	123.49	123.54	
20	124.03	124.44	125.34	125.88	127.75	128.28	125.99	123.85	123.19	123.23	123.55	123.53	
21	124.02	124.37	125.38	125.88	127.89	128.46	125.96	123.78	123.19	123.25	123.62	123.52	
22	124.02	124.34	125.47	125.79	128.03	128.61	125.93	123.73	123.19	123.29	123.65	123.48	
23	124.01	124.37	125.60	125.67	128.17	128.74	125.89	123.78	123.17	123.35	123.64	123.44	
24	123.99	124.39	125.71	125.57	128.29	128.70	125.89	123.77	123.17	123.38	123.61	123.44	
25	124.00	124.38	125.64	125.50	128.33	128.54	125.93	123.69	123.18	123.39	123.62	123.48	
26	123.96	124.45	125.56	125.58	128.43	128.43	125.94	123.59	123.25	123.43	123.63	123.50	
27	123.75	124.53	125.55	126.20	128.76	128.37	125.91	123.41	123.49	123.48	123.61	123.49	
28	123.69	124.44	125.56	126.84	128.94	128.27	125.85	123.31	123.67	123.52	123.60	123.47	
29	123.72	124.38	125.49	127.23	129.01	128.14	125.80	123.29	123.75	123.53		123.45	
30	123.74	124.64	125.43	127.75	129.07	127.90	125.73	123.24	123.73	123.55		123.40	
31		124.74		128.31	129.09		125.65		123.69	123.54		123.38	
Mean	124.11	124.24	125.23	126.02	128.28	128.91	126.46	124.37	123.28	123.40	123.48	123.51	
Max	124.45	124.74	125.71	128.31	129.09	129.64	127.64	125.61	123.75	123.66	123.65	123.68	129.64
Min	123.69	123.67	124.49	124.99	127.34	127.90	125.65	123.24	123.08	123.21	123.32	123.38	123.08

Annual Max Momentary Gage Height 129.65 M (MSL), at 9.00 Hours, on Sep 10, 1992
Zero Gage at Bottom Elevation 122.24 M (MSL), River Bed 120.15 M (MSL)
Left Bank Elevation 132.52 M (MSL)
Right Bank Elevation 132.64 M (MSL), Drainage Area 41594 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.5	52.0	115.0	162.0	460.0	513.0	344.0	166.0	20.4	39.0	33.2	33.6	
2	72.2	51.0	110.8	151.6	475.0	518.0	332.8	166.8	19.7	37.5	31.6	32.4	
3	91.2	49.5	106.6	140.9	479.0	523.0	334.6	164.4	18.8	35.6	30.4	32.0	
4	87.0	51.0	100.3	136.0	474.0	532.0	335.5	154.0	18.2	34.0	30.0	31.2	
5	85.6	55.5	109.4	135.3	462.0	541.0	342.0	141.6	17.6	31.6	28.8	30.4	
6	81.4	56.0	130.4	135.3	452.0	549.0	343.0	134.6	17.3	29.2	27.6	30.8	
7	80.0	60.2	144.4	136.7	444.0	554.0	331.0	125.5	16.4	26.8	27.6	30.4	
8	78.8	64.4	141.6	136.7	437.0	553.0	300.4	117.8	19.7	26.0	27.6	32.4	
9	78.8	66.2	146.5	158.8	430.0	560.0	268.9	111.5	23.2	26.0	27.2	33.6	
10	77.6	66.8	137.4	243.5	423.0	562.0	250.9	107.3	23.6	25.6	27.2	33.2	
11	78.2	72.8	124.1	291.2	415.0	554.3	241.0	106.6	24.8	26.0	27.2	31.2	
12	82.8	84.2	128.3	301.1	402.0	545.2	234.7	101.0	24.0	25.2	25.6	29.2	
13	87.0	98.2	149.3	291.2	390.0	529.6	229.3	94.0	23.2	24.8	24.8	32.8	
14	86.3	103.1	166.0	274.1	378.0	510.2	222.1	86.3	22.4	25.6	26.0	37.0	
15	85.6	103.1	174.8	257.0	363.0	485.5	216.7	78.2	22.0	24.0	28.4	39.5	
16	83.5	101.7	180.4	235.4	344.0	458.0	210.8	69.8	21.6	22.4	29.6	40.0	
17	81.4	100.3	180.4	221.2	332.6	429.0	208.4	63.2	20.8	21.2	30.0	38.0	
18	79.4	102.4	171.6	214.0	334.4	406.0	207.6	57.8	21.2	20.8	30.4	35.2	
19	74.0	102.4	164.4	205.2	353.0	398.0	201.2	53.0	20.4	20.4	31.6	33.6	
20	69.8	96.8	161.2	204.4	373.0	408.0	197.2	48.5	19.7	21.2	34.0	33.2	
21	69.2	91.9	164.4	204.4	387.0	426.0	194.8	45.0	19.7	22.0	37.0	32.8	
22	69.2	89.8	171.6	197.2	401.0	441.0	192.4	42.5	19.7	23.6	38.5	31.2	
23	68.6	91.9	182.0	187.6	415.0	454.0	189.2	45.0	19.1	26.0	38.0	29.6	
24	67.4	93.3	190.8	179.6	427.0	450.0	189.2	44.5	19.1	27.2	36.5	29.6	
25	68.0	92.6	185.2	174.0	431.0	434.0	192.4	40.5	19.4	27.6	37.0	31.2	
26	65.6	97.5	178.8	180.4	441.0	423.0	193.2	35.6	22.0	29.2	37.5	32.0	
27	53.5	103.1	178.0	230.0	474.0	417.0	190.8	28.4	31.6	31.2	36.5	31.6	
28	50.5	96.8	178.8	287.6	492.0	407.0	186.0	24.4	39.5	32.8	36.0	30.8	
29	52.0	92.6	173.2	322.7	499.0	394.0	182.0	23.6	43.5	33.2		30.0	
30	53.0	110.8	168.4	373.0	505.0	370.0	176.4	21.6	42.5	34.0		28.0	
31		117.8		429.0	507.0		170.0		40.5	33.6		27.2	
Total	2255.1	2615.7	4614.1	6797.1	13200.0	14344.8	7408.5	2499.0	731.6	863.3	875.8	1003.7	57208.7 CMSDAY
Mean	75.2	84.4	153.8	219.3	425.8	478.2	239.0	83.3	23.6	27.8	31.3	32.4	156.7 CMS
Max	97.5	117.8	190.8	429.0	507.0	562.0	344.0	166.8	43.5	39.0	38.5	40.0	562.0 CMS
Min	50.5	49.5	100.3	135.3	332.6	370.0	170.0	21.6	16.4	20.4	24.8	27.2	16.4 CMS
Runoff	194.84	226.00	398.66	587.27	1140.48	1239.39	640.09	215.91	63.21	74.59	75.67	86.72	4942.83 MCM

Momentary Peak 563.00 CMS, at 129.65 M (MSL), at 9.00 Hours, on Sep 10, 1992
Runoff Yield 3.77 Liters/Second/Square KM, Momentary Peak Yield 13.54 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

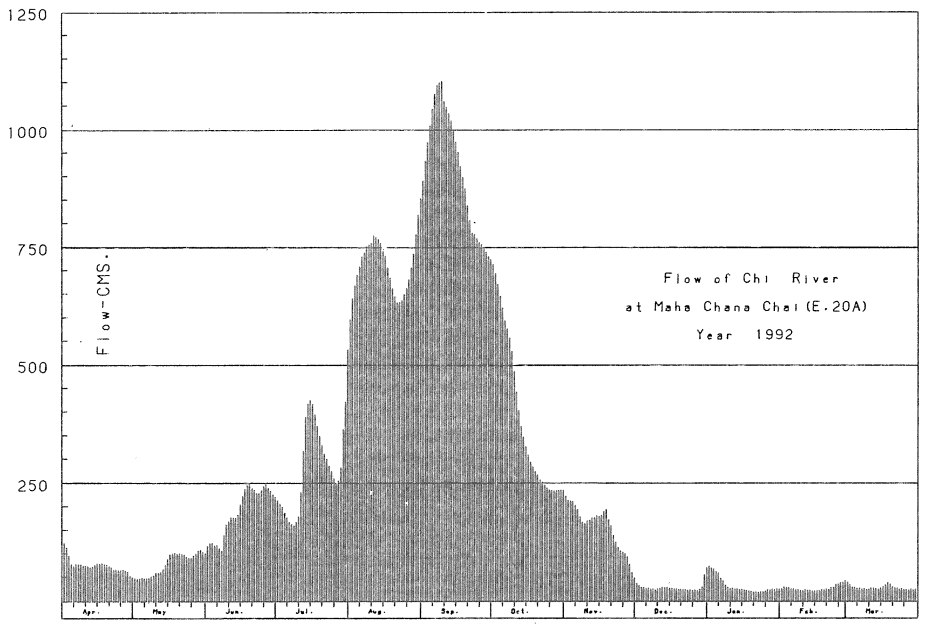
Chi River at Maha Chana Chai, Yasothon (E.20A)

Location	Lat. 15-31-59 N., Long. 104-15-24 E., on right bank about 800 meters upstream from E.20 station, Amphoe Maha Chana Chai, Yasothon.
Drainage Area	47,818 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+112.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+127.138 m. (M.S.L.)
Gage Reading Frequency	13-time daily readings at 06.00 -18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1973 to date.
Rating Operation	
Period of Rating	1974 to date.
Rated by Float	-
Rated by Current Meter	1974 to date.
Stability of Channel Regimes	Rather unstable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +118.76 m.(M.S.L.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 121 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	115.86	115.02	115.80	116.69	119.44	120.93	120.37	117.03	114.94	115.11	114.84	114.95	
2	115.79	115.02	115.86	116.64	119.73	121.11	120.28	116.94	114.91	115.10	114.88	114.92	
3	115.61	115.01	115.86	116.57	119.92	121.27	120.16	116.94	114.88	115.08	114.88	114.89	
4	115.41	115.05	115.82	116.46	120.05	121.40	120.04	116.92	114.86	115.06	114.86	114.87	
5	115.36	115.03	115.82	116.36	120.15	121.51	119.91	116.86	114.85	115.04	114.83	114.85	
6	115.40	115.02	115.76	116.28	120.25	121.59	119.77	116.77	114.84	114.99	114.81	114.84	
7	115.41	115.04	115.72	116.23	120.30	121.64	119.65	116.65	114.82	114.96	114.80	114.82	
8	115.39	115.07	116.02	116.21	120.35	121.65	119.53	116.54	114.81	114.92	114.78	114.82	
9	115.37	115.11	116.22	116.27	120.37	121.66	119.33	116.43	114.79	114.87	114.77	114.81	
10	115.35	115.16	116.29	116.39	120.38	121.63	119.05	116.32	114.81	114.84	114.76	114.82	
11	115.34	115.18	116.36	116.86	120.45	121.60	118.75	116.24	114.85	114.83	114.78	114.84	
12	115.33	115.20	116.36	117.58	120.43	121.57	118.46	116.17	114.87	114.82	114.77	114.85	
13	115.33	115.26	116.35	118.06	120.42	121.53	118.23	116.12	114.87	114.81	114.75	114.82	
14	115.39	115.39	116.42	118.25	120.38	121.48	118.06	116.05	114.87	114.80	114.74	114.81	
15	115.42	115.53	116.61	118.29	120.31	121.42	117.92	116.05	114.85	114.79	114.72	114.84	
16	115.42	115.63	116.79	118.24	120.26	121.37	117.77	116.01	114.83	114.78	114.73	114.89	
17	115.42	115.67	116.92	118.10	120.14	121.29	117.65	115.83	114.83	114.75	114.76	114.92	
18	115.41	115.67	117.00	117.93	120.02	121.20	117.56	115.70	114.81	114.74	114.78	114.94	
19	115.39	115.66	117.01	117.79	119.88	121.10	117.48	115.60	114.81	114.71	114.79	114.93	
20	115.36	115.66	116.95	117.66	119.76	120.96	117.41	115.53	114.80	114.69	114.80	114.89	
21	115.31	115.66	116.90	117.54	119.68	120.83	117.33	115.44	114.80	114.68	114.81	114.87	
22	115.26	115.63	116.85	117.45	119.68	120.71	117.28	115.36	114.78	114.68	114.85	114.84	
23	115.25	115.59	116.83	117.34	119.71	120.69	117.23	115.31	114.77	114.69	114.89	114.82	
24	115.24	115.55	116.89	117.24	119.79	120.65	117.17	115.27	114.77	114.71	114.92	114.82	
25	115.23	115.56	116.98	117.12	119.88	120.61	117.14	115.26	114.77	114.74	114.93	114.81	
26	115.26	115.61	117.01	117.02	120.00	120.58	117.12	115.24	114.76	114.77	114.94	114.78	
27	115.24	115.66	116.95	117.07	120.14	120.54	117.12	115.21	114.76	114.78	114.95	114.78	
28	115.19	115.72	116.88	117.31	120.28	120.50	117.12	115.13	114.79	114.80	114.96	114.80	
29	115.10	115.74	116.82	117.89	120.46	120.46	117.13	115.05	114.90	114.80		114.79	
30	115.04	115.69	116.76	118.27	120.63	120.42	117.13	114.99	115.02	114.81		114.79	
31		115.68		119.01	120.78		117.13		115.10	114.80		114.79	
Mean	115.36	115.40	116.49	117.29	120.13	121.13	118.27	115.97	114.84	114.84	114.82	114.85	
Max	115.86	115.74	117.01	119.01	120.78	121.66	120.37	117.03	115.10	115.11	114.96	114.95	121.66
Min	115.04	115.01	115.72	116.21	119.44	120.42	117.12	114.99	114.76	114.68	114.72	114.78	114.68

Annual Max Momentary Gage Height 121.66 M (MSL), at 3.00 Hours, on Sep 9, 1992
Zero Gage at Bottom Elevation 112.00 M (MSL), River Bed 112.78 M (MSL)
Left Bank Elevation 118.75 M (MSL)
Right Bank Elevation 120.26 M (MSL), Drainage Area 47818 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.5	48.6	117.0	213.4	598.0	891.2	714.0	224.5	39.7	74.6	28.2	41.7	
2	115.8	48.6	123.5	208.0	641.5	934.4	696.0	214.1	33.6	72.5	30.4	35.6	
3	96.9	47.8	123.5	200.4	670.0	972.8	672.0	214.1	30.4	68.4	30.4	30.9	
4	79.8	51.0	119.2	188.5	691.0	1010.0	648.0	211.8	29.3	64.3	29.3	29.9	
5	75.8	49.4	119.2	177.7	710.0	1044.0	622.0	204.9	28.7	60.2	27.6	28.7	
6	79.0	48.6	112.2	169.0	730.0	1076.0	595.5	194.5	28.2	49.9	26.5	28.2	
7	79.8	50.2	107.4	163.6	740.0	1096.0	577.5	180.8	27.1	43.8	26.0	27.1	
8	78.2	52.6	140.8	161.4	752.0	1100.0	559.5	168.1	26.5	35.6	25.0	27.1	
9	76.6	55.8	162.5	167.9	756.8	1104.0	529.5	166.3	25.5	29.9	24.5	26.5	
10	75.0	59.8	170.1	180.9	759.2	1062.1	487.5	170.7	26.5	28.2	24.0	27.1	
11	74.2	61.4	177.7	231.8	776.0	1048.0	445.0	173.9	28.7	27.6	25.0	28.2	
12	73.4	63.0	177.7	319.2	771.2	1035.7	404.4	176.7	29.9	27.1	24.5	28.7	
13	73.4	67.8	176.6	391.0	768.8	1019.3	372.2	178.7	29.9	26.5	23.5	27.1	
14	78.2	78.2	184.2	419.5	759.2	998.8	348.4	181.5	29.9	26.0	23.0	26.5	
15	80.6	89.7	204.7	425.5	742.4	974.2	328.8	181.5	28.7	25.5	22.0	28.2	
16	80.6	98.7	224.3	418.0	732.0	953.7	310.1	183.1	27.6	25.0	22.5	30.9	
17	80.6	102.3	238.3	397.0	708.0	922.5	295.8	190.3	27.6	23.5	24.0	35.6	
18	79.8	102.3	247.0	371.5	685.6	900.0	285.4	195.5	26.5	23.0	25.0	39.7	
19	78.2	101.4	248.2	350.5	664.0	875.0	276.2	175.0	26.5	21.5	25.5	37.6	
20	75.8	101.4	241.6	331.0	646.0	840.0	268.2	160.7	26.0	20.5	26.0	30.9	
21	71.8	101.4	236.2	313.6	634.0	807.5	259.0	142.2	26.0	20.0	26.5	29.9	
22	67.8	98.7	230.7	301.5	634.0	782.0	253.2	125.8	25.0	20.0	28.7	28.2	
23	67.0	95.1	228.6	287.8	638.5	778.0	247.5	115.5	24.5	20.5	30.9	27.1	
24	66.2	91.5	235.1	275.8	650.5	770.0	240.5	107.3	24.5	21.5	35.6	27.1	
25	65.4	92.4	244.8	261.4	664.0	762.0	237.1	105.3	24.5	23.0	37.6	26.5	
26	67.8	96.9	248.2	249.4	682.0	756.0	234.8	101.2	24.0	24.5	39.7	25.0	
27	66.2	101.4	241.6	255.4	708.0	748.0	234.8	95.0	24.0	25.0	41.7	25.0	
28	62.2	107.4	234.0	284.2	736.0	740.0	234.8	78.6	25.5	26.0	43.8	26.0	
29	55.0	109.8	227.5	365.5	778.4	732.0	235.9	62.3	31.5	26.0		25.5	
30	50.2	104.1	221.0	422.5	819.2	724.0	235.9	49.9	56.1	26.5		25.5	
31		103.2		533.5	855.2		235.9		72.5	26.0		25.5	
Total	2294.8	2480.5	5763.4	9036.4	22101.5	27457.2	12085.4	4729.8	934.9	1032.6	797.4	907.5	89621.4 CMSDAY
Mean	76.5	80.0	192.1	291.5	713.0	915.2	389.9	157.7	30.2	33.3	28.5	29.3	245.5 CMS
Max	123.5	109.8	248.2	533.5	855.2	1104.0	714.0	224.5	72.5	74.6	43.8	41.7	1104.0 CMS
Min	50.2	47.8	107.4	161.4	598.0	724.0	234.8	49.9	24.0	20.0	22.0	25.0	20.0 CMS
Runoff	198.27	214.32	497.96	780.74	1909.57	2372.30	1044.18	408.65	80.78	89.22	68.90	78.41	7743.29 MCM

Momentary Peak 1104.00 CMS, at 121.66 M (MSL), at 3.00 Hours, on Sep 9, 1992

Runoff Yield 5.13 Liters/Second/Square KM, Momentary Peak Yield 23.09 Liters/Second/Square KM

WATER YEAR 1992

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 because of backwater effect.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 46 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

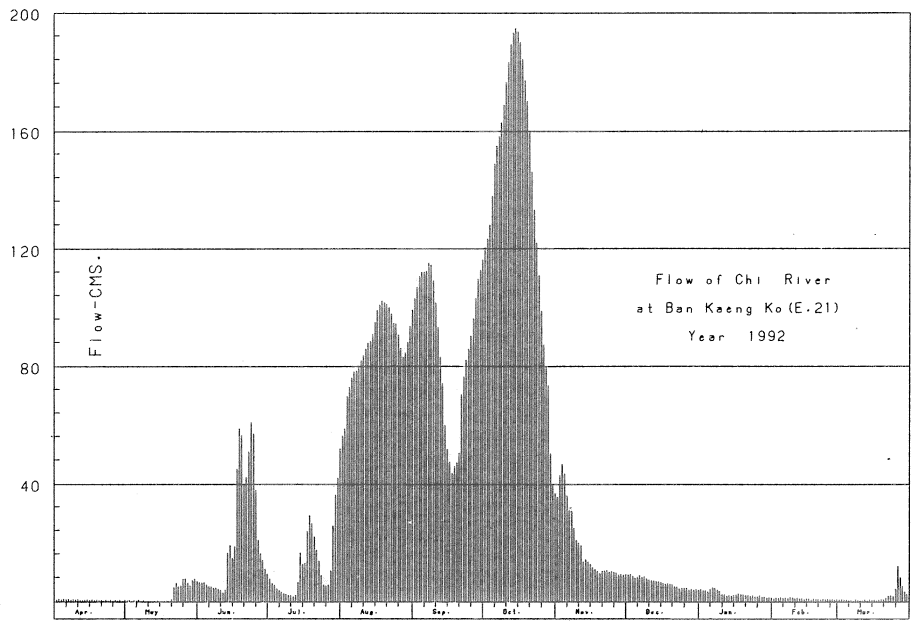
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.45	1.30	1.85	1.89	2.64	4.11	4.68	2.36	1.93	1.76	1.55	1.42	
2	1.45	1.27	1.85	1.85	2.67	4.23	4.78	2.46	1.93	1.75	1.56	1.42	
3	1.45	1.26	1.85	1.82	2.80	4.36	4.92	2.51	1.92	1.74	1.57	1.40	
4	1.44	1.25	1.83	1.78	2.94	4.40	5.22	2.47	1.90	1.73	1.57	1.39	
5	1.43	1.25	1.81	1.75	3.08	4.41	5.53	2.37	1.91	1.76	1.57	1.36	
6	1.42	1.24	1.80	1.71	3.15	4.41	5.68	2.30	1.92	1.80	1.56	1.36	
7	1.41	1.23	1.79	1.70	3.17	4.51	5.77	2.30	1.91	1.78	1.56	1.34	
8	1.40	1.20	1.78	1.67	3.22	4.48	5.89	2.22	1.91	1.76	1.60	1.33	
9	1.38	1.17	1.77	1.66	3.31	4.31	6.05	2.16	1.90	1.73	1.61	1.33	
10	1.38	1.15	1.74	1.64	3.37	4.06	6.24	2.14	1.88	1.68	1.56	1.32	
11	1.37	1.12	1.71	1.63	3.47	3.74	6.41	2.13	1.88	1.66	1.54	1.32	
12	1.37	1.13	1.75	1.65	3.54	3.36	6.56	2.02	1.87	1.65	1.55	1.33	
13	1.35	1.20	2.08	1.86	3.57	2.99	6.65	2.04	1.87	1.64	1.53	1.32	
14	1.35	1.21	2.13	2.08	3.65	2.69	6.68	2.02	1.86	1.65	1.51	1.36	
15	1.35	1.21	2.05	2.01	3.81	2.58	6.66	2.01	1.86	1.65	1.51	1.34	
16	1.35	1.21	2.12	2.01	3.95	2.52	6.57	1.98	1.84	1.67	1.50	1.32	
17	1.33	1.22	2.49	2.21	4.03	2.47	6.43	1.97	1.84	1.68	1.40	1.32	
18	1.32	1.21	2.67	2.28	4.07	2.50	6.26	1.95	1.84	1.68	1.50	1.33	
19	1.32	1.22	2.64	2.24	4.06	2.52	6.08	1.94	1.84	1.66	1.49	1.39	
20	1.31	1.33	2.42	2.18	4.03	2.56	5.82	1.95	1.83	1.66	1.47	1.47	
21	1.31	1.80	2.45	2.10	3.99	2.82	5.45	1.96	1.81	1.65	1.46	1.55	
22	1.29	1.85	2.57	2.03	3.92	3.09	5.08	1.96	1.80	1.64	1.44	1.65	
23	1.28	1.80	2.70	1.92	3.80	3.31	4.73	1.95	1.78	1.64	1.43	1.64	
24	1.28	1.82	2.65	1.83	3.78	3.47	4.37	1.95	1.78	1.63	1.43	1.64	
25	1.30	1.89	2.39	1.81	3.65	3.63	3.95	1.95	1.79	1.63	1.43	1.78	
26	1.30	1.89	2.16	1.83	3.47	3.86	3.52	1.94	1.78	1.64	1.41	1.99	
27	1.30	1.85	2.08	1.96	3.36	4.11	3.24	1.93	1.76	1.62	1.42	1.91	
28	1.30	1.81	2.03	2.23	3.41	4.32	2.96	1.93	1.76	1.61	1.41	1.81	
29	1.30	1.88	1.97	2.37	3.56	4.43	2.56	1.93	1.76	1.60		1.73	
30	1.30	1.89	1.93	2.45	3.75	4.54	2.42	1.93	1.76	1.58		1.67	
31		1.87		2.58	3.96		2.38		1.76	1.56		1.64	
Mean	1.35	1.44	2.10	1.96	3.52	3.63	5.15	2.09	1.84	1.67	1.50	1.49	
Max	1.45	1.89	2.70	2.58	4.07	4.54	6.68	2.51	1.93	1.80	1.61	1.99	6.68
Min	1.28	1.12	1.71	1.63	2.64	2.47	2.38	1.93	1.76	1.56	1.40	1.32	1.12

Annual Max Momentary Gage Height — 6.69 M (A.D), at 17.00 Hours, on Oct 14, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -1.18 M (A.D)

Left Bank Elevation — 9.79 M (A.D)

Right Bank Elevation — 9.89 M (A.D), Drainage Area 8912 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.9	0.6	6.5	7.7	56.5	103.3	120.4	35.5	9.3	4.2	1.2	0.8	
2	0.9	0.5	6.5	6.5	58.8	106.9	123.6	43.0	9.3	4.0	1.3	0.8	
3	0.9	0.5	6.5	5.6	70.0	110.8	128.0	46.7	8.9	3.8	1.4	0.8	
4	0.9	0.5	5.9	4.6	72.9	112.0	138.1	43.7	8.0	3.6	1.4	0.8	
5	0.9	0.5	5.3	4.0	76.3	112.3	149.1	36.2	8.5	4.2	1.4	0.7	
6	0.8	0.5	5.0	3.2	78.1	112.3	154.8	31.0	8.9	5.0	1.3	0.7	
7	0.8	0.5	4.8	3.0	78.6	115.3	158.3	31.0	8.5	4.6	1.3	0.7	
8	0.8	0.4	4.6	2.5	79.8	114.4	162.8	25.0	8.5	4.2	1.5	0.7	
9	0.8	0.3	4.4	2.4	82.1	109.3	168.9	21.1	8.0	3.6	1.6	0.7	
10	0.8	0.3	3.8	2.1	83.6	101.9	176.4	19.9	7.4	2.7	1.3	0.6	
11	0.7	0.2	3.2	1.9	86.1	93.3	183.2	19.3	7.4	2.4	1.2	0.6	
12	0.7	0.3	4.0	2.2	87.9	83.3	189.5	13.5	7.1	2.2	1.2	0.7	
13	0.7	0.4	16.5	6.8	88.7	74.1	193.3	14.5	7.1	2.1	1.1	0.6	
14	0.7	0.4	19.3	16.5	90.9	60.2	194.6	13.5	6.8	2.2	1.0	0.7	
15	0.7	0.4	15.0	13.0	95.2	52.0	193.7	13.0	6.8	2.2	1.0	0.7	
16	0.7	0.4	18.7	13.0	99.0	47.5	189.9	11.6	6.2	2.5	1.0	0.6	
17	0.7	0.4	45.2	24.2	101.1	43.7	184.1	11.2	6.2	2.7	0.8	0.6	
18	0.6	0.4	58.8	29.5	102.2	46.0	177.2	10.3	6.2	2.7	1.0	0.7	
19	0.6	0.4	56.5	26.5	101.9	47.5	170.0	9.8	6.2	2.4	1.0	0.8	
20	0.6	0.7	40.0	22.3	101.1	50.5	160.2	10.3	5.9	2.4	0.9	0.9	
21	0.6	5.0	42.2	17.5	100.0	70.4	146.1	10.7	5.3	2.2	0.9	1.2	
22	0.6	6.5	51.2	14.0	98.1	76.6	133.3	10.7	5.0	2.1	0.9	2.2	
23	0.6	5.0	61.0	8.9	94.9	82.1	122.0	10.3	4.6	2.1	0.9	2.1	
24	0.6	5.6	57.3	5.9	94.4	86.1	111.1	10.3	4.6	1.9	0.9	2.1	
25	0.6	7.7	37.8	5.3	90.9	90.3	99.0	10.3	4.8	1.9	0.9	4.6	
26	0.6	7.7	21.1	5.9	86.1	96.5	87.3	9.8	4.6	2.1	0.8	12.1	
27	0.6	6.5	16.5	10.7	83.3	103.3	80.3	9.3	4.2	1.8	0.8	8.5	
28	0.6	5.3	14.0	25.7	84.6	109.6	73.4	9.3	4.2	1.6	0.8	5.3	
29	0.6	7.4	11.2	36.2	88.4	112.9	50.5	9.3	4.2	1.5		3.6	
30	0.6	7.7	9.3	42.2	93.6	116.2	40.0	9.3	4.2	1.4		2.5	
31		7.1		52.0	99.2		37.0		4.2	1.3		2.1	
Total	21.2	80.1	652.1	421.8	2704.3	2640.6	4296.1	559.4	201.1	83.6	30.8	60.5	11751.6 CMSDAY
Mean	0.7	2.6	21.7	13.6	87.2	88.0	138.6	18.6	6.5	2.7	1.1	2.0	32.2 CMS
Max	0.9	7.7	61.0	52.0	102.2	116.2	194.6	46.7	9.3	5.0	1.6	12.1	194.6 CMS
Min	0.6	0.2	3.2	1.9	56.5	43.7	37.0	9.3	4.2	1.3	0.8	0.6	0.2 CMS
Runoff	1.83	6.92	56.34	36.44	233.65	228.15	371.18	48.33	17.38	7.22	2.66	5.23	1015.34 MCM

Momentary Peak 194.98 CMS, at 6.69 M (A.D), at 17.00 Hours, on Oct 14, 1992

Runoff Yield 3.61 Liters/Second/Square KM, Momentary Peak Yield 21.88 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

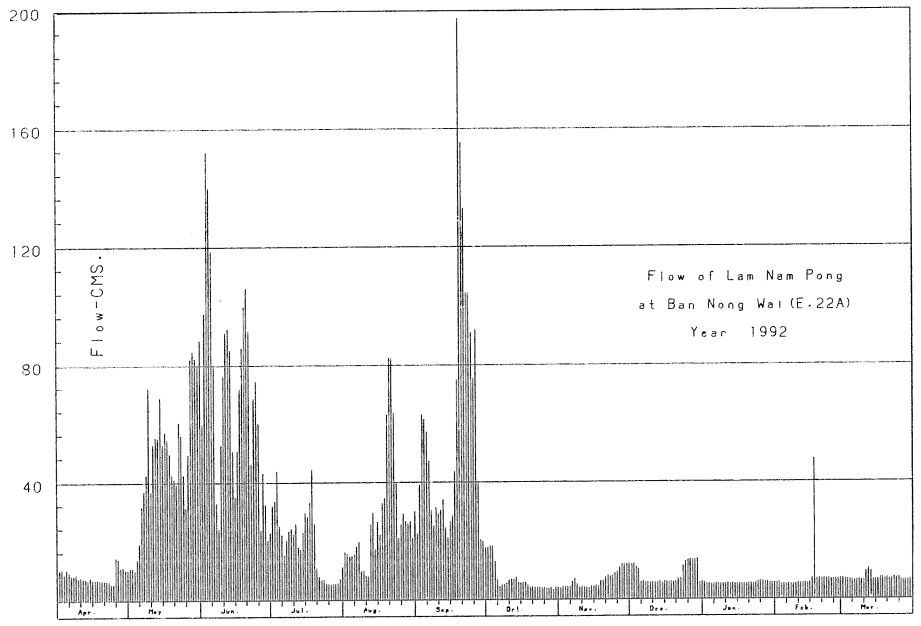
Lam Nam Phong at Ban Nong Wai, Khon Kaen (E.22A)

Location	Lat. 16-43-29 N., Long. 102-48-21 E., on left bank about 500 meters downstream from the bridge of Khon Kaen-Udon Thani Highway, Amphoe Nam Phong, Khon Kaen.
Drainage Area	13,183 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+150.92 m.(M.S.L.).
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+161.766 m.(M.S.L.).
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithemetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1966-1976, 1982-1987, 1992 to date.
Rated by Float	-
Rated by Current Meter	1966-1976, 1982-1987, 1992 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 Ubonrat Dam above gage sites. Stage-discharge relation defined by 18 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.57	153.58	154.85	154.18	153.74	153.92	153.78	153.32	153.62	153.40	153.40	153.46	
2	153.57	153.58	155.65	154.23	153.72	154.36	153.80	153.33	153.62	153.39	153.40	153.46	
3	153.53	153.56	156.64	154.48	153.70	154.93	153.79	153.34	153.59	153.37	153.38	153.44	
4	153.57	153.67	156.43	153.99	153.70	154.89	153.65	153.33	153.57	153.37	153.37	153.45	
5	153.55	153.82	156.05	153.91	153.72	154.79	153.46	153.34	153.41	153.38	153.37	153.43	
6	153.51	154.18	155.29	153.71	153.79	154.56	153.35	153.41	153.42	153.38	153.37	153.43	
7	153.51	154.31	154.21	153.85	153.84	154.14	153.36	153.47	153.40	153.38	153.37	153.43	
8	153.52	154.45	153.96	153.94	153.55	153.99	153.38	153.37	153.40	153.37	153.37	153.45	
9	153.48	155.13	154.69	153.97	153.56	154.17	153.39	153.33	153.40	153.38	153.38	153.43	
10	153.49	154.31	155.22	153.92	153.51	154.11	153.44	153.33	153.40	153.37	153.40	153.42	
11	153.47	154.69	155.52	154.01	153.50	154.14	153.46	153.33	153.40	153.38	153.38	153.54	
12	153.47	154.75	155.55	153.79	154.01	154.24	153.46	153.32	153.41	153.38	153.39	153.57	
13	153.44	154.74	155.40	153.76	154.12	153.97	153.48	153.32	153.41	153.38	153.39	153.55	
14	153.49	155.06	154.64	153.93	153.76	153.88	153.41	153.34	153.40	153.38	153.39	153.44	
15	153.45	154.69	154.26	154.12	154.03	154.04	153.39	153.34	153.41	153.38	153.39	153.44	
16	153.46	154.79	154.64	154.08	153.91	154.09	153.40	153.35	153.41	153.38	153.46	153.44	
17	153.45	154.73	155.12	154.22	154.21	154.47	153.41	153.35	153.41	153.38	154.57	153.48	
18	153.45	154.62	155.42	154.49	154.25	155.19	153.36	153.42	153.41	153.37	153.46	153.47	
19	153.44	154.45	155.70	154.02	154.93	157.37	153.33	153.44	153.41	153.38	153.46	153.46	
20	153.44	154.41	155.82	153.58	155.35	156.69	153.33	153.48	153.41	153.38	153.46	153.47	
21	153.43	154.37	155.53	153.50	155.34	156.31	153.32	153.51	153.45	153.38	153.46	153.45	
22	153.43	154.87	154.54	153.45	154.94	155.79	153.33	153.50	153.47	153.38	153.46	153.45	
23	153.38	154.76	155.05	153.45	154.38	155.79	153.32	153.50	153.60	153.38	153.46	153.48	
24	153.39	154.45	155.18	153.40	153.87	155.52	153.32	153.53	153.64	153.42	153.45	153.46	
25	153.69	154.17	154.86	153.38	154.01	155.20	153.32	153.54	153.66	153.42	153.45	153.47	
26	153.67	154.61	153.95	153.38	154.11	155.54	153.31	153.58	153.66	153.42	153.45	153.43	
27	153.59	155.34	154.46	153.39	154.04	154.39	153.31	153.62	153.66	153.41	153.46	153.43	
28	153.59	155.39	154.20	153.39	154.01	153.86	153.32	153.61	153.66	153.41	153.46	153.43	
29	153.57	155.34	153.85	153.40	154.04	153.84	153.29	153.62	153.67	153.40		153.43	
30	153.56	155.29	153.93	153.46	153.87	153.78	153.32	153.62	153.40	153.39		153.44	
31		155.47		153.59	154.13		153.32		153.41	153.39		153.47	
Mean	153.51	154.57	155.02	153.81	154.05	154.73	153.42	153.43	153.49	153.39	153.46	153.46	
Max	153.69	155.47	156.64	154.49	155.35	157.37	153.80	153.62	153.67	153.42	154.57	153.57	157.37
Min	153.38	153.56	153.85	153.38	153.50	153.78	153.29	153.32	153.40	153.37	153.37	153.42	153.29

Annual Max Momentary Gage Height 157.73 M (MSL), at 18.00 Hours, on Sep 19, 1992
Zero Gage at Bottom Elevation 150.92 M (MSL), River Bed 150.69 M (MSL)
Left Bank Elevation 166.22 M (MSL)
Right Bank Elevation 166.13 M (MSL), Drainage Area 13183 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.45	10.80	59.85	31.96	16.40	22.70	17.80	4.12	12.20	5.80	5.80	7.12	
2	10.45	10.80	97.50	33.87	15.70	39.06	18.50	4.33	12.20	5.59	5.80	7.12	
3	9.05	10.10	152.40	44.06	15.00	63.29	18.15	4.54	11.15	5.17	5.38	6.68	
4	10.45	13.95	139.80	25.15	15.00	61.57	13.25	4.33	10.45	5.17	5.17	6.90	
5	9.75	19.20	118.75	22.35	15.70	57.27	7.12	4.54	6.02	5.38	5.17	6.46	
6	8.35	31.96	79.73	15.35	18.15	47.42	4.75	6.02	6.24	5.38	5.17	6.46	
7	8.35	37.01	33.09	20.25	19.90	30.48	4.96	7.34	5.80	5.38	5.17	6.46	
8	8.70	42.80	24.10	23.40	9.75	25.15	5.38	5.17	5.80	5.17	5.17	6.90	
9	7.56	72.28	52.97	24.45	10.10	31.59	5.59	4.33	5.80	5.38	5.38	6.46	
10	7.78	37.01	76.44	22.70	8.35	29.37	6.68	4.33	5.80	5.17	5.80	6.24	
11	7.34	52.97	91.00	25.85	8.00	30.48	7.12	4.33	5.80	5.38	5.38	9.40	
12	7.34	55.55	92.50	18.15	25.85	34.26	7.12	4.12	6.02	5.38	5.59	10.45	
13	6.68	55.12	85.10	17.10	29.74	24.45	7.56	4.12	6.02	5.38	5.59	9.75	
14	7.78	69.06	50.82	23.05	17.10	21.30	6.02	4.54	5.80	5.38	5.59	6.68	
15	6.90	52.97	35.04	29.74	26.55	26.90	5.59	4.54	6.02	5.38	5.59	6.68	
16	7.12	57.27	50.82	28.30	22.35	28.65	5.80	4.75	6.02	5.38	7.12	6.68	
17	6.90	54.69	71.82	33.48	33.09	43.64	6.02	4.75	6.02	5.38	47.84	7.56	
18	6.90	49.96	86.08	44.48	34.65	75.04	4.96	6.24	6.02	5.17	7.12	7.34	
19	6.68	42.80	100.00	26.20	63.29	197.28	4.33	6.68	6.02	5.38	7.12	7.12	
20	6.68	41.12	106.10	10.80	82.65	155.40	4.33	7.56	6.02	5.38	7.12	7.34	
21	6.46	39.47	91.50	8.00	82.16	133.05	4.12	8.35	6.90	5.38	7.12	6.90	
22	6.46	60.71	46.58	6.90	63.72	104.50	4.33	8.00	7.34	5.38	7.12	6.90	
23	5.38	55.98	68.60	6.90	39.88	104.50	4.12	8.00	11.50	5.38	7.12	7.56	
24	5.59	42.80	74.58	5.80	20.95	91.00	4.12	9.05	12.90	6.24	6.90	7.12	
25	14.65	31.59	60.28	5.38	25.85	75.50	4.12	9.40	13.60	6.24	6.90	7.34	
26	13.95	49.53	23.75	5.38	29.37	92.00	3.91	10.80	13.60	6.24	6.90	6.46	
27	11.15	82.16	43.22	5.59	26.90	40.29	3.91	12.20	13.60	6.02	7.12	6.46	
28	11.15	84.61	32.70	5.59	25.85	20.60	4.12	11.85	13.60	6.02	7.12	6.46	
29	10.45	82.16	20.25	5.80	26.90	19.90	3.51	12.20	13.95	5.80		6.46	
30	10.10	79.73	23.05	7.12	20.95	17.80	4.12	12.20	5.80	5.59		6.68	
31		88.53		11.15	30.11		4.12		6.02	5.59		7.34	
Total	256.55	1514.69	2088.42	594.30	879.96	1744.44	205.53	202.73	260.03	171.06	214.37	221.48	8353.56 CMSDAY
Mean	8.55	48.86	69.61	19.17	28.39	58.15	6.63	6.76	8.39	5.52	7.66	7.14	22.89 CMS
Max	14.65	88.53	152.40	44.48	82.65	197.28	18.50	12.20	13.95	6.24	47.84	10.45	197.28 CMS
Min	5.38	10.10	20.25	5.38	8.00	17.80	3.51	4.12	5.80	5.17	5.17	6.24	3.51 CMS
Runoff	22.166	130.869	180.439	51.348	76.029	150.720	17.758	17.516	22.467	14.780	18.522	19.136	721.748 MCM

Momentary Peak 220.32 CMS, at 157.73 M (MSL), at 18.00 Hours, on Sep 19, 1992
Runoff Yield 1.74 Liters/Second/Square KM, Momentary Peak Yield 16.71 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

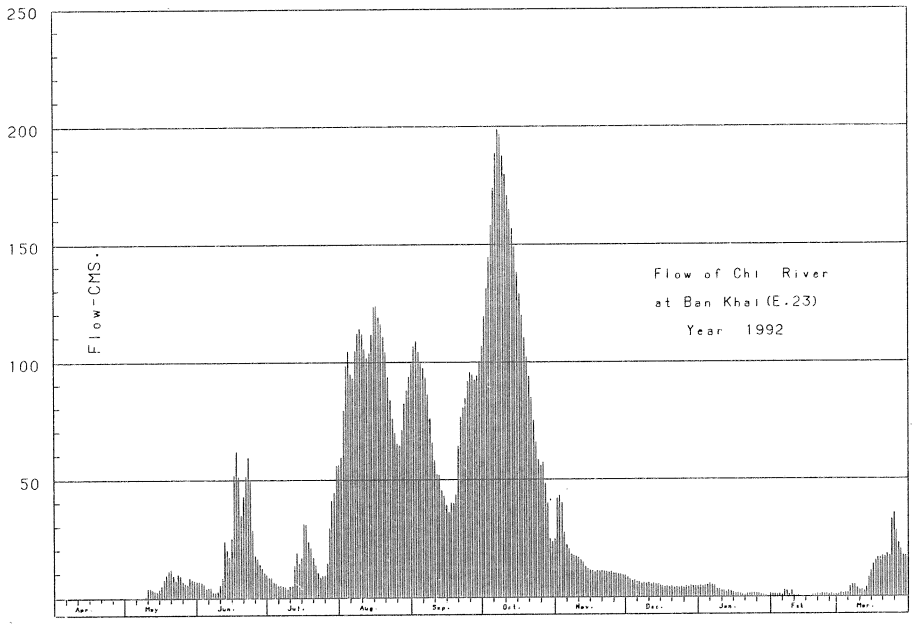
Chi River at Ban Khai, Chaiyaphum (E.23)

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	+185.283 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1954-1956, 1967 to date.
Rating Operation	
Period of Rating	1968-1974,1982 to date.
Rated by Float	-
Rated by Current Meter	1968-1974,1982 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.81	176.56	177.32	177.37	179.50	180.81	181.05	178.25	177.37	177.26	177.12	177.11	
2	176.82	176.55	177.32	177.36	180.21	180.86	181.27	178.36	177.34	177.26	177.11	177.13	
3	176.83	176.54	177.29	177.32	180.65	180.77	181.48	178.08	177.33	177.26	177.11	177.13	
4	176.85	176.51	177.24	177.30	180.77	180.68	181.69	177.79	177.33	177.28	177.11	177.13	
5	176.88	176.50	177.25	177.28	180.58	180.63	181.91	177.69	177.32	177.29	177.10	177.15	
6	176.91	176.51	177.24	177.27	180.54	180.55	182.12	177.65	177.31	177.28	177.19	177.24	
7	176.92	176.57	177.18	177.27	180.78	180.38	182.25	177.61	177.30	177.26	177.19	177.28	
8	176.93	176.84	177.16	177.25	180.92	180.11	182.22	177.59	177.30	177.22	177.10	177.27	
9	176.91	177.09	177.20	177.23	180.96	179.78	182.11	177.59	177.30	177.21	177.19	177.23	
10	176.88	177.23	177.28	177.26	180.92	179.44	182.00	177.57	177.30	177.20	177.07	177.20	
11	176.85	177.24	177.36	177.28	180.79	179.13	181.87	177.55	177.29	177.18	177.07	177.19	
12	176.80	177.22	177.72	177.49	180.71	179.09	181.78	177.52	177.29	177.17	177.06	177.18	
13	176.76	177.19	177.65	177.62	180.76	178.61	181.67	177.48	177.29	177.18	177.05	177.23	
14	176.68	177.19	177.58	177.52	180.91	178.35	181.55	177.45	177.28	177.18	177.04	177.36	
15	176.64	177.22	177.75	177.58	181.13	177.99	181.38	177.44	177.27	177.15	177.04	177.42	
16	176.58	177.27	179.12	177.86	181.13	177.94	181.23	177.43	177.25	177.14	177.03	177.49	
17	176.54	177.35	179.63	177.85	181.05	178.02	181.06	177.42	177.25	177.13	177.03	177.54	
18	176.54	177.39	179.05	177.72	180.99	178.02	180.89	177.43	177.25	177.13	177.08	177.56	
19	176.58	177.44	177.92	177.66	180.90	178.41	180.72	177.43	177.25	177.13	177.10	177.57	
20	176.62	177.45	178.33	177.58	180.76	179.72	180.56	177.43	177.25	177.13	177.11	177.58	
21	176.65	177.39	179.08	177.49	180.55	180.13	180.35	177.43	177.24	177.12	177.11	177.58	
22	176.66	177.34	179.52	177.42	180.33	180.24	180.09	177.42	177.24	177.13	177.12	177.60	
23	176.67	177.40	178.95	177.37	180.11	180.34	179.79	177.42	177.24	177.13	177.12	177.59	
24	176.67	177.38	177.81	177.38	179.92	180.52	179.46	177.42	177.24	177.14	177.11	177.88	
25	176.66	177.33	177.60	177.38	179.76	180.59	179.34	177.41	177.24	177.14	177.11	177.93	
26	176.66	177.30	177.56	177.52	179.74	180.57	179.39	177.40	177.25	177.12	177.11	177.80	
27	176.65	177.30	177.51	177.83	179.97	180.53	178.83	177.40	177.25	177.10	177.10	177.70	
28	176.61	177.36	177.46	178.16	180.28	180.56	178.00	177.39	177.26	177.10	177.09	177.64	
29	176.59	177.35	177.42	178.53	180.43	180.69	177.74	177.39	177.26	177.06		177.59	
30	176.58	177.33	177.39	179.34	180.55	180.82	177.71	177.38	177.25	177.05		177.58	
31		177.33		179.34	180.66		177.74		177.26	177.12		177.57	
Mean	176.72	177.12	177.83	177.64	180.56	179.81	180.62	177.56	177.28	177.17	177.10	177.43	
Max	176.93	177.45	179.63	179.34	181.13	180.86	182.25	178.36	177.37	177.29	177.19	177.93	182.25
Min	176.54	176.50	177.16	177.23	179.50	177.94	177.71	177.38	177.24	177.05	177.03	177.11	176.50

Annual Max Momentary Gage Height 182.26 M (MSL), at 1.00 Hours, on Oct 8, 1992
Zero Gage at Bottom Elevation 174.00 M (MSL), River Bed 174.65 M (MSL)
Left Bank Elevation 184.19 M (MSL)
Right Bank Elevation 183.38 M (MSL), Drainage Area 6835 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	6.80	8.80	59.50	106.50	119.25	42.00	8.80	4.80	1.40	1.20	
2	0.00	0.00	6.80	8.40	79.65	109.00	131.49	43.10	7.60	4.80	1.20	1.60	
3	0.00	0.00	5.70	6.80	98.50	104.50	144.24	40.40	7.20	4.80	1.20	1.60	
4	0.00	0.00	4.20	6.00	104.50	100.00	158.30	27.50	7.20	5.40	1.20	1.60	
5	0.00	0.00	4.50	5.40	95.00	97.50	173.70	22.50	6.80	5.70	1.00	2.00	
6	0.00	0.00	4.20	5.10	93.00	93.50	188.60	20.50	6.40	5.40	2.80	4.20	
7	0.00	0.00	2.60	5.10	105.00	86.00	199.00	18.50	6.00	4.80	2.80	5.40	
8	0.00	0.00	2.20	4.50	112.10	76.15	196.60	17.60	6.00	3.60	1.00	5.10	
9	0.00	0.90	3.00	3.90	114.30	65.70	187.80	17.60	6.00	3.30	2.80	3.90	
10	0.00	3.90	5.40	4.80	112.10	58.30	180.00	16.80	6.00	3.00	0.70	3.00	
11	0.00	4.20	8.40	5.40	105.50	52.45	170.90	16.00	5.70	2.60	0.70	2.80	
12	0.00	3.60	24.00	13.60	101.50	51.87	164.60	14.80	5.70	2.40	0.60	2.60	
13	0.00	2.80	20.50	19.00	104.00	45.63	156.90	13.20	5.70	2.60	0.50	3.90	
14	0.00	2.80	17.20	14.80	111.55	43.00	148.75	12.00	5.40	2.60	0.40	8.40	
15	0.00	3.60	25.50	17.20	123.65	39.40	138.00	11.60	5.10	2.00	0.40	10.80	
16	0.00	5.10	52.30	31.60	123.65	36.40	129.21	11.20	4.50	1.80	0.30	13.60	
17	0.00	8.00	62.16	31.00	119.25	40.10	119.80	10.80	4.50	1.60	0.30	15.60	
18	0.00	9.60	51.35	24.00	115.95	40.10	110.50	11.20	4.50	1.60	0.80	16.40	
19	0.00	11.60	35.20	21.00	111.00	43.60	102.00	11.20	4.50	1.60	1.00	16.80	
20	0.00	12.00	42.80	17.20	104.00	64.20	94.00	11.20	4.50	1.60	1.20	17.20	
21	0.00	9.60	51.74	13.60	93.50	76.85	84.80	11.20	4.20	1.40	1.20	17.20	
22	0.00	7.60	59.90	10.80	84.00	80.70	75.45	10.80	4.20	1.60	1.40	18.00	
23	0.00	10.00	50.05	8.80	76.15	84.40	65.95	10.80	4.20	1.60	1.40	17.60	
24	0.00	9.20	28.60	9.20	69.74	92.00	58.70	10.80	4.20	1.80	1.20	32.80	
25	0.00	7.20	18.00	9.20	65.20	95.50	56.30	10.40	4.20	1.80	1.20	35.80	
26	0.00	6.00	16.40	14.80	64.70	94.50	57.30	10.00	4.50	1.40	1.20	28.00	
27	0.00	6.00	14.40	29.80	71.34	92.50	48.49	10.00	4.50	1.00	1.00	23.00	
28	0.00	8.40	12.40	41.10	82.10	94.00	40.00	9.60	4.80	1.00	0.90	20.00	
29	0.00	8.00	10.80	44.80	88.06	100.50	25.00	9.60	4.80	0.60		17.60	
30	0.00	7.20	9.60	56.30	93.50	107.00	23.50	9.20	4.50	0.50		17.20	
31		7.20		56.30	99.00		25.00		4.80	1.40		16.80	
Total	0.00	154.50	656.70	548.30	2980.99	2271.85	3574.13	492.10	167.00	80.10	31.80	381.70	11339.17 CMSDAY
Mean	0.00	4.98	21.89	17.69	96.16	75.73	115.29	16.40	5.39	2.58	1.14	12.31	31.07 CMS
Max	0.00	12.00	62.16	56.30	123.65	109.00	199.00	43.10	8.80	5.70	2.80	35.80	199.00 CMS
Min	0.00	0.00	2.20	3.90	59.50	36.40	23.50	9.20	4.20	0.50	0.30	1.20	0.00 CMS
Runoff	0.000	13.349	56.739	47.373	257.558	196.288	308.805	42.517	14.429	6.921	2.748	32.979	979.704 MCM

Momentary Peak 199.80 CMS, at 182.26 M (MSL), at 1.00 Hours, on Oct 8, 1992

Runoff Yield 4.55 Liters/Second/Square KM, Momentary Peak Yield 29.23 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

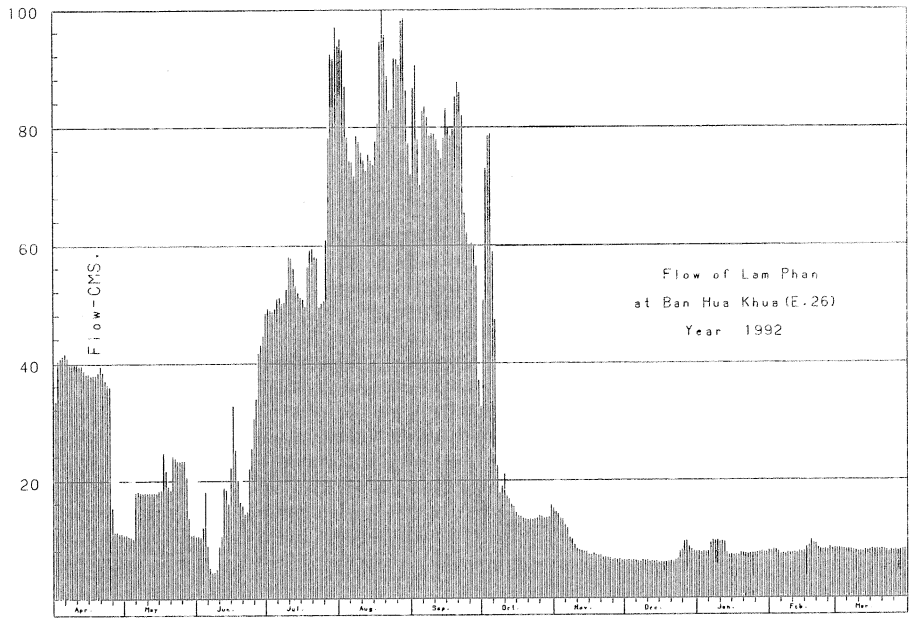
Lam Phan at Ban Hua Khua, Kalasin (E.26)

Location	Lat. 16-24-36 N., Long. 103-28-15 E., on right bank at the bridge on the road, Amphoe Yang Talat, Kalasin.
Drainage Area	6,565 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+134.633 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank upstream side at the abutment of the bridge.
Elevation	+145.395 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1971-1976, 1982 to date.
Rated by Float	-
Rated by Current Meter	1971-1976, 1982 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Lam Pao Dam. Stage-discharge relation defined by 21 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	135.79	134.91	134.90	136.37	137.78	137.55	136.42	135.09	134.68	134.76	134.77	134.79	
2	136.04	134.90	134.89	136.36	137.73	137.66	137.16	135.07	134.68	134.76	134.78	134.79	
3	136.06	134.89	134.97	136.35	137.56	137.30	137.32	135.04	134.68	134.76	134.78	134.79	
4	136.07	134.88	135.22	136.37	137.31	137.08	137.33	135.03	134.68	134.76	134.76	134.78	
5	136.09	135.21	134.82	136.43	137.20	137.44	136.72	134.99	134.68	134.76	134.74	134.78	
6	136.06	135.22	134.61	136.44	137.19	137.46	136.30	134.96	134.67	134.84	134.74	134.78	
7	136.02	135.21	134.57	136.40	137.12	137.41	135.38	134.89	134.67	134.86	134.74	134.78	
8	136.02	135.21	134.57	136.41	137.32	137.32	135.21	134.87	134.68	134.86	134.75	134.77	
9	136.02	135.21	134.60	136.49	137.29	137.33	135.25	134.83	134.68	134.86	134.75	134.77	
10	136.02	135.21	134.81	136.69	137.24	137.33	135.33	134.79	134.68	134.85	134.75	134.76	
11	136.01	135.21	134.90	136.68	137.20	137.30	135.19	134.78	134.67	134.85	134.75	134.76	
12	136.01	135.21	135.24	136.62	137.15	137.25	135.17	134.77	134.67	134.85	134.75	134.76	
13	135.98	135.21	135.23	136.51	137.23	137.21	135.14	134.77	134.67	134.75	134.76	134.77	
14	135.96	135.21	135.14	136.47	137.20	137.31	135.12	134.76	134.67	134.73	134.76	134.77	
15	135.96	135.22	135.37	136.44	137.18	137.45	135.08	134.74	134.66	134.73	134.76	134.77	
16	135.95	135.23	135.76	136.43	137.29	137.36	135.06	134.73	134.66	134.73	134.80	134.78	
17	135.95	135.46	135.48	136.38	137.38	137.32	135.05	134.75	134.66	134.73	134.82	134.78	
18	135.95	135.35	135.29	136.63	137.77	137.35	135.04	134.73	134.66	134.73	134.86	134.78	
19	135.97	135.25	135.15	136.73	138.07	137.51	135.03	134.73	134.67	134.75	134.84	134.78	
20	136.01	135.23	135.13	136.74	137.80	137.58	135.03	134.73	134.67	134.75	134.83	134.78	
21	135.97	135.44	135.07	136.69	137.61	137.53	135.03	134.71	134.67	134.74	134.80	134.78	
22	135.92	135.43	135.09	136.68	137.44	137.42	135.03	134.71	134.68	134.74	134.78	134.77	
23	135.89	135.41	135.36	136.38	137.45	136.94	135.03	134.71	134.70	134.74	134.78	134.76	
24	135.88	135.41	135.49	136.40	137.69	136.83	135.04	134.70	134.76	134.75	134.78	134.77	
25	135.12	135.41	135.68	136.42	137.69	136.76	135.06	134.69	134.78	134.75	134.78	134.77	
26	134.93	135.41	135.80	136.79	137.66	136.77	135.05	134.69	134.85	134.75	134.80	134.77	
27	134.93	135.31	136.09	137.31	137.87	136.76	135.04	134.69	134.86	134.76	134.79	134.77	
28	134.92	135.04	136.14	137.71	137.88	136.63	135.04	134.69	134.81	134.76	134.79	134.77	
29	134.92	134.91	136.20	137.69	137.54	135.92	135.05	134.68	134.78	134.76		134.78	
30	134.91	134.91	136.34	137.84	137.28	135.75	135.13	134.68	134.77	134.75		134.78	
31		134.90		137.75	137.13		135.11		134.76	134.77		134.78	
Mean	135.78	135.19	135.26	136.70	137.46	137.16	135.45	134.80	134.71	134.77	134.78	134.77	
Max	136.09	135.46	136.34	137.84	138.07	137.66	137.33	135.09	134.86	134.86	134.86	134.79	138.07
Min	134.91	134.88	134.57	136.35	137.12	135.75	135.03	134.68	134.66	134.73	134.74	134.76	134.57

Annual Max Momentary Gage Height 138.14 M (MSL), at 7.00 Hours, on Aug 19, 1992
Zero Gage at Bottom Elevation 134.63 M (MSL), River Bed 133.46 M (MSL)
Left Bank Elevation 140.53 M (MSL)
Right Bank Elevation 141.32 M (MSL), Drainage Area 6565 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.63	10.82	10.60	49.29	94.88	86.65	50.64	14.78	6.44	7.88	8.06	8.42	
2	40.38	10.60	10.40	49.02	93.08	90.56	73.04	14.34	6.44	7.88	8.24	8.42	
3	40.92	10.40	12.14	48.75	87.00	77.90	78.60	13.68	6.44	7.88	8.24	8.42	
4	41.19	10.20	18.24	49.29	78.25	70.32	78.95	13.46	6.44	7.88	7.88	8.24	
5	41.73	17.97	9.00	50.91	74.40	82.80	58.96	12.58	6.44	7.88	7.52	8.24	
6	40.92	18.24	5.18	51.18	74.06	83.50	47.40	11.92	6.26	9.40	7.52	8.24	
7	39.84	17.97	4.46	50.10	71.68	81.75	22.56	10.40	6.26	9.80	7.52	8.24	
8	39.84	17.97	4.46	50.37	78.60	78.60	17.97	10.00	6.44	9.80	7.70	8.06	
9	39.84	17.97	5.00	52.53	77.55	78.95	19.05	9.20	6.44	9.80	7.70	8.06	
10	39.84	17.97	8.80	58.12	75.80	78.95	21.21	8.42	6.44	9.60	7.70	7.88	
11	39.57	17.97	10.60	57.84	74.40	77.90	17.43	8.24	6.26	9.60	7.70	7.88	
12	39.57	17.97	18.78	56.16	72.70	76.15	16.89	8.06	6.26	9.60	7.70	7.88	
13	38.76	17.97	18.51	53.08	75.45	74.75	16.08	8.06	6.26	7.70	7.88	8.06	
14	38.22	17.97	16.08	51.99	74.40	78.25	15.54	7.88	6.26	7.34	7.88	8.06	
15	38.22	18.24	22.29	51.18	73.72	83.15	14.56	7.52	6.08	7.34	7.88	8.06	
16	37.95	18.51	32.82	50.91	77.55	80.00	14.12	7.34	6.08	7.34	8.60	8.24	
17	37.95	24.72	25.26	49.56	80.70	78.60	13.90	7.70	6.08	7.34	9.00	8.24	
18	37.95	21.75	20.13	56.44	94.52	79.65	13.68	7.34	6.08	7.34	9.80	8.24	
19	38.49	19.05	16.35	59.24	105.32	85.25	13.46	7.34	6.26	7.70	9.40	8.24	
20	39.57	18.51	15.81	59.52	95.60	87.70	13.46	7.34	6.26	7.70	9.20	8.24	
21	38.49	24.18	14.34	58.12	88.76	85.95	13.46	6.98	6.26	7.52	8.60	8.24	
22	37.14	23.91	14.78	57.84	82.80	82.10	13.46	6.98	6.44	7.52	8.24	8.06	
23	36.33	23.37	22.02	49.56	83.15	65.56	13.46	6.98	6.80	7.52	8.24	7.88	
24	36.06	23.37	25.53	50.10	91.64	62.10	13.68	6.80	7.88	7.70	8.24	8.06	
25	15.54	23.37	30.66	50.64	91.64	60.08	14.12	6.62	8.24	7.70	8.24	8.06	
26	11.26	23.37	33.90	60.92	90.56	60.36	13.90	6.62	9.60	7.70	8.60	8.06	
27	11.26	20.67	41.73	78.25	98.12	60.08	13.68	6.62	9.80	7.88	8.42	8.06	
28	11.04	13.68	43.08	92.36	98.48	56.44	13.68	6.62	8.80	7.88	8.42	8.06	
29	11.04	10.82	44.70	91.64	86.30	37.14	13.90	6.44	8.24	7.88		8.24	
30	10.82	10.82	48.48	97.04	77.20	32.55	15.81	6.44	8.06	7.70		8.24	
31		10.60		93.80	72.02		15.27		7.88	8.06		8.24	
Total	1003.36	550.93	604.13	1835.75	2590.33	2213.74	771.92	262.70	213.92	251.86	230.12	252.56	10781.32 CMSDAY
Mean	33.45	17.77	20.14	59.22	83.56	73.79	24.90	8.76	6.90	8.12	8.22	8.15	29.54 CMS
Max	41.73	24.72	48.48	97.04	105.32	90.56	78.95	14.78	9.80	9.80	8.42		105.32 CMS
Min	10.82	10.20	4.46	48.75	71.68	32.55	13.46	6.44	6.08	7.34	7.52	7.88	4.46 CMS
Runoff	86.690	47.600	52.197	158.609	223.805	191.267	66.694	22.697	18.483	21.761	19.882	21.821	931.506 MCM

Momentary Peak 107.84 CMS, at 138.14 M (MSL), at 7.00 Hours, on Aug 19, 1992

Runoff Yield 4.50 Liters/Second/Square KM, Momentary Peak Yield 16.43 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

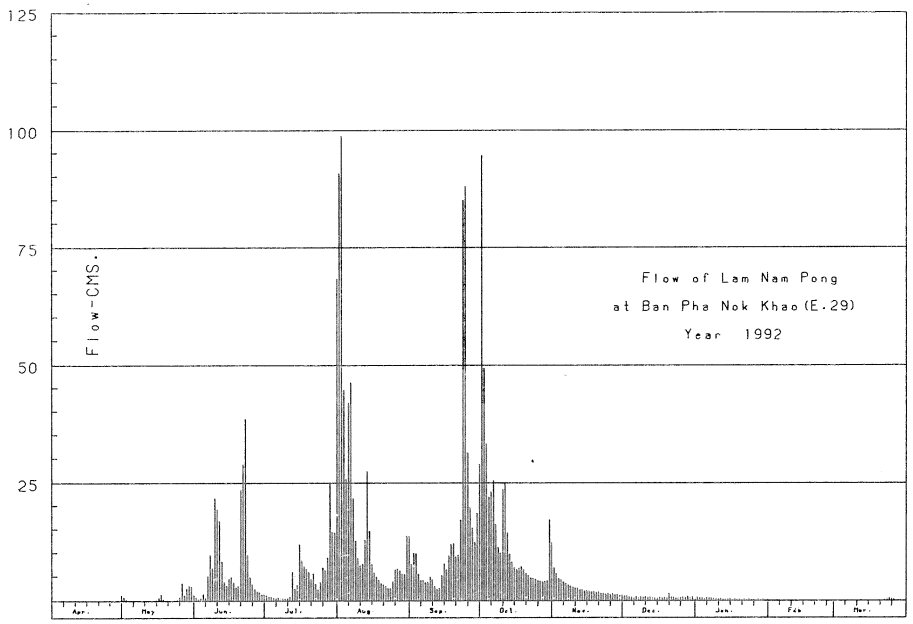
Lam Nam Phong at Ban Pha Nok Khao, Loei (E.29)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
Ceneral Description	Records good. Stage-discharge relation defined by 93 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	225.71	225.88	225.85	225.92	231.23	226.67	231.39	226.61	225.92	225.86	225.77	225.70	
2	225.71	225.84	225.81	225.90	231.55	226.91	229.40	226.45	225.91	225.86	225.77	225.70	
3	225.70	225.75	225.82	225.87	229.17	226.92	228.59	226.35	225.90	225.86	225.77	225.70	
4	225.70	225.74	225.97	225.86	228.12	226.46	227.88	226.31	225.90	225.85	225.77	225.70	
5	225.71	225.72	225.86	225.84	229.03	226.31	227.94	226.27	225.89	225.85	225.78	225.70	
6	225.71	225.72	226.41	225.84	229.24	226.29	228.11	226.22	225.89	225.85	225.76	225.70	
7	225.71	225.71	226.87	225.83	227.86	226.25	227.48	226.20	225.88	225.83	225.75	225.70	
8	225.70	225.74	226.58	225.82	227.19	226.25	227.05	226.16	225.88	225.83	225.75	225.74	
9	225.71	225.72	227.86	225.81	226.80	226.39	226.91	226.15	225.88	225.82	225.75	225.71	
10	225.71	225.70	227.69	225.84	226.64	226.31	227.99	226.13	225.88	225.82	225.75	225.70	
11	225.70	225.70	227.53	225.87	226.70	226.15	228.07	226.11	225.87	225.82	225.75	225.71	
12	225.68	225.69	226.75	226.51	227.19	226.09	227.36	226.08	225.87	225.82	225.75	225.75	
13	225.68	225.69	226.27	226.11	228.23	226.11	226.90	226.07	225.86	225.81	225.75	225.76	
14	225.71	225.71	226.17	226.18	227.40	226.42	226.72	226.05	225.86	225.81	225.75	225.75	
15	225.67	225.74	226.34	227.11	226.69	226.70	226.59	226.05	225.86	225.81	225.75	225.75	
16	225.66	225.87	226.37	226.81	226.47	226.54	226.56	226.03	225.85	225.80	225.75	225.75	
17	225.69	225.95	226.26	226.64	226.39	226.87	226.58	226.03	225.85	225.80	225.75	225.73	
18	225.68	225.78	226.14	226.56	226.30	227.10	226.63	226.02	225.85	225.80	225.73	225.72	
19	225.68	225.75	226.16	226.50	226.24	227.13	226.54	226.01	225.85	225.79	225.73	225.72	
20	225.66	225.73	227.98	226.32	226.19	226.83	226.47	226.01	225.97	225.79	225.72	225.72	
21	225.68	225.71	228.33	226.45	226.15	226.87	226.41	225.99	225.89	225.79	225.72	225.72	
22	225.67	225.71	228.86	226.22	226.12	227.55	226.37	225.97	225.86	225.79	225.71	225.74	
23	225.66	225.70	226.87	226.09	226.10	231.01	226.34	225.97	225.85	225.80	225.71	225.86	
24	225.66	225.79	226.38	226.25	226.28	231.12	226.34	225.97	225.85	225.80	225.71	225.88	
25	225.66	225.86	226.20	226.61	226.56	228.50	226.30	225.95	225.87	225.79	225.70	225.82	
26	225.67	226.24	226.10	226.53	226.56	227.72	226.27	225.97	225.86	225.79	225.70	225.78	
27	225.67	225.94	226.04	226.83	226.54	227.43	226.27	225.95	225.87	225.79	225.70	225.76	
28	225.65	226.10	226.00	228.08	226.44	227.15	226.27	225.94	225.89	225.79	225.70	225.75	
29	225.67	226.18	225.96	227.36	226.45	227.64	226.28	225.93	225.88	225.78		225.73	
30	225.92	226.15	225.94	227.35	227.29	228.33	227.56	225.92	225.88	225.78		225.73	
31		225.94		230.34	227.27		227.13		225.87	225.77		225.73	
Mean	225.69	225.82	226.58	226.49	227.30	227.13	227.18	226.10	225.88	225.81	225.74	225.74	
Max	225.92	226.24	228.86	230.34	231.55	231.12	231.39	226.61	225.97	225.86	225.78	225.88	231.55
Min	225.65	225.69	225.81	225.81	226.10	226.09	226.27	225.92	225.85	225.77	225.70	225.70	225.65

Annual Max Momentary Gage Height 232.10 M (MSL), at 10.00 Hours, on Aug 2, 1992
Zero Gage at Bottom Elevation 225.00 M (MSL), River Bed 225.54 M (MSL)
Left Bank Elevation 236.87 M (MSL)
Right Bank Elevation 238.12 M (MSL), Drainage Area 945 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.88	0.70	1.16	90.75	7.73	94.75	7.19	1.16	0.76	0.28	0.00	
2	0.04	0.64	0.46	1.00	98.75	10.10	49.50	5.75	1.08	0.76	0.28	0.00	
3	0.00	0.20	0.52	0.82	44.90	10.20	33.30	4.85	1.00	0.76	0.28	0.00	
4	0.00	0.16	1.56	0.76	25.80	5.84	22.20	4.49	1.00	0.70	0.28	0.00	
5	0.04	0.08	0.76	0.64	42.10	4.49	23.10	4.13	0.94	0.70	0.32	0.00	
6	0.04	0.08	5.39	0.64	46.30	4.31	25.65	3.68	0.94	0.70	0.24	0.00	
7	0.04	0.04	9.70	0.58	21.90	3.95	16.20	3.50	0.88	0.58	0.20	0.00	
8	0.00	0.16	6.92	0.52	12.90	3.95	11.50	3.14	0.88	0.58	0.20	0.16	
9	0.04	0.08	21.90	0.46	9.00	5.21	10.10	3.05	0.88	0.52	0.20	0.04	
10	0.04	0.00	19.35	0.64	7.46	4.49	23.85	2.87	0.88	0.52	0.20	0.00	
11	0.00	0.00	16.95	0.82	8.00	3.05	25.05	2.69	0.82	0.52	0.20	0.04	
12	0.00	0.00	8.50	6.29	12.90	2.52	14.60	2.44	0.82	0.52	0.20	0.20	
13	0.00	0.00	4.13	2.69	27.45	2.69	10.00	2.36	0.76	0.46	0.20	0.24	
14	0.04	0.04	3.23	3.32	15.00	5.48	8.20	2.20	0.76	0.46	0.20	0.20	
15	0.00	0.16	4.76	12.10	7.91	8.00	7.01	2.20	0.76	0.46	0.20	0.20	
16	0.00	0.82	5.03	9.10	5.93	6.56	6.74	2.04	0.70	0.40	0.20	0.20	
17	0.00	1.40	4.04	7.46	5.21	9.70	6.92	2.04	0.70	0.40	0.20	0.12	
18	0.00	0.32	2.96	6.74	4.40	12.00	7.37	1.96	0.70	0.40	0.12	0.08	
19	0.00	0.20	3.14	6.20	3.86	12.30	6.56	1.88	0.70	0.36	0.12	0.08	
20	0.00	0.12	23.70	4.58	3.41	9.30	5.93	1.88	1.56	0.36	0.08	0.08	
21	0.00	0.04	28.95	5.75	3.05	9.70	5.39	1.72	0.94	0.36	0.08	0.08	
22	0.00	0.04	38.70	3.68	2.78	17.25	5.03	1.56	0.76	0.36	0.04	0.16	
23	0.00	0.00	9.70	2.52	2.60	85.25	4.76	1.56	0.70	0.40	0.04	0.76	
24	0.00	0.36	5.12	3.95	4.22	88.00	4.76	1.56	0.70	0.40	0.04	0.88	
25	0.00	0.76	3.50	7.19	6.74	31.50	4.40	1.40	0.82	0.36	0.00	0.52	
26	0.00	3.86	2.60	6.47	6.74	19.80	4.13	1.56	0.76	0.36	0.00	0.32	
27	0.00	1.32	2.12	9.30	6.56	15.45	4.13	1.40	0.82	0.36	0.00	0.24	
28	0.00	2.60	1.80	25.20	5.66	12.50	4.13	1.32	0.94	0.36	0.00	0.20	
29	0.00	3.32	1.48	14.60	5.75	18.60	4.22	1.24	0.88	0.32		0.12	
30	1.16	3.05	1.32	14.50	13.90	28.95	17.40	1.16	0.88	0.32		0.12	
31		1.32		68.50	13.70		12.30		0.82	0.28		0.12	
Total	1.48	22.05	238.99	228.18	565.63	458.87	479.18	78.82	26.94	14.80	4.40	5.16	2124.50 CMSDAY
Mean	0.05	0.71	7.97	7.36	18.25	15.30	15.46	2.63	0.87	0.48	0.16	0.17	5.82 CMS
Max	1.16	3.86	38.70	68.50	98.75	88.00	94.75	7.19	1.56	0.76	0.32	0.88	98.75 CMS
Min	0.00	0.00	0.46	0.46	2.60	2.52	4.13	1.16	0.70	0.28	0.00	0.00	0.00 CMS
Runoff	0.128	1.905	20.649	19.715	48.870	39.646	41.401	6.810	2.328	1.279	0.380	0.446	183.557 MCM

Momentary Peak 113.50 CMS, at 232.10 M (MSL), at 10.00 Hours, on Aug 2, 1992

Runoff Yield 6.16 Liters/Second/Square KM, Momentary Peak Yield 120.11 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

Chi River at Ban Nong O, Chaiyaphum (E.32A)

Location — Lat. 15-54-40 N., Long. 101-42-40 E., on left bank about 500 meters north of Ban Nong O, about 600 meters upstream from E.32 gaging station, Amphoe Ban Khwao, Chaiyaphum.

Drainage Area — 2,905 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +198.00 m. (M.S.L.)

Bench Mark — B.M.-H.D.

Location — On right bank at the automatic gage building.

Elevation — +210.804 m. (M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1966 to date.

Rating Operation

Period of Rating — 1968 to date.

Rated by Float — -

Rated by Current Meter — 1968 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 99 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

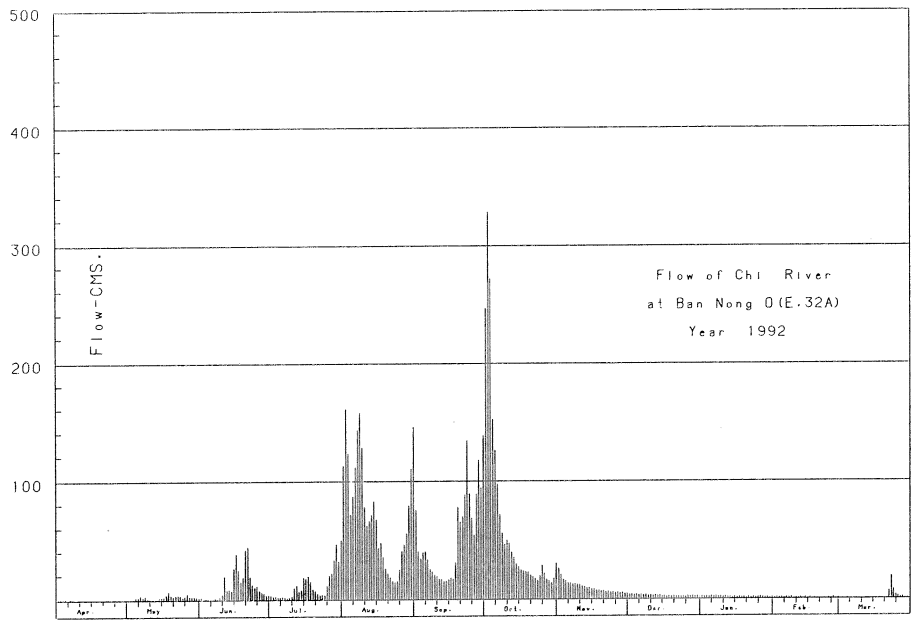
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	198.61	198.57	198.70	198.85	203.56	202.24	206.63	200.09	198.93	198.75	198.66	198.61	
2	198.61	198.57	198.64	198.81	205.11	200.78	207.71	199.80	198.92	198.74	198.66	198.62	
3	198.61	198.62	198.60	198.78	203.92	200.51	206.98	199.61	198.91	198.73	198.66	198.61	
4	198.60	198.69	198.58	198.76	202.08	200.74	204.87	199.53	198.90	198.74	198.67	198.60	
5	198.59	198.70	198.57	198.74	202.65	200.81	204.03	199.47	198.89	198.75	198.66	198.59	
6	198.59	198.84	198.57	198.72	203.54	200.44	203.05	199.43	198.88	198.76	198.66	198.58	
7	198.58	198.75	198.64	198.70	204.59	200.05	202.06	199.42	198.88	198.76	198.68	198.58	
8	198.57	198.79	198.64	198.69	205.02	199.92	201.45	199.40	198.88	198.75	198.67	198.58	
9	198.56	198.66	198.71	198.67	204.09	199.82	201.04	199.40	198.86	198.75	198.65	198.57	
10	198.56	198.61	198.97	198.84	202.34	199.73	201.21	199.37	198.85	198.73	198.64	198.56	
11	198.56	198.58	199.74	199.24	201.68	199.64	201.08	199.32	198.84	198.72	198.64	198.56	
12	198.56	198.56	199.17	199.38	201.87	199.60	200.79	199.28	198.84	198.71	198.64	198.56	
13	198.56	198.59	199.18	199.09	202.05	199.54	200.52	199.25	198.83	198.68	198.64	198.56	
14	198.56	198.73	199.14	199.18	202.50	199.52	200.28	199.23	198.82	198.68	198.63	198.56	
15	198.55	198.73	200.11	199.72	201.92	199.62	200.13	199.20	198.78	198.69	198.63	198.62	
16	198.55	198.73	200.72	199.63	200.92	199.65	200.02	199.18	198.77	198.69	198.64	198.62	
17	198.54	198.95	200.00	199.77	201.13	199.64	199.95	199.15	198.76	198.69	198.64	198.58	
18	198.54	199.08	199.54	199.50	200.54	200.31	199.95	199.12	198.76	198.69	198.63	198.58	
19	198.54	198.92	199.70	199.21	200.09	202.33	199.90	199.12	198.76	198.69	198.62	198.57	
20	198.55	198.75	200.87	199.11	199.87	201.81	199.80	199.10	198.76	198.69	198.61	198.56	
21	198.54	198.91	201.00	198.97	199.68	202.02	199.70	199.08	198.75	198.69	198.61	198.54	
22	198.54	198.92	199.75	198.92	199.55	202.70	199.63	199.07	198.74	198.68	198.61	199.06	
23	198.54	198.82	199.38	198.89	199.46	204.28	199.57	199.05	198.74	198.68	198.62	199.74	
24	198.53	198.75	199.30	198.91	199.55	202.76	199.78	199.04	198.74	198.68	198.64	199.19	
25	198.53	198.79	199.32	199.36	200.01	201.94	200.22	199.03	198.75	198.71	198.62	198.87	
26	198.54	198.97	199.16	199.76	200.79	201.37	199.84	199.01	198.77	198.71	198.63	198.73	
27	198.54	198.82	199.07	199.89	201.06	202.74	199.62	199.01	198.76	198.68	198.62	198.68	
28	198.55	198.76	198.98	200.45	201.44	203.72	199.53	199.00	198.75	198.68	198.61	198.65	
29	198.55	198.79	198.91	201.06	202.36	202.91	199.47	198.97	198.75	198.66		198.63	
30	198.56	198.71	198.88	200.36	203.50	204.42	199.63	198.95	198.75	198.66		198.58	
31		198.71		201.21	204.67		200.27		198.75	198.66		198.55	
Mean	198.56	198.75	199.28	199.33	201.99	201.19	201.25	199.26	198.81	198.71	198.64	198.67	
Max	198.61	199.08	201.00	201.21	205.11	204.42	207.71	200.09	198.93	198.76	198.68	199.74	207.71
Min	198.53	198.56	198.57	198.67	199.46	199.52	199.47	198.95	198.74	198.66	198.61	198.54	198.53

Annual Max Momentary Gage Height — 207.82 M (MSL), at 19.00 Hours, on Oct 2, 1992

Zero Gage at Bottom Elevation — 198.00 M (MSL), River Bed — 197.43 M (MSL)

Left Bank Elevation — 210.59 M (MSL)

Right Bank Elevation — 210.71 M (MSL), Drainage Area — 2905 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.10	0.70	2.00	3.50	113.34	76.64	247.10	26.80	4.45	2.50	1.60	1.10	
2	1.10	0.70	1.40	3.10	161.95	40.60	328.90	21.00	4.30	2.40	1.60	1.20	
3	1.10	1.20	1.00	2.80	123.78	35.20	271.60	17.20	4.15	2.30	1.60	1.10	
4	1.00	1.90	0.80	2.60	72.50	39.80	153.14	15.60	4.00	2.40	1.70	1.00	
5	0.90	2.00	0.70	2.40	87.45	41.20	127.00	14.40	3.90	2.50	1.60	0.90	
6	0.90	3.40	0.70	2.20	112.76	33.80	98.55	13.60	3.80	2.60	1.60	0.80	
7	0.80	2.50	1.40	2.00	144.18	26.00	72.00	13.40	3.80	2.60	1.80	0.80	
8	0.70	2.90	1.40	1.90	158.38	23.40	56.75	13.00	3.80	2.50	1.70	0.80	
9	0.60	1.60	2.10	1.70	128.80	21.40	46.50	13.00	3.60	2.50	1.50	0.70	
10	0.60	1.10	5.05	3.40	79.24	19.60	50.75	12.40	3.50	2.30	1.40	0.60	
11	0.60	0.80	19.80	9.80	62.50	17.80	47.50	11.40	3.40	2.20	1.40	0.60	
12	0.60	0.60	8.40	12.60	67.25	17.00	40.80	10.60	3.40	2.10	1.40	0.60	
13	0.60	0.90	8.60	6.85	71.75	15.80	35.40	10.00	3.30	1.80	1.40	0.60	
14	0.60	2.30	7.80	8.60	83.40	15.40	30.60	9.60	3.20	1.80	1.30	0.60	
15	0.50	2.30	27.20	19.40	68.50	17.40	27.60	9.00	2.80	1.90	1.30	1.20	
16	0.50	2.30	39.40	17.60	43.50	18.00	25.40	8.60	2.70	1.90	1.40	1.20	
17	0.40	4.75	25.00	20.40	48.75	17.80	24.00	8.00	2.60	1.90	1.40	0.80	
18	0.40	6.70	15.80	15.00	35.80	31.20	24.00	7.40	2.60	1.90	1.30	0.80	
19	0.40	4.30	19.00	9.20	26.80	78.98	23.00	7.40	2.60	1.90	1.20	0.70	
20	0.50	2.50	42.40	7.20	22.40	65.75	21.00	7.00	2.60	1.90	1.10	0.60	
21	0.40	4.15	45.50	5.05	18.60	71.00	19.00	6.70	2.50	1.90	1.10	0.40	
22	0.40	4.30	20.00	4.30	16.00	88.80	17.60	6.55	2.40	1.80	1.10	6.40	
23	0.40	3.20	12.60	3.90	14.20	134.50	16.40	6.25	2.40	1.80	1.20	19.80	
24	0.30	2.50	11.00	4.15	16.00	90.42	20.60	6.10	2.40	1.80	1.40	8.80	
25	0.30	2.90	11.40	12.20	25.20	69.00	29.40	5.95	2.50	2.10	1.20	3.70	
26	0.40	5.05	8.20	20.20	40.80	54.75	21.80	5.65	2.70	2.10	1.30	2.30	
27	0.40	3.20	6.55	22.80	47.00	89.88	17.40	5.65	2.60	1.80	1.20	1.80	
28	0.50	2.60	5.20	34.00	56.50	117.98	15.60	5.50	2.50	1.80	1.10	1.50	
29	0.50	2.90	4.15	47.00	79.76	94.58	14.40	5.05	2.50	1.60		1.30	
30	0.60	2.10	3.80	32.20	111.60	138.82	17.60	4.75	2.50	1.60		0.80	
31		2.10		50.75	146.74		30.40		2.50	1.60		0.50	
Total	18.10	80.45	358.35	388.80	2285.43	1602.50	1971.79	307.55	96.00	63.80	38.90	64.00	7275.67 CMSDAY
Mean	0.60	2.60	11.95	12.54	73.72	53.42	63.61	10.25	3.10	2.06	1.39	2.06	19.93 CMS
Max	1.10	6.70	45.50	50.75	161.95	138.82	328.90	26.80	4.45	2.60	1.80	19.80	328.90 CMS
Min	0.30	0.60	0.70	1.70	14.20	15.40	14.40	4.75	2.40	1.60	1.10	0.40	0.30 CMS
Runoff	1.564	6.951	30.961	33.592	197.461	138.456	170.363	26.572	8.294	5.512	3.361	5.530	628.618 MCM

Momentary Peak 338.80 CMS, at 207.82 M (MSL), at 19.00 Hours, on Oct 2, 1992

Runoff Yield 6.86 Liters/Second/Square KM, Momentary Peak Yield 116.63 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

Huai Prong Khun Phet at Ban Thap Nai, Chaiyaphum (E.35A)

Location — Lat. 15-44-27 N., Long. 101-38-07 E., on left bank about 6 kilometers upstream from E.35 station at Ban Thap Nai, King Amphoe Nong Bua Raheo, Chaiyaphum.

Drainage Area — 422 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +211.00 m. (M.S.L.)

Bench Mark — B.M.-H.D.

Location — Near the automatic gage building.

Elevation — +216.534 m. (M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1973 to date.

Rating Operation

Period of Rating — 1973 - 1981, 1985 to date.

Rated by Float — -

Rated by Current Meter — 1973 - 1981, 1985 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 89 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

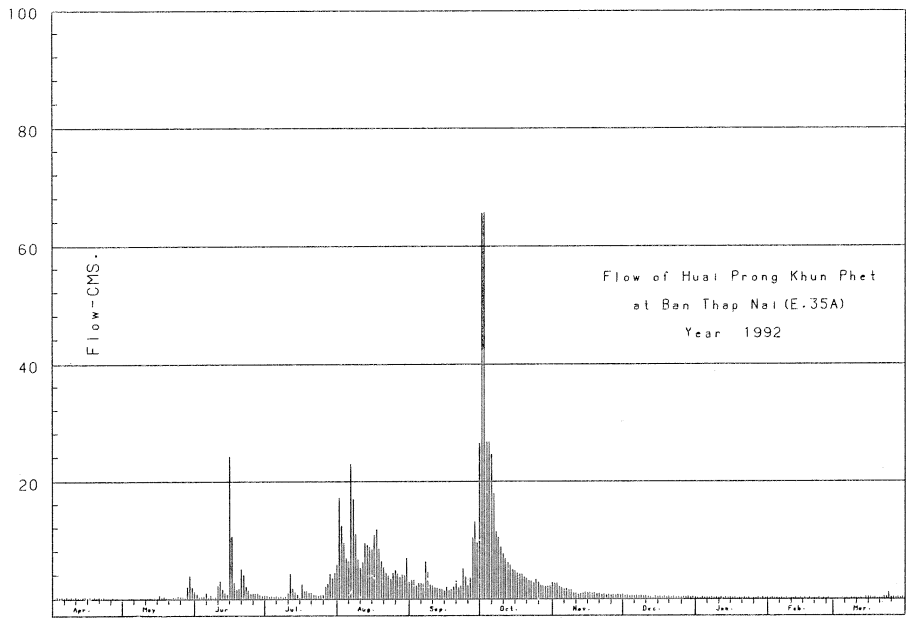
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	212.22	212.08	212.50	212.37	214.70	213.07	217.88	212.98	212.43	212.28	212.21	212.16	
2	212.22	212.08	212.22	212.35	214.22	213.05	217.88	212.96	212.41	212.28	212.21	212.16	
3	212.22	212.10	212.33	212.33	213.88	212.91	215.51	212.88	212.40	212.28	212.21	212.16	
4	212.18	212.10	212.31	212.32	213.60	212.96	215.50	212.78	212.40	212.27	212.20	212.16	
5	212.18	212.10	212.55	212.32	213.52	212.98	215.35	212.76	212.40	212.27	212.19	212.17	
6	212.18	212.07	212.20	212.31	215.20	212.94	214.78	212.74	212.40	212.26	212.19	212.17	
7	212.18	212.04	212.39	212.30	214.69	213.53	214.11	212.72	212.40	212.25	212.19	212.16	
8	212.18	212.06	212.17	212.29	214.06	213.27	213.99	212.68	212.40	212.26	212.18	212.16	
9	212.20	212.07	212.23	212.28	213.56	212.94	213.82	212.57	212.39	212.24	212.18	212.16	
10	212.19	212.09	212.91	212.55	213.39	212.88	213.69	212.51	212.37	212.24	212.18	212.18	
11	212.19	212.10	213.02	213.23	213.52	212.83	213.58	212.50	212.36	212.24	212.18	212.17	
12	212.19	212.09	212.74	212.78	213.87	212.77	213.51	212.50	212.35	212.24	212.18	212.16	
13	212.19	212.05	212.51	212.56	213.86	212.77	213.44	212.55	212.35	212.24	212.18	212.16	
14	212.19	212.22	212.47	212.47	213.80	212.71	213.36	212.56	212.35	212.24	212.18	212.34	
15	212.19	212.32	215.32	212.01	213.77	212.67	213.31	212.56	212.34	212.24	212.18	212.33	
16	212.18	212.40	214.02	212.93	214.03	212.82	213.25	212.54	212.33	212.24	212.18	212.24	
17	212.18	212.27	212.98	212.65	214.15	212.69	213.24	212.54	212.32	212.24	212.19	212.23	
18	212.18	212.25	212.73	212.62	213.77	212.70	213.22	212.53	212.32	212.24	212.19	212.21	
19	212.18	212.21	212.74	212.56	213.54	212.83	213.16	212.51	212.32	212.24	212.20	212.18	
20	212.18	212.20	213.35	212.52	213.39	213.05	213.10	212.49	212.32	212.24	212.19	212.17	
21	212.17	212.19	213.22	212.46	213.27	212.83	213.06	212.48	212.31	212.24	212.18	212.17	
22	212.16	212.20	212.88	212.41	213.17	212.87	213.02	212.47	212.31	212.22	212.18	212.33	
23	212.14	212.23	212.66	212.41	213.10	213.36	212.99	212.46	212.30	212.21	212.17	212.36	
24	212.09	212.30	212.52	212.41	213.24	213.16	213.07	212.45	212.28	212.21	212.16	212.56	
25	212.08	212.34	212.53	212.45	213.34	213.07	213.01	212.45	212.28	212.21	212.15	212.29	
26	212.08	212.24	212.49	212.86	213.23	213.13	212.92	212.45	212.29	212.21	212.15	212.26	
27	212.08	212.19	212.53	212.94	213.15	213.99	212.88	212.45	212.32	212.21	212.15	212.26	
28	212.08	212.82	212.41	213.22	213.20	214.28	212.88	212.45	212.32	212.21	212.15	212.26	
29	212.08	213.17	212.40	213.12	213.20	213.88	212.85	212.45	212.31	212.21		212.26	
30	212.08	212.83	212.38	213.27	213.59	215.48	212.90	212.45	212.28	212.21		212.26	
31		212.58		213.45	212.99		212.98		212.28	212.21		212.26	
Mean	212.16	212.26	212.72	212.60	213.68	213.15	213.81	212.58	212.34	212.24	212.18	212.23	
Max	212.22	213.17	215.32	213.45	215.20	215.48	217.88	212.98	212.43	212.28	212.21	212.56	217.88
Min	212.08	212.04	212.17	212.01	212.99	212.67	212.85	212.45	212.28	212.21	212.15	212.16	212.01

Annual Max Momentary Gage Height — 218.80 M (MSL), at 23.00 Hours, on Oct 1, 1992

Zero Gage at Bottom Elevation — 211.00 M (MSL), River Bed — 211.15 M (MSL)

Left Bank Elevation — 219.30 M (MSL)

Right Bank Elevation — 219.09 M (MSL), Drainage Area — 422 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.18	0.93	0.54	17.20	3.32	65.72	2.78	0.70	0.38	0.31	0.26	
2	0.32	0.18	0.32	0.50	12.58	3.20	65.72	2.66	0.63	0.38	0.31	0.26	
3	0.32	0.20	0.46	0.46	9.52	2.36	26.84	2.23	0.60	0.38	0.31	0.26	
4	0.28	0.20	0.42	0.44	7.00	2.66	26.70	1.88	0.60	0.37	0.30	0.26	
5	0.28	0.20	1.10	0.44	6.36	2.78	24.75	1.81	0.60	0.37	0.29	0.27	
6	0.28	0.17	0.30	0.42	22.90	2.54	18.08	1.74	0.60	0.36	0.29	0.27	
7	0.28	0.14	0.58	0.40	17.09	6.44	11.59	1.67	0.60	0.35	0.29	0.26	
8	0.28	0.16	0.27	0.39	11.14	4.52	10.51	1.53	0.60	0.36	0.28	0.26	
9	0.30	0.17	0.33	0.38	6.68	2.54	8.98	1.17	0.58	0.34	0.28	0.26	
10	0.29	0.19	2.36	1.10	5.33	2.23	7.81	0.97	0.54	0.34	0.28	0.28	
11	0.29	0.20	3.02	4.28	6.36	2.06	6.84	0.93	0.52	0.34	0.28	0.27	
12	0.29	0.19	1.74	1.88	9.43	1.85	6.28	0.93	0.50	0.34	0.28	0.26	
13	0.29	0.15	0.97	1.13	9.34	1.85	5.72	1.10	0.50	0.34	0.28	0.26	
14	0.29	0.32	0.83	0.83	8.80	1.64	5.12	1.13	0.50	0.34	0.28	0.48	
15	0.29	0.44	24.36	0.11	8.53	1.50	4.77	1.13	0.48	0.34	0.28	0.46	
16	0.28	0.60	10.78	2.48	10.87	2.02	4.40	1.07	0.46	0.34	0.28	0.34	
17	0.28	0.37	2.78	1.43	11.95	1.57	4.34	1.07	0.44	0.34	0.29	0.33	
18	0.28	0.35	1.70	1.33	8.53	1.60	4.22	1.03	0.44	0.34	0.29	0.31	
19	0.28	0.31	1.74	1.13	6.52	2.06	3.86	0.97	0.44	0.34	0.30	0.28	
20	0.28	0.30	5.05	1.00	5.33	3.20	3.50	0.90	0.44	0.34	0.29	0.27	
21	0.27	0.29	4.22	0.80	4.52	2.06	3.26	0.87	0.42	0.34	0.28	0.27	
22	0.26	0.30	2.23	0.63	3.92	2.20	3.02	0.83	0.42	0.32	0.28	0.46	
23	0.24	0.33	1.47	0.63	3.50	5.12	2.84	0.80	0.40	0.31	0.27	0.52	
24	0.19	0.40	1.00	0.63	4.34	3.86	3.32	0.77	0.38	0.31	0.26	1.13	
25	0.18	0.48	1.03	0.77	4.98	3.32	2.96	0.77	0.38	0.31	0.25	0.39	
26	0.18	0.34	0.90	2.16	4.28	3.68	2.42	0.77	0.39	0.31	0.25	0.36	
27	0.18	0.29	1.03	2.54	3.80	10.51	2.23	0.77	0.44	0.31	0.25	0.36	
28	0.18	2.02	0.63	4.22	4.10	13.12	2.23	0.77	0.44	0.31	0.25	0.36	
29	0.18	3.92	0.60	3.62	4.10	9.52	2.13	0.77	0.42	0.31		0.36	
30	0.18	2.06	0.56	4.52	6.92	26.44	2.30	0.77	0.38	0.31		0.36	
31		1.20		5.80	2.84		2.78		0.38	0.31		0.36	
Total	7.84	16.65	73.71	46.99	248.76	131.77	345.24	36.59	15.22	10.48	7.88	10.83	951.96 CMSDAY
Mean	0.26	0.54	2.46	1.52	8.02	4.39	11.14	1.22	0.49	0.34	0.28	0.35	2.61 CMS
Max	0.32	3.92	24.36	5.80	22.90	26.44	65.72	2.78	0.70	0.38	0.31	1.13	65.72 CMS
Min	0.18	0.14	0.27	0.11	2.84	1.50	2.13	0.77	0.38	0.31	0.25	0.26	0.11 CMS
Runoff	0.677	1.439	6.369	4.060	21.493	11.385	29.829	3.161	1.315	0.905	0.681	0.936	82.249 MCM

Momentary Peak 83.40 CMS, at 218.80 M (MSL), at 23.00 Hours, on Oct 1, 1992

Runoff Yield 6.18 Liters/Second/Square KM, Momentary Peak Yield 197.63 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

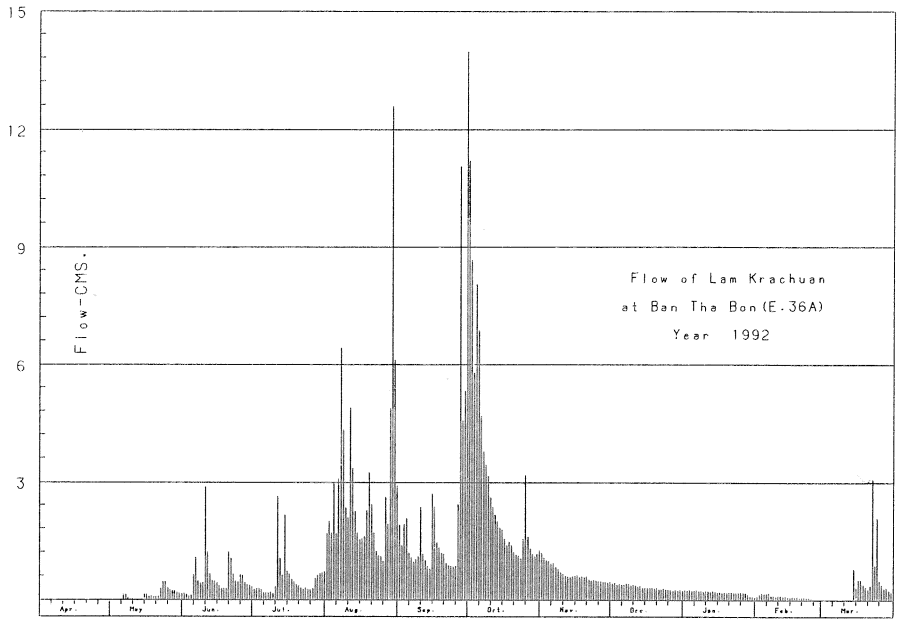
Lam Krachuan at Ban Tha Bon, Chaiyaphum (E.36A)

Location	Lat. 15-43-24 N., Long. 101-40-04 E., on right bank about 2 kilometers upstream from E.36 station at Ban Tha Bon, King Amphoe Nong Bua Raheo, Chaiyaphum.
Drainage Area	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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 54 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	212.93	212.75	213.14	213.21	213.56	213.59	214.44	213.49	213.27	213.20	213.08	213.00	
2	212.93	212.73	213.13	213.21	213.60	213.52	214.23	213.46	213.27	213.20	213.13	212.98	
3	212.91	212.73	213.09	213.22	213.56	213.59	213.98	213.45	213.26	213.20	213.15	212.97	
4	212.89	212.73	213.12	213.20	213.71	213.61	214.18	213.44	213.26	213.20	213.15	212.96	
5	212.89	212.92	213.35	213.16	213.56	213.49	214.08	213.43	213.26	213.20	213.15	212.96	
6	212.88	213.14	213.46	213.15	213.72	213.46	213.88	213.43	213.25	213.19	213.15	212.96	
7	212.87	213.13	213.29	213.16	214.04	213.44	213.80	213.41	213.27	213.19	213.11	212.96	
8	212.85	213.04	213.27	213.16	213.85	213.45	213.76	213.39	213.26	213.18	213.10	212.94	
9	212.85	213.03	213.27	213.15	213.64	213.47	213.73	213.37	213.25	213.18	213.09	212.93	
10	212.84	213.03	213.70	213.24	213.61	213.64	213.67	213.35	213.25	213.18	213.10	212.92	
11	212.82	213.02	213.49	213.67	213.90	213.48	213.64	213.34	213.25	213.18	213.10	212.91	
12	212.82	213.02	213.36	213.46	213.75	213.45	213.62	213.33	213.24	213.18	213.10	212.91	
13	212.80	213.02	213.30	213.34	213.63	213.41	213.60	213.33	213.24	213.18	213.09	212.93	
14	212.79	213.02	213.29	213.62	213.56	213.40	213.58	213.33	213.23	213.18	213.08	213.40	
15	212.79	213.13	213.27	213.38	213.54	213.68	213.57	213.34	213.22	213.17	213.07	213.23	
16	212.78	213.12	213.24	213.35	213.54	213.64	213.54	213.34	213.22	213.16	213.07	213.30	
17	212.77	213.09	213.22	213.31	213.55	213.53	213.52	213.33	213.23	213.16	213.07	213.30	
18	212.77	213.09	213.21	213.28	213.63	213.51	213.53	213.33	213.22	213.16	213.07	213.26	
19	212.76	213.08	213.22	213.26	213.74	213.49	213.52	213.33	213.22	213.16	213.06	213.23	
20	212.76	213.08	213.49	213.24	213.65	213.48	213.49	213.33	213.22	213.16	213.06	213.21	
21	212.77	213.10	213.46	213.22	213.56	213.43	213.48	213.31	213.21	213.16	213.06	213.24	
22	212.77	213.22	213.35	213.21	213.50	213.42	213.47	213.30	213.21	213.16	213.06	213.72	
23	212.77	213.28	213.29	213.22	213.47	213.41	213.46	213.30	213.21	213.15	213.06	213.42	
24	212.77	213.28	213.29	213.21	213.47	213.41	213.54	213.30	213.21	213.16	213.03	213.61	
25	212.76	213.23	213.35	213.20	213.44	213.41	213.73	213.29	213.20	213.16	213.02	213.30	
26	212.76	213.20	213.34	213.22	213.67	213.65	213.55	213.29	213.20	213.17	213.01	213.25	
27	212.76	213.19	213.28	213.32	213.59	214.43	213.51	213.29	213.20	213.16	213.01	213.22	
28	212.75	213.18	213.25	213.34	213.90	213.87	213.48	213.28	213.20	213.12	213.00	213.22	
29	212.75	213.17	213.25	213.36	214.55	213.94	213.47	213.28	213.20	213.10		213.20	
30	212.75	213.14	213.23	213.36	214.01	214.66	213.48	213.28	213.20	213.08		213.18	
31		213.15		213.37	213.70		213.50		213.20	213.08		213.17	
Mean	212.81	213.07	213.30	213.28	213.68	213.60	213.68	213.35	213.23	213.16	213.08	213.15	
Max	212.93	213.28	213.70	213.67	214.55	214.66	214.44	213.49	213.27	213.20	213.15	213.72	214.66
Min	212.75	212.73	213.09	213.15	213.44	213.40	213.46	213.28	213.20	213.08	213.00	212.91	212.73

Annual Max Momentary Gage Height 215.51 M (MSL), at 11.00 Hours, on Sep 30, 1992
Zero Gage at Bottom Elevation 211.25 M (MSL), River Bed 212.71 M (MSL)
Left Bank Elevation 219.95 M (MSL)
Right Bank Elevation 219.75 M (MSL), Drainage Area 290 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.16	0.28	1.70	1.92	11.20	1.21	0.43	0.25	0.08	0.00	
2	0.00	0.00	0.15	0.28	2.00	1.40	8.66	1.07	0.43	0.25	0.15	0.00	
3	0.00	0.00	0.09	0.30	1.70	1.92	5.78	1.02	0.40	0.25	0.17	0.00	
4	0.00	0.00	0.13	0.25	2.99	2.09	8.06	0.98	0.40	0.25	0.17	0.00	
5	0.00	0.00	0.65	0.19	1.70	1.21	6.88	0.93	0.40	0.25	0.17	0.00	
6	0.00	0.16	1.07	0.17	3.08	1.07	4.68	0.93	0.38	0.24	0.17	0.00	
7	0.00	0.15	0.47	0.19	6.44	0.98	3.80	0.85	0.43	0.24	0.11	0.00	
8	0.00	0.04	0.43	0.19	4.35	1.02	3.44	0.77	0.40	0.22	0.10	0.00	
9	0.00	0.03	0.43	0.17	2.36	1.12	3.17	0.71	0.38	0.22	0.09	0.00	
10	0.00	0.03	2.90	0.35	2.09	2.36	2.63	0.65	0.38	0.22	0.10	0.00	
11	0.00	0.02	1.21	2.63	4.90	1.16	2.36	0.62	0.38	0.22	0.10	0.00	
12	0.00	0.02	0.68	1.07	3.35	1.02	2.18	0.59	0.35	0.22	0.10	0.00	
13	0.00	0.02	0.50	0.62	2.27	0.85	2.00	0.59	0.35	0.22	0.09	0.00	
14	0.00	0.02	0.47	2.18	1.70	0.80	1.85	0.59	0.32	0.22	0.08	0.80	
15	0.00	0.15	0.43	0.74	1.55	2.72	1.78	0.62	0.30	0.20	0.07	0.32	
16	0.00	0.13	0.35	0.65	1.55	2.36	1.55	0.62	0.30	0.19	0.07	0.50	
17	0.00	0.09	0.30	0.53	1.63	1.47	1.40	0.59	0.32	0.19	0.07	0.50	
18	0.00	0.09	0.28	0.45	2.27	1.32	1.47	0.59	0.30	0.19	0.07	0.40	
19	0.00	0.08	0.30	0.40	3.26	1.21	1.40	0.59	0.30	0.19	0.06	0.32	
20	0.00	0.08	1.21	0.35	2.45	1.16	1.21	0.59	0.30	0.19	0.06	0.28	
21	0.00	0.10	1.07	0.30	1.70	0.93	1.16	0.53	0.28	0.19	0.06	0.35	
22	0.00	0.30	0.65	0.28	1.25	0.89	1.12	0.50	0.28	0.19	0.06	3.08	
23	0.00	0.45	0.47	0.30	1.12	0.85	1.07	0.50	0.28	0.17	0.06	0.89	
24	0.00	0.45	0.47	0.28	1.12	0.85	1.55	0.50	0.28	0.19	0.03	2.09	
25	0.00	0.32	0.65	0.25	0.98	0.85	3.17	0.47	0.25	0.19	0.02	0.50	
26	0.00	0.25	0.62	0.30	2.63	2.45	1.63	0.47	0.25	0.20	0.01	0.38	
27	0.00	0.24	0.45	0.56	1.92	11.07	1.32	0.47	0.25	0.19	0.01	0.30	
28	0.00	0.22	0.38	0.62	4.90	4.57	1.16	0.45	0.25	0.13	0.00	0.30	
29	0.00	0.20	0.38	0.68	12.57	5.34	1.12	0.45	0.25	0.10		0.25	
30	0.00	0.16	0.32	0.68	6.11	13.98	1.16	0.45	0.25	0.08		0.22	
31		0.17		0.71	2.90		1.25		0.25	0.08		0.20	
Total	0.00	3.97	17.67	16.95	90.54	70.94	91.21	19.90	10.12	6.13	2.33	11.68	341.44 CMSDAY
Mean	0.00	0.13	0.59	0.55	2.92	2.36	2.94	0.66	0.33	0.20	0.08	0.38	0.94 CMS
Max	0.00	0.45	2.90	2.63	12.57	13.98	11.20	1.21	0.43	0.25	0.17	3.08	13.98 CMS
Min	0.00	0.00	0.09	0.17	0.98	0.80	1.07	0.45	0.25	0.08	0.00	0.00	0.00 CMS
Runoff	0.000	0.343	1.527	1.464	7.823	6.129	7.881	1.719	0.874	0.530	0.201	1.009	29.500 MCM

Momentary Peak 25.75 CMS, at 215.51 M (MSL), at 11.00 Hours, on Sep 30, 1992

Runoff Yield 3.23 Liters/Second/Square KM, Momentary Peak Yield 88.79 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

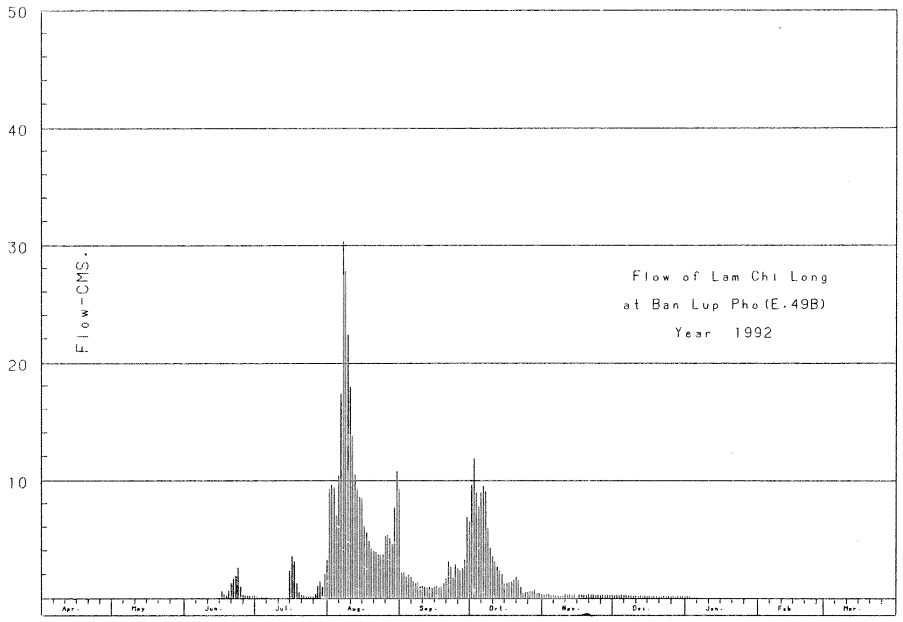
Lam Chi Long at Ban Lup Pho, Chaiyaphum (E.49B)

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	+196.182 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank upstream side at the abutment of the bridge.
Elevation	+200.251 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	196.42	196.42	196.53	197.03	197.78	197.30	197.80	197.10	197.08	197.04	196.18	196.18	
2	196.42	196.42	196.53	197.01	197.80	197.30	197.94	197.10	197.08	197.04	196.18	196.18	
3	196.42	196.42	196.53	197.01	197.79	197.27	197.76	197.11	197.08	197.03	196.18	196.18	
4	196.42	196.42	196.53	197.01	197.64	197.28	197.69	197.05	197.08	197.02	196.18	196.18	
5	196.42	196.42	196.53	197.02	197.85	197.27	197.76	197.08	197.09	197.00	196.18	196.18	
6	196.42	196.42	196.53	196.99	198.22	197.23	197.80	197.05	197.08	197.00	196.18	196.18	
7	196.42	196.42	196.53	196.94	198.80	197.22	197.77	197.06	197.07	196.99	196.18	196.18	
8	196.42	196.42	196.53	196.88	198.70	197.22	197.57	197.04	197.07	196.99	196.18	196.18	
9	196.42	196.42	196.53	196.82	198.47	197.19	197.46	197.06	197.06	196.98	196.18	196.18	
10	196.42	196.42	196.53	196.79	198.25	197.19	197.41	197.10	197.05	196.97	196.18	196.18	
11	196.42	196.42	196.53	196.72	198.04	197.18	197.37	197.10	197.05	196.96	196.18	196.18	
12	196.42	196.42	196.53	196.71	197.86	197.18	197.34	197.09	197.05	196.96	196.18	196.18	
13	196.42	196.42	196.53	196.70	197.78	197.18	197.31	197.08	197.05	196.94	196.18	196.18	
14	196.42	196.42	196.53	196.77	197.74	197.18	197.29	197.10	197.06	196.93	196.18	196.18	
15	196.42	196.42	196.88	197.31	197.73	197.19	197.21	197.09	197.05	196.92	196.18	196.18	
16	196.42	196.42	197.14	197.41	197.58	197.19	197.22	197.09	197.05	196.91	196.18	196.18	
17	196.42	196.42	197.09	197.37	197.55	197.18	197.22	197.10	197.04	196.90	196.18	196.18	
18	196.42	196.42	197.08	197.22	197.50	197.18	197.23	197.08	197.05	196.89	196.18	196.18	
19	196.42	196.42	197.14	197.12	197.45	197.22	197.24	197.08	197.05	196.88	196.18	196.18	
20	196.42	196.42	197.22	197.09	197.44	197.25	197.27	197.10	197.04	196.87	196.18	196.18	
21	196.42	196.42	197.25	197.05	197.43	197.37	197.24	197.10	197.03	196.86	196.18	197.63	
22	196.42	196.42	197.28	197.04	197.42	197.34	197.19	197.10	197.04	196.18	196.18	197.48	
23	196.42	196.42	197.33	197.02	197.41	197.26	197.11	197.08	197.04	196.18	196.18	197.33	
24	196.42	196.42	197.19	197.02	197.42	197.35	197.13	197.08	197.04	196.18	196.18	197.19	
25	196.42	196.42	197.10	197.03	197.53	197.33	197.13	197.08	197.04	196.18	196.18	197.08	
26	196.42	196.42	197.05	197.11	197.53	197.31	197.13	197.08	197.03	196.18	196.18	197.03	
27	196.42	196.42	197.07	197.19	197.51	197.33	197.14	197.08	197.03	196.18	196.18	197.02	
28	196.42	196.42	197.04	197.23	197.48	197.38	197.15	197.08	197.04	196.18	196.18	197.03	
29	196.42	196.42	197.06	197.19	197.68	197.63	197.12	197.08	197.04	196.18		197.03	
30	196.42	196.42	197.06	197.29	197.88	197.61	197.11	197.08	197.04	196.18		197.02	
31		196.42		197.38	197.78		197.10		197.04	196.18		197.02	
Mean	196.42	196.42	196.85	197.05	197.78	197.28	197.36	197.08	197.05	196.71	196.18	196.53	
Max	196.42	196.42	197.33	197.41	198.80	197.63	197.94	197.11	197.09	197.04	196.18	197.63	198.80
Min	196.42	196.42	196.53	196.70	197.41	197.18	197.10	197.04	197.03	196.18	196.18	196.18	196.18

Annual Max Momentary Gage Height 198.83 M (MSL), at 15.00 Hours, on Aug 7, 1992
Zero Gage at Bottom Elevation 196.18 M (MSL), River Bed 196.61 M (MSL)
Left Bank Elevation 199.36 M (MSL)
Right Bank Elevation 199.38 M (MSL), Drainage Area 331 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.17	9.28	2.20	9.60	0.35	0.30	0.20	0.00	0.00	
2	0.00	0.00	0.00	0.12	9.60	2.20	11.92	0.35	0.30	0.20	0.00	0.00	
3	0.00	0.00	0.00	0.12	9.44	1.87	8.96	0.42	0.30	0.17	0.00	0.00	
4	0.00	0.00	0.00	0.12	7.04	1.98	7.84	0.23	0.30	0.15	0.00	0.00	
5	0.00	0.00	0.00	0.15	10.40	1.87	8.96	0.30	0.32	0.10	0.00	0.00	
6	0.00	0.00	0.00	0.08	17.40	1.43	9.60	0.23	0.30	0.10	0.00	0.00	
7	0.00	0.00	0.00	0.00	30.40	1.32	9.12	0.25	0.28	0.08	0.00	0.00	
8	0.00	0.00	0.00	0.00	27.80	1.32	5.95	0.20	0.28	0.08	0.00	0.00	
9	0.00	0.00	0.00	0.00	22.47	1.03	4.34	0.25	0.25	0.06	0.00	0.00	
10	0.00	0.00	0.00	0.00	18.00	1.03	3.64	0.35	0.23	0.04	0.00	0.00	
11	0.00	0.00	0.00	0.00	13.80	0.95	3.11	0.35	0.23	0.02	0.00	0.00	
12	0.00	0.00	0.00	0.00	10.56	0.95	2.72	0.32	0.23	0.02	0.00	0.00	
13	0.00	0.00	0.00	0.00	9.28	0.95	2.33	0.30	0.23	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	8.64	0.95	2.09	0.35	0.25	0.00	0.00	0.00	
15	0.00	0.00	0.00	2.33	8.48	1.03	1.21	0.32	0.23	0.00	0.00	0.00	
16	0.00	0.00	0.65	3.64	6.10	1.03	1.32	0.32	0.23	0.00	0.00	0.00	
17	0.00	0.00	0.32	3.11	5.65	0.95	1.32	0.35	0.20	0.00	0.00	0.00	
18	0.00	0.00	0.30	1.32	4.90	0.95	1.43	0.30	0.23	0.00	0.00	0.00	
19	0.00	0.00	0.65	0.50	4.20	1.32	1.54	0.30	0.23	0.00	0.00	0.00	
20	0.00	0.00	1.32	0.32	4.06	1.65	1.87	0.35	0.20	0.00	0.00	0.00	
21	0.00	0.00	1.65	0.23	3.92	3.11	1.54	0.35	0.17	0.00	0.00	0.00	
22	0.00	0.00	1.98	0.20	3.78	2.72	1.03	0.35	0.20	0.00	0.00	0.00	
23	0.00	0.00	2.59	0.15	3.64	1.76	0.42	0.30	0.20	0.00	0.00	0.00	
24	0.00	0.00	1.03	0.15	3.78	2.85	0.58	0.30	0.20	0.00	0.00	0.00	
25	0.00	0.00	0.35	0.17	5.35	2.59	0.58	0.30	0.20	0.00	0.00	0.00	
26	0.00	0.00	0.23	0.42	5.35	2.33	0.58	0.30	0.17	0.00	0.00	0.00	
27	0.00	0.00	0.28	1.03	5.05	2.59	0.65	0.30	0.17	0.00	0.00	0.00	
28	0.00	0.00	0.20	1.43	4.62	3.24	0.72	0.30	0.20	0.00	0.00	0.00	
29	0.00	0.00	0.25	1.03	7.68	6.88	0.50	0.30	0.20	0.00		0.00	
30	0.00	0.00	0.25	2.09	10.88	6.56	0.42	0.30	0.20	0.00		0.00	
31		0.00		3.24	9.28		0.35		0.20	0.00		0.00	
Total	0.00	0.00	12.05	22.12	300.83	61.61	106.24	9.29	7.23	1.22	0.00	0.00	520.59 CMSDAY
Mean	0.00	0.00	0.40	0.71	9.70	2.05	3.43	0.31	0.23	0.04	0.00	0.00	1.43 CMS
Max	0.00	0.00	2.59	3.64	30.40	6.88	11.92	0.42	0.32	0.20	0.00	0.00	30.40 CMS
Min	0.00	0.00	0.00	0.00	3.64	0.95	0.35	0.20	0.17	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	1.041	1.911	25.992	5.323	9.179	0.803	0.625	0.105	0.000	0.000	44.979 MCM

Momentary Peak 31.18 CMS, at 198.83 M (MSL), at 15.00 Hours, on Aug 7, 1992

Runoff Yield 4.31 Liters/Second/Square KM, Momentary Peak Yield 94.20 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

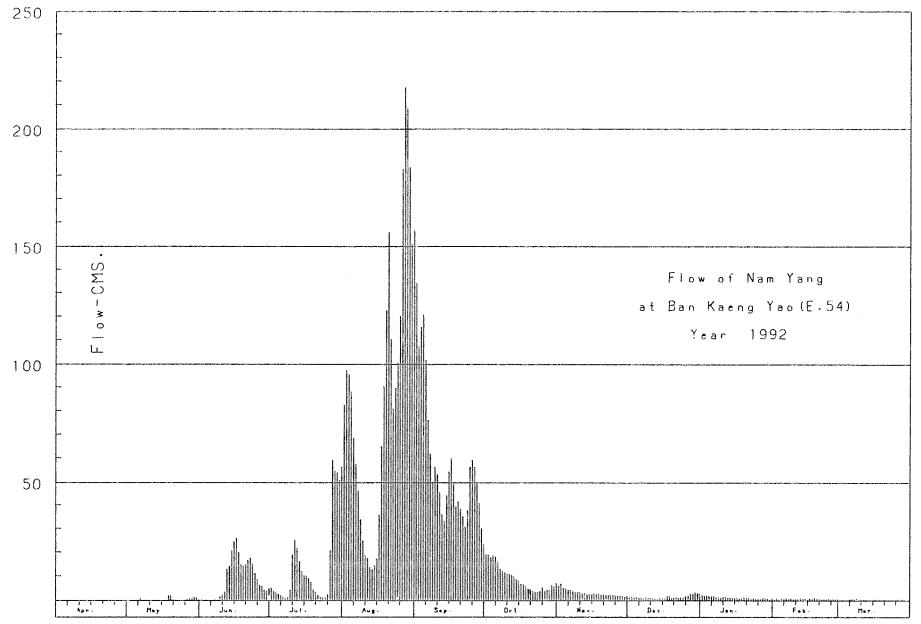
Nam Yang at Ban Kaeng Yao, Kalasin (E.54)

Location	Lat. 16°-26'-29" N., Long. 104°-02'-07" E., on left bank at Ban Kaeng Yao about 2 kilometers downstream from proposed of USBR Damsite, Amphoe Kuchinarai, Kalasin.
Drainage Area	1,511 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at abutment of the bridge.
Elevation	+11.648 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1969 - 1977, 1983 to date.
Rated by Float	-
Rated by Current Meter	1969 - 1977, 1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 103 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.39	0.51	1.01	3.31	4.34	1.62	1.07	0.64	0.73	0.55	0.53	
2	0.40	0.36	0.51	0.90	3.63	3.83	1.61	1.10	0.64	0.71	0.55	0.52	
3	0.40	0.36	0.48	0.82	3.60	4.00	1.58	1.03	0.64	0.70	0.56	0.53	
4	0.37	0.36	0.49	0.79	3.43	4.09	1.60	1.00	0.63	0.71	0.55	0.53	
5	0.37	0.37	0.46	0.72	3.00	3.72	1.59	0.96	0.63	0.69	0.55	0.52	
6	0.37	0.57	0.43	0.63	2.74	3.17	1.49	0.93	0.60	0.68	0.57	0.53	
7	0.34	0.44	0.46	0.57	2.45	2.85	1.38	0.89	0.59	0.65	0.57	0.56	
8	0.34	0.44	0.51	0.65	2.10	2.53	1.33	0.85	0.62	0.63	0.57	0.54	
9	0.35	0.43	0.68	0.97	1.82	2.71	1.32	0.87	0.62	0.64	0.55	0.50	
10	0.34	0.41	0.74	1.61	1.60	2.64	1.29	0.84	0.60	0.65	0.55	0.51	
11	0.34	0.40	0.88	1.83	1.56	2.42	1.29	0.81	0.60	0.64	0.56	0.52	
12	0.35	0.38	1.37	1.70	1.40	2.16	1.28	0.80	0.58	0.63	0.58	0.50	
13	0.35	0.40	1.43	1.51	1.37	2.07	1.25	0.77	0.58	0.61	0.58	0.52	
14	0.34	0.39	1.67	1.33	1.43	2.39	1.20	0.75	0.59	0.61	0.55	0.50	
15	0.38	0.40	1.81	1.27	1.55	2.67	1.16	0.78	0.59	0.61	0.53	0.56	
16	0.38	0.46	1.85	1.25	2.15	2.80	1.09	0.79	0.58	0.58	0.56	0.51	
17	0.38	0.49	1.66	1.22	2.92	2.54	1.10	0.78	0.70	0.58	0.59	0.48	
18	0.38	0.74	1.46	1.13	3.48	2.26	1.05	0.78	0.68	0.60	0.61	0.49	
19	0.40	0.70	1.42	0.97	4.13	2.31	1.00	0.76	0.62	0.64	0.59	0.50	
20	0.38	0.59	1.46	0.85	4.72	2.23	0.97	0.76	0.59	0.62	0.58	0.48	
21	0.38	0.51	1.52	0.73	3.89	2.13	0.90	0.75	0.65	0.60	0.55	0.49	
22	0.37	0.47	1.57	0.66	3.27	2.01	0.88	0.75	0.63	0.59	0.56	0.49	
23	0.35	0.45	1.46	0.61	3.47	2.20	0.85	0.73	0.63	0.58	0.54	0.50	
24	0.36	0.44	1.31	0.64	3.70	2.72	0.90	0.74	0.63	0.58	0.55	0.47	
25	0.37	0.43	1.19	0.74	4.08	2.79	1.02	0.70	0.67	0.54	0.56	0.53	
26	0.39	0.46	1.07	1.68	5.15	2.71	0.91	0.69	0.72	0.58	0.54	0.50	
27	0.38	0.60	1.06	2.79	5.69	2.54	0.97	0.71	0.78	0.61	0.54	0.47	
28	0.40	0.64	0.96	2.67	5.55	2.29	0.94	0.68	0.79	0.58	0.53	0.46	
29	0.40	0.66	0.91	2.66	5.17	1.99	1.08	0.66	0.84	0.56		0.44	
30	0.40	0.59	1.01	2.57	4.63	1.76	1.04	0.68	0.82	0.55		0.44	
31		0.52		2.71	4.73		1.11		0.78	0.55		0.45	
Mean	0.37	0.48	1.08	1.30	3.28	2.70	1.19	0.81	0.65	0.62	0.56	0.50	
Max	0.40	0.74	1.85	2.79	5.69	4.34	1.62	1.10	0.84	0.73	0.61	0.56	5.69
Min	0.34	0.36	0.43	0.57	1.37	1.76	0.85	0.66	0.58	0.54	0.53	0.44	0.34

Annual Max Momentary Gage Height 5.75 M (A.D), at 12.00 Hours, on Aug 27, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.31 M (A.D)
Left Bank Elevation 8.41 M (A.D)
Right Bank Elevation 7.85 M (A.D), Drainage Area 1511 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.09	0.55	5.20	82.95	134.70	19.60	6.40	1.40	2.30	0.75	0.65	
2	0.10	0.06	0.55	4.00	97.50	107.50	19.30	7.00	1.40	2.10	0.75	0.60	
3	0.10	0.06	0.42	3.20	96.00	116.00	18.50	5.60	1.40	2.00	0.80	0.65	
4	0.07	0.06	0.46	2.90	88.35	120.95	19.00	5.00	1.30	2.10	0.75	0.65	
5	0.07	0.07	0.34	2.20	69.00	102.00	18.75	4.60	1.30	1.90	0.75	0.60	
6	0.07	0.85	0.22	1.30	57.60	76.65	16.25	4.30	1.00	1.80	0.85	0.65	
7	0.04	0.26	0.34	0.85	46.75	62.25	13.50	3.90	0.95	1.50	0.85	0.80	
8	0.04	0.26	0.55	1.50	34.50	49.55	12.25	3.50	1.20	1.30	0.85	0.70	
9	0.05	0.22	1.80	4.70	25.60	56.40	12.00	3.70	1.20	1.40	0.75	0.50	
10	0.04	0.14	2.40	19.30	19.00	53.60	11.25	3.40	1.00	1.50	0.75	0.55	
11	0.04	0.10	3.80	25.90	18.00	45.70	11.25	3.10	1.00	1.40	0.80	0.60	
12	0.05	0.08	13.25	22.00	14.00	36.60	11.00	3.00	0.90	1.30	0.90	0.50	
13	0.05	0.10	14.75	16.75	13.25	33.45	10.25	2.70	0.90	1.10	0.90	0.60	
14	0.04	0.09	21.10	12.25	14.75	44.65	9.00	2.50	0.95	1.10	0.75	0.50	
15	0.08	0.10	25.30	10.75	17.75	54.80	8.20	2.80	0.95	1.10	0.65	0.80	
16	0.08	0.34	26.50	10.25	36.25	60.00	6.80	2.90	0.90	0.90	0.80	0.55	
17	0.08	0.46	20.80	9.50	65.40	49.90	7.00	2.80	2.00	0.90	0.95	0.42	
18	0.08	2.40	15.50	7.60	90.60	40.10	6.00	2.80	1.80	1.00	1.10	0.46	
19	0.10	2.00	14.50	4.70	123.15	41.85	5.00	2.60	1.20	1.40	0.95	0.50	
20	0.08	0.95	15.50	3.50	156.20	39.05	4.70	2.60	0.95	1.20	0.90	0.42	
21	0.08	0.55	17.00	2.30	110.50	35.55	4.00	2.50	1.50	1.00	0.75	0.46	
22	0.07	0.38	18.25	1.60	81.15	31.35	3.80	2.50	1.30	0.95	0.80	0.46	
23	0.05	0.30	15.50	1.10	90.15	38.00	3.50	2.30	1.30	0.90	0.70	0.50	
24	0.06	0.26	11.75	1.40	101.00	56.80	4.00	2.40	1.30	0.90	0.75	0.38	
25	0.07	0.22	8.80	2.40	120.40	59.60	5.40	2.00	1.70	0.70	0.80	0.65	
26	0.09	0.34	6.40	21.40	182.75	56.40	4.10	1.90	2.20	0.90	0.70	0.50	
27	0.08	1.00	6.20	59.60	217.85	49.90	4.70	2.10	2.80	1.10	0.70	0.38	
28	0.10	1.40	4.60	54.80	208.75	41.15	4.40	1.80	2.90	0.90	0.65	0.34	
29	0.10	1.60	4.10	54.40	184.05	30.70	6.60	1.60	3.40	0.80		0.26	
30	0.10	0.95	5.20	50.95	150.80	23.80	5.80	1.80	3.20	0.75		0.26	
31		0.60		56.40	156.80		7.20		2.80	0.75		0.30	
Total	2.16	16.29	276.43	474.70	2770.80	1748.95	293.10	96.10	48.10	38.95	22.40	16.19	5804.17 CMSDAY
Mean	0.07	0.53	9.21	15.31	89.38	58.30	9.45	3.20	1.55	1.26	0.80	0.52	15.90 CMS
Max	0.10	2.40	26.50	59.60	217.85	134.70	19.60	7.00	3.40	2.30	1.10	0.80	217.85 CMS
Min	0.04	0.06	0.22	0.85	13.25	23.80	3.50	1.60	0.90	0.70	0.65	0.26	0.04 CMS
Runoff	0.187	1.407	23.884	41.014	239.397	151.109	25.324	8.303	4.156	3.365	1.935	1.399	501.480 MCM

Momentary Peak 221.75 CMS, at 5.75 M (A.D), at 12.00 Hours, on Aug 27, 1992
Runoff Yield 10.52 Liters/Second/Square KM, Momentary Peak Yield 146.76 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

Nam Yang at Ban Kut Chim Khum Mai, Kalasin (E.57)

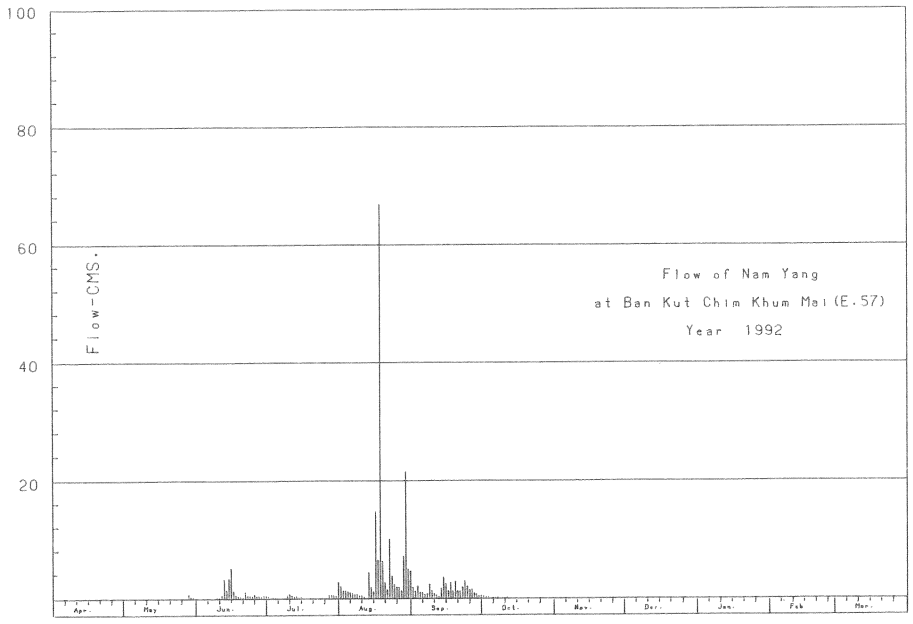
Location	Lat. 16°-41'-05" N., Long. 104°-05'-10" E., on right bank at the bridge on highway Ban Kut Chim Khum Mai, Amphoe Khao Wong, Kalasin.
Drainage Area	98 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
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 fair.Stage-discharge relation defined by 13 discharge measurements made in 1992.

Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.12	0.36	2.04	1.88	0.40	0.04	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.10	0.24	1.40	1.24	0.36	0.04	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.10	0.20	1.32	2.20	0.32	0.04	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.08	0.16	1.24	1.16	0.28	0.04	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.08	0.14	1.00	1.00	0.24	0.02	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.08	0.10	0.92	0.68	0.24	0.02	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.06	0.08	0.76	0.92	0.24	0.02	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.08	0.12	0.68	2.52	0.20	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.12	0.76	0.56	1.32	0.20	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.10	0.84	0.48	0.92	0.18	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.60	0.48	0.36	0.60	0.18	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	3.22	0.40	0.28	0.40	0.16	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	1.40	0.36	4.54	1.72	0.16	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	3.44	0.28	1.88	3.66	0.16	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	5.20	0.28	1.24	2.52	0.14	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	1.32	0.24	14.80	1.40	0.14	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.02	0.56	0.20	6.60	2.68	0.12	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.06	0.40	0.18	66.95	1.24	0.10	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.06	0.32	0.16	6.32	3.00	0.08	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.06	0.24	0.14	2.68	1.40	0.06	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.04	1.08	0.12	1.56	1.24	0.06	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.04	0.56	0.10	10.24	2.04	0.04	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.02	0.44	0.12	3.88	3.00	0.04	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.02	0.40	0.10	2.36	2.20	0.04	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.02	0.76	0.10	2.04	1.56	0.04	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.02	0.36	0.20	1.88	1.56	0.02	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.06	0.40	0.60	1.40	1.00	0.02	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.76	0.36	0.68	7.16	0.76	0.02	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.24	0.48	0.52	21.64	0.52	0.02	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.18	0.48	0.48	4.98	0.52	0.02	0.00	0.00	0.00		0.00	
31		0.16		2.84	4.76		0.02		0.00	0.00		0.00	
Total	0.00	1.76	22.94	11.58	177.95	46.86	4.30	0.22	0.00	0.00	0.00	0.00	265.61 CMSDAY
Mean	0.00	0.06	0.76	0.37	5.74	1.56	0.14	0.01	0.00	0.00	0.00	0.00	0.73 CMS
Max	0.00	0.76	5.20	2.84	66.95	3.66	0.40	0.04	0.00	0.00	0.00	0.00	66.95 CMS
Min	0.00	0.00	0.06	0.08	0.28	0.40	0.02	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.152	1.982	1.001	15.375	4.049	0.372	0.019	0.000	0.000	0.000	0.000	22.949 MCM

Momentary Peak 159.20 CMS, at 3.10 M (A.D), at 5.00 Hours, on Aug 18, 1992

Runoff Yield 7.43 Liters/Second/Square KM, Momentary Peak Yield 1624.49 Liters/Second/Square KM



Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.31	0.00	0.06	0.14	0.34	0.33	0.15	0.02	-0.01	-0.04	-0.20	0.00	
2	-0.32	0.00	0.05	0.11	0.30	0.28	0.14	0.02	-0.01	-0.04	-0.22	0.00	
3	-0.33	0.00	0.05	0.10	0.29	0.35	0.13	0.02	-0.02	-0.05	-0.22	0.00	
4	-0.34	0.00	0.04	0.08	0.28	0.27	0.12	0.02	-0.02	-0.05	-0.23	0.00	
5	-0.34	0.00	0.04	0.07	0.25	0.25	0.11	0.01	-0.02	-0.05	-0.27	0.00	
6	-0.35	0.00	0.04	0.05	0.24	0.21	0.11	0.01	-0.03	-0.06	-0.30	0.00	
7	-0.36	0.00	0.03	0.04	0.22	0.24	0.11	0.01	-0.03	-0.06	-0.30	0.00	
8	-0.37	0.00	0.04	0.06	0.21	0.37	0.10	-0.01	-0.03	-0.06	-0.30	0.00	
9	-0.37	0.00	0.06	0.22	0.19	0.29	0.10	-0.01	-0.04	-0.07	-0.30	0.00	
10	-0.37	0.00	0.05	0.23	0.17	0.24	0.09	-0.01	-0.04	-0.07	-0.30	0.00	
11	-0.37	0.00	0.20	0.17	0.14	0.20	0.09	-0.02	-0.05	-0.07	-0.30	0.00	
12	-0.37	-0.13	0.41	0.15	0.12	0.15	0.08	-0.02	-0.05	-0.07	-0.30	0.00	
13	-0.37	-0.17	0.30	0.14	0.47	0.32	0.08	-0.02	-0.06	-0.08	-0.30	0.00	
14	-0.37	-0.11	0.42	0.12	0.33	0.43	0.08	-0.03	-0.06	-0.08	-0.30	0.00	
15	-0.37	-0.12	0.50	0.12	0.28	0.37	0.07	-0.03	-0.07	-0.09	-0.30	0.00	
16	-0.37	-0.08	0.29	0.11	0.80	0.30	0.07	-0.03	-0.07	-0.09	-0.30	0.00	
17	-0.37	0.01	0.19	0.10	0.55	0.38	0.06	-0.03	-0.07	-0.09	-0.30	0.00	
18	-0.37	0.03	0.15	0.09	1.83	0.28	0.05	-0.02	-0.08	-0.10	-0.30	0.00	
19	-0.37	0.03	0.13	0.08	0.54	0.40	0.04	-0.02	-0.08	-0.10	-0.30	0.00	
20	-0.37	0.03	0.11	0.07	0.38	0.30	0.03	-0.02	-0.08	-0.11	-0.30	0.00	
21	-0.37	0.02	0.26	0.06	0.31	0.28	0.03	-0.02	-0.08	-0.12	-0.30	0.00	
22	-0.37	0.02	0.19	0.05	0.67	0.34	0.02	-0.01	-0.08	-0.13	-0.30	0.00	
23	-0.37	0.01	0.16	0.06	0.44	0.40	0.02	-0.01	-0.08	-0.14	-0.30	0.00	
24	-0.37	0.01	0.15	0.05	0.36	0.35	0.02	-0.01	-0.08	-0.16	-0.30	0.00	
25	-0.37	0.01	0.22	0.05	0.34	0.31	0.02	-0.01	-0.08	-0.17	-0.30	0.00	
26	-0.37	0.01	0.14	0.10	0.33	0.31	0.01	-0.01	-0.03	-0.18	-0.30	0.00	
27	-0.37	0.03	0.15	0.20	0.30	0.25	0.01	-0.01	-0.04	-0.19	-0.30	0.00	
28	-0.37	0.22	0.14	0.21	0.57	0.22	0.01	-0.01	-0.04	-0.19	-0.30	0.00	
29	-0.37	0.11	0.17	0.18	0.99	0.18	0.01	-0.01	-0.04	-0.19		0.00	
30	-0.37	0.09	0.17	0.17	0.49	0.18	0.01	-0.01	-0.04	-0.19		0.00	
31		0.08		0.39	0.48		0.01		-0.04	-0.19		0.00	
Mean	-0.36	0.00	0.16	0.12	0.43	0.29	0.06	-0.01	-0.05	-0.11	-0.29	0.00	
Max	-0.31	0.22	0.50	0.39	1.83	0.43	0.15	0.02	-0.01	-0.04	-0.20	0.00	1.83
Min	-0.37	-0.17	0.03	0.04	0.12	0.15	0.01	-0.03	-0.08	-0.19	-0.30	0.00	-0.37

Annual Max Momentary Gage Height 3.10 M (A.D), at 5.00 Hours, on Aug 18, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.08 M (A.D)
Left Bank Elevation 6.36 M (A.D)
Right Bank Elevation 5.48 M (A.D), Drainage Area 98 Square Kilometers

WATER YEAR 1992

CHI RIVER BASIN

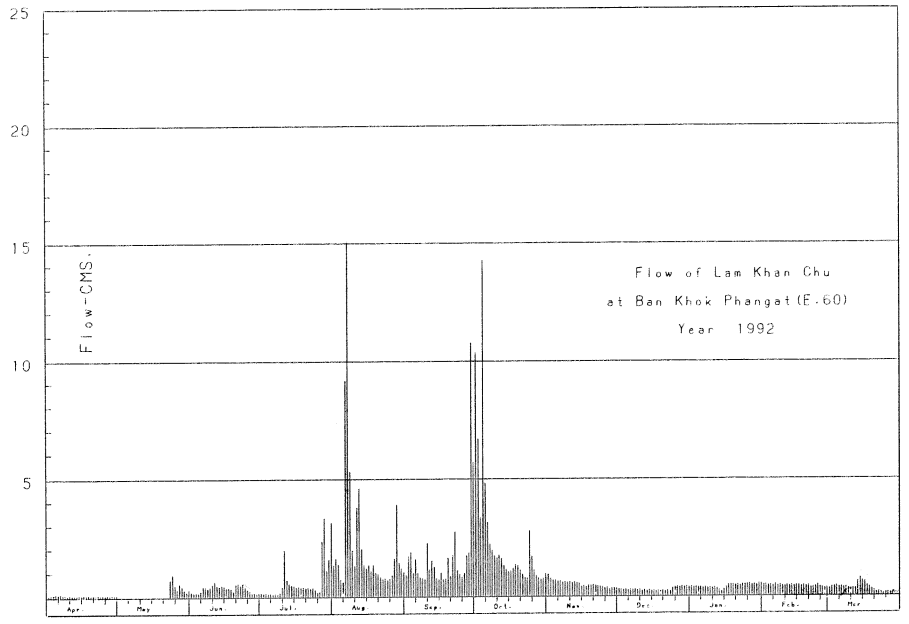
Lam Khan Chu at Ban Khok Phangat, Chaiyaphum (E.60)

Location	Lat. 15°29'14" N., Long. 101°33'32" E., on left bank about 500 meters from Ban Khok Phangat, Amphoe Bamnet Narong, Chaiyaphum.
Drainage Area	205 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	About 8 meters from the top staff gage.
Elevation	+7.326 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1977 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.20	0.71	0.67	1.55	1.37	3.28	1.39	0.84	0.92	1.02	0.86	
2	0.60	0.20	0.70	0.67	1.64	1.67	2.77	1.28	0.81	0.92	1.01	0.90	
3	0.65	0.20	0.69	0.67	1.57	1.73	2.13	1.23	0.81	0.91	0.99	0.95	
4	0.65	0.20	0.69	0.66	1.24	1.42	3.68	1.20	0.81	0.91	0.98	0.95	
5	0.65	0.20	0.74	0.65	1.16	1.64	2.43	1.18	0.80	0.90	0.98	0.93	
6	0.64	0.20	0.97	0.65	3.13	1.40	2.10	1.17	0.80	0.89	1.01	0.91	
7	0.62	0.20	0.92	0.65	3.76	1.32	1.86	1.14	0.81	0.89	0.97	0.90	
8	0.60	0.20	0.89	0.65	2.53	1.28	1.76	1.13	0.80	0.88	0.99	0.89	
9	0.60	0.20	0.91	0.67	1.76	1.27	1.69	1.13	0.81	0.88	0.98	0.87	
10	0.60	0.20	1.07	0.96	1.55	1.87	1.66	1.13	0.80	0.88	0.97	0.85	
11	0.60	0.20	1.16	1.76	2.22	1.48	1.69	1.12	0.77	0.88	0.97	0.84	
12	0.60	0.20	1.01	1.25	2.38	1.61	1.64	1.12	0.78	0.86	0.97	0.85	
13	0.60	0.20	0.94	1.06	1.79	1.53	1.55	1.12	0.77	0.77	0.97	1.13	
14	0.60	0.20	1.02	1.03	1.55	1.28	1.48	1.06	0.78	0.73	0.97	1.30	
15	0.60	0.20	0.96	0.98	1.51	1.25	1.44	0.95	0.77	0.79	0.97	1.15	
16	0.60	0.20	0.91	0.95	1.56	1.41	1.44	0.96	0.76	0.92	0.96	1.12	
17	0.60	0.20	0.90	0.95	1.45	1.26	1.51	0.94	0.75	0.99	0.96	0.98	
18	0.60	0.20	0.86	0.93	1.55	1.26	1.55	0.97	0.75	1.03	0.96	0.89	
19	0.60	0.20	0.77	0.92	1.43	1.66	1.54	1.00	0.75	1.00	0.96	0.83	
20	0.60	0.20	1.08	0.91	1.38	1.35	1.46	1.00	0.75	1.00	0.96	0.75	
21	0.60	0.21	1.08	0.90	1.33	1.69	1.39	1.00	0.75	1.00	0.91	0.69	
22	0.60	0.30	1.02	0.89	1.28	1.99	1.32	0.95	0.75	1.00	0.89	0.69	
23	0.60	1.23	1.07	0.90	1.28	1.47	1.29	0.95	0.75	1.00	0.95	0.69	
24	0.60	1.39	0.94	0.84	1.24	1.38	2.01	0.91	0.85	1.04	1.00	0.68	
25	0.60	1.02	0.85	0.73	1.26	1.32	1.68	0.89	0.93	1.06	0.93	0.67	
26	0.60	0.82	0.76	0.72	1.37	1.41	1.46	0.89	0.92	1.04	0.87	0.67	
27	0.60	1.06	0.70	1.90	1.64	1.69	1.35	0.84	0.92	1.02	0.87	0.67	
28	0.60	0.98	0.68	2.13	2.25	1.72	1.28	0.84	0.93	1.00	0.86	0.66	
29	0.60	0.80	0.67	1.47	1.59	3.33	1.25	0.89	0.93	1.01		0.65	
30	0.60	0.74	0.67	1.63	1.50	2.60	1.28	0.85	0.92	1.05		0.60	
31		0.81		2.10	1.42		1.39		0.92	1.04		0.59	
Mean	0.61	0.43	0.88	1.03	1.71	1.59	1.75	1.04	0.82	0.94	0.96	0.84	
Max	0.65	1.39	1.16	2.13	3.76	3.33	3.68	1.39	0.93	1.06	1.02	1.30	3.76
Min	0.60	0.20	0.67	0.65	1.16	1.25	1.25	0.84	0.75	0.73	0.86	0.59	0.20

Annual Max Momentary Gage Height 4.90 M (A.D), at 18.00 Hours, on Aug 6, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.14 M (A.D)
Left Bank Elevation 7.63 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, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.00	0.21	0.17	1.35	0.94	10.34	0.98	0.34	0.42	0.52	0.36	
2	0.10	0.00	0.20	0.17	1.62	1.71	6.72	0.78	0.31	0.42	0.51	0.40	
3	0.15	0.00	0.19	0.17	1.41	1.89	3.35	0.73	0.31	0.41	0.49	0.45	
4	0.15	0.00	0.19	0.16	0.74	1.04	14.30	0.70	0.31	0.41	0.48	0.45	
5	0.15	0.00	0.24	0.15	0.66	1.62	4.85	0.68	0.30	0.40	0.48	0.43	
6	0.14	0.00	0.47	0.15	9.21	1.00	3.20	0.67	0.30	0.39	0.51	0.41	
7	0.12	0.00	0.42	0.15	15.10	0.84	2.28	0.64	0.31	0.39	0.47	0.40	
8	0.10	0.00	0.39	0.15	5.35	0.78	1.98	0.63	0.30	0.38	0.49	0.39	
9	0.10	0.00	0.41	0.17	1.98	0.77	1.77	0.63	0.31	0.38	0.48	0.37	
10	0.10	0.00	0.57	0.46	1.35	2.31	1.68	0.63	0.30	0.38	0.47	0.35	
11	0.10	0.00	0.66	1.98	3.80	1.16	1.77	0.62	0.27	0.38	0.47	0.34	
12	0.10	0.00	0.51	0.75	4.60	1.53	1.62	0.62	0.28	0.36	0.47	0.35	
13	0.10	0.00	0.44	0.56	2.07	1.29	1.35	0.62	0.27	0.27	0.47	0.63	
14	0.10	0.00	0.52	0.53	1.35	0.78	1.16	0.56	0.28	0.23	0.47	0.80	
15	0.10	0.00	0.46	0.48	1.23	0.75	1.08	0.45	0.27	0.29	0.47	0.65	
16	0.10	0.00	0.41	0.45	1.38	1.02	1.08	0.46	0.26	0.42	0.46	0.62	
17	0.10	0.00	0.40	0.45	1.10	0.76	1.23	0.44	0.25	0.49	0.46	0.48	
18	0.10	0.00	0.36	0.43	1.35	0.76	1.35	0.47	0.25	0.53	0.46	0.39	
19	0.10	0.00	0.27	0.42	1.06	1.68	1.32	0.50	0.25	0.50	0.46	0.33	
20	0.10	0.00	0.58	0.41	0.96	0.90	1.12	0.50	0.25	0.50	0.46	0.25	
21	0.10	0.00	0.58	0.40	0.86	1.77	0.98	0.50	0.25	0.50	0.41	0.19	
22	0.10	0.00	0.52	0.39	0.78	2.76	0.84	0.45	0.25	0.50	0.39	0.19	
23	0.10	0.73	0.57	0.40	0.78	1.14	0.79	0.45	0.25	0.50	0.45	0.19	
24	0.10	0.98	0.44	0.34	0.74	0.96	2.84	0.41	0.35	0.54	0.50	0.18	
25	0.10	0.52	0.35	0.23	0.76	0.84	1.74	0.39	0.43	0.56	0.43	0.17	
26	0.10	0.32	0.26	0.22	0.94	1.02	1.12	0.39	0.42	0.54	0.37	0.17	
27	0.10	0.56	0.20	2.40	1.62	1.77	0.90	0.34	0.42	0.52	0.37	0.17	
28	0.10	0.48	0.18	3.35	3.95	1.86	0.78	0.34	0.43	0.50	0.36	0.16	
29	0.10	0.30	0.17	1.14	1.47	10.80	0.75	0.39	0.43	0.51		0.15	
30	0.10	0.24	0.17	1.59	1.20	5.70	0.78	0.35	0.42	0.55		0.10	
31		0.31		3.20	1.04		0.98		0.42	0.54		0.09	
Total	3.21	4.44	11.34	22.02	71.81	52.15	76.05	16.32	9.79	13.71	12.83	10.61	304.28 CMSDAY
Mean	0.11	0.14	0.38	0.71	2.32	1.74	2.45	0.54	0.32	0.44	0.46	0.34	0.83 CMS
Max	0.15	0.98	0.66	3.35	15.10	10.80	14.30	0.98	0.43	0.56	0.52	0.80	15.10 CMS
Min	0.10	0.00	0.17	0.15	0.66	0.75	0.75	0.34	0.25	0.23	0.36	0.09	0.00 CMS
Runoff	0.277	0.384	0.980	1.903	6.204	4.506	6.571	1.410	0.846	1.185	1.109	0.917	26.290 MCM

Momentary Peak 30.30 CMS, at 4.90 M (A.D), at 18.00 Hours, on Aug 6, 1992

Runoff Yield 4.07 Liters/Second/Square KM, Momentary Peak Yield 147.80 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

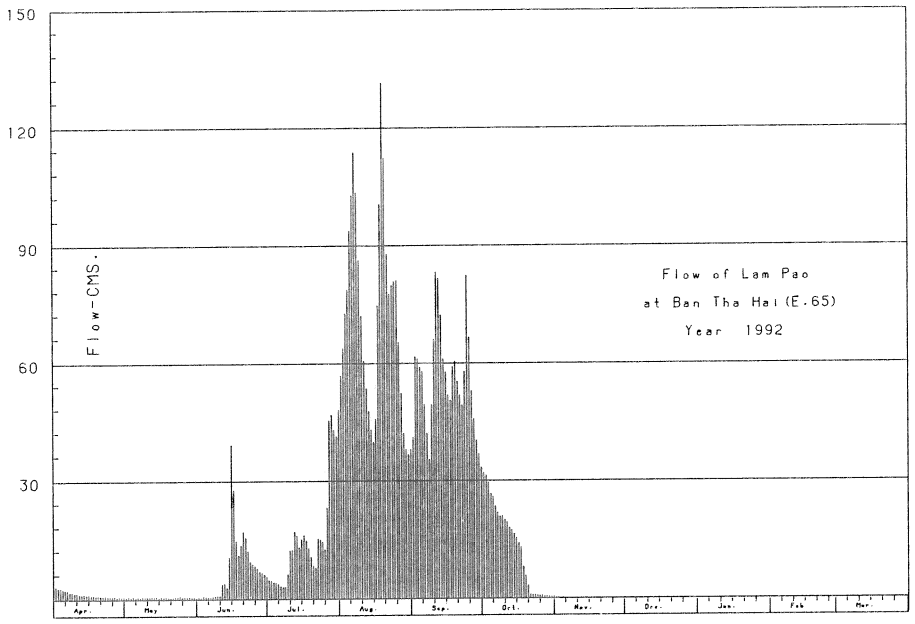
Lam Pao at Ban Tha Hai, Udon Thani (E.65)

Location	Lat. 16-56-54 N., Long. 103-10-16 E., on left bank at the bridge on highway, Ban Tha Hai, Amphoe Si That, Udon Thani.
Drainage Area	1,949 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+10.695 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1983 to date.
Rated by Float	-
Rated by Current Meter	1983 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 73 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.03	1.28	1.24	2.39	4.78	4.90	4.74	3.98	3.72	3.35	2.61	1.91	
2	1.98	1.29	1.25	2.32	4.98	5.24	4.73	3.96	3.71	3.34	2.58	1.87	
3	1.95	1.28	1.36	2.27	5.22	5.23	4.69	3.94	3.70	3.32	2.54	1.83	
4	1.92	1.28	1.32	2.22	5.37	5.20	4.63	3.91	3.71	3.31	2.53	1.81	
5	1.88	1.28	1.30	2.15	5.71	5.18	4.61	3.90	3.71	3.29	2.50	1.78	
6	1.84	1.28	1.28	2.07	5.89	5.04	4.56	3.89	3.70	3.27	2.46	1.75	
7	1.78	1.29	1.28	2.02	6.09	4.92	4.52	3.88	3.70	3.23	2.43	1.74	
8	1.74	1.30	1.46	2.00	5.90	4.81	4.50	3.80	3.70	3.20	2.41	1.70	
9	1.71	1.30	1.41	2.54	5.55	5.04	4.50	3.87	3.70	3.17	2.39	1.65	
10	1.67	1.30	1.45	3.03	5.20	5.30	4.48	3.86	3.69	3.16	2.37	1.63	
11	1.66	1.30	2.15	3.03	4.89	5.54	4.46	3.84	3.69	3.14	2.34	1.59	
12	1.62	1.30	2.18	3.35	4.69	5.52	4.43	3.82	3.69	3.10	2.32	1.57	
13	1.61	1.32	1.99	3.27	4.51	5.39	4.41	3.82	3.68	3.08	2.29	1.54	
14	1.58	1.31	2.90	3.08	4.35	5.23	4.39	3.82	3.67	3.05	2.27	1.51	
15	1.57	1.27	4.23	3.21	4.25	5.18	4.36	3.81	3.67	3.05	2.23	1.49	
16	1.54	1.27	3.79	3.28	4.44	5.08	4.33	3.81	3.64	3.03	2.21	1.48	
17	1.49	1.28	3.18	3.20	5.27	5.06	4.30	3.81	3.62	2.99	2.19	1.46	
18	1.48	1.27	2.95	3.06	5.84	5.20	4.26	3.81	3.60	2.97	2.15	1.46	
19	1.44	1.27	3.12	2.92	6.41	5.22	4.24	3.80	3.58	2.95	2.13	1.45	
20	1.42	1.26	3.34	2.73	6.06	5.14	4.22	3.81	3.56	2.91	2.12	1.45	
21	1.40	1.26	3.25	2.70	5.59	5.08	4.19	3.78	3.54	2.88	2.09	1.44	
22	1.40	1.26	3.01	3.22	5.34	5.04	4.18	3.78	3.52	2.85	2.07	1.42	
23	1.37	1.30	2.84	3.21	5.40	5.18	4.16	3.78	3.52	2.84	2.05	1.39	
24	1.34	1.38	2.78	3.17	5.42	5.53	4.14	3.77	3.49	2.81	2.04	1.37	
25	1.32	1.30	2.75	3.05	5.43	5.31	4.12	3.77	3.46	2.78	2.01	1.36	
26	1.31	1.27	2.67	3.61	5.29	5.10	4.10	3.76	3.45	2.75	1.97	1.36	
27	1.30	1.32	2.61	4.43	5.09	4.98	4.06	3.75	3.43	2.73	1.94	1.36	
28	1.29	1.30	2.56	4.48	4.92	4.89	4.03	3.74	3.41	2.70	1.93	1.35	
29	1.29	1.27	2.53	4.35	4.85	4.83	4.01	3.74	3.39	2.68		1.34	
30	1.29	1.25	2.46	4.30	4.83	4.77	4.01	3.73	3.38	2.66		1.34	
31		1.24		4.52	4.85		3.99		3.37	2.63		1.34	
Mean	1.57	1.29	2.35	3.07	5.24	5.14	4.33	3.82	3.59	3.01	2.26	1.54	
Max	2.03	1.38	4.23	4.52	6.41	5.54	4.74	3.98	3.72	3.35	2.61	1.91	6.41
Min	1.29	1.24	1.24	2.00	4.25	4.77	3.99	3.73	3.37	2.63	1.93	1.34	1.24

Annual Max Momentary Gage Height 6.47 M (A.D), at 6.00 Hours, on Aug 19, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.99 M (A.D)
Left Bank Elevation 6.77 M (A.D)
Right Bank Elevation 6.67 M (A.D), Drainage Area 1949 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.15	0.56	0.48	4.95	56.80	41.00	32.00	0.45	0.00	0.00	0.00	0.00	
2	2.90	0.58	0.50	4.60	63.80	61.80	31.50	0.40	0.00	0.00	0.00	0.00	
3	2.75	0.56	0.72	4.35	72.80	61.10	29.55	0.35	0.00	0.00	0.00	0.00	
4	2.60	0.56	0.64	4.10	78.80	59.00	26.85	0.28	0.00	0.00	0.00	0.00	
5	2.40	0.56	0.60	3.75	94.00	57.80	25.95	0.25	0.00	0.00	0.00	0.00	
6	2.20	0.56	0.56	3.35	103.00	49.40	23.70	0.23	0.00	0.00	0.00	0.00	
7	1.90	0.58	0.56	3.10	113.95	42.20	21.90	0.20	0.00	0.00	0.00	0.00	
8	1.70	0.60	0.92	3.00	103.50	35.60	21.00	0.00	0.00	0.00	0.00	0.00	
9	1.55	0.60	0.82	6.40	86.25	49.40	21.00	0.17	0.00	0.00	0.00	0.00	
10	1.41	0.60	0.90	12.45	72.00	66.00	20.20	0.15	0.00	0.00	0.00	0.00	
11	1.38	0.60	3.75	12.45	60.65	83.20	19.40	0.10	0.00	0.00	0.00	0.00	
12	1.26	0.60	3.90	17.25	53.65	81.60	18.20	0.05	0.00	0.00	0.00	0.00	
13	1.23	0.64	2.95	16.05	47.80	72.30	17.40	0.05	0.00	0.00	0.00	0.00	
14	1.16	0.62	10.50	13.20	43.00	61.10	16.60	0.05	0.00	0.00	0.00	0.00	
15	1.14	0.54	39.40	15.15	40.00	57.80	15.40	0.02	0.00	0.00	0.00	0.00	
16	1.08	0.54	27.75	16.20	45.70	51.80	14.20	0.02	0.00	0.00	0.00	0.00	
17	0.98	0.56	14.70	15.00	74.80	50.60	13.00	0.02	0.00	0.00	0.00	0.00	
18	0.96	0.54	11.25	12.90	100.50	59.00	8.20	0.02	0.00	0.00	0.00	0.00	
19	0.88	0.54	13.80	10.80	131.60	60.40	5.80	0.00	0.00	0.00	0.00	0.00	
20	0.84	0.52	17.10	8.30	112.30	55.40	3.40	0.02	0.00	0.00	0.00	0.00	
21	0.80	0.52	15.75	8.00	88.05	51.80	0.98	0.00	0.00	0.00	0.00	0.00	
22	0.80	0.52	12.15	15.30	77.60	49.40	0.95	0.00	0.00	0.00	0.00	0.00	
23	0.74	0.60	9.60	15.15	80.00	57.80	0.90	0.00	0.00	0.00	0.00	0.00	
24	0.68	0.76	8.80	14.55	80.80	82.40	0.85	0.00	0.00	0.00	0.00	0.00	
25	0.64	0.60	8.50	12.75	81.20	66.70	0.80	0.00	0.00	0.00	0.00	0.00	
26	0.62	0.54	7.70	23.25	65.30	53.00	0.75	0.00	0.00	0.00	0.00	0.00	
27	0.60	0.64	7.10	45.40	52.40	45.80	0.65	0.00	0.00	0.00	0.00	0.00	
28	0.58	0.60	6.60	46.90	42.20	40.40	0.58	0.00	0.00	0.00	0.00	0.00	
29	0.58	0.54	6.30	43.00	38.00	36.80	0.53	0.00	0.00	0.00		0.00	
30	0.58	0.50	5.60	41.50	36.80	33.50	0.53	0.00	0.00	0.00		0.00	
31		0.48		48.10	38.00		0.48		0.00	0.00		0.00	
Total	40.09	17.76	239.90	501.25	2235.25	1674.10	393.25	2.83	0.00	0.00	0.00	0.00	5104.43 CMSDAY
Mean	1.34	0.57	8.00	16.17	72.10	55.80	12.69	0.09	0.00	0.00	0.00	0.00	13.98 CMS
Max	3.15	0.76	39.40	48.10	131.60	83.20	32.00	0.45	0.00	0.00	0.00	0.00	131.60 CMS
Min	0.58	0.48	0.48	3.00	36.80	33.50	0.48	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	3.464	1.534	20.727	43.308	193.126	144.642	33.977	0.245	0.000	0.000	0.000	0.000	441.023 MCM

Momentary Peak 135.20 CMS, at 6.47 M (A.D), at 6.00 Hours, on Aug 19, 1992

Runoff Yield 7.18 Liters/Second/Square KM, Momentary Peak Yield 69.37 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

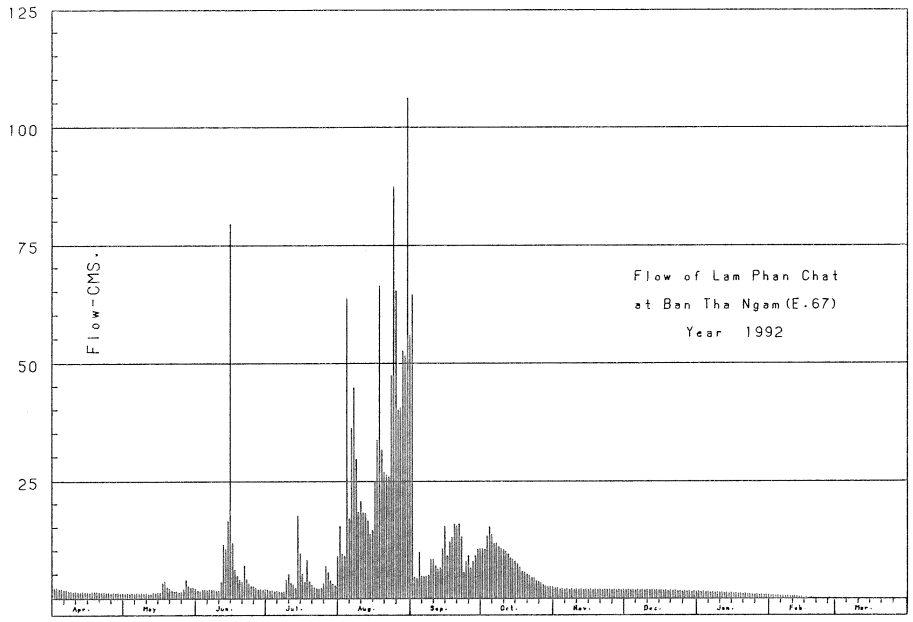
Lam Phan Chat at Ban Tha Ngam, Udon Thani (E.67)

Location	Lat. 16-57-17 N., Long. 103-29-40 E., on left bank at the bridge on road, Ban Tha Ngam, Tambon Sam Ran, Amphoe Kham Muang, Kalasin.
Drainage Area	420 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+13.649 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records poor. Stage-discharge relation defined by 92 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.38	1.24	1.32	1.33	2.20	3.70	3.74	3.25	3.00	2.64	1.87	1.22	
2	1.38	1.24	1.29	1.32	1.91	3.43	3.74	3.23	3.00	2.62	1.84	1.21	
3	1.36	1.24	1.35	1.31	1.89	3.42	3.72	3.21	2.99	2.61	1.81	1.20	
4	1.35	1.24	1.34	1.30	3.68	3.60	3.69	3.19	2.99	2.59	1.79	1.21	
5	1.34	1.24	1.33	1.30	2.27	3.44	3.66	3.17	2.98	2.56	1.77	1.21	
6	1.32	1.24	1.34	1.29	2.94	3.44	3.63	3.16	2.98	2.54	1.75	1.22	
7	1.30	1.24	1.34	1.28	3.20	3.44	3.63	3.15	2.98	2.52	1.72	1.21	
8	1.29	1.24	1.32	1.28	2.73	3.46	3.62	3.15	2.98	2.50	1.69	1.20	
9	1.28	1.24	1.31	1.54	2.32	3.56	3.61	3.12	2.97	2.47	1.67	1.19	
10	1.28	1.24	1.30	1.65	2.41	3.56	3.61	3.11	2.97	2.45	1.65	1.20	
11	1.28	1.23	1.51	1.50	2.32	3.53	3.60	3.10	2.96	2.41	1.63	1.19	
12	1.27	1.23	2.02	1.45	2.31	3.51	3.59	3.09	2.95	2.39	1.60	1.20	
13	1.28	1.26	1.97	1.39	2.25	3.52	3.57	3.08	2.94	2.37	1.57	1.19	
14	1.28	1.26	2.25	2.29	2.12	3.74	3.56	3.08	2.94	2.35	1.55	1.18	
15	1.26	1.26	4.04	1.92	2.16	3.69	3.55	3.07	2.92	2.33	1.53	1.15	
16	1.26	1.26	2.04	1.64	2.56	3.75	3.54	3.07	2.91	2.29	1.50	1.15	
17	1.27	1.49	1.70	1.51	2.86	3.83	3.52	3.06	2.90	2.27	1.48	1.16	
18	1.29	1.51	1.62	1.83	3.74	3.65	3.50	3.06	2.88	2.25	1.45	1.15	
19	1.28	1.41	1.54	1.52	2.80	3.70	3.49	3.06	2.86	2.23	1.44	1.15	
20	1.28	1.36	1.50	1.44	2.63	3.69	3.47	3.04	2.85	2.20	1.42	1.14	
21	1.27	1.33	1.77	1.39	2.61	3.70	3.45	3.04	2.84	2.16	1.39	1.14	
22	1.26	1.30	1.57	1.38	2.60	3.72	3.43	3.04	2.82	2.14	1.38	1.13	
23	1.26	1.29	1.47	1.35	3.27	3.81	3.42	3.03	2.80	2.12	1.35	1.13	
24	1.25	1.28	1.43	1.39	4.20	3.76	3.39	3.05	2.76	2.09	1.33	1.13	
25	1.25	1.27	1.43	1.47	3.72	3.75	3.38	3.04	2.75	2.05	1.30	1.13	
26	1.25	1.35	1.38	1.75	3.06	3.77	3.35	3.04	2.74	2.02	1.27	1.12	
27	1.25	1.55	1.35	1.67	3.07	3.76	3.33	3.02	2.72	1.99	1.25	1.13	
28	1.25	1.42	1.34	1.53	3.41	3.75	3.30	3.02	2.70	1.97	1.24	1.15	
29	1.24	1.40	1.34	1.46	3.38	3.74	3.29	3.01	2.68	1.95		1.17	
30	1.24	1.39	1.34	1.44	4.55	3.74	3.28	3.02	2.68	1.92		1.13	
31		1.36		1.88	3.49		3.27		2.66	1.90		1.14	
Mean	1.29	1.31	1.60	1.51	2.86	3.64	3.51	3.09	2.87	2.29	1.54	1.17	
Max	1.38	1.55	4.04	2.29	4.55	3.83	3.74	3.25	3.00	2.64	1.87	1.22	4.55
Min	1.24	1.23	1.29	1.28	1.89	3.42	3.27	3.01	2.66	1.90	1.24	1.12	1.12

Annual Max Momentary Gage Height 5.53 M (A.D), at 11.00 Hours, on Aug 24, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.86 M (A.D)
Left Bank Elevation 11.14 M (A.D)
Right Bank Elevation 9.90 M (A.D), Drainage Area 420 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.24	1.12	1.76	1.84	15.50	64.70	10.56	2.35	1.90	1.54	0.77	0.12	
2	2.24	1.12	1.52	1.76	9.47	4.54	10.56	2.25	1.90	1.52	0.74	0.11	
3	2.08	1.12	2.00	1.68	9.13	4.36	13.28	2.15	1.89	1.51	0.71	0.10	
4	2.00	1.12	1.92	1.60	63.84	10.00	15.40	2.09	1.89	1.49	0.69	0.11	
5	1.92	1.12	1.84	1.60	17.18	4.72	13.60	2.07	1.88	1.46	0.67	0.11	
6	1.76	1.12	1.92	1.52	36.28	4.72	11.80	2.06	1.88	1.44	0.65	0.12	
7	1.60	1.12	1.92	1.44	45.00	4.72	11.80	2.05	1.88	1.42	0.62	0.11	
8	1.52	1.12	1.76	1.44	29.77	5.08	11.20	2.05	1.88	1.40	0.59	0.10	
9	1.44	1.12	1.68	3.94	18.40	8.32	10.60	2.02	1.87	1.37	0.57	0.09	
10	1.44	1.12	1.60	5.35	20.68	8.32	10.60	2.01	1.87	1.35	0.55	0.10	
11	1.44	1.04	3.61	3.50	18.40	7.06	10.00	2.00	1.86	1.31	0.53	0.09	
12	1.36	1.04	11.45	2.95	18.15	6.22	9.58	1.99	1.85	1.29	0.50	0.10	
13	1.44	1.28	10.49	2.32	16.70	6.64	8.74	1.98	1.84	1.27	0.47	0.09	
14	1.44	1.28	16.70	17.66	13.70	10.56	8.32	1.98	1.84	1.25	0.45	0.08	
15	1.28	1.28	79.72	9.64	14.60	15.40	7.90	1.97	1.82	1.23	0.43	0.05	
16	1.28	1.28	11.90	5.20	24.88	9.20	7.48	1.97	1.81	1.19	0.40	0.05	
17	1.36	3.39	6.10	3.61	33.72	12.18	6.64	1.96	1.80	1.17	0.38	0.06	
18	1.52	3.61	4.90	8.11	66.42	13.00	5.80	1.96	1.78	1.15	0.35	0.05	
19	1.44	2.51	3.94	3.72	31.80	16.00	5.62	1.96	1.76	1.13	0.34	0.05	
20	1.44	2.08	3.50	2.84	26.87	15.40	5.26	1.94	1.75	1.10	0.32	0.04	
21	1.36	1.84	7.15	2.32	26.29	16.00	4.90	1.94	1.74	1.06	0.29	0.04	
22	1.28	1.60	4.27	2.24	26.00	13.28	4.54	1.94	1.72	1.04	0.28	0.03	
23	1.28	1.52	3.17	2.00	47.59	5.66	4.36	1.93	1.70	1.02	0.25	0.03	
24	1.20	1.44	2.73	2.32	87.40	7.84	3.86	1.95	1.66	0.99	0.23	0.03	
25	1.20	1.36	2.73	3.17	65.56	9.20	3.72	1.94	1.65	0.95	0.20	0.03	
26	1.20	2.00	2.24	6.85	40.24	6.48	3.30	1.94	1.64	0.92	0.17	0.02	
27	1.20	4.05	2.00	5.65	40.58	7.84	3.02	1.92	1.62	0.89	0.15	0.03	
28	1.20	2.62	1.92	3.83	52.80	9.20	2.60	1.92	1.60	0.87	0.14	0.05	
29	1.12	2.40	1.92	3.06	51.66	10.56	2.55	1.91	1.58	0.85		0.07	
30	1.12	2.32	1.92	2.84	106.40	10.56	2.50	1.92	1.58	0.82		0.03	
31		2.08		8.96	56.00		2.45		1.56	0.80		0.04	
Total	44.40	53.22	200.28	124.96	1131.01	327.76	232.54	60.12	55.00	36.80	12.44	2.13	2280.66 CMSDAY
Mean	1.48	1.72	6.68	4.03	36.48	10.93	7.50	2.00	1.77	1.19	0.44	0.07	6.25 CMS
Max	2.24	4.05	79.72	17.66	106.40	64.70	15.40	2.35	1.90	1.54	0.77	0.12	106.40 CMS
Min	1.12	1.04	1.52	1.44	9.13	4.36	2.45	1.91	1.56	0.80	0.14	0.02	0.02 CMS
Runoff	3.836	4.598	17.304	10.797	97.719	28.318	20.091	5.194	4.752	3.180	1.075	0.184	197.049 MCM

Momentary Peak 169.10 CMS, at 5.53 M (A.D), at 11.00 Hours, on Aug 24, 1992
Runoff Yield 14.88 Liters/Second/Square KM, Momentary Peak Yield 402.62 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

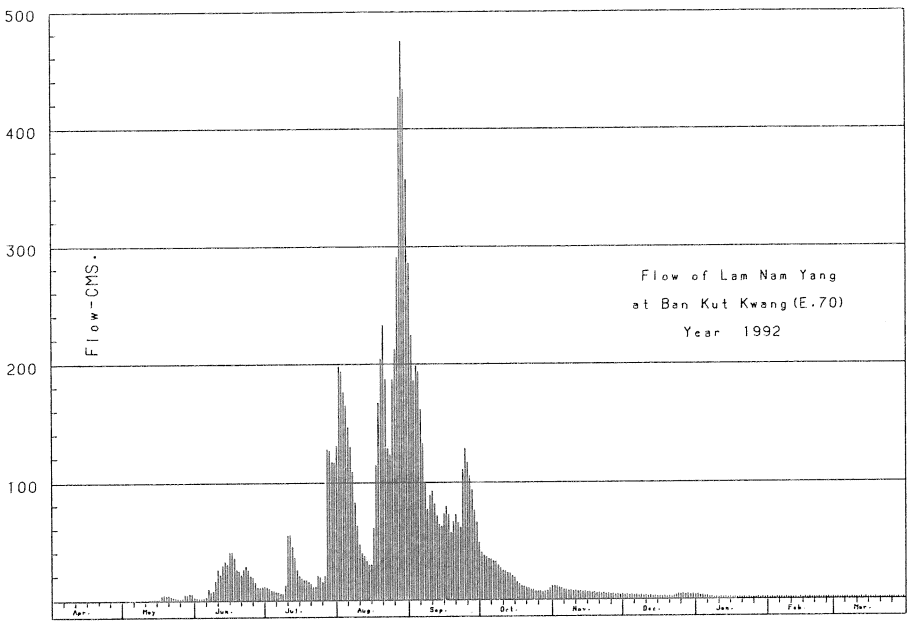
Lam Nam Yang at Ban Kut Kwang, Roi Et (E.70)

Location	Lat. 16-17-15 N., Long. 104-00-33 E., on right bank at bridge on highway, Ban Kut Kwang, Amphoe Phon Thong, Roi Et.
Drainage Area	3,168 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+11.914 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Float	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation + 5.77 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.08	0.29	0.84	4.46	4.80	1.70	0.87	0.43	0.43	0.24	0.23	
2	0.10	0.08	0.29	0.76	4.40	4.30	1.64	0.83	0.43	0.41	0.24	0.23	
3	0.09	0.08	0.25	0.71	4.17	4.47	1.60	0.79	0.42	0.39	0.24	0.23	
4	0.09	0.08	0.23	0.66	4.00	4.40	1.57	0.75	0.42	0.37	0.24	0.23	
5	0.09	0.08	0.37	0.63	3.73	3.96	1.54	0.71	0.41	0.35	0.24	0.23	
6	0.08	0.08	0.77	0.58	3.46	3.50	1.52	0.67	0.41	0.33	0.24	0.23	
7	0.08	0.09	0.59	0.56	3.11	2.95	1.49	0.66	0.40	0.31	0.24	0.23	
8	0.08	0.09	0.68	0.50	2.65	2.52	1.42	0.65	0.40	0.29	0.24	0.23	
9	0.07	0.09	1.04	0.93	2.23	2.77	1.34	0.64	0.39	0.29	0.24	0.23	
10	0.07	0.09	1.32	2.07	1.88	2.83	1.30	0.63	0.38	0.28	0.24	0.22	
11	0.07	0.10	1.21	2.07	1.70	2.61	1.27	0.62	0.37	0.28	0.23	0.22	
12	0.06	0.13	1.41	1.85	1.62	2.42	1.24	0.61	0.37	0.27	0.23	0.22	
13	0.06	0.13	1.52	1.59	1.52	2.25	1.21	0.60	0.36	0.27	0.23	0.21	
14	0.06	0.13	1.44	1.32	1.42	2.23	1.17	0.59	0.35	0.26	0.23	0.21	
15	0.06	0.14	1.73	1.18	1.44	2.45	1.11	0.58	0.35	0.26	0.23	0.20	
16	0.05	0.14	1.72	1.10	2.20	2.57	1.02	0.57	0.34	0.26	0.23	0.19	
17	0.05	0.44	1.60	1.08	3.21	2.43	0.93	0.56	0.34	0.25	0.23	0.19	
18	0.05	0.46	1.33	1.06	4.03	2.12	0.88	0.55	0.34	0.25	0.23	0.19	
19	0.05	0.45	1.28	1.04	4.54	2.30	0.82	0.53	0.33	0.25	0.23	0.19	
20	0.05	0.43	1.20	0.95	4.90	2.44	0.80	0.51	0.33	0.25	0.23	0.18	
21	0.04	0.40	1.32	0.81	4.32	2.28	0.75	0.50	0.33	0.25	0.23	0.18	
22	0.04	0.35	1.41	0.87	3.44	2.21	0.71	0.50	0.34	0.25	0.23	0.18	
23	0.04	0.30	1.31	1.18	3.35	3.14	0.68	0.49	0.42	0.25	0.23	0.18	
24	0.08	0.25	1.18	1.13	4.31	3.44	0.64	0.48	0.45	0.25	0.23	0.18	
25	0.08	0.22	1.12	1.03	4.64	3.25	0.63	0.47	0.46	0.25	0.23	0.18	
26	0.12	0.26	1.01	1.16	5.61	3.05	0.61	0.46	0.46	0.25	0.23	0.18	
27	0.10	0.50	0.83	3.43	7.16	2.86	0.59	0.45	0.45	0.25	0.23	0.18	
28	0.10	0.44	0.80	3.40	7.66	2.50	0.59	0.45	0.45	0.25	0.23	0.18	
29	0.10	0.55	0.85	3.26	7.23	2.30	0.66	0.44	0.44	0.25		0.18	
30	0.09	0.50	0.85	3.24	6.37	1.92	0.75	0.44	0.44	0.25		0.18	
31		0.36		3.47	5.56		0.84		0.43	0.25		0.18	
Mean	0.07	0.24	1.03	1.43	3.88	2.91	1.07	0.59	0.39	0.28	0.23	0.20	
Max	0.12	0.55	1.73	3.47	7.66	4.80	1.70	0.87	0.46	0.43	0.24	0.23	7.66
Min	0.04	0.08	0.23	0.50	1.42	1.92	0.59	0.44	0.33	0.25	0.23	0.18	0.04

Annual Max Momentary Gage Height 7.76 M (A.D), at 15.00 Hours, on Aug 28, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -1.39 M (A.D)
Left Bank Elevation 8.09 M (A.D)
Right Bank Elevation 5.76 M (A.D), Drainage Area 3168 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.16	1.96	11.60	198.68	225.20	40.30	12.20	4.21	4.21	1.74	1.70	
2	0.20	0.16	1.96	10.00	194.00	186.20	38.08	11.40	4.21	3.87	1.74	1.70	
3	0.18	0.16	1.79	9.00	176.97	199.46	36.60	10.60	4.04	3.53	1.74	1.70	
4	0.18	0.16	1.70	8.12	164.90	194.00	35.49	9.80	4.04	3.19	1.74	1.70	
5	0.18	0.16	3.19	7.61	147.35	162.30	34.38	9.00	3.87	2.85	1.74	1.70	
6	0.16	0.16	10.20	6.76	130.42	132.90	33.64	8.29	3.87	2.51	1.74	1.70	
7	0.16	0.18	6.93	6.42	108.90	99.30	32.53	8.12	3.70	2.17	1.74	1.70	
8	0.16	0.18	8.46	5.40	83.50	77.16	29.94	7.95	3.70	1.96	1.74	1.70	
9	0.14	0.18	16.40	13.46	63.24	89.50	26.98	7.78	3.53	1.96	1.74	1.70	
10	0.14	0.18	26.24	55.56	47.20	92.59	25.50	7.61	3.36	1.91	1.74	1.66	
11	0.14	0.20	22.35	55.56	40.30	81.50	24.45	7.44	3.19	1.91	1.70	1.66	
12	0.12	1.27	29.57	46.00	37.34	72.36	23.40	7.27	3.19	1.87	1.70	1.66	
13	0.12	1.27	33.64	36.23	33.64	64.20	22.35	7.10	3.02	1.87	1.70	1.61	
14	0.12	1.27	30.68	26.24	29.94	63.24	20.95	6.93	2.85	1.83	1.70	1.61	
15	0.12	1.31	41.41	21.30	30.68	73.80	18.85	6.76	2.85	1.83	1.70	1.57	
16	0.10	1.31	41.04	18.50	61.80	79.56	15.70	6.59	2.68	1.83	1.70	1.53	
17	0.10	4.38	36.60	17.80	114.92	72.84	13.46	6.42	2.68	1.79	1.70	1.53	
18	0.10	4.72	26.61	17.10	167.03	57.96	12.40	6.25	2.68	1.79	1.70	1.53	
19	0.10	4.55	24.80	16.40	204.92	66.60	11.20	5.91	2.51	1.79	1.70	1.53	
20	0.10	4.21	22.00	13.90	233.00	73.32	10.80	5.57	2.51	1.79	1.70	1.49	
21	0.08	3.70	26.24	11.00	187.76	65.64	9.80	5.40	2.51	1.79	1.70	1.49	
22	0.08	2.85	29.57	12.20	129.18	62.28	9.00	5.40	2.68	1.79	1.70	1.49	
23	0.08	2.00	25.87	21.30	123.60	110.70	8.46	5.23	4.04	1.79	1.70	1.49	
24	0.16	1.79	21.30	19.55	186.98	129.18	7.78	5.06	4.55	1.79	1.70	1.49	
25	0.16	1.66	19.20	16.05	212.72	117.40	7.61	4.89	4.72	1.79	1.70	1.49	
26	1.23	1.83	15.35	20.60	290.68	105.30	7.27	4.72	4.72	1.79	1.70	1.49	
27	0.20	5.40	11.40	128.56	427.40	94.18	6.93	4.55	4.55	1.79	1.70	1.49	
28	0.20	4.38	10.80	126.70	475.00	76.20	6.93	4.55	4.55	1.79	1.70	1.49	
29	0.20	6.25	11.80	118.02	433.70	66.60	8.12	4.38	4.38	1.79		1.49	
30	0.18	5.40	11.80	116.78	357.56	48.84	9.80	4.38	4.38	1.79		1.49	
31		3.02		131.04	286.28		11.60		4.21	1.79		1.49	
Total	5.39	64.45	570.86	1124.76	5379.59	3040.31	600.30	207.55	111.98	66.15	48.00	49.07	11268.41 CMSDAY
Mean	0.18	2.08	19.03	36.28	173.54	101.34	19.36	6.92	3.61	2.13	1.71	1.58	30.87 CMS
Max	1.23	6.25	41.41	131.04	475.00	225.20	40.30	12.20	4.72	4.21	1.74	1.70	475.00 CMS
Min	0.08	0.16	1.70	5.40	29.94	48.84	6.93	4.38	2.51	1.79	1.70	1.49	0.08 CMS
Runoff	0.466	5.568	49.322	97.179	464.797	262.683	51.866	17.932	9.675	5.715	4.147	4.240	973.591 MCM

Momentary Peak 485.00 CMS, at 7.76 M (A.D), at 15.00 Hours, on Aug 28, 1992

Runoff Yield 9.75 Liters/Second/Square KM, Momentary Peak Yield 153.09 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

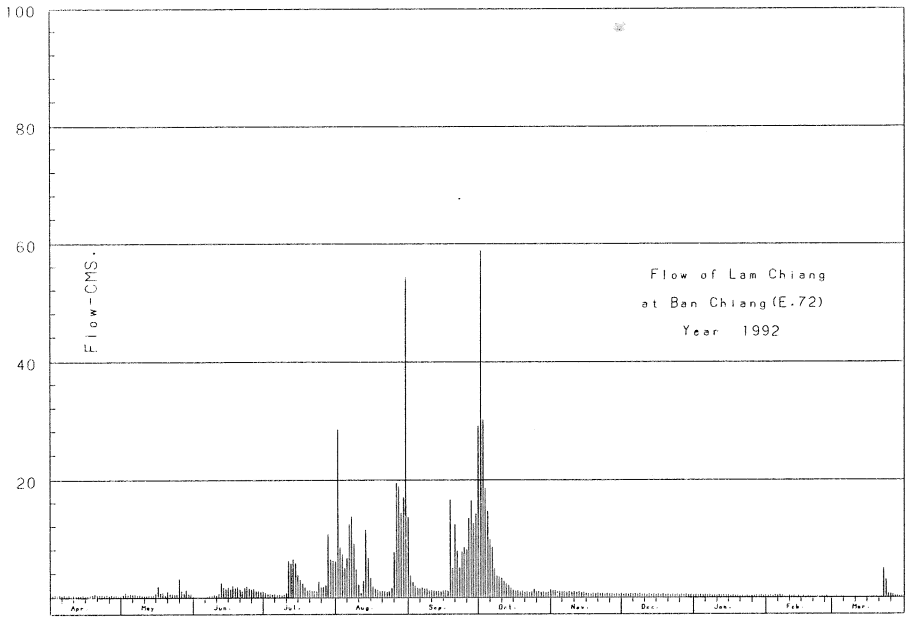
Lam Chiang at Ban Chiang, Chaiyaphum (E.72)

Location	Lat. 16-01-28 N., Long. 101-30-10 E., on right bank at Ban Chiang School, Tambon Ban Chiang, Amphoe Nong Bua Daeng, Chaiyaphum.
Drainage Area	325 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 3.00 meters from the top staff gage.
Elevation	+6.490 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	0.55	0.40	0.60	2.66	0.97	4.07	0.70	0.57	0.54	0.52	0.49	
2	0.52	0.60	0.38	0.58	1.40	0.87	2.74	0.68	0.57	0.54	0.52	0.49	
3	0.52	0.55	0.38	0.57	1.30	0.80	2.07	0.66	0.57	0.54	0.52	0.49	
4	0.52	0.55	0.36	0.56	1.11	0.76	1.82	0.65	0.57	0.54	0.53	0.49	
5	0.52	0.56	0.36	0.55	1.25	0.75	1.49	0.65	0.57	0.54	0.53	0.47	
6	0.52	0.54	0.49	0.55	1.67	0.75	1.41	0.64	0.57	0.54	0.53	0.45	
7	0.52	0.54	0.50	0.54	1.75	0.74	1.09	0.64	0.57	0.54	0.53	0.45	
8	0.52	0.53	0.52	0.54	1.45	0.73	0.98	0.64	0.57	0.53	0.53	0.44	
9	0.51	0.52	0.52	0.54	1.08	0.69	0.95	0.64	0.56	0.53	0.53	0.43	
10	0.51	0.52	0.53	0.62	0.83	0.68	0.94	0.64	0.56	0.53	0.52	0.43	
11	0.51	0.52	0.57	1.21	0.61	0.67	0.89	0.64	0.56	0.53	0.51	0.43	
12	0.51	0.51	0.86	1.18	0.88	0.67	0.83	0.64	0.56	0.53	0.51	0.43	
13	0.51	0.52	0.75	1.23	1.60	0.66	0.82	0.63	0.56	0.53	0.50	0.45	
14	0.51	0.52	0.74	1.19	1.26	0.66	0.74	0.62	0.56	0.53	0.50	0.50	
15	0.51	0.57	0.76	0.98	0.94	0.69	0.69	0.60	0.56	0.53	0.50	0.48	
16	0.50	0.80	0.73	0.90	0.78	0.68	0.68	0.58	0.56	0.52	0.50	0.48	
17	0.51	0.61	0.80	0.85	0.74	0.68	0.67	0.58	0.56	0.52	0.50	0.47	
18	0.54	0.60	0.76	0.76	0.70	1.95	0.65	0.58	0.56	0.52	0.50	0.47	
19	0.55	0.53	0.77	0.70	0.67	1.10	0.65	0.59	0.56	0.52	0.49	0.47	
20	0.54	0.63	0.73	0.69	0.66	1.67	0.64	0.59	0.55	0.51	0.49	0.46	
21	0.54	0.58	0.65	0.68	0.65	1.35	0.63	0.59	0.55	0.51	0.49	0.46	
22	0.53	0.56	0.77	0.67	0.65	1.12	0.63	0.58	0.55	0.51	0.49	1.09	
23	0.53	0.56	0.78	0.67	0.65	1.35	0.63	0.58	0.55	0.51	0.49	0.91	
24	0.53	0.55	0.75	0.87	0.76	1.40	0.73	0.58	0.55	0.51	0.49	0.63	
25	0.52	0.93	0.73	0.78	1.34	1.38	0.66	0.58	0.55	0.52	0.48	0.58	
26	0.52	0.66	0.73	0.77	2.14	1.73	0.64	0.57	0.55	0.52	0.48	0.54	
27	0.52	0.60	0.68	0.82	2.09	1.94	0.64	0.57	0.55	0.52	0.48	0.52	
28	0.51	0.69	0.66	1.55	1.79	1.67	0.63	0.57	0.55	0.52	0.48	0.50	
29	0.51	0.57	0.65	1.24	1.98	1.78	0.63	0.57	0.55	0.53		0.49	
30	0.50	0.56	0.64	1.21	3.88	2.68	0.62	0.57	0.54	0.52		0.47	
31		0.49		1.21	1.75		0.70		0.54	0.52		0.45	
Mean	0.52	0.58	0.63	0.83	1.32	1.12	1.03	0.61	0.56	0.53	0.50	0.51	
Max	0.55	0.93	0.86	1.55	3.88	2.68	4.07	0.70	0.57	0.54	0.53	1.09	4.07
Min	0.50	0.49	0.36	0.54	0.61	0.66	0.62	0.57	0.54	0.51	0.48	0.43	0.36

Annual Max Momentary Gage Height 4.38 M (A.D), at 9.00 Hours, on Aug 30, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.30 M (A.D)
Left Bank Elevation 8.21 M (A.D)
Right Bank Elevation 7.87 M (A.D), Drainage Area 325 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.55	0.10	0.80	28.70	3.70	58.95	1.30	0.65	0.50	0.40	0.28	
2	0.40	0.80	0.08	0.70	8.50	2.70	30.30	1.20	0.65	0.50	0.40	0.28	
3	0.40	0.55	0.08	0.65	7.30	2.00	18.55	1.10	0.65	0.50	0.40	0.28	
4	0.40	0.55	0.06	0.60	5.11	1.72	14.80	1.05	0.65	0.50	0.45	0.28	
5	0.40	0.60	0.06	0.55	6.70	1.65	9.85	1.05	0.65	0.50	0.45	0.24	
6	0.40	0.50	0.28	0.55	12.55	1.65	8.65	1.00	0.65	0.50	0.45	0.20	
7	0.40	0.50	0.30	0.50	13.75	1.58	4.90	1.00	0.65	0.50	0.45	0.20	
8	0.40	0.45	0.40	0.50	9.25	1.51	3.80	1.00	0.65	0.45	0.45	0.18	
9	0.35	0.40	0.40	0.50	4.80	1.25	3.50	1.00	0.60	0.45	0.45	0.16	
10	0.35	0.40	0.45	0.90	2.30	1.20	3.40	1.00	0.60	0.45	0.40	0.16	
11	0.35	0.40	0.65	6.22	0.85	1.15	2.90	1.00	0.60	0.45	0.35	0.16	
12	0.35	0.35	2.60	5.88	2.80	1.15	2.30	1.00	0.60	0.45	0.35	0.16	
13	0.35	0.40	1.65	6.46	11.50	1.10	2.20	0.95	0.60	0.45	0.30	0.20	
14	0.35	0.40	1.58	5.99	6.82	1.10	1.58	0.90	0.60	0.45	0.30	0.30	
15	0.35	0.65	1.72	3.80	3.40	1.25	1.25	0.80	0.60	0.45	0.30	0.26	
16	0.30	2.00	1.51	3.00	1.86	1.20	1.20	0.70	0.60	0.40	0.30	0.26	
17	0.35	0.85	2.00	2.50	1.58	1.20	1.15	0.70	0.60	0.40	0.30	0.24	
18	0.50	0.80	1.72	1.72	1.30	16.75	1.05	0.70	0.60	0.40	0.30	0.24	
19	0.55	0.45	1.79	1.30	1.15	5.00	1.05	0.75	0.60	0.40	0.28	0.24	
20	0.50	0.95	1.51	1.25	1.10	12.55	1.00	0.75	0.55	0.35	0.28	0.22	
21	0.50	0.70	1.05	1.20	1.05	7.90	0.95	0.75	0.55	0.35	0.28	0.22	
22	0.45	0.60	1.79	1.15	1.05	5.22	0.95	0.70	0.55	0.35	0.28	4.90	
23	0.45	0.60	1.86	1.15	1.05	7.90	0.95	0.70	0.55	0.35	0.28	3.10	
24	0.45	0.55	1.65	2.70	1.72	8.50	1.51	0.70	0.55	0.35	0.28	0.95	
25	0.40	3.30	1.51	1.86	7.78	8.26	1.10	0.70	0.55	0.40	0.26	0.70	
26	0.40	1.10	1.51	1.79	19.60	13.45	1.00	0.65	0.55	0.40	0.26	0.50	
27	0.40	0.80	1.20	2.20	18.85	16.60	1.00	0.65	0.55	0.40	0.26	0.40	
28	0.35	1.25	1.10	10.75	14.35	12.55	0.95	0.65	0.55	0.40	0.26	0.30	
29	0.35	0.65	1.05	6.58	17.20	14.20	0.95	0.65	0.55	0.45		0.28	
30	0.30	0.60	1.00	6.22	54.32	29.10	0.90	0.65	0.50	0.40		0.24	
31		0.28		6.22	13.75		1.30		0.50	0.40		0.20	
Total	11.90	22.98	32.66	86.19	282.04	185.09	183.94	25.75	18.30	13.30	9.52	16.33	888.00 CMSDAY
Mean	0.40	0.74	1.09	2.78	9.10	6.17	5.93	0.86	0.59	0.43	0.34	0.53	2.43 CMS
Max	0.55	3.30	2.60	10.75	54.32	29.10	58.95	1.30	0.65	0.50	0.45	4.90	58.95 CMS
Min	0.30	0.28	0.06	0.50	0.85	1.10	0.90	0.65	0.50	0.35	0.26	0.16	0.06 CMS
Runoff	1.028	1.985	2.822	7.447	24.368	15.992	15.892	2.225	1.581	1.149	0.823	1.411	76.723 MCM

Momentary Peak 66.78 CMS, at 4.38 M (A.D), at 9.00 Hours, on Aug 30, 1992

Runoff Yield 7.49 Liters/Second/Square KM, Momentary Peak Yield 205.48 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

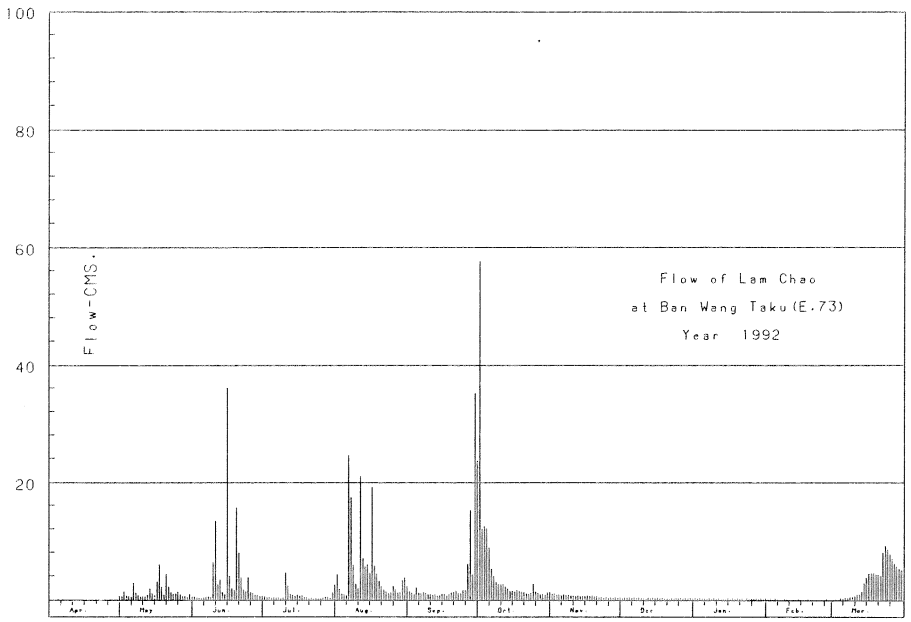
Lam Chao at Ban Wang Taku, Chaiyaphum (E.73)

Location	Lat. 15-57-02 N., Long. 101-26-46 E., on left bank at Ban Wang Taku, Tambon Ban Chiang, Amphoe Nong Bua Daeng, Chaiyaphum.
Drainage Area	267 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank in the vicinity of the station office.
Elevation	+12.487 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 40 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	0.77	0.67	0.71	1.56	1.02	5.93	0.92	0.63	0.60	0.56	0.50	
2	0.48	0.99	0.66	0.68	1.07	0.94	2.54	0.91	0.63	0.59	0.56	0.51	
3	0.47	0.81	0.58	0.65	0.92	0.90	2.61	0.88	0.64	0.58	0.55	0.54	
4	0.48	0.72	0.60	0.63	0.85	1.12	2.55	0.85	0.64	0.59	0.55	0.57	
5	0.48	0.73	0.64	0.61	0.83	0.97	2.18	0.84	0.64	0.58	0.55	0.59	
6	0.48	1.27	0.68	0.64	3.72	0.90	1.72	0.86	0.64	0.58	0.54	0.61	
7	0.47	0.96	0.75	0.61	3.11	0.99	1.49	0.84	0.64	0.58	0.53	0.63	
8	0.48	0.80	0.64	0.60	1.79	0.93	1.34	0.83	0.62	0.57	0.53	0.67	
9	0.51	0.73	1.86	0.59	1.27	0.91	1.23	0.84	0.64	0.58	0.53	0.74	
10	0.48	0.69	2.71	1.61	1.09	0.87	1.25	0.78	0.63	0.57	0.53	0.80	
11	0.49	0.67	1.24	1.18	3.42	0.86	1.24	0.79	0.63	0.57	0.53	0.85	
12	0.48	0.86	1.38	0.91	1.93	0.85	1.18	0.79	0.63	0.57	0.52	0.90	
13	0.48	1.11	0.98	0.82	1.75	0.82	1.08	0.80	0.62	0.57	0.52	1.00	
14	0.48	0.90	0.84	0.78	1.80	0.80	1.03	0.76	0.62	0.57	0.52	1.30	
15	0.47	0.84	4.59	0.83	1.60	0.92	1.01	0.80	0.62	0.57	0.53	1.45	
16	0.47	1.35	1.49	0.81	3.27	0.88	1.01	0.80	0.62	0.57	0.53	1.57	
17	0.47	1.82	1.09	0.79	1.79	0.82	1.04	0.80	0.61	0.57	0.52	1.60	
18	0.47	1.14	1.05	0.69	1.56	0.86	1.03	0.80	0.60	0.57	0.53	1.58	
19	0.46	0.86	2.92	0.64	1.37	0.97	0.98	0.77	0.59	0.57	0.53	1.56	
20	0.47	1.55	2.07	0.61	1.16	0.96	0.96	0.75	0.59	0.57	0.53	1.54	
21	0.47	1.17	1.45	0.60	1.07	1.04	0.93	0.69	0.59	0.56	0.53	1.52	
22	0.46	0.98	1.07	0.58	0.98	0.91	0.91	0.68	0.59	0.56	0.52	2.06	
23	0.46	0.87	0.98	0.56	0.94	0.94	0.93	0.66	0.60	0.56	0.51	2.22	
24	0.47	0.93	1.48	0.58	0.95	1.04	1.27	0.66	0.60	0.56	0.51	2.13	
25	0.46	0.97	0.99	0.61	1.20	1.06	1.01	0.64	0.60	0.57	0.51	2.04	
26	0.47	0.85	0.92	0.60	1.06	1.82	0.93	0.65	0.60	0.61	0.51	1.93	
27	0.47	0.77	0.86	0.72	0.96	2.89	0.89	0.65	0.60	0.57	0.50	1.84	
28	0.47	0.72	0.81	0.68	0.95	1.54	0.89	0.65	0.61	0.57	0.50	1.76	
29	0.54	0.69	0.77	0.66	1.39	4.53	0.87	0.65	0.59	0.56		1.72	
30	0.72	0.86	0.75	0.97	1.45	3.64	0.95	0.63	0.59	0.56		1.66	
31		0.75		1.22	1.17		0.98		0.60	0.56		1.61	
Mean	0.49	0.94	1.25	0.75	1.55	1.26	1.42	0.77	0.61	0.57	0.53	1.29	
Max	0.72	1.82	4.59	1.61	3.72	4.53	5.93	0.92	0.64	0.61	0.56	2.22	5.93
Min	0.46	0.67	0.58	0.56	0.83	0.80	0.87	0.63	0.59	0.56	0.50	0.50	0.46

Annual Max Momentary Gage Height 6.55 M (A.D), at 6.00 Hours, on Oct 1, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.08 M (A.D)
Left Bank Elevation 7.29 M (A.D)
Right Bank Elevation 8.06 M (A.D), Drainage Area 267 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.74	0.54	0.62	4.46	1.60	57.81	1.18	0.46	0.40	0.32	0.20	
2	0.16	1.46	0.52	0.56	1.85	1.26	12.06	1.14	0.46	0.38	0.32	0.22	
3	0.14	0.83	0.36	0.50	1.18	1.10	12.69	1.04	0.48	0.36	0.30	0.28	
4	0.16	0.64	0.40	0.46	0.95	2.10	12.15	0.95	0.48	0.38	0.30	0.34	
5	0.16	0.66	0.48	0.42	0.89	1.38	9.04	0.92	0.48	0.36	0.30	0.38	
6	0.16	2.85	0.56	0.48	24.64	1.10	5.44	0.98	0.48	0.36	0.28	0.42	
7	0.14	1.34	0.70	0.42	17.61	1.46	4.04	0.92	0.48	0.36	0.26	0.46	
8	0.16	0.80	0.48	0.40	5.93	1.22	3.20	0.89	0.44	0.34	0.26	0.54	
9	0.22	0.66	6.48	0.38	2.85	1.14	2.65	0.92	0.48	0.36	0.26	0.68	
10	0.16	0.58	13.60	4.76	1.95	1.01	2.75	0.76	0.46	0.34	0.26	0.80	
11	0.18	0.54	2.70	2.40	21.04	0.98	2.70	0.78	0.46	0.34	0.26	0.95	
12	0.16	0.98	3.40	1.14	7.04	0.95	2.40	0.78	0.46	0.34	0.24	1.10	
13	0.16	2.05	1.42	0.86	5.65	0.86	1.90	0.80	0.44	0.34	0.24	1.50	
14	0.16	1.10	0.92	0.76	6.00	0.80	1.65	0.72	0.44	0.34	0.24	3.00	
15	0.14	0.92	36.25	0.89	4.70	1.18	1.55	0.80	0.44	0.34	0.26	3.80	
16	0.14	3.25	4.04	0.83	19.37	1.04	1.55	0.80	0.44	0.34	0.26	4.52	
17	0.14	6.16	1.95	0.78	5.93	0.86	1.70	0.80	0.42	0.34	0.24	4.70	
18	0.14	2.20	1.75	0.58	4.46	0.98	1.65	0.80	0.40	0.34	0.26	4.58	
19	0.12	0.98	15.70	0.48	3.35	1.38	1.42	0.74	0.38	0.34	0.26	4.46	
20	0.14	4.40	8.16	0.42	2.30	1.34	1.34	0.70	0.38	0.34	0.26	4.34	
21	0.14	2.35	3.80	0.40	1.85	1.70	1.22	0.58	0.38	0.32	0.26	4.22	
22	0.12	1.42	1.85	0.36	1.42	1.14	1.14	0.56	0.38	0.32	0.24	8.08	
23	0.12	1.01	1.42	0.32	1.26	1.26	1.22	0.52	0.40	0.32	0.22	9.36	
24	0.14	1.22	3.98	0.36	1.30	1.70	2.85	0.52	0.40	0.32	0.22	8.64	
25	0.12	1.38	1.46	0.42	2.50	1.80	1.55	0.48	0.40	0.34	0.22	7.92	
26	0.14	0.95	1.18	0.40	1.80	6.16	1.22	0.50	0.40	0.42	0.22	7.04	
27	0.14	0.74	0.98	0.64	1.34	15.40	1.07	0.50	0.40	0.34	0.20	6.32	
28	0.14	0.64	0.83	0.56	1.30	4.34	1.07	0.50	0.42	0.34	0.20	5.72	
29	0.28	0.58	0.74	0.52	3.45	35.35	1.01	0.50	0.38	0.32		5.44	
30	0.64	0.98	0.70	1.38	3.80	23.68	1.30	0.46	0.38	0.32		5.06	
31		0.70		2.60	2.35		1.42		0.40	0.32		4.76	
Total	5.10	45.11	117.35	26.10	164.52	116.27	154.76	22.54	13.30	10.72	7.16	109.83	792.76 CMSDAY
Mean	0.17	1.46	3.91	0.84	5.31	3.88	4.99	0.75	0.43	0.35	0.26	3.54	2.17 CMS
Max	0.64	6.16	36.25	4.76	24.64	35.35	57.81	1.18	0.48	0.42	0.32	9.36	57.81 CMS
Min	0.12	0.54	0.36	0.32	0.89	0.80	1.01	0.46	0.38	0.32	0.20	0.20	0.12 CMS
Runoff	0.441	3.898	10.139	2.255	14.215	10.046	13.371	1.947	1.149	0.926	0.619	9.489	68.494 MCM

Momentary Peak 69.15 CMS, at 6.55 M (A.D), at 6.00 Hours, on Oct 1, 1992

Runoff Yield 8.13 Liters/Second/Square KM, Momentary Peak Yield 258.99 Liters/Second/Square KM

WATER YEAR 1992

CHI RIVER BASIN

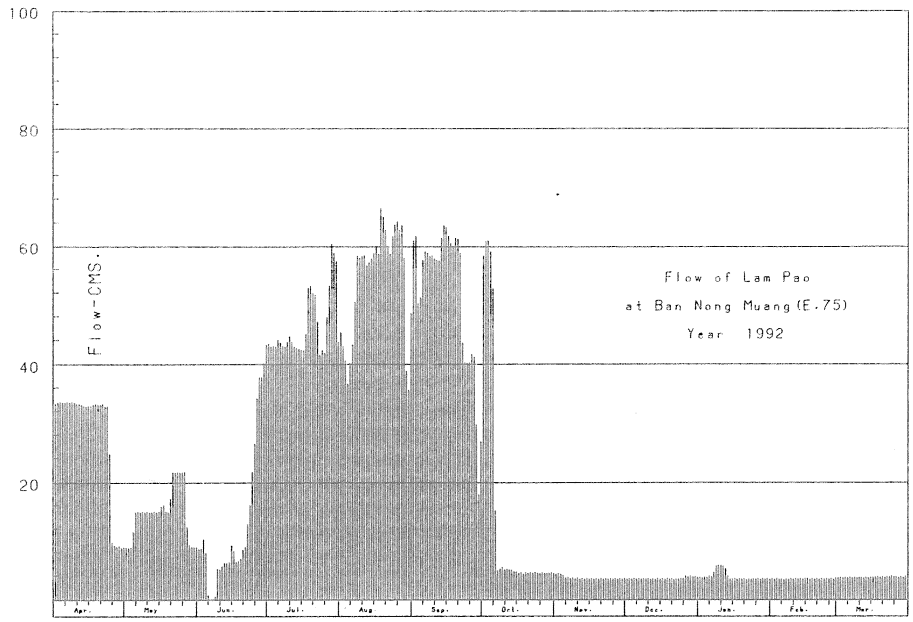
Lam Pao at Ban Nong Muang, Kalasin (E.75)

Location	Lat. 16°-34'-36" N., Long. 103°-26'-32" E., on left bank about 3 kilometers downstream from Lam Pao Damsite, Tambon Lam Pao, Amphoe Muang, Kalasin.
Drainage Area	6,054 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+138.02 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 50 meters from the top staff gage.
Elevation	+149.762 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 109 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.08	139.28	139.27	140.37	140.43	140.83	140.77	139.03	138.96	138.98	138.96	138.98	
2	140.09	139.28	139.27	140.36	140.36	140.85	140.83	139.03	138.96	138.98	138.96	138.98	
3	140.09	139.28	139.35	140.36	140.29	140.56	140.83	139.03	138.96	138.98	138.96	138.98	
4	140.09	139.41	139.24	140.36	140.18	140.59	140.79	139.01	138.96	138.99	138.96	138.98	
5	140.09	139.55	138.68	140.39	140.28	140.75	140.63	138.98	138.96	139.00	138.95	138.98	
6	140.09	139.55	138.55	140.38	140.37	140.79	139.56	138.98	138.96	139.00	138.95	138.98	
7	140.09	139.55	138.53	140.36	140.57	140.78	139.06	138.97	138.96	139.04	138.95	138.98	
8	140.09	139.55	138.66	140.36	140.77	140.77	139.09	138.97	138.96	139.12	138.96	138.98	
9	140.09	139.55	139.08	140.38	140.76	140.77	139.10	138.97	138.96	139.12	138.96	138.98	
10	140.08	139.55	139.08	140.41	140.77	140.76	139.08	138.97	138.96	139.13	138.96	138.98	
11	140.08	139.55	139.11	140.38	140.77	140.75	139.08	138.96	138.96	139.11	138.96	138.98	
12	140.08	139.55	139.15	140.36	140.73	140.75	139.08	138.96	138.96	139.09	138.96	138.98	
13	140.07	139.55	139.14	140.35	140.74	140.84	139.07	138.96	138.96	139.00	138.96	138.98	
14	140.07	139.55	139.15	140.35	140.76	140.89	139.06	138.96	138.96	138.96	138.96	138.98	
15	140.07	139.55	139.30	140.34	140.78	140.88	139.05	138.96	138.96	138.96	138.96	138.98	
16	140.07	139.58	139.25	140.34	140.81	140.85	139.04	138.96	138.96	138.96	138.96	138.98	
17	140.08	139.59	139.16	140.42	140.78	140.82	139.04	138.96	138.96	138.96	138.96	138.99	
18	140.08	139.55	139.16	140.63	141.02	140.81	139.03	138.96	138.96	138.96	138.96	138.99	
19	140.08	139.55	139.19	140.64	140.95	140.84	139.04	138.96	138.96	138.96	138.96	138.99	
20	140.08	139.62	139.26	140.61	140.87	140.84	139.04	138.96	138.96	138.96	138.96	138.99	
21	140.08	139.75	139.29	140.60	140.81	140.78	139.04	138.96	138.95	138.95	138.96	138.99	
22	140.07	139.75	139.47	140.48	140.78	140.38	139.04	138.96	138.95	138.95	138.96	138.99	
23	140.07	139.75	139.59	140.32	140.85	140.28	139.04	138.96	138.96	138.96	138.96	139.00	
24	139.84	139.75	139.75	140.34	140.89	140.28	139.04	138.96	138.96	138.96	138.96	139.00	
25	139.32	139.75	139.89	140.33	140.91	140.28	139.04	138.96	138.97	138.96	138.96	139.00	
26	139.30	139.75	140.11	140.50	140.87	140.32	139.04	138.96	139.00	138.96	138.96	138.99	
27	139.29	139.45	140.21	140.64	140.89	140.31	139.04	138.96	139.00	138.96	138.96	138.99	
28	139.29	139.30	140.21	140.82	140.76	139.98	139.03	138.96	139.00	138.96	138.97	138.99	
29	139.28	139.29	140.28	140.78	140.24	139.64	139.04	138.96	139.00	138.96		138.99	
30	139.28	139.28	140.37	140.75	140.15	139.90	139.04	138.96	138.99	138.96		139.00	
31		139.28		140.38	140.52		139.03		138.99	138.96		139.00	
Mean	139.92	139.53	139.36	140.45	140.67	140.60	139.34	138.97	138.97	138.99	138.96	138.99	
Max	140.09	139.75	140.37	140.82	141.02	140.89	140.83	139.03	139.00	139.13	138.97	139.00	141.02
Min	139.28	139.28	138.53	140.32	140.15	139.64	139.03	138.96	138.95	138.95	138.95	138.98	138.53

Annual Max Momentary Gage Height 141.21 M (MSL), at 15.00 Hours, on Aug 18, 1992
Zero Gage at Bottom Elevation 138.02 M (MSL), River Bed 137.26 M (MSL)
Left Bank Elevation 149.25 M (MSL)
Right Bank Elevation 149.81 M (MSL), Drainage Area 6054 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.30	8.88	8.67	43.45	45.55	60.95	58.40	4.45	3.60	3.80	3.60	3.80	
2	33.65	8.88	8.67	43.10	43.10	61.85	60.95	4.45	3.60	3.80	3.60	3.80	
3	33.65	8.88	10.35	43.10	40.65	50.28	60.95	4.45	3.60	3.80	3.60	3.80	
4	33.65	11.61	8.04	43.10	36.80	51.42	59.20	4.15	3.60	3.90	3.60	3.80	
5	33.65	15.00	0.80	44.15	40.30	57.60	52.94	3.80	3.60	4.00	3.50	3.80	
6	33.65	15.00	0.00	43.80	43.45	59.20	15.30	3.80	3.60	4.00	3.50	3.80	
7	33.65	15.00	0.00	43.10	50.66	58.80	4.90	3.70	3.60	4.60	3.50	3.80	
8	33.65	15.00	0.60	43.10	58.40	58.40	5.35	3.70	3.60	5.84	3.60	3.80	
9	33.65	15.00	5.20	43.80	58.00	58.40	5.50	3.70	3.60	5.84	3.60	3.80	
10	33.30	15.00	5.20	44.85	58.40	58.00	5.20	3.70	3.60	6.01	3.60	3.80	
11	33.30	15.00	5.67	43.80	58.40	57.60	5.20	3.60	3.60	5.67	3.60	3.80	
12	33.30	15.00	6.35	43.10	56.80	57.60	5.20	3.60	3.60	5.35	3.60	3.80	
13	32.95	15.00	6.18	42.75	57.20	61.40	5.05	3.60	3.60	4.00	3.60	3.80	
14	32.95	15.00	6.35	42.75	58.00	63.65	4.90	3.60	3.60	3.60	3.60	3.80	
15	32.95	15.00	9.30	42.40	58.80	63.20	4.75	3.60	3.60	3.60	3.60	3.80	
16	32.95	15.90	8.25	42.40	60.05	61.85	4.60	3.60	3.60	3.60	3.60	3.80	
17	33.30	16.20	6.52	45.20	58.80	60.50	4.60	3.60	3.60	3.60	3.60	3.90	
18	33.30	15.00	6.52	52.94	66.50	60.05	4.45	3.60	3.60	3.60	3.60	3.90	
19	33.30	15.00	7.03	53.32	65.10	61.40	4.60	3.60	3.60	3.60	3.60	3.90	
20	33.30	17.20	8.46	52.18	62.75	61.40	4.60	3.60	3.60	3.60	3.60	3.90	
21	33.30	21.75	9.09	51.80	60.05	58.80	4.60	3.60	3.50	3.50	3.60	3.90	
22	32.95	21.75	12.87	47.30	58.80	43.80	4.60	3.60	3.50	3.50	3.60	3.90	
23	32.95	21.75	16.20	41.70	61.85	40.30	4.60	3.60	3.60	3.60	3.60	4.00	
24	24.90	21.75	21.75	42.40	63.65	40.30	4.60	3.60	3.60	3.60	3.60	4.00	
25	9.72	21.75	26.65	42.05	64.30	40.30	4.60	3.60	3.70	3.60	3.60	4.00	
26	9.30	21.75	34.35	48.00	62.75	41.70	4.60	3.60	4.00	3.60	3.60	3.90	
27	9.09	12.45	37.85	53.32	63.65	41.35	4.60	3.60	4.00	3.60	3.60	3.90	
28	9.09	9.30	37.85	60.50	58.00	29.80	4.45	3.60	4.00	3.60	3.70	3.90	
29	8.88	9.09	40.30	58.80	38.90	17.90	4.60	3.60	4.00	3.60		3.90	
30	8.88	8.88	43.45	57.60	35.75	27.00	4.60	3.60	3.90	3.60		4.00	
31		8.88		43.80	48.76		4.45		3.90	3.60		4.00	
Total	846.46	461.65	398.52	1443.66	1694.17	1564.80	426.94	111.90	113.70	125.21	100.60	119.80	7407.41 CMSDAY
Mean	28.22	14.89	13.28	46.57	54.65	52.16	13.77	3.73	3.67	4.04	3.59	3.86	20.29 CMS
Max	33.65	21.75	43.45	60.50	66.50	63.65	60.95	4.45	4.00	6.01	3.70	4.00	66.50 CMS
Min	8.88	8.88	0.00	41.70	35.75	17.90	4.45	3.60	3.50	3.50	3.50	3.80	0.00 CMS
Runoff	73.134	39.887	34.432	124.732	146.376	135.199	36.888	9.668	9.824	10.818	8.692	10.351	640.000 MCM

Momentary Peak 70.30 CMS, at 141.21 M (MSL), at 15.00 Hours, on Aug 18, 1992

Runoff Yield 3.35 Liters/Second/Square KM, Momentary Peak Yield 11.61 Liters/Second/Square KM

WATER YEAR 1992

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 + 4.19 m.(A.D.), records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 111 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

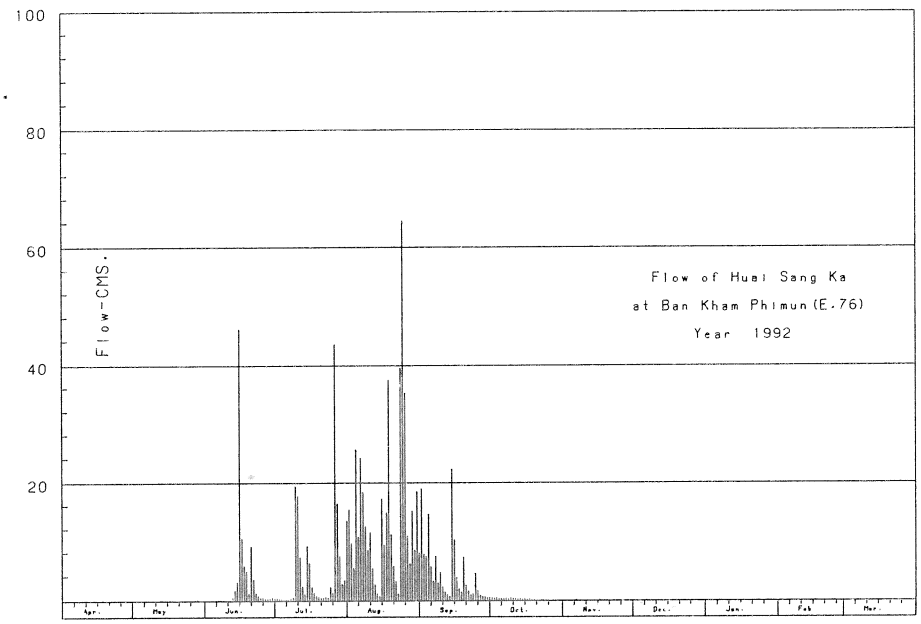
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.03	0.29	2.13	2.43	0.32	0.12	0.05	0.04	0.00	0.00	
2	0.00	0.00	0.07	0.26	1.54	1.35	0.32	0.10	0.04	0.03	0.00	0.00	
3	0.00	0.00	0.20	0.22	1.08	1.29	0.32	0.10	0.04	0.03	0.02	0.00	
4	0.00	0.00	0.11	0.19	2.92	2.07	0.30	0.09	0.05	0.03	0.02	0.00	
5	0.00	0.00	0.16	0.18	1.68	1.11	0.29	0.13	0.04	0.04	0.02	0.00	
6	0.00	0.00	0.05	0.16	2.81	0.84	0.28	0.10	0.05	0.04	0.02	0.00	
7	0.00	0.00	0.09	0.27	2.39	1.30	0.28	0.08	0.06	0.05	0.02	0.00	
8	0.00	0.00	0.09	0.38	1.86	0.80	0.27	0.07	0.05	0.04	0.02	0.00	
9	0.00	0.00	0.06	2.47	1.42	0.99	0.31	0.07	0.05	0.03	0.02	0.00	
10	0.00	0.00	0.06	2.33	1.75	0.72	0.30	0.09	0.05	0.03	0.02	0.00	
11	0.00	0.00	0.06	1.28	1.07	0.60	0.28	0.08	0.05	0.05	0.02	0.00	
12	0.00	0.00	0.36	0.74	0.77	0.49	0.25	0.09	0.04	0.05	0.02	0.00	
13	0.00	0.00	0.64	0.51	0.53	0.42	0.25	0.10	0.06	0.04	0.02	0.00	
14	0.00	0.00	0.81	1.50	0.44	2.68	0.24	0.10	0.05	0.04	0.02	0.00	
15	0.00	0.00	4.15	1.18	2.29	1.62	0.25	0.08	0.04	0.04	0.02	0.00	
16	0.00	0.00	1.65	0.73	1.51	0.91	0.22	0.09	0.04	0.03	0.02	0.00	
17	0.00	0.07	1.13	0.56	2.09	0.69	0.21	0.07	0.04	0.02	0.03	0.00	
18	0.00	0.04	1.01	0.45	3.66	0.58	0.20	0.07	0.03	0.02	0.03	0.00	
19	0.00	0.03	0.55	0.39	1.72	1.28	0.18	0.08	0.05	0.02	0.01	0.00	
20	0.00	0.04	1.49	0.33	1.12	0.75	0.18	0.06	0.04	0.02	0.01	0.00	
21	0.00	0.03	0.87	0.30	0.82	0.63	0.17	0.05	0.04	0.02	0.00	0.00	
22	0.00	0.02	0.56	0.38	0.54	0.51	0.15	0.06	0.04	0.02	0.00	0.00	
23	0.00	0.01	0.43	0.35	3.78	0.52	0.12	0.04	0.03	0.02	0.00	0.00	
24	0.00	0.04	0.35	0.73	5.12	0.99	0.12	0.04	0.04	0.02	0.00	0.00	
25	0.00	0.11	0.32	0.55	3.53	0.62	0.11	0.06	0.06	0.02	0.00	0.00	
26	0.00	0.06	0.28	4.00	1.68	0.49	0.10	0.05	0.08	0.02	0.00	0.00	
27	0.00	0.20	0.27	2.23	1.17	0.43	0.09	0.06	0.06	0.02	0.00	0.00	
28	0.00	0.13	0.28	1.29	2.11	0.40	0.08	0.06	0.05	0.02	0.00	0.00	
29	0.00	0.11	0.32	0.78	1.43	0.35	0.08	0.05	0.05	0.02		0.00	
30	0.00	0.07	0.30	0.84	2.40	0.34	0.10	0.05	0.04	0.00		0.00	
31		0.04		1.97	1.36		0.13		0.05	0.00		0.00	
Mean	0.00	0.03	0.56	0.90	1.89	0.94	0.21	0.08	0.05	0.03	0.01	0.00	
Max	0.00	0.20	4.15	4.00	5.12	2.68	0.32	0.13	0.08	0.05	0.03	0.00	5.12
Min	0.00	0.00	0.03	0.16	0.44	0.34	0.08	0.04	0.03	0.00	0.00	0.00	0.00

Annual Max Momentary Gage Height — 5.78 M (A.D), at 17.00 Hours, on Aug 24, 1992

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

Left Bank Elevation — 4.63 M (A.D)

Right Bank Elevation — 4.18 M (A.D), Drainage Area 163 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.03	0.38	15.43	18.99	0.44	0.12	0.05	0.04	0.00	0.00	
2	0.00	0.00	0.07	0.32	9.66	7.95	0.44	0.10	0.04	0.03	0.00	0.00	
3	0.00	0.00	0.20	0.24	5.52	7.41	0.44	0.10	0.04	0.03	0.02	0.00	
4	0.00	0.00	0.11	0.19	25.80	14.77	0.40	0.09	0.05	0.03	0.02	0.00	
5	0.00	0.00	0.16	0.18	10.92	5.79	0.38	0.13	0.04	0.04	0.02	0.00	
6	0.00	0.00	0.05	0.16	24.24	3.36	0.36	0.10	0.05	0.04	0.02	0.00	
7	0.00	0.00	0.09	0.34	18.48	7.50	0.36	0.08	0.06	0.05	0.02	0.00	
8	0.00	0.00	0.09	0.56	12.54	3.00	0.34	0.07	0.05	0.04	0.02	0.00	
9	0.00	0.00	0.06	19.51	8.58	4.71	0.42	0.07	0.05	0.03	0.02	0.00	
10	0.00	0.00	0.06	17.76	11.55	2.28	0.40	0.09	0.05	0.03	0.02	0.00	
11	0.00	0.00	0.06	7.32	5.43	1.50	0.36	0.08	0.05	0.05	0.02	0.00	
12	0.00	0.00	0.52	2.46	2.73	0.96	0.30	0.09	0.04	0.05	0.02	0.00	
13	0.00	0.00	1.74	1.05	1.15	0.68	0.30	0.10	0.06	0.04	0.02	0.00	
14	0.00	0.00	3.09	9.30	0.76	22.42	0.28	0.10	0.05	0.04	0.02	0.00	
15	0.00	0.00	46.30	6.42	17.28	10.38	0.30	0.08	0.04	0.03	0.02	0.00	
16	0.00	0.00	10.65	2.37	9.39	3.99	0.24	0.09	0.04	0.02	0.03	0.00	
17	0.00	0.07	5.97	1.30	14.99	2.04	0.22	0.07	0.03	0.02	0.03	0.00	
18	0.00	0.04	4.89	0.80	37.52	1.40	0.20	0.07	0.05	0.02	0.01	0.00	
19	0.00	0.03	1.25	0.58	11.28	7.32	0.18	0.08	0.05	0.02	0.01	0.00	
20	0.00	0.04	9.21	0.46	5.88	2.55	0.18	0.06	0.04	0.02	0.00	0.00	
21	0.00	0.03	3.63	0.40	3.18	1.68	0.17	0.05	0.04	0.02	0.00	0.00	
22	0.00	0.02	1.30	0.56	1.20	1.05	0.15	0.06	0.04	0.02	0.00	0.00	
23	0.00	0.01	0.72	0.50	39.64	1.10	0.12	0.04	0.03	0.02	0.00	0.00	
24	0.00	0.04	0.50	2.37	64.66	4.71	0.12	0.04	0.04	0.02	0.00	0.00	
25	0.00	0.11	0.44	1.25	35.31	1.62	0.11	0.06	0.06	0.02	0.00	0.00	
26	0.00	0.06	0.36	43.60	10.92	0.96	0.10	0.05	0.08	0.02	0.00	0.00	
27	0.00	0.20	0.34	16.56	6.33	0.72	0.09	0.06	0.06	0.02	0.00	0.00	
28	0.00	0.13	0.36	7.41	15.21	0.60	0.08	0.06	0.05	0.02	0.00	0.00	
29	0.00	0.11	0.44	2.82	8.67	0.50	0.08	0.05	0.05	0.02		0.00	
30	0.00	0.07	0.40	3.36	18.60	0.48	0.10	0.05	0.04	0.00		0.00	
31		0.04		13.67	8.04		0.13		0.05	0.00		0.00	
Total	0.00	1.00	93.09	164.20	460.89	142.42	7.79	2.29	1.47	0.85	0.34	0.00	874.34 CMSDAY
Mean	0.00	0.03	3.10	5.30	14.87	4.75	0.25	0.08	0.05	0.03	0.01	0.00	2.40 CMS
Max	0.00	0.20	46.30	43.60	64.66	22.42	0.44	0.13	0.08	0.05	0.03	0.00	64.66 CMS
Min	0.00	0.00	0.03	0.16	0.76	0.48	0.08	0.04	0.03	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.086	8.043	14.187	39.821	12.305	0.673	0.198	0.127	0.073	0.029	0.000	75.543 MCM

Momentary Peak 79.84 CMS, at 5.78 M (A.D), at 17.00 Hours, on Aug 24, 1992
Runoff Yield 14.70 Liters/Second/Square KM, Momentary Peak Yield 489.82 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

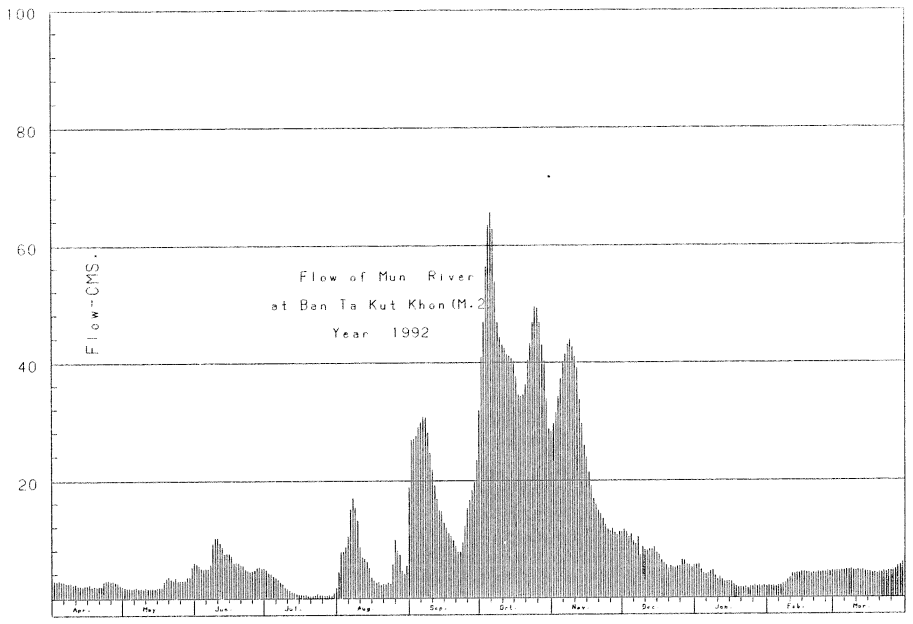
Mun River at Ban Ta Kut Khon, Nakhon Ratchasima (M.2)

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 good. Stage-discharge relation defined by 72 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.76	159.56	160.13	160.00	159.97	161.55	162.46	161.68	160.63	160.10	159.61	159.97	
2	159.76	159.56	160.09	159.95	160.31	161.55	163.03	161.78	160.61	160.12	159.60	159.97	
3	159.76	159.54	160.04	159.91	160.33	161.58	163.51	161.91	160.53	160.01	159.59	159.97	
4	159.75	159.55	160.01	159.88	160.39	161.65	163.78	162.06	160.58	159.91	159.59	159.97	
5	159.73	159.56	160.04	159.84	160.55	161.69	163.86	162.27	160.47	159.91	159.60	159.99	
6	159.71	159.56	160.02	159.79	160.88	161.74	163.76	162.52	160.43	159.91	159.63	159.99	
7	159.70	159.54	160.12	159.73	161.01	161.74	163.40	162.72	160.54	159.96	159.65	160.00	
8	159.69	159.52	160.44	159.66	160.90	161.61	163.03	162.79	160.26	160.00	159.70	160.00	
9	159.67	159.53	160.53	159.59	160.75	161.43	162.82	162.68	160.40	159.88	159.76	159.99	
10	159.66	159.55	160.52	159.51	160.39	161.28	162.71	162.45	160.34	159.80	159.83	159.98	
11	159.63	159.54	160.46	159.46	160.24	161.13	162.64	162.16	160.34	159.84	159.90	159.98	
12	159.61	159.54	160.39	159.43	160.21	160.99	162.53	161.89	160.35	159.80	159.91	159.98	
13	159.61	159.53	160.29	159.39	160.17	160.87	162.47	161.68	160.36	159.71	159.92	159.98	
14	159.62	159.54	160.29	159.36	160.04	160.85	162.41	161.50	160.38	159.74	159.93	159.96	
15	159.64	159.55	160.30	159.33	159.85	160.72	162.26	161.39	160.31	159.72	159.94	159.94	
16	159.65	159.56	160.25	159.30	159.76	160.65	162.08	161.26	160.27	159.71	159.94	159.94	
17	159.60	159.58	160.15	159.30	159.72	160.59	161.93	161.12	160.19	159.66	159.95	159.93	
18	159.60	159.73	160.14	159.29	159.72	160.54	161.91	161.00	160.13	159.58	159.93	159.92	
19	159.60	159.83	160.15	159.25	159.66	160.49	161.93	160.93	160.11	159.56	159.92	159.92	
20	159.60	159.85	160.10	159.22	159.66	160.40	162.01	160.87	160.01	159.54	159.92	159.93	
21	159.62	159.80	160.09	159.24	159.67	160.31	162.33	160.82	160.09	159.56	159.93	159.94	
22	159.73	159.78	160.02	159.28	159.70	160.32	162.72	160.77	160.04	159.56	159.94	159.95	
23	159.78	159.83	159.98	159.34	159.69	160.46	163.03	160.69	160.05	159.54	159.94	159.95	
24	159.77	159.77	159.97	159.31	160.11	160.67	163.19	160.64	160.06	159.57	159.94	159.96	
25	159.76	159.75	159.97	159.28	160.50	160.89	163.18	160.62	160.09	159.60	159.95	159.98	
26	159.75	159.75	160.01	159.27	160.33	160.98	163.02	160.64	160.19	159.62	159.96	159.99	
27	159.73	159.79	160.06	159.27	160.28	161.08	162.71	160.60	160.17	159.60	159.96	160.01	
28	159.69	159.84	160.06	159.28	159.98	161.16	162.29	160.56	160.11	159.60	159.96	160.06	
29	159.65	159.86	160.04	159.27	159.92	161.37	161.89	160.61	160.09	159.60		160.10	
30	159.59	160.07	160.03	159.36	160.08	161.79	161.64	160.60	160.05	159.60		160.13	
31		160.14		159.54	161.11		161.61		160.09	159.60		160.23	
Mean	159.68	159.68	160.16	159.47	160.19	161.07	162.65	161.44	160.27	159.74	159.84	159.99	
Max	159.78	160.14	160.53	160.00	161.11	161.79	163.86	162.79	160.63	160.12	159.96	160.23	163.86
Min	159.59	159.52	159.97	159.22	159.66	160.31	161.61	160.56	160.01	159.54	159.59	159.92	159.22

Annual Max Momentary Gage Height 163.88 M (MSL), at 14.00 Hours, on Oct 5, 1992
Zero Gage at Bottom Elevation 157.85 M (MSL), River Bed 158.82 M (MSL)
Left Bank Elevation 165.95 M (MSL)
Right Bank Elevation 164.28 M (MSL), Drainage Area 4800 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.96	1.80	5.90	4.80	4.56	27.00	41.04	29.60	11.62	5.60	2.06	4.56	
2	2.96	1.80	5.52	4.40	7.81	27.00	46.95	31.60	11.34	5.80	2.00	4.56	
3	2.96	1.70	5.12	4.08	8.03	27.60	56.45	34.20	10.36	4.88	1.95	4.56	
4	2.90	1.75	4.88	3.84	8.69	29.00	63.36	37.20	10.96	4.08	1.95	4.56	
5	2.78	1.80	5.12	3.52	10.60	29.80	65.64	40.28	9.64	4.08	2.00	4.72	
6	2.66	1.80	4.96	3.14	15.12	30.80	62.82	41.38	9.16	4.08	2.18	4.72	
7	2.60	1.70	5.80	2.78	17.17	30.80	54.00	43.22	10.48	4.48	2.30	4.80	
8	2.54	1.60	9.28	2.36	15.40	28.20	46.95	43.99	7.26	4.80	2.60	4.80	
9	2.42	1.65	10.36	1.95	13.30	24.67	44.32	42.82	8.80	3.84	2.96	4.72	
10	2.36	1.75	10.24	1.55	8.69	21.84	43.11	41.00	8.14	3.20	3.44	4.64	
11	2.18	1.70	9.52	1.30	7.04	19.21	42.46	39.20	8.14	3.52	4.00	4.64	
12	2.06	1.70	8.69	1.15	6.71	16.84	41.47	33.80	8.25	3.20	4.08	4.64	
13	2.06	1.65	7.59	0.96	6.30	14.98	41.08	29.60	8.36	2.66	4.16	4.64	
14	2.12	1.70	7.59	0.84	5.12	14.70	40.84	26.00	8.58	2.84	4.24	4.48	
15	2.24	1.75	7.70	0.72	3.60	12.88	40.24	23.91	7.81	2.72	4.32	4.32	
16	2.30	1.80	7.15	0.60	2.96	11.90	37.60	21.48	7.37	2.66	4.32	4.32	
17	2.00	1.90	6.10	0.60	2.72	11.08	34.60	19.04	6.50	2.36	4.40	4.24	
18	2.00	2.78	6.00	0.57	2.72	10.48	34.20	17.00	5.90	1.90	4.24	4.16	
19	2.00	3.44	6.10	0.45	2.36	9.88	34.60	15.88	5.70	1.80	4.16	4.16	
20	2.00	3.60	5.60	0.36	2.36	8.80	36.20	14.98	4.88	1.70	4.16	4.24	
21	2.12	3.20	5.52	0.42	2.42	7.81	40.52	14.28	5.52	1.80	4.24	4.32	
22	2.78	3.08	4.96	0.54	2.60	7.92	43.22	13.58	5.12	1.80	4.32	4.40	
23	3.08	3.44	4.64	0.76	2.54	9.52	46.95	12.46	5.20	1.70	4.32	4.40	
24	3.02	3.02	4.56	0.64	5.70	12.18	49.53	11.76	5.28	1.85	4.32	4.48	
25	2.96	2.90	4.56	0.54	10.00	15.26	49.36	11.48	5.52	2.00	4.40	4.64	
26	2.90	2.90	4.88	0.51	8.03	16.68	46.80	11.76	6.50	2.12	4.48	4.72	
27	2.78	3.14	5.28	0.51	7.48	18.36	43.11	11.20	6.30	2.00	4.48	4.88	
28	2.54	3.52	5.28	0.54	4.64	19.72	40.36	10.72	5.70	2.00	4.48	5.28	
29	2.30	3.68	5.12	0.51	4.16	23.53	33.80	11.34	5.52	2.00		5.60	
30	1.95	5.36	5.04	0.84	5.44	31.80	28.80	11.20	5.20	2.00		5.90	
31		6.00		1.70	18.87		28.20		5.52	2.00		6.93	
Total	74.53	79.61	189.06	47.48	223.14	570.24	1358.58	745.96	230.63	91.47	100.56	146.03	3857.29 CMSDAY
Mean	2.48	2.57	6.30	1.53	7.20	19.01	43.83	24.87	7.44	2.95	3.59	4.71	10.57 CMS
Max	3.08	6.00	10.36	4.80	18.87	31.80	65.64	43.99	11.62	5.80	4.48	6.93	65.64 CMS
Min	1.95	1.60	4.56	0.36	2.36	7.81	28.20	10.72	4.88	1.70	1.95	4.16	0.36 CMS
Runoff	6.439	6.878	16.335	4.102	19.279	49.269	117.381	64.451	19.926	7.903	8.688	12.617	333.270 MCM

Momentary Peak 66.22 CMS, at 163.88 M (MSL), at 14.00 Hours, on Oct 5, 1992

Runoff Yield 2.20 Liters/Second/Square KM, Momentary Peak Yield 13.80 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

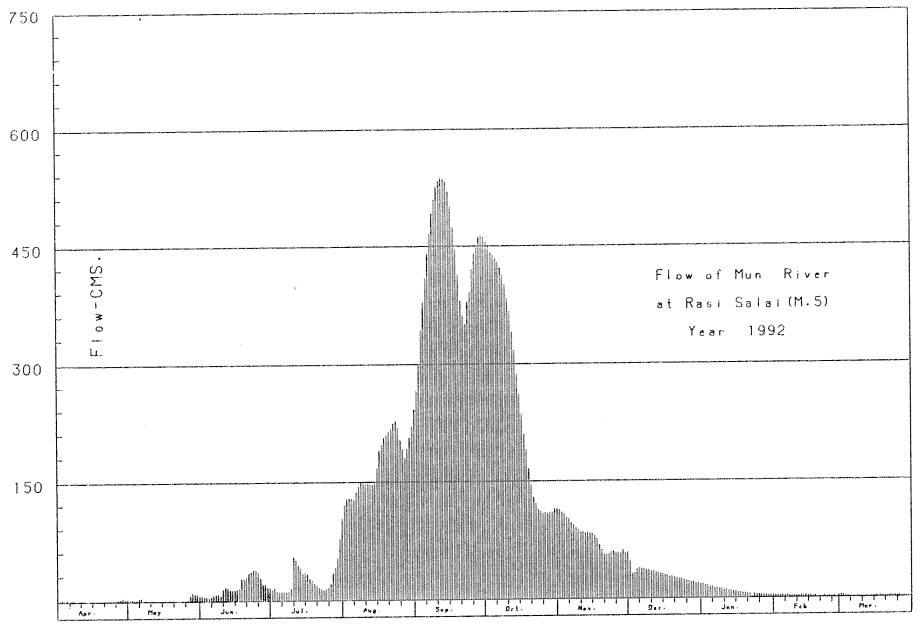
Mun River at Rasi Salai, Si Sa Ket (M.5)

Location	Lat. 15°-20'-16" N., Long. 104°-09'-29" E., on left bank infront of Amphoe Rasi Salai Office, Si Sa Ket.
Drainage Area	44,275 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+110.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank 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.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.11	110.11	110.23	110.41	111.94	113.43	115.05	111.85	110.99	110.50	110.15	110.17	
2	110.10	110.11	110.21	110.45	112.03	113.73	115.00	111.82	110.77	110.49	110.14	110.14	
3	110.09	110.10	110.19	110.37	112.05	114.13	114.95	111.78	110.77	110.47	110.14	110.12	
4	110.08	110.15	110.17	110.34	112.04	114.43	114.92	111.74	110.86	110.44	110.14	110.10	
5	110.07	110.17	110.21	110.35	112.03	114.69	114.89	111.70	110.87	110.43	110.14	110.09	
6	110.06	110.16	110.25	110.34	112.14	114.93	114.85	111.65	110.87	110.40	110.14	110.08	
7	110.06	110.10	110.29	110.34	112.24	115.13	114.80	111.60	110.85	110.39	110.13	110.08	
8	110.06	110.08	110.28	110.34	112.29	115.32	114.71	111.57	110.84	110.38	110.13	110.08	
9	110.06	110.05	110.26	110.45	112.28	115.46	114.62	111.53	110.83	110.37	110.13	110.08	
10	110.05	110.03	110.42	111.11	112.25	115.58	114.47	111.50	110.82	110.36	110.13	110.07	
11	110.03	110.01	110.49	111.04	112.28	115.64	114.33	111.50	110.81	110.34	110.13	110.07	
12	110.03	109.98	110.47	110.96	112.25	115.67	114.11	111.48	110.80	110.32	110.13	110.07	
13	110.03	109.97	110.42	110.89	112.26	115.66	113.89	111.48	110.77	110.31	110.13	110.07	
14	110.03	110.01	110.39	110.80	112.29	115.63	113.62	111.48	110.77	110.30	110.13	110.10	
15	110.03	110.04	110.40	110.81	112.48	115.54	113.38	111.46	110.75	110.28	110.13	110.10	
16	110.02	110.06	110.41	110.78	112.69	115.39	113.15	111.44	110.74	110.27	110.13	110.10	
17	110.01	110.07	110.46	110.71	112.77	115.19	112.90	111.38	110.72	110.25	110.13	110.10	
18	110.00	110.06	110.69	110.64	112.85	114.97	112.69	111.29	110.70	110.25	110.12	110.10	
19	109.99	110.04	110.70	110.58	112.89	114.72	112.46	111.20	110.70	110.23	110.12	110.10	
20	109.99	110.03	110.72	110.51	112.93	114.45	112.24	111.13	110.69	110.23	110.12	110.10	
21	109.99	110.01	110.81	110.47	112.97	114.28	112.06	111.11	110.65	110.21	110.12	110.10	
22	109.99	110.02	110.85	110.42	113.03	114.20	111.95	111.14	110.65	110.21	110.12	110.11	
23	110.01	110.04	110.87	110.40	113.07	114.43	111.86	111.16	110.64	110.20	110.11	110.11	
24	110.02	110.03	110.88	110.41	112.98	114.54	111.82	111.18	110.62	110.19	110.11	110.11	
25	110.07	110.03	110.82	110.47	112.83	114.78	111.80	111.15	110.60	110.18	110.11	110.11	
26	110.10	110.05	110.72	110.56	112.71	114.93	111.80	111.15	110.57	110.18	110.10	110.10	
27	110.13	110.26	110.56	110.80	112.60	115.00	111.80	111.15	110.56	110.17	110.10	110.09	
28	110.16	110.32	110.54	110.91	112.71	115.09	111.80	111.19	110.55	110.16	110.12	110.09	
29	110.13	110.31	110.49	111.07	112.85	115.11	111.82	111.15	110.53	110.16		110.08	
30	110.12	110.28	110.45	111.41	113.00	115.09	111.86	111.15	110.52	110.15		110.08	
31		110.25		111.72	113.21		111.87		110.51	110.15		110.07	
Mean	110.05	110.09	110.49	110.67	112.55	114.90	113.27	111.40	110.72	110.29	110.13	110.10	
Max	110.16	110.32	110.88	111.72	113.21	115.67	115.05	111.85	110.99	110.50	110.15	110.17	115.67
Min	109.99	109.97	110.17	110.34	111.94	113.43	111.80	111.11	110.51	110.15	110.10	110.07	109.97

Annual Max Momentary Gage Height 115.67 M (MSL), at 18.00 Hours, on Sep 12, 1992
Zero Gage at Bottom Elevation 110.00 M (MSL), River Bed 109.09 M (MSL)
Left Bank Elevation 123.32 M (MSL)
Right Bank Elevation 121.45 M (MSL), Drainage Area 44275 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.3	2.3	6.2	14.0	121.2	266.3	456.1	114.0	47.3	18.0	3.5	4.1	
2	2.0	2.3	5.4	15.7	128.4	299.3	449.4	111.6	32.2	17.5	3.2	3.2	
3	1.8	2.0	4.7	12.2	130.0	343.3	442.8	108.4	32.2	16.7	3.2	2.6	
4	1.6	3.5	4.1	10.8	129.2	378.6	438.9	105.2	38.2	15.3	3.2	2.0	
5	1.4	4.1	5.4	11.2	128.4	409.8	434.9	102.0	38.9	14.8	3.2	1.8	
6	1.2	3.8	7.0	10.8	137.2	440.2	429.6	98.0	38.9	13.5	3.2	1.6	
7	1.2	2.0	8.6	10.8	145.6	466.6	423.0	94.0	37.5	13.0	2.9	1.6	
8	1.2	1.6	8.2	10.8	150.1	491.8	412.2	91.6	36.8	12.6	2.9	1.6	
9	1.2	1.0	7.4	15.7	149.2	510.3	401.4	88.4	36.1	12.2	2.9	1.6	
10	1.0	0.6	14.4	55.8	146.5	526.1	383.4	86.0	35.4	11.7	2.9	1.4	
11	0.6	0.2	17.5	50.8	149.2	534.1	366.6	86.0	34.7	10.8	2.9	1.4	
12	0.6	0.0	16.7	45.2	146.5	538.0	341.1	84.4	34.0	9.9	2.9	1.4	
13	0.6	0.0	14.4	40.3	147.4	536.7	316.9	84.4	32.2	9.4	2.9	1.4	
14	0.6	0.2	13.0	34.0	150.1	532.7	287.2	84.4	32.2	9.0	2.9	2.0	
15	0.6	0.8	13.5	34.7	169.0	520.8	260.8	82.8	31.0	8.2	2.9	2.0	
16	0.4	1.2	14.0	32.8	190.0	501.0	236.0	81.2	30.4	7.8	2.9	2.0	
17	0.2	1.4	16.2	28.6	198.0	474.6	211.0	76.4	29.2	7.0	2.9	2.0	
18	0.0	1.2	27.5	25.0	206.0	445.5	190.0	69.2	28.0	7.0	2.6	2.0	
19	0.0	0.8	28.0	22.0	210.0	413.4	167.0	62.5	28.0	6.2	2.6	2.0	
20	0.0	0.6	29.2	18.5	214.0	381.0	145.6	57.2	27.5	6.2	2.6	2.0	
21	0.0	0.2	34.7	16.7	218.0	360.6	130.8	55.8	25.5	5.4	2.6	2.0	
22	0.0	0.4	37.5	14.4	224.0	351.0	122.0	58.0	25.5	5.4	2.6	2.3	
23	0.2	0.8	38.9	13.5	228.0	378.6	114.8	59.5	25.0	5.0	2.3	2.3	
24	0.4	0.6	39.6	14.0	219.0	391.8	111.6	61.0	24.0	4.7	2.3	2.3	
25	1.4	0.6	35.4	16.7	204.0	420.6	110.0	58.8	23.0	4.4	2.3	2.3	
26	2.0	1.0	29.2	21.0	192.0	440.2	110.0	58.8	21.5	4.4	2.0	2.0	
27	2.9	7.4	21.0	34.0	181.0	449.4	110.0	58.8	21.0	4.1	2.0	1.8	
28	3.8	9.9	20.0	41.7	192.0	461.3	110.0	61.8	20.5	3.8	2.6	1.8	
29	2.9	9.4	17.5	52.9	206.0	464.0	111.6	58.8	19.5	3.8		1.6	
30	2.6	8.2	15.7	78.8	221.0	461.3	114.8	58.8	19.0	3.5		1.6	
31		7.0		103.6	242.1		115.6		18.5	3.5		1.4	
Total	34.7	75.1	550.9	907.0	5473.1	13188.9	8055.1	2357.8	923.7	274.8	77.9	61.1	31980.1 CMSDAY
Mean	1.2	2.4	18.4	29.3	176.6	439.6	259.8	78.6	29.8	8.9	2.8	2.0	87.6 CMS
Max	3.8	9.9	39.6	103.6	242.1	538.0	456.1	114.0	47.3	18.0	3.5	4.1	538.0 CMS
Min	0.0	0.0	4.1	10.8	121.2	266.3	110.0	55.8	18.5	3.5	2.0	1.4	0.0 CMS
Runoff	3.00	6.49	47.60	78.36	472.88	1139.52	695.96	203.71	79.81	23.74	6.73	5.28	2763.08 MCM

Momentary Peak 538.03 CMS, at 115.67 M (MSL), at 18.00 Hours, on Sep 12, 1992

Runoff Yield 1.98 Liters/Second/Square KM, Momentary Peak Yield 12.15 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

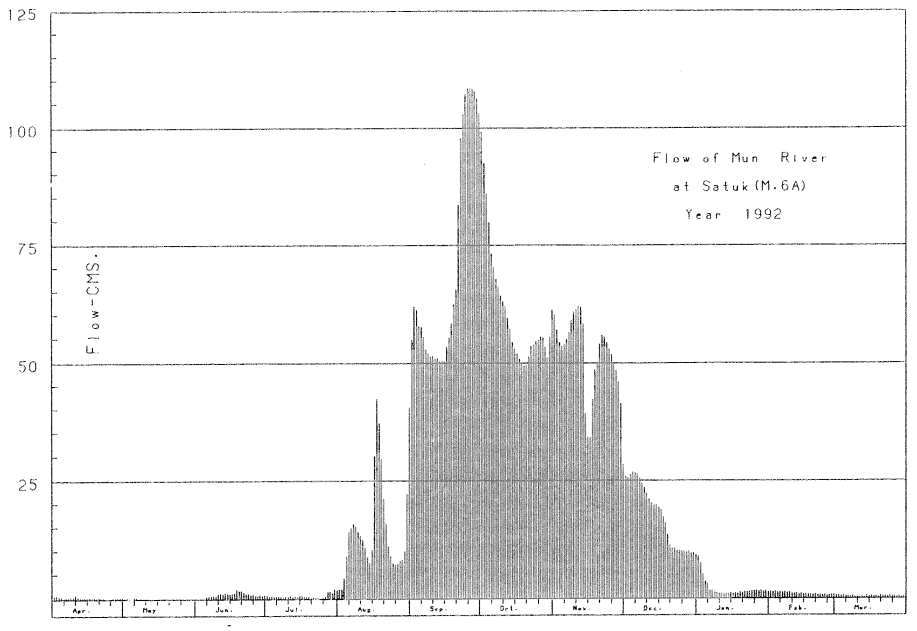
Mun River at Satuk, Buri Ram (M.6A)

Location	Lat. 15°17'44" N., Long. 103°17'51" E., on right bank at Satuk, Buri Ram.
Drainage Area	28,275 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+124.00 m. (M.S.L.)
Bench Mark	B.M.-B.M.P.1383
Location	Infront of the post office and about 80 meters from staff gage line.
Elevation	+132.328 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1964 to date.
Rating Operation	
Period of Rating	1976 to date.
Rated by Float	-
Rated by Current Meter	1976 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.35	124.29	124.23	124.34	124.50	126.08	126.81	126.17	125.44	124.90	124.44	124.35	
2	124.34	124.28	124.22	124.34	124.51	126.20	126.71	126.12	125.43	124.83	124.44	124.34	
3	124.33	124.27	124.22	124.33	124.66	126.19	126.60	126.07	125.45	124.71	124.44	124.34	
4	124.31	124.28	124.25	124.33	124.91	126.13	126.50	126.05	125.46	124.62	124.43	124.34	
5	124.28	124.28	124.32	124.33	125.11	126.13	126.39	126.06	125.46	124.58	124.43	124.33	
6	124.27	124.28	124.33	124.32	125.13	126.09	126.34	126.08	125.45	124.49	124.43	124.32	
7	124.30	124.27	124.34	124.31	125.16	126.04	126.30	126.11	125.43	124.45	124.43	124.32	
8	124.31	124.27	124.34	124.31	125.14	126.02	126.27	126.15	125.40	124.43	124.42	124.32	
9	124.32	124.26	124.35	124.32	125.11	126.01	126.24	126.18	125.38	124.40	124.41	124.31	
10	124.36	124.26	124.39	124.33	125.08	126.01	126.22	126.19	125.34	124.39	124.40	124.31	
11	124.32	124.25	124.40	124.33	125.05	126.00	126.20	126.20	125.31	124.38	124.40	124.30	
12	124.31	124.24	124.40	124.32	124.99	126.00	126.16	126.20	125.28	124.38	124.39	124.30	
13	124.30	124.23	124.41	124.32	124.90	125.99	126.12	126.14	125.27	124.38	124.38	124.30	
14	124.30	124.22	124.41	124.32	124.83	125.99	126.07	125.75	125.27	124.39	124.38	124.33	
15	124.30	124.22	124.40	124.34	124.98	125.99	126.04	125.64	125.26	124.39	124.38	124.32	
16	124.30	124.22	124.39	124.34	125.55	126.05	126.02	125.64	125.24	124.39	124.37	124.32	
17	124.30	124.22	124.42	124.32	125.82	126.09	126.00	125.82	125.20	124.39	124.37	124.32	
18	124.29	124.21	124.50	124.31	125.71	126.14	125.98	125.95	125.16	124.40	124.36	124.31	
19	124.29	124.21	124.49	124.31	125.53	126.21	125.97	125.98	125.09	124.42	124.36	124.31	
20	124.28	124.20	124.47	124.30	125.31	126.26	125.97	126.06	125.01	124.42	124.36	124.33	
21	124.28	124.19	124.43	124.29	125.16	126.56	126.01	126.10	124.99	124.43	124.36	124.33	
22	124.27	124.18	124.40	124.29	125.01	126.79	126.05	126.09	124.98	124.44	124.35	124.32	
23	124.26	124.17	124.39	124.28	124.90	126.87	126.06	126.07	124.97	124.43	124.35	124.32	
24	124.25	124.16	124.38	124.27	124.83	126.93	126.07	126.04	124.96	124.46	124.35	124.32	
25	124.26	124.15	124.37	124.27	124.81	126.95	126.08	126.02	124.96	124.47	124.34	124.32	
26	124.27	124.16	124.36	124.33	124.82	126.95	126.09	125.98	124.95	124.46	124.34	124.31	
27	124.28	124.17	124.35	124.46	124.86	126.95	126.09	125.95	124.95	124.46	124.36	124.31	
28	124.29	124.18	124.35	124.44	124.86	126.94	126.05	125.90	124.95	124.46	124.35	124.31	
29	124.29	124.18	124.35	124.42	124.96	126.92	126.00	125.80	124.94	124.45		124.30	
30	124.28	124.20	124.35	124.50	125.34	126.87	126.09	125.50	124.93	124.45		124.30	
31		124.20		124.50	125.78		126.19		124.92	124.44		124.30	
Mean	124.30	124.22	124.37	124.34	125.07	126.34	126.18	126.00	125.19	124.47	124.39	124.32	
Max	124.36	124.29	124.50	124.50	125.82	126.95	126.81	126.20	125.46	124.90	124.44	124.35	126.95
Min	124.25	124.15	124.22	124.27	124.50	125.99	125.97	125.50	124.92	124.38	124.34	124.30	124.15

Annual Max Momentary Gage Height 126.95 M (MSL), at 6.00 Hours, on Sep 25, 1992
Zero Gage at Bottom Elevation 124.00 M (MSL), River Bed 120.82 M (MSL)
Left Bank Elevation 132.07 M (MSL)
Right Bank Elevation 133.33 M (MSL), Drainage Area 28275 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.36	0.12	0.72	2.00	55.00	99.15	60.20	26.10	9.00	1.52	0.80	
2	0.72	0.32	0.08	0.72	2.15	62.00	92.65	57.20	25.70	7.60	1.52	0.72	
3	0.64	0.28	0.08	0.64	4.40	61.40	86.00	54.50	26.50	5.20	1.52	0.72	
4	0.48	0.32	0.20	0.64	9.20	57.80	80.00	53.50	26.90	3.80	1.44	0.72	
5	0.32	0.32	0.56	0.64	14.35	57.80	73.40	54.00	26.90	3.20	1.44	0.64	
6	0.28	0.32	0.64	0.56	15.05	55.50	70.40	55.00	26.50	1.92	1.44	0.56	
7	0.40	0.28	0.72	0.48	16.10	53.00	68.00	56.60	25.70	1.60	1.44	0.56	
8	0.48	0.28	0.72	0.48	15.40	52.00	66.20	59.00	24.50	1.44	1.36	0.56	
9	0.56	0.24	0.80	0.56	14.35	51.50	64.40	60.80	23.80	1.20	1.28	0.48	
10	0.88	0.24	1.12	0.64	13.40	51.50	63.20	61.40	22.40	1.12	1.20	0.48	
11	0.56	0.20	1.20	0.64	12.50	51.00	62.00	62.00	21.35	1.04	1.20	0.40	
12	0.48	0.16	1.20	0.56	10.80	51.00	59.60	62.00	20.30	1.04	1.12	0.40	
13	0.40	0.12	1.28	0.56	9.00	50.50	57.20	58.40	19.95	1.04	1.04	0.40	
14	0.40	0.08	1.28	0.56	7.60	50.50	54.50	39.25	19.95	1.12	1.04	0.64	
15	0.40	0.08	1.20	0.72	10.60	50.50	53.00	34.30	19.60	1.12	1.04	0.56	
16	0.40	0.08	1.12	0.72	30.50	53.50	52.00	34.30	18.90	1.12	0.96	0.56	
17	0.40	0.08	1.36	0.56	42.40	55.50	51.00	42.40	17.50	1.12	0.96	0.56	
18	0.36	0.04	2.00	0.48	37.45	58.40	50.00	48.50	16.10	1.20	0.88	0.48	
19	0.36	0.04	1.92	0.48	29.70	62.60	49.50	50.00	13.70	1.36	0.88	0.48	
20	0.32	0.00	1.76	0.40	21.35	65.60	49.50	54.00	11.30	1.36	0.88	0.64	
21	0.32	0.00	1.44	0.36	16.10	83.60	51.50	56.00	10.80	1.44	0.88	0.64	
22	0.28	0.00	1.20	0.36	11.30	97.85	53.50	55.50	10.60	1.52	0.80	0.56	
23	0.24	0.00	1.12	0.32	9.00	103.05	54.00	54.50	10.40	1.44	0.80	0.56	
24	0.20	0.00	1.04	0.28	7.60	107.10	54.50	53.00	10.20	1.68	0.80	0.56	
25	0.24	0.00	0.96	0.28	7.20	108.50	55.00	52.00	10.20	1.76	0.72	0.56	
26	0.28	0.00	0.88	0.64	7.40	108.50	55.50	50.00	10.00	1.68	0.72	0.48	
27	0.32	0.00	0.80	1.68	8.20	108.50	55.50	48.50	10.00	1.68	0.88	0.48	
28	0.36	0.00	0.80	1.52	8.20	107.80	53.50	46.00	10.00	1.68	0.80	0.48	
29	0.36	0.00	0.80	1.36	10.20	106.40	51.00	41.50	9.80	1.60		0.40	
30	0.32	0.00	0.80	2.00	22.40	103.05	55.50	28.50	9.60	1.60		0.40	
31		0.00		2.00	40.60		61.40		9.40	1.52		0.40	
Total	12.56	3.84	29.20	22.56	466.50	2140.95	1902.60	1542.85	544.65	65.20	30.56	16.88	6778.35 CMSDAY
Mean	0.42	0.12	0.97	0.73	15.05	71.36	61.37	51.43	17.57	2.10	1.09	0.54	18.57 CMS
Max	0.88	0.36	2.00	2.00	42.40	108.50	99.15	62.00	26.90	9.00	1.52	0.80	108.50 CMS
Min	0.20	0.00	0.08	0.28	2.00	50.50	49.50	28.50	9.40	1.04	0.72	0.40	0.00 CMS
Runoff	1.085	0.332	2.523	1.949	40.306	184.978	164.385	133.302	47.058	5.633	2.640	1.458	585.650 MCM

Momentary Peak 108.50 CMS, at 126.95 M (MSL), at 6.00 Hours, on Sep 25, 1992

Runoff Yield 0.66 Liters/Second/Square KM, Momentary Peak Yield 3.84 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

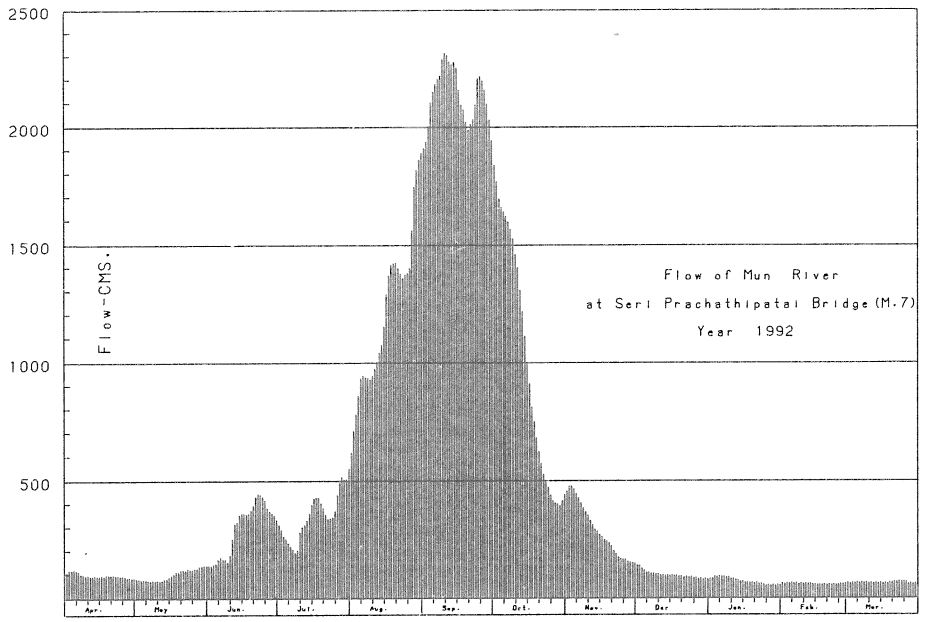
Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M.7)

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	+117.652 m.(M.S.L.)
Gage Reading Frequency	3-5 time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1944 to date.
Rating Operation	
Period of Rating	1956 - 1958, 1964 - 1981, 1983 to date.
Rated by Float	-
Rated by Current Meter	1956 - 1958, 1964 - 1981, 1983 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 49 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.83	106.71	106.95	107.55	108.43	111.02	110.90	107.98	106.97	106.70	106.61	106.62	
2	106.86	106.69	106.95	107.47	108.65	111.06	110.78	108.03	106.95	106.72	106.61	106.62	
3	106.87	106.69	106.97	107.39	108.82	111.17	110.65	108.04	106.91	106.74	106.61	106.62	
4	106.87	106.68	106.99	107.34	109.00	111.34	110.58	108.00	106.86	106.75	106.62	106.63	
5	106.87	106.68	107.06	107.29	109.17	111.42	110.55	107.95	106.83	106.75	106.62	106.63	
6	106.84	106.67	107.08	107.24	109.19	111.47	110.51	107.89	106.82	106.75	106.62	106.63	
7	106.80	106.67	107.06	107.19	109.18	111.51	110.47	107.83	106.81	106.74	106.62	106.63	
8	106.78	106.67	107.05	107.15	109.17	111.53	110.41	107.76	106.80	106.74	106.61	106.63	
9	106.77	106.67	107.02	107.18	109.16	111.65	110.34	107.72	106.80	106.73	106.61	106.63	
10	106.77	106.67	107.11	107.44	109.19	111.69	110.22	107.67	106.79	106.71	106.61	106.62	
11	106.76	106.67	107.34	107.51	109.26	111.68	110.11	107.61	106.78	106.70	106.61	106.62	
12	106.76	106.68	107.56	107.55	109.32	111.63	109.93	107.54	106.77	106.69	106.61	106.62	
13	106.76	106.69	107.58	107.60	109.41	111.61	109.75	107.49	106.77	106.67	106.61	106.62	
14	106.75	106.71	107.68	107.70	109.47	111.63	109.55	107.45	106.77	106.66	106.60	106.62	
15	106.75	106.73	107.70	107.81	109.63	111.59	109.30	107.41	106.77	106.65	106.59	106.62	
16	106.76	106.76	107.69	107.88	109.89	111.43	109.12	107.37	106.77	106.64	106.59	106.62	
17	106.76	106.80	107.69	107.90	110.05	111.33	108.89	107.34	106.77	106.63	106.59	106.62	
18	106.77	106.83	107.69	107.89	110.13	111.29	108.75	107.31	106.76	106.63	106.59	106.62	
19	106.78	106.84	107.74	107.83	110.15	111.20	108.58	107.29	106.76	106.63	106.59	106.63	
20	106.78	106.86	107.79	107.76	110.15	111.15	108.44	107.24	106.75	106.63	106.59	106.64	
21	106.77	106.87	107.90	107.68	110.11	111.19	108.30	107.18	106.74	106.63	106.59	106.64	
22	106.77	106.87	107.95	107.63	110.06	111.22	108.18	107.13	106.74	106.61	106.59	106.65	
23	106.76	106.89	107.93	107.63	110.03	111.33	108.08	107.09	106.74	106.61	106.59	106.65	
24	106.76	106.88	107.91	107.65	110.05	111.51	108.02	107.06	106.74	106.60	106.59	106.65	
25	106.75	106.87	107.86	107.72	110.07	111.53	107.93	107.06	106.73	106.58	106.60	106.65	
26	106.74	106.89	107.76	107.93	110.11	111.50	107.85	107.05	106.72	106.58	106.60	106.64	
27	106.73	106.90	107.73	108.08	110.40	111.43	107.83	107.03	106.71	106.58	106.61	106.61	
28	106.72	106.93	107.70	108.14	110.74	111.33	107.81	107.01	106.71	106.58	106.61	106.61	
29	106.72	106.95	107.67	108.11	110.86	111.22	107.80	107.01	106.70	106.58		106.61	
30	106.71	106.95	107.61	108.12	110.94	111.07	107.85	106.99	106.70	106.58		106.61	
31		106.96		108.24	110.98		107.93		106.70	106.59		106.61	
Mean	106.78	106.78	107.49	107.66	109.73	111.39	109.21	107.45	106.78	106.66	106.60	106.63	
Max	106.87	106.96	107.95	108.24	110.98	111.69	110.90	108.04	106.97	106.75	106.62	106.65	111.69
Min	106.71	106.67	106.95	107.15	108.43	111.02	107.80	106.99	106.70	106.58	106.59	106.61	106.58

Annual Max Momentary Gage Height 111.69 M (MSL), at 6.00 Hours, on Sep 10, 1992
Zero Gage at Bottom Elevation 105.00 M (MSL), River Bed 100.75 M (MSL)
Left Bank Elevation 120.45 M (MSL)
Right Bank Elevation 116.53 M (MSL), Drainage Area 106673 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	111.8	84.8	138.7	315.0	622.0	1912.0	1840.0	458.3	143.3	82.5	62.3	64.5	
2	118.5	80.3	138.7	291.0	711.3	1936.0	1769.0	475.9	138.7	87.0	62.3	64.5	
3	120.8	80.3	143.3	267.0	783.5	2002.0	1697.5	479.5	129.8	91.5	62.3	64.5	
4	120.8	78.0	147.7	252.0	860.0	2104.0	1659.0	465.0	118.5	93.8	64.5	66.7	
5	120.8	78.0	168.0	237.0	936.5	2152.0	1642.5	448.1	111.8	93.8	64.5	66.7	
6	114.0	75.7	174.0	222.0	945.5	2182.0	1620.5	427.9	109.5	93.8	64.5	66.7	
7	105.0	75.7	168.0	207.0	941.0	2206.0	1598.5	407.6	107.2	91.5	64.5	66.7	
8	100.5	75.7	165.0	195.0	936.5	2218.0	1565.5	384.0	105.0	91.5	62.3	66.7	
9	98.2	75.7	156.0	204.0	932.0	2290.0	1527.0	370.5	105.0	89.3	62.3	66.7	
10	98.2	75.7	183.0	282.0	945.5	2314.0	1461.0	353.6	102.8	84.8	62.3	64.5	
11	96.0	75.7	252.0	303.0	977.0	2308.0	1402.8	333.4	100.5	82.5	62.3	64.5	
12	96.0	78.0	318.0	315.0	1004.0	2278.0	1309.1	312.0	98.2	80.3	62.3	64.5	
13	96.0	80.3	324.0	330.0	1045.0	2266.0	1216.9	297.0	98.2	75.7	62.3	64.5	
14	93.8	84.8	357.0	363.7	1075.0	2278.0	1115.0	285.0	98.2	73.5	60.0	64.5	
15	93.8	89.3	363.7	400.9	1155.4	2254.0	995.0	273.0	98.2	71.3	58.0	64.5	
16	96.0	96.0	360.4	424.5	1288.6	2158.0	914.0	261.0	98.2	69.0	58.0	64.5	
17	96.0	105.0	360.4	431.3	1371.3	2098.0	813.2	252.0	98.2	66.7	58.0	64.5	
18	98.2	111.8	360.4	427.9	1413.2	2074.0	753.8	243.0	96.0	66.7	58.0	64.5	
19	100.5	114.0	377.2	407.6	1423.8	2020.0	682.0	237.0	96.0	66.7	58.0	66.7	
20	100.5	118.5	394.1	384.0	1423.8	1990.0	626.0	222.0	93.8	66.7	58.0	69.0	
21	98.2	120.8	431.3	357.0	1402.8	2014.0	573.8	204.0	91.5	66.7	58.0	69.0	
22	98.2	120.8	448.1	340.1	1376.5	2032.0	530.2	189.0	91.5	62.3	58.0	71.3	
23	96.0	125.2	441.4	340.1	1360.7	2098.0	494.0	177.0	91.5	62.3	58.0	71.3	
24	96.0	123.0	434.6	346.9	1371.3	2206.0	472.2	168.0	91.5	60.0	58.0	71.3	
25	93.8	120.8	417.8	370.5	1381.8	2218.0	441.4	168.0	89.3	56.0	60.0	71.3	
26	91.5	125.2	384.0	441.4	1402.8	2200.0	414.4	165.0	87.0	56.0	60.0	69.0	
27	89.3	127.5	373.9	494.0	1560.0	2158.0	407.6	159.0	84.8	56.0	62.3	62.3	
28	87.0	134.3	363.7	515.7	1747.0	2098.0	400.9	153.0	84.8	56.0	62.3	62.3	
29	87.0	138.7	353.6	504.9	1816.0	2032.0	397.5	153.0	82.5	56.0		62.3	
30	84.8	138.7	333.4	508.5	1864.0	1942.0	414.4	147.7	82.5	56.0		62.3	
31		141.0		552.0	1888.0		441.4		82.5	58.0		62.3	
Total	2997.2	3149.3	9031.4	11031.0	37961.8	64038.0	31196.1	8669.5	3106.5	2263.9	1703.3	2044.6	177192.6 CMSDAY
Mean	99.9	101.6	301.0	355.8	1224.6	2134.6	1006.3	289.0	100.2	73.0	60.8	66.0	485.5 CMS
Max	120.8	141.0	448.1	552.0	1888.0	2314.0	1840.0	479.5	143.3	93.8	64.5	71.3	2314.0 CMS
Min	84.8	75.7	138.7	195.0	622.0	1912.0	397.5	147.7	82.5	56.0	58.0	62.3	56.0 CMS
Runoff	258.96	272.10	780.31	953.08	3279.90	5532.88	2695.34	749.04	268.40	195.60	147.17	176.65	15309.44 MCM

Momentary Peak 2314.00 CMS, at 111.69 M (MSL), at 6.00 Hours, on Sep 10, 1992
Runoff Yield 4.55 Liters/Second/Square KM, Momentary Peak Yield 21.69 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

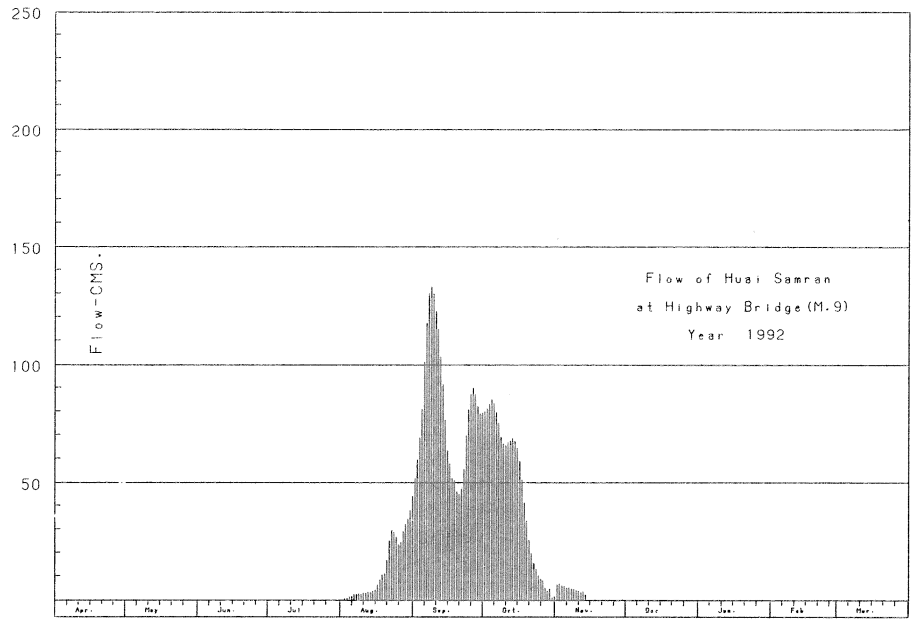
Huai Samran at Muang, Si Sa Ket (M.9)

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 abutment of the bridge.
Elevation	+123.034 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1954, 1972 - 1981, 1987 to date.
Rated by Float	-
Rated by Current Meter	1954, 1972 - 1981, 1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.20	109.08	109.11	109.12	109.55	114.12	115.14	111.18	111.36	111.14	110.94	110.03	
2	109.14	109.09	109.13	109.10	109.75	114.43	115.19	111.20	111.33	111.14	110.93	110.03	
3	109.15	109.09	109.16	109.10	109.95	114.78	115.25	111.13	111.32	111.13	110.94	110.04	
4	109.14	109.16	109.18	109.11	110.12	115.17	115.32	111.04	111.34	111.12	110.96	110.06	
5	109.14	109.16	109.25	109.11	110.26	115.78	115.26	110.98	111.33	111.10	110.97	110.08	
6	109.20	109.12	109.16	109.12	110.36	116.20	115.14	110.94	111.31	111.09	110.97	110.09	
7	109.24	109.11	109.13	109.13	110.43	116.48	114.98	110.88	111.28	111.08	110.98	110.08	
8	109.21	109.11	109.06	109.17	110.40	116.55	114.79	110.81	111.23	111.08	110.98	110.08	
9	109.24	109.11	109.06	109.20	110.43	116.48	114.68	110.75	111.20	111.08	110.97	110.08	
10	109.21	109.11	109.08	109.14	110.48	116.32	114.67	110.67	111.18	111.08	110.96	110.05	
11	109.20	109.11	109.07	109.11	110.53	116.13	114.70	110.58	111.18	111.09	110.95	110.06	
12	109.21	109.13	109.07	109.11	110.55	115.83	114.74	110.60	111.18	111.09	110.95	110.08	
13	109.25	109.12	109.08	109.12	110.60	115.51	114.76	110.40	111.17	111.08	110.95	110.11	
14	109.24	109.11	109.13	109.12	110.64	115.02	114.73	110.48	111.16	111.07	110.94	110.15	
15	109.24	109.12	109.15	109.11	110.79	114.59	114.62	111.29	111.15	111.06	110.94	110.21	
16	109.24	109.15	109.17	109.10	111.14	114.36	114.42	112.31	111.14	111.05	110.94	110.23	
17	109.24	109.17	109.15	109.11	111.42	114.12	114.08	113.01	111.13	111.05	110.93	110.24	
18	109.24	109.12	109.23	109.11	111.59	114.07	113.64	112.46	111.12	111.04	110.93	110.23	
19	109.26	109.08	109.18	109.11	111.67	113.87	113.23	111.66	111.12	111.04	110.92	110.22	
20	109.29	109.08	109.19	109.11	112.19	113.80	112.79	111.57	111.12	111.03	110.92	110.22	
21	109.24	109.08	109.26	109.10	112.76	113.91	112.41	111.50	111.14	111.02	110.93	110.22	
22	109.16	109.07	109.26	109.15	113.02	114.28	112.11	111.46	111.18	111.02	110.93	110.22	
23	109.15	109.07	109.21	109.18	112.96	114.81	111.83	111.44	111.28	111.01	110.93	110.21	
24	109.13	109.06	109.18	109.14	112.87	115.17	111.59	111.42	111.30	111.01	110.94	110.22	
25	109.11	109.10	109.18	109.23	112.68	115.39	111.45	111.39	111.24	111.00	110.95	110.23	
26	109.11	109.18	109.21	109.25	112.72	115.47	111.34	111.39	111.21	111.00	110.98	110.23	
27	109.10	109.22	109.26	109.16	113.00	115.38	110.96	111.41	111.19	110.99	110.99	110.22	
28	109.10	109.21	109.33	109.13	113.15	115.22	110.64	111.42	111.20	110.99	111.01	110.22	
29	109.09	109.14	109.23	109.34	113.29	115.12	110.83	111.41	111.18	110.97		110.22	
30	109.08	109.12	109.13	109.57	113.46	115.12	110.04	111.39	111.17	110.96		110.22	
31		109.10		109.38	113.76		110.13		111.16	110.96		110.20	
Mean	109.19	109.12	109.17	109.16	111.50	115.12	113.40	111.27	111.21	111.05	110.95	110.15	
Max	109.29	109.22	109.33	109.57	113.76	116.55	115.32	113.01	111.36	111.14	111.01	110.24	116.55
Min	109.08	109.06	109.06	109.10	109.55	113.80	110.04	110.40	111.12	110.96	110.92	110.03	109.06

Annual Max Momentary Gage Height 116.55 M (MSL), at 18.00 Hours, on Sep 8, 1992
Zero Gage at Bottom Elevation 109.00 M (MSL), River Bed 109.03 M (MSL)
Left Bank Elevation 121.61 M (MSL)
Right Bank Elevation 123.34 M (MSL), Drainage Area 3026 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.02	0.02	0.02	0.30	52.08	80.20	6.76	0.00	0.00	0.00	0.00	
2	0.03	0.02	0.03	0.02	0.70	59.75	81.70	6.90	0.00	0.00	0.00	0.00	
3	0.03	0.02	0.03	0.02	1.10	69.40	83.50	6.41	0.00	0.00	0.00	0.00	
4	0.03	0.03	0.04	0.02	1.44	81.10	85.64	5.84	0.00	0.00	0.00	0.00	
5	0.03	0.03	0.06	0.02	1.90	101.48	83.80	5.50	0.00	0.00	0.00	0.00	
6	0.04	0.02	0.03	0.02	2.40	118.00	80.20	5.30	0.00	0.00	0.00	0.00	
7	0.05	0.02	0.03	0.03	2.75	130.12	75.40	5.00	0.00	0.00	0.00	0.00	
8	0.04	0.02	0.01	0.03	2.60	133.50	69.70	4.65	0.00	0.00	0.00	0.00	
9	0.05	0.02	0.01	0.04	2.75	130.12	66.44	4.35	0.00	0.00	0.00	0.00	
10	0.04	0.02	0.02	0.03	3.00	123.08	66.16	3.95	0.00	0.00	0.00	0.00	
11	0.04	0.02	0.01	0.02	3.25	115.06	67.00	3.50	0.00	0.00	0.00	0.00	
12	0.04	0.03	0.01	0.02	3.35	103.34	68.20	3.60	0.00	0.00	0.00	0.00	
13	0.06	0.02	0.02	0.02	3.60	91.94	68.80	2.60	0.00	0.00	0.00	0.00	
14	0.05	0.02	0.03	0.02	3.80	76.60	67.90	0.00	0.00	0.00	0.00	0.00	
15	0.05	0.02	0.03	0.02	4.55	63.93	64.76	0.00	0.00	0.00	0.00	0.00	
16	0.05	0.03	0.03	0.02	6.48	58.00	59.50	0.00	0.00	0.00	0.00	0.00	
17	0.05	0.03	0.03	0.02	9.00	52.08	51.14	0.00	0.00	0.00	0.00	0.00	
18	0.05	0.02	0.05	0.02	10.70	50.91	41.80	0.00	0.00	0.00	0.00	0.00	
19	0.06	0.02	0.04	0.02	11.50	46.47	33.74	0.00	0.00	0.00	0.00	0.00	
20	0.07	0.02	0.04	0.02	16.89	45.00	25.82	0.00	0.00	0.00	0.00	0.00	
21	0.05	0.02	0.06	0.02	25.28	47.32	19.74	0.00	0.00	0.00	0.00	0.00	
22	0.03	0.01	0.06	0.03	29.96	56.00	16.01	0.00	0.00	0.00	0.00	0.00	
23	0.03	0.01	0.04	0.04	28.88	70.30	13.10	0.00	0.00	0.00	0.00	0.00	
24	0.03	0.01	0.04	0.03	27.26	81.10	10.70	0.00	0.00	0.00	0.00	0.00	
25	0.02	0.02	0.04	0.05	23.88	87.88	9.30	0.00	0.00	0.00	0.00	0.00	
26	0.02	0.04	0.04	0.06	24.56	90.58	8.20	0.00	0.00	0.00	0.00	0.00	
27	0.02	0.05	0.06	0.03	29.60	87.56	5.40	0.00	0.00	0.00	0.00	0.00	
28	0.02	0.04	0.08	0.03	32.30	82.60	3.80	0.00	0.00	0.00	0.00	0.00	
29	0.02	0.03	0.05	0.08	34.82	79.60	4.75	0.00	0.00	0.00		0.00	
30	0.02	0.02	0.03	0.34	38.20	79.60	1.28	0.00	0.00	0.00		0.00	
31		0.02		0.09	44.20		1.46		0.00	0.00		0.00	
Total	1.16	0.72	1.07	1.25	431.00	2464.50	1415.14	64.36	0.00	0.00	0.00	0.00	4379.20 CMSDAY
Mean	0.04	0.02	0.04	0.04	13.90	82.15	45.65	2.15	0.00	0.00	0.00	0.00	12.00 CMS
Max	0.07	0.05	0.08	0.34	44.20	133.50	85.64	6.90	0.00	0.00	0.00	0.00	133.50 CMS
Min	0.02	0.01	0.01	0.02	0.30	45.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.100	0.062	0.092	0.108	37.238	212.933	122.268	5.561	0.000	0.000	0.000	0.000	378.363 MCM

Momentary Peak 133.50 CMS, at 116.55 M (MSL), at 18.00 Hours, on Sep 8, 1992

Runoff Yield 3.96 Liters/Second/Square KM, Momentary Peak Yield 44.12 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

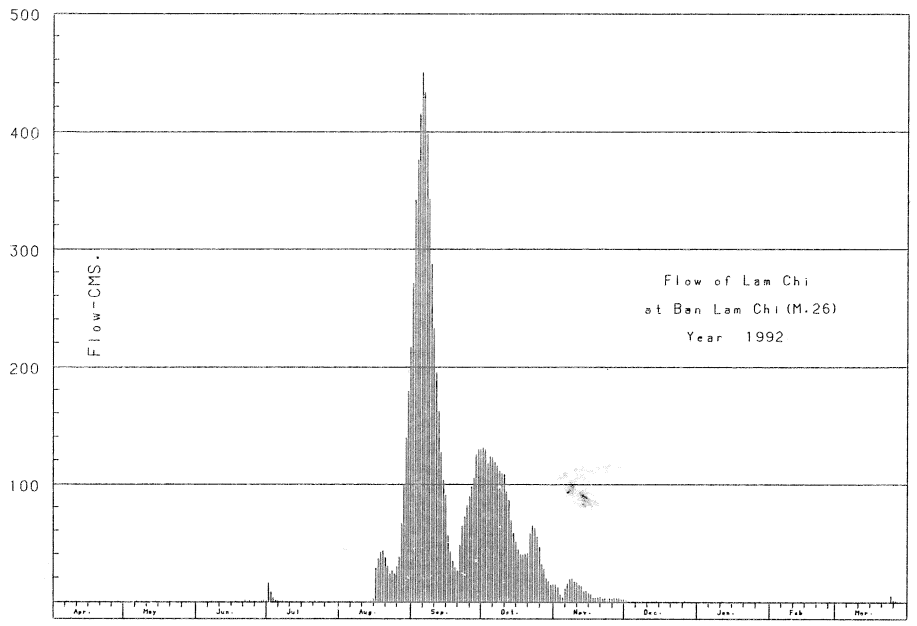
Lam Chi at Ban Lam Chi, Surin (M.26)

Location	Lat. 14-54-03 N., Long. 103-24-21 E., on left bank at railway bridge, Ban Lam Chi, Amphoe Muang, Surin.
Drainage Area	2,927 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+127.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+135.010 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1954 to date.
Rating Operation	
Period of Rating	1967-1968, 1978 to date.
Rated by Float	-
Rated by Current Meter	1967-1968, 1978 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 56 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	127.43	127.45	127.52	129.16	127.58	135.46	132.93	129.08	127.96	127.52	127.46	127.46	
2	127.42	127.46	127.51	128.74	127.59	135.66	132.87	128.99	127.66	127.50	127.44	127.44	
3	127.43	127.47	127.51	128.18	127.60	135.73	132.55	128.48	127.63	127.51	127.45	127.44	
4	127.43	127.47	127.50	127.94	127.62	135.80	132.72	128.25	127.63	127.57	127.46	127.44	
5	127.44	127.49	127.52	127.84	127.56	135.84	132.68	128.92	127.64	127.62	127.46	127.43	
6	127.45	127.49	127.54	127.75	127.52	135.82	132.58	129.13	127.64	127.65	127.46	127.44	
7	127.45	127.48	127.57	127.66	127.50	135.77	132.48	129.35	127.65	127.64	127.46	127.44	
8	127.45	127.46	127.56	127.60	127.49	135.66	132.37	129.33	127.65	127.63	127.46	127.44	
9	127.45	127.47	127.53	127.55	127.49	135.52	132.29	129.25	127.76	127.62	127.47	127.44	
10	127.44	127.47	127.53	127.58	127.49	135.22	132.29	129.18	127.73	127.62	127.42	127.45	
11	127.44	127.48	127.52	127.57	127.52	134.58	131.85	129.10	127.74	127.60	127.43	127.47	
12	127.44	127.48	127.54	127.54	127.60	133.75	131.65	129.01	127.76	127.57	127.48	127.49	
13	127.45	127.50	127.63	127.51	127.57	132.81	131.10	128.78	127.77	127.53	127.49	127.48	
14	127.44	127.51	127.62	127.52	127.55	132.15	130.77	128.76	127.77	127.51	127.46	127.49	
15	127.47	127.48	127.59	127.51	128.11	131.76	130.50	128.65	127.72	127.51	127.45	127.51	
16	127.52	127.49	127.55	127.50	129.72	130.70	130.28	128.52	127.70	127.50	127.45	127.54	
17	127.48	127.50	127.54	127.51	130.05	130.22	130.16	128.26	127.71	127.52	127.47	127.56	
18	127.49	127.50	127.55	127.51	130.21	129.98	130.13	128.17	127.71	127.50	127.48	127.60	
19	127.49	127.49	127.54	127.51	130.25	129.74	130.17	128.26	127.71	127.50	127.53	127.56	
20	127.49	127.49	127.77	127.51	130.08	129.66	130.17	128.28	127.71	127.50	127.55	127.78	
21	127.44	127.50	127.94	127.51	129.80	130.43	130.76	128.14	127.70	127.51	127.49	127.74	
22	127.42	127.48	127.72	127.51	129.54	130.95	130.96	128.10	127.70	127.52	127.48	127.66	
23	127.42	127.46	127.69	127.52	129.63	131.22	130.91	128.10	127.68	127.53	127.46	127.60	
24	127.44	127.47	127.63	127.53	129.54	131.50	130.64	128.12	127.67	127.53	127.45	128.54	
25	127.44	127.47	127.58	127.55	129.78	131.75	130.37	128.15	127.65	127.53	127.45	127.96	
26	127.45	127.48	127.60	127.57	130.09	131.97	129.88	128.15	127.64	127.52	127.45	127.64	
27	127.45	127.49	127.71	127.57	131.04	132.20	129.70	128.16	127.64	127.53	127.46	127.57	
28	127.46	127.49	127.86	127.56	132.03	132.75	129.37	128.11	127.64	127.51	127.47	127.56	
29	127.45	127.49	127.88	127.55	133.16	132.89	129.22	128.05	127.56	127.49		127.50	
30	127.44	127.49	127.87	127.56	134.17	132.87	129.09	127.98	127.50	127.49		127.49	
31		127.51		127.56	135.00		129.09		127.51	127.50		127.49	
Mean	127.45	127.48	127.62	127.68	129.29	133.01	131.05	128.56	127.68	127.54	127.47	127.57	
Max	127.52	127.51	127.94	129.16	135.00	135.84	132.93	129.35	127.96	127.65	127.55	128.54	135.84
Min	127.42	127.45	127.50	127.50	127.49	129.66	129.09	127.98	127.50	127.49	127.42	127.43	127.42

Annual Max Momentary Gage Height 135.85 M (MSL), at 10.00 Hours, on Sep 5, 1992
Zero Gage at Bottom Elevation 127.00 M (MSL), River Bed 127.04 M (MSL)
Left Bank Elevation 137.57 M (MSL)
Right Bank Elevation 136.51 M (MSL), Drainage Area 2927 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.64	0.67	0.78	16.08	0.87	271.00	131.55	14.64	2.00	0.78	0.69	0.69	
2	0.63	0.69	0.77	9.04	0.88	342.40	129.45	13.04	0.99	0.75	0.66	0.66	
3	0.64	0.70	0.77	3.64	0.90	376.50	118.25	6.04	0.94	0.77	0.67	0.66	
4	0.64	0.70	0.75	1.90	0.93	415.00	124.20	4.20	0.94	0.85	0.69	0.66	
5	0.66	0.73	0.78	1.40	0.84	450.60	122.80	11.92	0.96	0.93	0.69	0.64	
6	0.67	0.73	0.81	1.12	0.78	432.81	119.30	15.54	0.96	0.97	0.69	0.66	
7	0.67	0.72	0.85	0.99	0.75	398.50	115.80	20.10	0.97	0.96	0.69	0.66	
8	0.67	0.69	0.84	0.90	0.73	342.40	111.95	19.66	0.97	0.94	0.69	0.66	
9	0.67	0.70	0.79	0.83	0.73	288.00	109.15	17.90	1.14	0.93	0.70	0.66	
10	0.66	0.70	0.79	0.87	0.73	232.80	109.15	16.44	1.10	0.93	0.63	0.67	
11	0.66	0.72	0.78	0.85	0.78	195.48	93.75	15.00	1.11	0.90	0.64	0.70	
12	0.66	0.72	0.81	0.81	0.90	162.85	86.95	13.38	1.14	0.85	0.72	0.73	
13	0.67	0.75	0.94	0.77	0.85	127.35	69.20	9.68	1.15	0.79	0.73	0.72	
14	0.66	0.77	0.93	0.78	0.83	104.25	59.10	9.36	1.15	0.77	0.69	0.73	
15	0.70	0.72	0.88	0.77	3.08	90.64	51.00	7.85	1.08	0.77	0.67	0.77	
16	0.78	0.73	0.83	0.75	28.48	57.00	44.40	6.42	1.05	0.75	0.67	0.81	
17	0.72	0.75	0.81	0.77	37.50	42.60	40.80	4.28	1.06	0.78	0.70	0.84	
18	0.73	0.75	0.83	0.77	42.30	35.40	39.90	3.56	1.06	0.75	0.72	0.90	
19	0.73	0.73	0.81	0.77	43.50	28.96	41.10	4.28	1.06	0.75	0.79	0.84	
20	0.73	0.73	1.15	0.77	38.40	27.04	41.10	4.44	1.06	0.75	0.83	1.17	
21	0.66	0.75	1.90	0.77	30.40	48.90	58.80	3.32	1.05	0.77	0.73	1.11	
22	0.63	0.72	1.08	0.77	24.28	64.55	64.86	3.00	1.05	0.78	0.72	0.99	
23	0.63	0.69	1.03	0.78	26.32	72.94	63.31	3.00	1.02	0.79	0.69	0.90	
24	0.66	0.70	0.94	0.79	24.28	82.00	55.20	3.16	1.00	0.79	0.67	6.64	
25	0.66	0.70	0.87	0.83	29.92	90.30	47.10	3.40	0.97	0.79	0.67	2.00	
26	0.67	0.72	0.90	0.85	38.70	97.95	32.48	3.40	0.96	0.78	0.67	0.96	
27	0.67	0.73	1.06	0.85	67.34	106.00	28.00	3.48	0.96	0.79	0.69	0.85	
28	0.69	0.73	1.50	0.84	100.05	125.25	20.54	3.08	0.96	0.77	0.70	0.84	
29	0.67	0.73	1.60	0.83	140.08	130.15	17.24	2.60	0.84	0.73		0.75	
30	0.66	0.73	1.55	0.84	179.23	129.45	14.82	2.10	0.75	0.73		0.73	
31		0.77		0.84	217.00		14.82		0.77	0.75		0.73	
Total	20.19	22.37	29.13	53.57	1082.36	5369.07	2176.07	248.27	32.22	25.14	19.50	31.33	9109.22 CMSDAY
Mean	0.67	0.72	0.97	1.73	34.91	178.97	70.20	8.28	1.04	0.81	0.70	1.01	24.96 CMS
Max	0.78	0.77	1.90	16.08	217.00	450.60	131.55	20.10	2.00	0.97	0.83	6.64	450.60 CMS
Min	0.63	0.67	0.75	0.75	0.73	27.04	14.82	2.10	0.75	0.73	0.63	0.64	0.63 CMS
Runoff	1.744	1.933	2.517	4.628	93.516	463.888	188.012	21.451	2.784	2.172	1.685	2.707	787.037 MCM

Momentary Peak 459.51 CMS, at 135.85 M (MSL), at 10.00 Hours, on Sep 5, 1992

Runoff Yield 8.53 Liters/Second/Square KM, Momentary Peak Yield 156.99 Liters/Second/Square KM

WATER YEAR 1992

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 — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Flow regulated by Lam Takhong Reservoir diverted for irrigation of about 62,080 hectares. Stage-discharge relation defined by 48 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

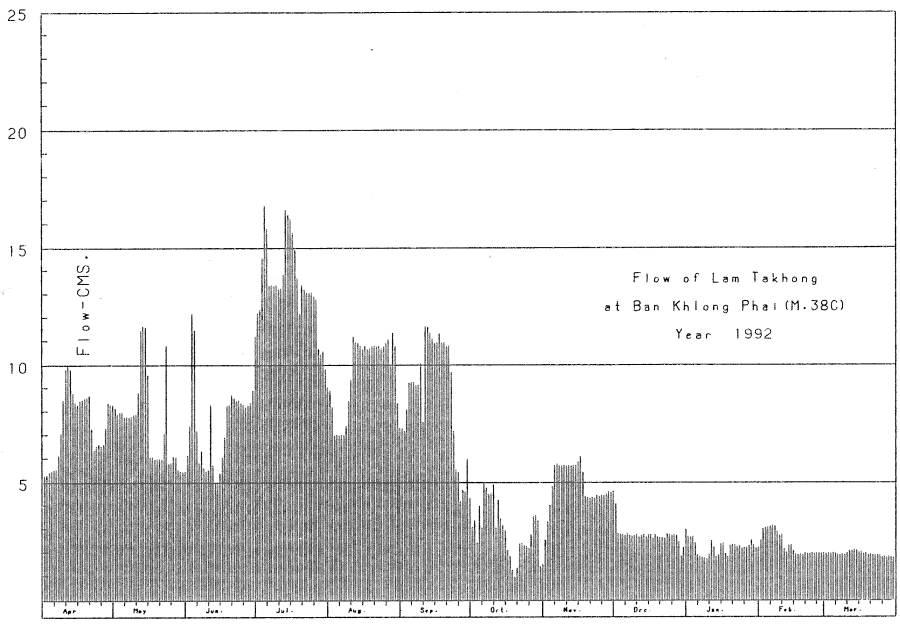
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	245.26	245.57	245.36	245.90	245.64	245.48	244.98	244.90	245.12	244.92	244.90	244.80	
2	245.26	245.54	245.49	245.91	245.57	245.47	245.02	245.02	244.94	244.92	244.97	244.80	
3	245.28	245.55	245.90	246.05	245.45	245.56	244.88	245.11	244.94	244.92	244.98	244.80	
4	245.28	245.55	245.85	246.17	245.45	245.67	245.11	245.21	244.93	244.88	244.98	244.80	
5	245.29	245.53	245.47	246.12	245.45	245.67	244.98	245.31	244.93	244.79	244.99	244.80	
6	245.29	245.53	245.32	245.98	245.45	245.67	245.22	245.32	244.94	244.77	244.99	244.79	
7	245.36	245.53	245.38	245.98	245.45	245.66	245.20	245.31	244.93	244.77	244.99	244.79	
8	245.46	245.53	245.30	245.98	245.49	245.66	245.17	245.31	244.92	244.76	244.95	244.79	
9	245.60	245.54	245.28	245.98	245.60	245.74	245.17	245.31	244.93	244.76	244.93	244.79	
10	245.72	245.54	245.29	245.97	245.68	245.51	245.22	245.31	244.93	244.79	244.93	244.80	
11	245.73	245.63	245.58	245.97	245.83	245.86	244.98	245.31	244.92	244.89	244.83	244.82	
12	245.72	245.85	245.31	246.01	245.81	245.86	245.14	245.31	244.93	244.85	244.81	244.82	
13	245.63	245.86	245.23	246.16	245.81	245.84	245.03	245.31	244.93	244.77	244.86	244.82	
14	245.59	245.86	245.22	246.15	245.80	245.82	244.99	245.31	244.92	244.79	244.86	244.82	
15	245.58	245.70	245.27	246.14	245.79	245.81	244.96	245.33	244.93	244.87	244.82	244.81	
16	245.60	245.35	245.35	246.11	245.80	245.81	244.82	245.35	244.93	244.87	244.79	244.81	
17	245.60	245.35	245.44	246.07	245.79	245.84	244.78	245.28	244.91	244.80	244.79	244.80	
18	245.61	245.34	245.58	246.00	245.79	245.81	244.66	245.16	244.93	244.77	244.79	244.80	
19	245.61	245.34	245.58	245.90	245.80	245.81	244.60	245.15	244.92	244.86	244.79	244.79	
20	245.62	245.34	245.62	245.98	245.80	245.80	244.68	245.15	244.91	244.86	244.80	244.79	
21	245.48	245.34	245.61	245.97	245.80	245.80	244.87	245.15	244.91	244.86	244.80	244.79	
22	245.38	245.46	245.60	245.96	245.80	245.71	244.87	245.15	244.91	244.85	244.80	244.78	
23	245.40	245.80	245.60	245.96	245.79	245.47	244.86	245.16	244.94	244.85	244.80	244.79	
24	245.41	245.32	245.59	245.96	245.80	245.29	244.85	245.16	244.93	244.84	244.80	244.78	
25	245.40	245.32	245.58	245.95	245.81	245.28	244.84	245.16	244.93	244.84	244.80	244.77	
26	245.41	245.35	245.57	245.94	245.82	245.13	244.93	245.16	244.93	244.84	244.80	244.77	
27	245.48	245.35	245.58	245.79	245.73	245.19	245.05	245.17	244.93	244.86	244.80	244.77	
28	245.59	245.29	245.59	245.77	245.84	245.18	245.05	245.18	244.88	244.90	244.80	244.77	
29	245.58	245.28	245.64	245.78	245.80	245.34	245.02	245.18	244.78	244.86		244.77	
30	245.58	245.28	245.83	245.72	245.59	245.15	244.70	245.18	244.84	244.84		244.76	
31		245.28		245.65	245.48		244.71		244.97	244.84		244.76	
Mean	245.49	245.49	245.50	245.97	245.69	245.60	244.95	245.21	244.93	244.84	244.86	244.79	
Max	245.73	245.86	245.90	246.17	245.84	245.86	245.22	245.35	245.12	244.92	244.99	244.82	246.17
Min	245.26	245.28	245.22	245.65	245.45	245.13	244.60	244.90	244.78	244.76	244.79	244.76	244.60

Annual Max Momentary Gage Height — 246.86 M (MSL), at 16.00 Hours, on Jun 3, 1992

Zero Gage at Bottom Elevation — 242.00 M (MSL), River Bed 243.78 M (MSL)

Left Bank Elevation — 251.61 M (MSL)

Right Bank Elevation — 252.64 M (MSL), Drainage Area 1292 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.30	8.20	6.19	12.20	8.94	7.31	3.11	2.58	4.12	2.71	2.58	2.00	
2	5.30	7.90	7.41	12.35	8.20	7.22	3.38	3.38	2.84	2.71	3.04	2.00	
3	5.47	8.00	12.20	14.57	7.03	8.10	2.46	4.04	2.84	2.71	3.11	2.00	
4	5.47	8.00	11.51	16.81	7.03	9.27	4.04	4.86	2.78	2.46	3.11	2.00	
5	5.56	7.80	7.22	15.84	7.03	9.27	3.11	5.74	2.78	1.94	3.17	2.00	
6	5.56	7.80	5.83	13.40	7.03	9.27	4.95	5.83	2.84	1.84	3.17	1.94	
7	6.19	7.80	6.37	13.40	7.03	9.16	4.77	5.74	2.78	1.84	3.17	1.94	
8	7.12	7.80	5.65	13.40	7.41	9.16	4.53	5.74	2.71	1.78	2.91	1.94	
9	8.50	7.90	5.47	13.40	8.50	10.09	4.53	5.74	2.78	1.78	2.78	1.94	
10	9.84	7.90	5.56	13.25	9.38	7.60	4.95	5.74	2.78	1.94	2.78	2.00	
11	9.97	8.83	8.30	13.25	11.23	11.65	3.11	5.74	2.71	2.52	2.17	2.12	
12	9.84	11.51	5.74	13.87	10.96	11.65	4.28	5.74	2.78	2.29	2.06	2.12	
13	8.83	11.65	5.03	16.62	10.96	11.37	3.46	5.74	2.78	1.84	2.35	2.12	
14	8.40	11.65	4.95	16.42	10.82	11.10	3.17	5.74	2.71	1.94	2.35	2.12	
15	8.30	9.60	5.39	16.23	10.70	10.96	2.98	5.92	2.78	2.41	2.12	2.06	
16	8.50	6.10	6.10	15.64	10.82	10.96	2.12	6.10	2.78	2.41	1.94	2.06	
17	8.50	6.10	6.93	14.93	10.70	11.37	1.89	5.47	2.65	2.00	1.94	2.00	
18	8.61	6.01	8.30	13.70	10.70	10.96	1.27	4.45	2.78	1.84	1.94	2.00	
19	8.61	6.01	8.30	12.20	10.82	10.96	1.00	4.36	2.71	2.35	1.94	1.94	
20	8.72	6.01	8.72	13.40	10.82	10.82	1.36	4.36	2.65	2.35	2.00	1.94	
21	7.31	6.01	8.61	13.25	10.82	10.82	2.41	4.36	2.65	2.35	2.00	1.94	
22	6.37	7.12	8.50	13.10	10.82	9.72	2.41	4.36	2.65	2.29	2.00	1.89	
23	6.55	10.82	8.50	13.10	10.70	7.22	2.35	4.45	2.84	2.29	2.00	1.94	
24	6.65	5.83	8.40	13.10	10.82	5.56	2.29	4.45	2.78	2.23	2.00	1.89	
25	6.55	5.83	8.30	12.95	10.96	5.47	2.23	4.45	2.78	2.23	2.00	1.84	
26	6.65	6.10	8.20	12.80	11.10	4.20	2.78	4.45	2.78	2.23	2.00	1.84	
27	7.31	6.10	8.30	10.70	9.97	4.69	3.60	4.53	2.78	2.35	2.00	1.84	
28	8.40	5.56	8.40	10.45	11.37	4.61	3.60	4.61	2.46	2.58	2.00	1.84	
29	8.30	5.47	8.94	10.58	10.82	6.01	3.38	4.61	1.89	2.35		1.84	
30	8.30	5.47	11.23	9.84	8.40	4.36	1.45	4.61	2.23	2.23		1.78	
31		5.47		9.05	7.31		1.51		3.04	2.23		1.78	
Total	224.98	232.35	228.55	413.80	299.20	260.91	92.48	147.89	85.46	69.02	66.63	60.66	2181.93 CMSDAY
Mean	7.50	7.50	7.62	13.35	9.65	8.70	2.98	4.93	2.76	2.23	2.38	1.96	5.98 CMS
Max	9.97	11.65	12.20	16.81	11.37	11.65	4.95	6.10	4.12	2.71	3.17	2.12	16.81 CMS
Min	5.30	5.47	4.95	9.05	7.03	4.20	1.00	2.58	1.89	1.78	1.94	1.78	1.00 CMS
Runoff	19.438	20.075	19.747	35.752	25.851	22.543	7.990	12.778	7.384	5.963	5.757	5.241	188.519 MCM

Momentary Peak 32.88 CMS, at 246.86 M (MSL), at 16.00 Hours, on Jun 3, 1992

Runoff Yield 4.63 Liters/Second/Square KM, Momentary Peak Yield 25.45 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

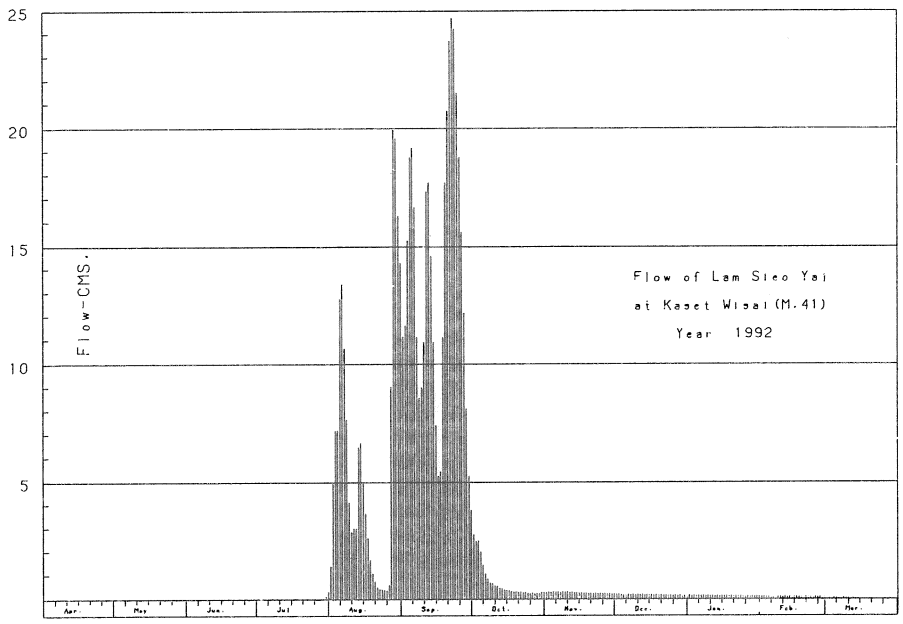
Lam Sieo Yai at Kaset Wisai, Roi Et (M.41)

Location	Lat. 15-38-46 N., Long. 103-33-55 E., on left bank at Tambon Kaset Wisai, Amphoe Kaset Wisai, Roi Et.
Drainage Area	1,310 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+125.30 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the automatic gage building.
Elevation	+128.419 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1971-1974, 1983 to date.
Rated by Float	-
Rated by Current Meter	1971-1974, 1983 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.91	125.69	125.67	125.92	127.17	127.77	127.32	126.72	126.52	126.39	126.25	126.12	
2	125.90	125.70	125.64	125.92	127.47	127.79	127.30	126.74	126.51	126.38	126.25	126.11	
3	125.90	125.70	125.64	125.93	127.60	127.91	127.30	126.75	126.50	126.38	126.25	126.09	
4	125.90	125.69	125.64	125.94	127.60	128.01	127.25	126.75	126.50	126.37	126.24	126.08	
5	125.89	125.69	125.63	125.96	127.83	128.02	127.18	126.75	126.49	126.37	126.22	126.08	
6	125.88	125.68	125.62	125.97	127.85	127.95	127.12	126.74	126.48	126.37	126.22	126.07	
7	125.86	125.66	125.61	125.98	127.75	127.77	127.07	126.73	126.48	126.37	126.21	126.07	
8	125.84	125.67	125.63	125.95	127.62	127.66	127.03	126.74	126.48	126.37	126.20	126.07	
9	125.82	125.67	125.66	125.95	127.42	127.68	127.02	126.75	126.46	126.36	126.22	126.06	
10	125.82	125.68	125.69	125.94	127.33	127.76	127.00	126.75	126.47	126.36	126.22	126.05	
11	125.81	125.67	125.71	125.93	127.34	127.97	126.98	126.73	126.47	126.35	126.22	126.04	
12	125.79	125.66	125.71	125.94	127.34	127.98	126.95	126.71	126.47	126.35	126.21	126.04	
13	125.79	125.64	125.71	125.91	127.56	127.89	126.93	126.69	126.45	126.34	126.21	126.04	
14	125.79	125.61	125.71	125.98	127.57	127.76	126.91	126.67	126.44	126.34	126.21	126.04	
15	125.78	125.60	125.72	125.98	127.47	127.61	126.88	126.67	126.44	126.34	126.21	126.05	
16	125.78	125.60	125.71	125.97	127.39	127.49	126.88	126.65	126.44	126.33	126.21	126.04	
17	125.78	125.61	125.73	125.95	127.31	127.50	126.81	126.64	126.44	126.32	126.21	126.03	
18	125.76	125.61	125.74	125.93	127.21	127.77	126.79	126.62	126.44	126.32	126.21	126.02	
19	125.75	125.61	125.74	125.91	127.12	127.98	126.77	126.62	126.43	126.32	126.20	126.01	
20	125.74	125.60	125.73	125.89	127.04	128.06	126.75	126.61	126.42	126.32	126.20	126.00	
21	125.72	125.59	125.76	125.87	126.97	128.13	126.73	126.61	126.42	126.32	126.20	126.00	
22	125.71	125.60	125.81	125.85	126.92	128.15	126.71	126.59	126.41	126.32	126.20	125.99	
23	125.71	125.62	125.85	125.83	126.92	128.14	126.69	126.59	126.41	126.31	126.20	125.99	
24	125.71	125.62	125.89	125.83	126.90	128.08	126.66	126.59	126.40	126.30	126.19	125.98	
25	125.67	125.63	125.93	125.84	126.90	128.01	126.62	126.59	126.40	126.28	126.18	125.98	
26	125.67	125.65	125.92	125.84	127.01	127.92	126.62	126.58	126.40	126.28	126.18	125.98	
27	125.67	125.67	125.93	125.85	127.68	127.81	126.58	126.57	126.40	126.27	126.16	125.97	
28	125.67	125.67	125.92	125.88	128.04	127.64	126.58	126.56	126.40	126.27	126.14	125.97	
29	125.69	125.67	125.92	125.99	128.03	127.49	126.62	126.55	126.40	126.26		125.96	
30	125.68	125.67	125.92	126.26	127.94	127.40	126.69	126.54	126.39	126.26		125.95	
31		125.68		126.75	127.88		126.70		126.38	126.25		125.94	
Mean	125.78	125.65	125.75	125.96	127.43	127.84	126.89	126.66	126.44	126.33	126.21	126.03	
Max	125.91	125.70	125.93	126.75	128.04	128.15	127.32	126.75	126.52	126.39	126.25	126.12	128.15
Min	125.67	125.59	125.61	125.83	126.90	127.40	126.58	126.54	126.38	126.25	126.14	125.94	125.59

Annual Max Momentary Gage Height 128.15 M (MSL), at 24.00 Hours, on Sep 22, 1992
Zero Gage at Bottom Elevation 125.30 M (MSL), River Bed 125.06 M (MSL)
Left Bank Elevation 130.89 M (MSL)
Right Bank Elevation 130.84 M (MSL), Drainage Area 1310 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.00	0.00	0.04	1.41	11.18	2.76	0.31	0.23	0.18	0.13	0.10	
2	0.03	0.00	0.00	0.04	4.96	11.66	2.50	0.32	0.22	0.17	0.13	0.09	
3	0.03	0.00	0.00	0.04	7.20	15.25	2.50	0.33	0.22	0.17	0.13	0.09	
4	0.03	0.00	0.00	0.04	7.20	18.79	2.04	0.33	0.22	0.17	0.13	0.08	
5	0.03	0.00	0.00	0.05	12.80	19.18	1.46	0.33	0.22	0.17	0.13	0.08	
6	0.03	0.00	0.00	0.05	13.40	16.65	1.12	0.32	0.21	0.17	0.13	0.08	
7	0.02	0.00	0.00	0.05	10.70	11.18	0.88	0.32	0.21	0.17	0.12	0.08	
8	0.02	0.00	0.00	0.04	7.66	8.58	0.72	0.32	0.21	0.17	0.12	0.08	
9	0.01	0.00	0.00	0.04	4.13	9.04	0.68	0.33	0.20	0.17	0.13	0.08	
10	0.01	0.00	0.00	0.04	2.89	10.94	0.60	0.33	0.21	0.17	0.13	0.08	
11	0.01	0.00	0.00	0.04	3.02	17.35	0.56	0.32	0.21	0.16	0.13	0.07	
12	0.01	0.00	0.00	0.04	3.02	17.70	0.50	0.31	0.21	0.16	0.12	0.07	
13	0.01	0.00	0.00	0.03	6.50	14.60	0.46	0.30	0.20	0.16	0.12	0.07	
14	0.01	0.00	0.00	0.05	6.68	10.94	0.42	0.29	0.20	0.16	0.12	0.07	
15	0.01	0.00	0.00	0.05	4.96	7.43	0.39	0.29	0.20	0.16	0.12	0.08	
16	0.01	0.00	0.00	0.05	3.67	5.28	0.39	0.28	0.20	0.16	0.12	0.07	
17	0.01	0.00	0.00	0.04	2.63	5.45	0.35	0.28	0.20	0.16	0.12	0.07	
18	0.01	0.00	0.00	0.04	1.67	11.18	0.34	0.27	0.20	0.16	0.12	0.07	
19	0.01	0.00	0.00	0.03	1.12	17.70	0.33	0.27	0.19	0.16	0.12	0.06	
20	0.00	0.00	0.00	0.03	0.76	20.74	0.33	0.26	0.19	0.16	0.12	0.06	
21	0.00	0.00	0.01	0.02	0.54	23.74	0.32	0.26	0.19	0.16	0.12	0.06	
22	0.00	0.00	0.01	0.02	0.44	24.70	0.31	0.26	0.18	0.16	0.12	0.06	
23	0.00	0.00	0.02	0.02	0.44	24.22	0.30	0.26	0.18	0.15	0.12	0.06	
24	0.00	0.00	0.03	0.02	0.40	21.52	0.28	0.26	0.18	0.15	0.12	0.05	
25	0.00	0.00	0.04	0.02	0.40	18.79	0.27	0.26	0.18	0.14	0.11	0.05	
26	0.00	0.00	0.04	0.02	0.64	15.60	0.27	0.25	0.18	0.14	0.11	0.05	
27	0.00	0.00	0.04	0.02	9.04	12.20	0.25	0.25	0.18	0.14	0.11	0.05	
28	0.00	0.00	0.04	0.03	19.96	8.12	0.25	0.24	0.18	0.14	0.10	0.05	
29	0.00	0.00	0.04	0.06	19.57	5.28	0.27	0.24	0.18	0.14		0.05	
30	0.00	0.00	0.04	0.14	16.30	3.80	0.30	0.24	0.18	0.14		0.04	
31		0.00		0.33	14.30		0.30		0.17	0.13		0.04	
Total	0.33	0.00	0.31	1.53	188.41	418.79	22.45	8.63	6.13	4.90	3.40	2.09	656.97 CMSDAY
Mean	0.01	0.00	0.01	0.05	6.08	13.96	0.72	0.29	0.20	0.16	0.12	0.07	1.80 CMS
Max	0.03	0.00	0.04	0.33	19.96	24.70	2.76	0.33	0.23	0.18	0.13	0.10	24.70 CMS
Min	0.00	0.00	0.00	0.02	0.40	3.80	0.25	0.24	0.17	0.13	0.10	0.04	0.00 CMS
Runoff	0.029	0.000	0.027	0.132	16.279	36.183	1.940	0.746	0.530	0.423	0.294	0.181	56.762 MCM

Momentary Peak 24.70 CMS, at 128.15 M (MSL), at 24.00 Hours, on Sep 22, 1992

Runoff Yield 1.37 Liters/Second/Square KM, Momentary Peak Yield 18.85 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

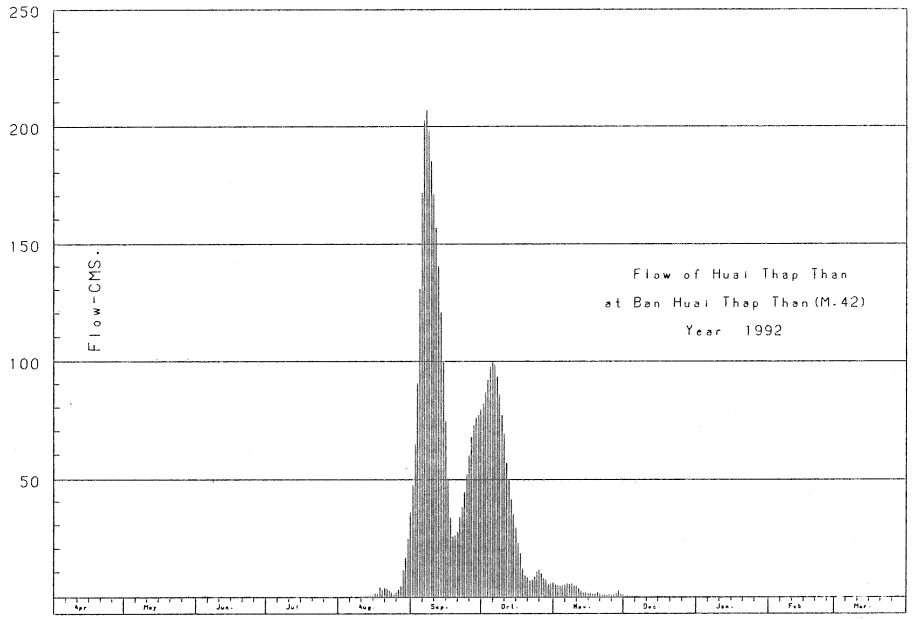
Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42)

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.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.31	0.54	0.47	0.57	5.08	6.54	1.61	0.70	1.61	2.38	2.53	
2	0.38	0.31	0.63	0.42	0.55	5.91	6.70	1.51	0.65	1.68	2.39	2.53	
3	0.38	0.31	0.88	0.41	0.53	6.82	6.87	1.52	0.61	1.73	2.40	2.54	
4	0.35	0.31	0.75	0.40	0.50	7.81	7.04	1.49	0.60	1.79	2.41	2.54	
5	0.35	0.31	0.58	0.43	0.45	8.46	7.10	1.60	0.55	1.84	2.43	2.54	
6	0.36	0.31	0.54	0.40	0.53	8.83	7.06	1.64	0.54	1.87	2.43	2.54	
7	0.36	0.31	0.53	0.41	0.48	8.88	6.92	1.64	0.52	1.90	2.44	2.54	
8	0.33	0.31	0.50	0.42	0.56	8.78	6.66	1.62	0.56	1.93	2.45	2.53	
9	0.37	0.31	0.46	0.44	0.57	8.63	6.38	1.56	0.59	1.96	2.45	2.53	
10	0.38	0.31	0.44	0.43	0.54	8.45	6.07	1.49	0.51	1.98	2.46	2.53	
11	0.36	0.23	0.42	0.44	0.56	8.25	5.54	1.37	0.48	2.03	2.47	2.53	
12	0.35	0.25	0.40	0.42	0.61	7.98	5.19	1.17	0.48	2.05	2.48	2.53	
13	0.35	0.28	0.39	0.40	0.67	7.62	4.75	1.08	0.45	2.08	2.48	2.53	
14	0.35	0.34	0.40	0.40	0.68	7.10	4.34	1.08	0.45	2.10	2.48	2.53	
15	0.36	0.33	0.41	0.42	0.71	6.29	4.01	1.05	0.51	2.12	2.48	2.73	
16	0.35	0.35	0.41	0.40	1.06	5.21	3.42	1.01	0.46	2.14	2.48	2.86	
17	0.35	0.62	0.43	0.40	0.94	4.27	3.07	0.96	0.66	2.17	2.50	2.90	
18	0.35	0.58	0.43	0.41	1.45	3.69	2.39	0.95	0.46	2.18	2.51	2.90	
19	0.35	0.60	0.38	0.40	1.23	3.70	2.10	1.11	0.44	2.20	2.51	2.90	
20	0.36	0.48	0.47	0.41	1.40	3.86	1.95	0.92	0.44	2.23	2.52	2.90	
21	0.33	0.43	0.73	0.41	1.32	4.27	1.78	0.85	0.44	2.23	2.52	2.90	
22	0.31	0.55	0.68	0.40	1.24	4.55	1.88	0.90	0.44	2.25	2.52	2.90	
23	0.31	0.49	0.54	0.43	1.05	4.90	2.04	0.88	0.43	2.27	2.52	2.87	
24	0.31	0.48	0.51	0.44	0.94	5.31	2.25	0.82	0.77	2.28	2.52	2.83	
25	0.31	0.47	0.44	0.46	1.06	5.70	2.35	0.75	0.96	2.30	2.52	2.80	
26	0.31	0.52	0.43	0.50	1.24	6.01	2.21	0.74	1.12	2.32	2.52	2.79	
27	0.31	0.64	0.41	0.49	1.53	6.22	1.95	1.03	1.23	2.33	2.52	2.77	
28	0.31	0.60	0.43	0.44	2.37	6.33	1.85	1.15	1.30	2.34	2.52	2.76	
29	0.31	0.63	0.41	0.46	2.87	6.38	1.62	0.98	1.39	2.35		2.75	
30	0.31	0.60	0.44	0.64	3.61	6.45	1.63	0.81	1.46	2.36		2.74	
31		0.54		0.63	4.41		1.69		1.54	2.38		2.74	
Mean	0.34	0.42	0.50	0.44	1.17	6.39	4.04	1.18	0.70	2.10	2.48	2.69	
Max	0.38	0.64	0.88	0.64	4.41	8.88	7.10	1.64	1.54	2.38	2.52	2.90	8.88
Min	0.31	0.23	0.38	0.40	0.45	3.69	1.62	0.74	0.43	1.61	2.38	2.53	0.23

Annual Max Momentary Gage Height 8.89 M (A.D), at 6.00 Hours, on Sep 7, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.16 M (A.D)
Left Bank Elevation 10.07 M (A.D)
Right Bank Elevation 10.21 M (A.D), Drainage Area 1794 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.01	0.28	0.17	0.34	47.62	82.20	5.37	0.60	0.00	0.00	0.00	
2	0.08	0.01	0.46	0.12	0.30	65.06	87.00	4.67	0.50	0.00	0.00	0.00	
3	0.08	0.01	0.96	0.11	0.26	90.60	92.10	4.74	0.42	0.00	0.00	0.00	
4	0.05	0.01	0.70	0.10	0.20	131.14	97.84	4.53	0.40	0.00	0.00	0.00	
5	0.05	0.01	0.36	0.13	0.15	171.88	100.00	5.30	0.30	0.00	0.00	0.00	
6	0.06	0.01	0.28	0.10	0.26	202.70	98.56	5.58	0.28	0.00	0.00	0.00	
7	0.06	0.01	0.26	0.11	0.18	207.20	93.68	5.58	0.24	0.00	0.00	0.00	
8	0.03	0.01	0.20	0.12	0.32	198.24	85.80	5.44	0.32	0.00	0.00	0.00	
9	0.07	0.01	0.16	0.14	0.34	185.46	77.44	5.02	0.38	0.00	0.00	0.00	
10	0.08	0.01	0.14	0.13	0.28	171.10	69.22	4.53	0.22	0.00	0.00	0.00	
11	0.06	0.00	0.12	0.14	0.32	156.80	56.80	3.69	0.18	0.00	0.00	0.00	
12	0.05	0.00	0.10	0.12	0.42	140.40	49.80	2.42	0.18	0.00	0.00	0.00	
13	0.05	0.00	0.09	0.10	0.54	121.06	41.75	1.88	0.15	0.00	0.00	0.00	
14	0.05	0.04	0.10	0.10	0.56	100.00	34.94	1.88	0.15	0.00	0.00	0.00	
15	0.06	0.03	0.11	0.12	0.62	74.94	29.66	1.70	0.22	0.00	0.00	0.00	
16	0.05	0.05	0.11	0.10	1.76	50.20	22.62	1.46	0.16	0.00	0.00	0.00	
17	0.05	0.44	0.13	0.10	1.16	33.82	18.77	1.24	0.52	0.00	0.00	0.00	
18	0.05	0.36	0.13	0.11	4.25	25.78	11.71	1.20	0.16	0.00	0.00	0.00	
19	0.05	0.40	0.08	0.10	2.78	25.90	9.20	2.06	0.14	0.00	0.00	0.00	
20	0.06	0.18	0.17	0.11	3.90	27.82	8.00	1.08	0.14	0.00	0.00	0.00	
21	0.03	0.13	0.66	0.11	3.34	33.82	6.64	0.90	0.14	0.00	0.00	0.00	
22	0.01	0.30	0.56	0.10	2.84	38.35	7.44	1.00	0.14	0.00	0.00	0.00	
23	0.01	0.19	0.28	0.13	1.70	44.30	8.72	0.96	0.13	0.00	0.00	0.00	
24	0.01	0.18	0.22	0.14	1.16	52.20	10.45	0.84	0.00	0.00	0.00	0.00	
25	0.01	0.17	0.14	0.16	1.76	60.00	11.35	0.70	0.00	0.00	0.00	0.00	
26	0.01	0.24	0.13	0.20	2.84	67.66	10.09	0.68	0.00	0.00	0.00	0.00	
27	0.01	0.48	0.11	0.19	4.81	73.12	8.00	1.58	0.00	0.00	0.00	0.00	
28	0.01	0.40	0.13	0.14	11.53	76.04	7.20	2.30	0.00	0.00	0.00	0.00	
29	0.01	0.46	0.11	0.16	16.57	77.44	5.44	1.32	0.00	0.00		0.00	
30	0.01	0.40	0.14	0.48	24.82	79.50	5.51	0.82	0.00	0.00		0.00	
31		0.28		0.46	36.06		5.93		0.00	0.00		0.00	
Total	1.26	4.83	7.42	4.60	126.37	2830.15	1253.86	80.47	6.07	0.00	0.00	0.00	4315.03 CMSDAY
Mean	0.04	0.16	0.25	0.15	4.08	94.34	40.45	2.68	0.20	0.00	0.00	0.00	11.82 CMS
Max	0.08	0.48	0.96	0.48	36.06	207.20	100.00	5.58	0.60	0.00	0.00	0.00	207.20 CMS
Min	0.01	0.00	0.08	0.10	0.15	25.78	5.44	0.68	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.109	0.417	0.641	0.397	10.918	244.525	108.333	6.953	0.524	0.000	0.000	0.000	372.819 MCM

Momentary Peak 208.10 CMS, at 8.89 M (A.D), at 6.00 Hours, on Sep 7, 1992

Runoff Yield 6.59 Liters/Second/Square KM, Momentary Peak Yield 116.00 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

Lam Takhong at Ban Mu Si, Nakhon Ratchasima (M.43A)

Location — Lat. 14-30-43 N., Long. 101-22-49 E., on left bank about 2 kilometers downstream from M.43, Amphoe Pak Chong, Nakhon Ratchasima.

Drainage Area — 173 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 — +6.135 m.(A.D.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1989 to date.

Rating Operation

Period of Rating — 1989 to date.

Rated by Float —

Rated by Current Meter — 1989 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 39 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

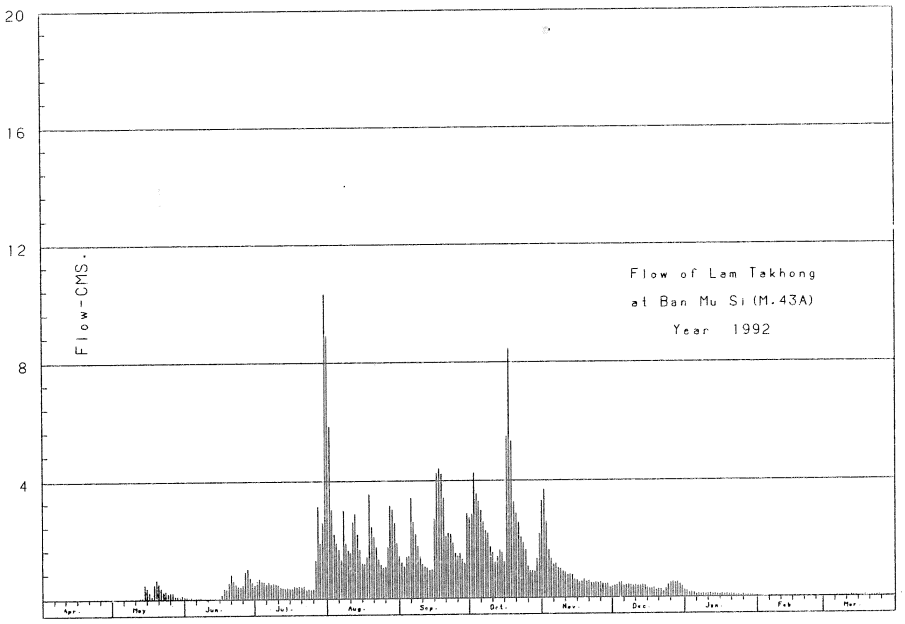
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.05	0.20	0.62	0.30	0.44	0.50	0.16	0.12	0.02	0.02	
2	0.01	0.01	0.05	0.21	0.45	0.28	0.53	0.42	0.16	0.11	0.01	0.02	
3	0.01	0.01	0.05	0.20	0.39	0.32	0.49	0.34	0.18	0.11	0.01	0.02	
4	0.01	0.01	0.04	0.19	0.36	0.32	0.47	0.31	0.18	0.11	0.01	0.02	
5	0.01	0.01	0.04	0.18	0.34	0.48	0.45	0.29	0.16	0.10	0.02	0.02	
6	0.01	0.01	0.04	0.19	0.31	0.42	0.42	0.29	0.16	0.10	0.02	0.02	
7	0.01	0.01	0.04	0.18	0.45	0.39	0.40	0.27	0.17	0.10	0.02	0.02	
8	0.01	0.01	0.03	0.18	0.36	0.35	0.39	0.26	0.16	0.10	0.02	0.02	
9	0.01	0.01	0.03	0.18	0.34	0.32	0.35	0.25	0.16	0.10	0.02	0.02	
10	0.01	0.01	0.02	0.17	0.33	0.29	0.33	0.24	0.16	0.10	0.02	0.02	
11	0.01	0.01	0.02	0.16	0.42	0.28	0.30	0.23	0.16	0.10	0.02	0.02	
12	0.01	0.06	0.02	0.15	0.44	0.27	0.32	0.23	0.16	0.10	0.02	0.06	
13	0.01	0.06	0.02	0.15	0.39	0.26	0.34	0.23	0.16	0.09	0.02	0.04	
14	0.01	0.18	0.02	0.15	0.34	0.26	0.33	0.20	0.16	0.09	0.02	0.03	
15	0.01	0.15	0.03	0.15	0.30	0.43	0.30	0.20	0.14	0.09	0.02	0.02	
16	0.01	0.13	0.11	0.15	0.29	0.53	0.60	0.18	0.14	0.09	0.02	0.05	
17	0.01	0.10	0.15	0.16	0.32	0.54	0.75	0.19	0.14	0.09	0.02	0.06	
18	0.01	0.18	0.14	0.16	0.49	0.53	0.59	0.20	0.14	0.09	0.02	0.04	
19	0.01	0.21	0.19	0.16	0.41	0.48	0.47	0.19	0.13	0.09	0.02	0.02	
20	0.01	0.18	0.24	0.16	0.38	0.38	0.44	0.19	0.13	0.08	0.02	0.02	
21	0.01	0.15	0.20	0.16	0.35	0.39	0.42	0.18	0.13	0.07	0.02	0.03	
22	0.01	0.13	0.18	0.14	0.31	0.39	0.38	0.18	0.12	0.06	0.02	0.04	
23	0.01	0.13	0.16	0.14	0.29	0.36	0.36	0.18	0.14	0.05	0.02	0.05	
24	0.01	0.12	0.16	0.14	0.27	0.33	0.34	0.18	0.16	0.05	0.02	0.04	
25	0.01	0.12	0.17	0.14	0.28	0.32	0.28	0.18	0.18	0.07	0.02	0.03	
26	0.01	0.12	0.25	0.31	0.35	0.33	0.25	0.17	0.18	0.06	0.02	0.03	
27	0.01	0.10	0.27	0.46	0.46	0.31	0.25	0.17	0.18	0.06	0.02	0.03	
28	0.01	0.08	0.22	0.36	0.45	0.30	0.25	0.17	0.18	0.06	0.02	0.03	
29	0.01	0.08	0.19	0.42	0.42	0.44	0.31	0.15	0.17	0.04		0.03	
30	0.01	0.10	0.17	0.83	0.36	0.43	0.39	0.15	0.15	0.03		0.03	
31		0.08		0.77	0.32		0.47		0.13	0.02		0.03	
Mean	0.01	0.08	0.11	0.24	0.37	0.37	0.40	0.23	0.16	0.08	0.02	0.03	
Max	0.01	0.21	0.27	0.83	0.62	0.54	0.75	0.50	0.18	0.12	0.02	0.06	0.83
Min	0.01	0.01	0.02	0.14	0.27	0.26	0.25	0.15	0.12	0.02	0.01	0.02	0.01

Annual Max Momentary Gage Height — 0.95 M (A.D), at 13.00 Hours, on Jul 30, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.12 M (A.D)

Left Bank Elevation — 3.76 M (A.D)

Right Bank Elevation — 3.09 M (A.D), Drainage Area 173 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.05	0.60	5.86	1.20	2.86	3.70	0.40	0.20	0.02	0.02	
2	0.01	0.01	0.05	0.66	3.00	1.08	4.24	2.58	0.40	0.15	0.01	0.02	
3	0.01	0.01	0.05	0.60	2.19	1.42	3.56	1.64	0.50	0.15	0.01	0.02	
4	0.01	0.01	0.04	0.55	1.86	1.42	3.28	1.31	0.50	0.15	0.01	0.02	
5	0.01	0.01	0.04	0.50	1.64	3.42	3.00	1.14	0.40	0.10	0.02	0.02	
6	0.01	0.01	0.04	0.55	1.31	2.58	2.58	1.14	0.40	0.10	0.02	0.02	
7	0.01	0.01	0.04	0.50	3.00	2.19	2.30	1.02	0.45	0.10	0.02	0.02	
8	0.01	0.01	0.03	0.50	1.86	1.75	2.19	0.96	0.40	0.10	0.02	0.02	
9	0.01	0.01	0.03	0.50	1.64	1.42	1.75	0.90	0.40	0.10	0.02	0.02	
10	0.01	0.01	0.02	0.45	1.53	1.14	1.53	0.84	0.40	0.10	0.02	0.02	
11	0.01	0.01	0.02	0.40	2.58	1.08	1.20	0.78	0.40	0.10	0.02	0.02	
12	0.01	0.06	0.02	0.35	2.86	1.02	1.42	0.78	0.40	0.10	0.02	0.06	
13	0.01	0.06	0.02	0.35	2.19	0.96	1.64	0.78	0.40	0.09	0.02	0.04	
14	0.01	0.50	0.02	0.35	1.64	0.96	1.53	0.60	0.40	0.09	0.02	0.03	
15	0.01	0.35	0.03	0.35	1.20	2.72	1.20	0.60	0.30	0.09	0.02	0.02	
16	0.01	0.25	0.15	0.35	1.14	4.24	5.50	0.50	0.30	0.09	0.02	0.05	
17	0.01	0.10	0.35	0.40	1.42	4.42	8.45	0.55	0.30	0.09	0.02	0.06	
18	0.01	0.50	0.30	0.40	3.56	4.24	5.32	0.60	0.30	0.09	0.02	0.04	
19	0.01	0.66	0.55	0.40	2.44	3.42	3.28	0.55	0.25	0.09	0.02	0.02	
20	0.01	0.50	0.84	0.40	2.08	2.08	2.86	0.55	0.25	0.08	0.02	0.02	
21	0.01	0.35	0.60	0.40	1.75	2.19	2.58	0.50	0.25	0.07	0.02	0.03	
22	0.01	0.25	0.50	0.30	1.31	2.19	2.08	0.50	0.20	0.06	0.02	0.04	
23	0.01	0.25	0.40	0.30	1.14	1.86	1.86	0.50	0.30	0.05	0.02	0.05	
24	0.01	0.20	0.40	0.30	1.02	1.53	1.64	0.50	0.40	0.05	0.02	0.04	
25	0.01	0.20	0.45	0.30	1.08	1.42	1.08	0.50	0.50	0.07	0.02	0.03	
26	0.01	0.20	0.90	1.31	1.75	1.53	0.90	0.45	0.50	0.06	0.02	0.03	
27	0.01	0.10	1.02	3.14	3.14	1.31	0.90	0.45	0.50	0.06	0.02	0.03	
28	0.01	0.08	0.72	1.86	3.00	1.20	0.90	0.45	0.50	0.06	0.02	0.03	
29	0.01	0.08	0.55	2.58	2.58	2.86	1.31	0.35	0.45	0.04		0.03	
30	0.01	0.10	0.45	10.35	1.86	2.72	2.19	0.35	0.35	0.03		0.03	
31		0.08		8.91	1.42		3.28		0.25	0.02		0.03	
Total	0.30	4.98	8.68	38.91	65.05	61.57	78.41	26.07	11.75	2.73	0.53	0.93	299.91 CMSDAY
Mean	0.01	0.16	0.29	1.26	2.10	2.05	2.53	0.87	0.38	0.09	0.02	0.03	0.82 CMS
Max	0.01	0.66	1.02	10.35	5.86	4.42	8.45	3.70	0.50	0.20	0.02	0.06	10.35 CMS
Min	0.01	0.01	0.02	0.30	1.02	0.96	0.90	0.35	0.20	0.02	0.01	0.02	0.01 CMS
Runoff	0.026	0.430	0.750	3.362	5.620	5.320	6.775	2.252	1.015	0.236	0.046	0.080	25.912 MCM

Momentary Peak 13.55 CMS, at 0.95 M (A.D), at 13.00 Hours, on Jul 30, 1992

Runoff Yield 4.75 Liters/Second/Square KM, Momentary Peak Yield 78.32 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

Huai Khayung at Ban Nam Om, Si Sa Ket (M.66)

Location — Lat. 14°-38'-23" N., Long. 104°-39'-45" E., on right bank about 50 meters upstream from the bridge of Kantharalak-Det Udom Road, Ban Nam Om, Amphoe Kantharalak, Si Sa Ket.

Drainage Area — 586 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +0.00 m. (A.D.)

Bench Mark — B.M.-H.D.

Location — At the automatic gage building.

Elevation — +6.581 m. (A.D.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1965 to date.

Rating Operation

Period of Rating — 1965-1968, 1972 - 1981, 1987 to date.

Rated by Float —

Rated by Current Meter — 1965-1968, 1972 - 1981, 1987 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 27 discharge discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

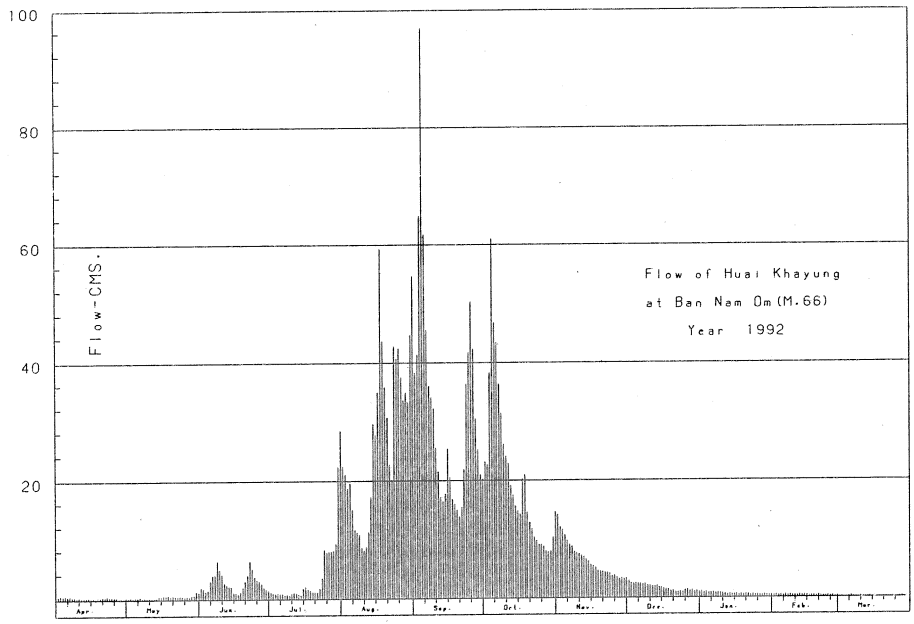
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.21	-0.29	-0.05	-0.10	1.01	1.56	1.04	0.66	0.01	-0.13	-0.25	-0.30	
2	-0.21	-0.29	-0.07	-0.15	0.96	1.66	1.02	0.56	-0.02	-0.14	-0.25	-0.30	
3	-0.21	-0.29	-0.10	-0.15	0.87	2.35	1.56	0.53	-0.02	-0.14	-0.25	-0.30	
4	-0.21	-0.28	-0.08	-0.15	0.91	3.20	2.24	0.49	-0.02	-0.15	-0.25	-0.30	
5	-0.22	-0.28	0.02	-0.15	0.71	2.26	1.82	0.43	-0.02	-0.15	-0.25	-0.30	
6	-0.22	-0.28	0.07	-0.17	0.54	1.78	1.72	0.39	-0.03	-0.16	-0.25	-0.30	
7	-0.25	-0.30	0.08	-0.18	0.51	1.49	1.50	0.38	-0.03	-0.16	-0.25	-0.30	
8	-0.26	-0.29	0.23	-0.19	0.49	1.42	1.33	0.32	-0.03	-0.17	-0.25	-0.30	
9	-0.27	-0.30	0.13	-0.19	0.37	1.36	1.14	0.30	-0.04	-0.16	-0.25	-0.30	
10	-0.28	-0.30	0.08	-0.16	0.34	1.12	1.07	0.29	-0.05	-0.19	-0.25	-0.30	
11	-0.28	-0.31	0.00	-0.13	0.37	0.98	1.03	0.28	-0.05	-0.20	-0.25	-0.30	
12	-0.28	-0.29	-0.03	-0.13	0.52	0.81	0.89	0.26	-0.05	-0.20	-0.25	-0.30	
13	-0.28	-0.28	-0.04	-0.18	0.81	0.78	0.82	0.24	-0.05	-0.20	-0.25	-0.30	
14	-0.29	-0.24	-0.05	-0.19	1.27	0.83	0.74	0.21	-0.06	-0.20	-0.25	-0.30	
15	-0.29	-0.24	-0.11	-0.06	1.20	1.12	0.69	0.18	-0.07	-0.20	-0.25	-0.30	
16	-0.30	-0.22	-0.14	-0.05	1.45	0.94	0.67	0.16	-0.08	-0.21	-0.25	-0.31	
17	-0.30	-0.20	-0.15	-0.07	2.19	0.80	0.93	0.15	-0.08	-0.22	-0.26	-0.31	
18	-0.29	-0.21	-0.12	-0.09	1.73	0.75	0.96	0.11	-0.09	-0.22	-0.27	-0.31	
19	-0.27	-0.22	-0.05	-0.10	1.48	0.70	0.68	0.11	-0.10	-0.22	-0.27	-0.31	
20	-0.26	-0.22	0.01	-0.12	1.31	0.65	0.60	0.10	-0.11	-0.22	-0.27	-0.31	
21	-0.25	-0.23	0.08	-0.13	1.02	0.73	0.54	0.10	-0.13	-0.23	-0.27	-0.31	
22	-0.24	-0.23	0.23	-0.06	0.93	0.99	0.47	0.10	-0.13	-0.23	-0.28	-0.31	
23	-0.25	-0.24	0.14	0.05	1.70	1.50	0.43	0.08	-0.14	-0.23	-0.28	-0.31	
24	-0.28	-0.25	0.06	0.34	1.64	1.67	0.40	0.06	-0.13	-0.23	-0.28	-0.31	
25	-0.25	-0.25	0.02	0.32	1.69	1.92	0.39	0.06	-0.10	-0.24	-0.28	-0.31	
26	-0.29	-0.25	0.01	0.32	1.54	1.69	0.37	0.04	-0.09	-0.24	-0.29	-0.32	
27	-0.33	-0.24	-0.01	0.33	1.41	1.30	0.33	0.03	-0.10	-0.24	-0.29	-0.29	
28	-0.31	-0.22	-0.05	0.33	1.45	1.11	0.31	0.03	-0.10	-0.24	-0.29	-0.30	
29	-0.30	-0.18	-0.08	0.41	1.39	0.96	0.33	0.03	-0.12	-0.25		-0.35	
30	-0.29	-0.10	-0.09	1.01	1.76	0.93	0.47	0.03	-0.12	-0.25		-0.31	
31		-0.10		1.23	2.05		0.69		-0.13	-0.25		-0.31	
Mean	-0.27	-0.25	0.00	0.05	1.15	1.31	0.88	0.22	-0.07	-0.20	-0.26	-0.31	
Max	-0.21	-0.10	0.23	1.23	2.19	3.20	2.24	0.66	0.01	-0.13	-0.25	-0.29	3.20
Min	-0.33	-0.31	-0.15	-0.19	0.34	0.65	0.31	0.03	-0.14	-0.25	-0.29	-0.35	-0.35

Annual Max Momentary Gage Height — 3.48 M (A.D), at 11.00 Hours, on Sep 4, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.55 M (A.D)

Left Bank Elevation — 6.76 M (A.D)

Right Bank Elevation — 6.96 M (A.D), Drainage Area 586 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.24	2.00	1.20	22.48	38.30	23.32	14.20	2.96	1.02	0.40	0.20	
2	0.56	0.24	1.68	0.90	21.12	41.48	22.76	12.20	2.48	0.96	0.40	0.20	
3	0.56	0.24	1.20	0.90	18.75	64.90	38.30	11.60	2.48	0.96	0.40	0.20	
4	0.56	0.28	1.52	0.90	19.77	97.00	61.16	10.82	2.48	0.90	0.40	0.20	
5	0.52	0.28	3.12	0.90	15.20	61.84	46.88	9.74	2.48	0.90	0.40	0.20	
6	0.52	0.28	3.92	0.78	11.80	45.52	43.48	9.04	2.32	0.84	0.40	0.20	
7	0.40	0.20	4.08	0.72	11.20	36.20	36.50	8.88	2.32	0.84	0.40	0.20	
8	0.36	0.24	6.48	0.66	10.82	34.10	31.47	7.92	2.32	0.78	0.40	0.20	
9	0.32	0.20	4.88	0.66	8.72	32.34	26.12	7.60	2.16	0.84	0.40	0.20	
10	0.28	0.20	4.08	0.84	8.24	25.56	24.16	7.44	2.00	0.66	0.40	0.20	
11	0.28	0.18	2.80	1.02	8.72	21.66	23.04	7.28	2.00	0.60	0.40	0.20	
12	0.28	0.24	2.32	1.02	11.40	17.25	19.25	6.96	2.00	0.60	0.40	0.20	
13	0.28	0.28	2.16	0.72	17.25	16.60	17.50	6.64	2.00	0.60	0.40	0.20	
14	0.24	0.44	2.00	0.66	29.76	17.75	15.80	6.16	1.84	0.60	0.40	0.20	
15	0.24	0.44	1.14	1.84	27.80	25.56	14.80	5.68	1.68	0.60	0.40	0.20	
16	0.20	0.52	0.96	2.00	35.00	20.58	14.40	5.36	1.52	0.56	0.40	0.18	
17	0.20	0.60	0.90	1.68	59.46	17.00	20.31	5.20	1.52	0.52	0.36	0.18	
18	0.24	0.56	1.08	1.36	43.82	16.00	21.12	4.56	1.36	0.52	0.32	0.18	
19	0.32	0.52	2.00	1.20	35.90	15.00	14.60	4.56	1.20	0.52	0.32	0.18	
20	0.36	0.52	2.96	1.08	30.89	14.00	13.00	4.40	1.14	0.52	0.32	0.18	
21	0.40	0.48	4.08	1.02	22.76	15.60	11.80	4.40	1.02	0.48	0.32	0.18	
22	0.44	0.48	6.48	1.84	20.31	21.93	10.46	4.40	1.02	0.48	0.28	0.18	
23	0.40	0.44	5.04	3.60	42.80	36.50	9.74	4.08	0.96	0.48	0.28	0.18	
24	0.28	0.40	3.76	8.24	40.82	41.81	9.20	3.76	1.02	0.48	0.28	0.18	
25	0.40	0.40	3.12	7.92	42.47	50.28	9.04	3.76	1.20	0.44	0.28	0.18	
26	0.24	0.40	2.96	7.92	37.70	42.47	8.72	3.44	1.36	0.44	0.24	0.16	
27	0.14	0.44	2.64	8.08	33.80	30.60	8.08	3.28	1.20	0.44	0.24	0.24	
28	0.18	0.52	2.00	8.08	35.00	25.28	7.76	3.28	1.20	0.44	0.24	0.20	
29	0.20	0.72	1.52	9.38	33.21	21.12	8.08	3.28	1.08	0.40		0.10	
30	0.24	1.20	1.36	22.48	44.84	20.31	10.46	3.28	1.08	0.40		0.18	
31		1.20		28.64	54.70		14.80		1.02	0.40		0.18	
Total	10.20	13.38	84.24	128.24	856.51	964.54	636.11	193.20	52.42	19.22	9.88	5.86	2973.80 CMSDAY
Mean	0.34	0.43	2.81	4.14	27.63	32.15	20.52	6.44	1.69	0.62	0.35	0.19	8.15 CMS
Max	0.56	1.20	6.48	28.64	59.46	97.00	61.16	14.20	2.96	1.02	0.40	0.24	97.00 CMS
Min	0.14	0.18	0.90	0.66	8.24	14.00	7.76	3.28	0.96	0.40	0.24	0.10	0.10 CMS
Runoff	0.881	1.156	7.278	11.080	74.002	83.336	54.960	16.692	4.529	1.661	0.854	0.506	256.936 MCM

Momentary Peak 108.20 CMS, at 3.48 M (A.D), at 11.00 Hours, on Sep 4, 1992

Runoff Yield 13.90 Liters/Second/Square KM, Momentary Peak Yield 184.64 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

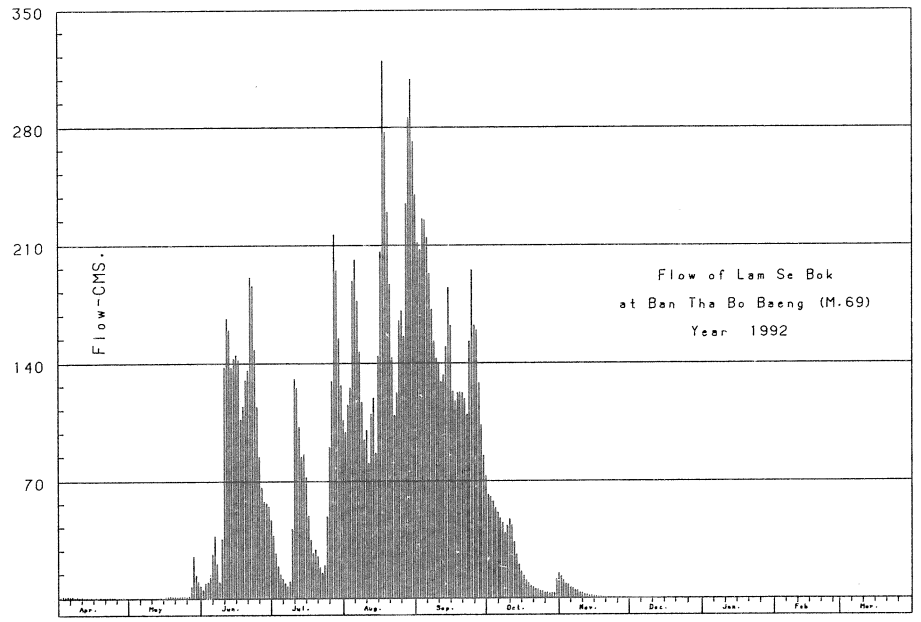
Lam Se Bok at Ban Tha Bo Baeng, Ubon Ratchathani (M.69)

Location	Lat. 15°-30'- 11" N., Long. 104°-58'-01" E., On left bank about 100 meters upstream from the bridge of Ubon-Trakan Phutphon Highway, Amphoe Trakan Phutphon, Ubon Ratchathani.
Drainage Area	2,132 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	Beside the automatic gage building.
Elevation	+9.985 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1969 to date
Rating Operation	
Period of Rating	1971, 1973 to date.
Rated by Float	-
Rated by Current Meter	1971, 1973 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.78	0.68	1.16	2.27	3.70	6.36	4.10	2.51	0.92	0.73	0.59	0.61	
2	0.81	0.67	1.33	1.96	4.02	6.32	4.07	2.34	0.91	0.73	0.59	0.60	
3	0.82	0.68	1.38	1.71	4.20	6.52	4.02	2.19	0.89	0.75	0.60	0.62	
4	0.83	0.68	1.48	1.54	5.24	6.51	3.93	2.10	0.90	0.75	0.61	0.62	
5	0.82	0.66	1.96	1.45	5.42	6.40	3.87	1.96	0.88	0.75	0.61	0.63	
6	0.79	0.66	2.26	1.35	5.06	6.14	3.78	1.86	0.85	0.74	0.62	0.64	
7	0.77	0.65	1.75	1.25	4.58	5.88	3.71	1.77	0.85	0.73	0.62	0.63	
8	0.76	0.65	1.37	1.39	4.05	5.63	3.55	1.69	0.85	0.73	0.62	0.61	
9	0.75	0.65	2.22	2.39	3.61	5.49	3.67	1.59	0.84	0.72	0.61	0.60	
10	0.75	0.65	4.43	4.30	3.73	5.45	3.78	1.51	0.83	0.71	0.60	0.59	
11	0.74	0.66	4.90	4.20	4.47	5.28	3.67	1.45	0.82	0.70	0.60	0.59	
12	0.73	0.66	4.79	3.77	4.98	5.34	3.39	1.38	0.80	0.68	0.60	0.59	
13	0.73	0.67	4.42	3.41	5.13	5.59	3.13	1.33	0.80	0.68	0.60	0.60	
14	0.72	0.69	4.52	3.44	4.60	6.04	2.91	1.30	0.79	0.67	0.60	0.62	
15	0.71	0.70	4.55	3.16	5.51	5.76	2.69	1.28	0.78	0.66	0.61	0.64	
16	0.71	0.82	4.50	2.58	7.10	5.19	2.52	1.24	0.77	0.64	0.60	0.64	
17	0.73	0.84	3.86	2.20	7.20	5.10	2.35	1.22	0.78	0.64	0.61	0.64	
18	0.73	0.81	4.00	1.96	6.97	5.18	2.19	1.20	0.78	0.63	0.60	0.63	
19	0.74	0.79	4.29	2.03	6.56	5.18	2.06	1.18	0.76	0.62	0.60	0.63	
20	0.74	0.80	4.39	1.91	6.06	5.18	1.95	1.14	0.76	0.63	0.60	0.61	
21	0.73	0.80	5.27	1.68	5.49	5.12	1.85	1.10	0.76	0.62	0.60	0.62	
22	0.73	0.82	5.20	1.58	4.97	4.98	1.77	1.07	0.74	0.61	0.59	0.62	
23	0.73	0.83	4.61	1.72	5.18	5.63	1.71	1.04	0.74	0.61	0.60	0.63	
24	0.73	0.81	4.00	2.58	5.79	6.17	1.64	1.02	0.73	0.60	0.60	0.64	
25	0.71	0.81	3.41	3.53	5.87	5.76	1.57	1.00	0.72	0.59	0.60	0.63	
26	0.71	0.85	3.01	4.27	5.67	5.72	1.54	0.98	0.73	0.59	0.61	0.62	
27	0.71	1.26	2.79	5.63	6.61	5.27	1.51	0.97	0.73	0.59	0.62	0.61	
28	0.70	1.90	2.78	5.33	7.17	4.87	1.50	0.96	0.73	0.58	0.61	0.60	
29	0.70	1.54	2.72	4.72	7.19	4.57	1.54	0.95	0.73	0.58		0.60	
30	0.70	1.37	2.53	4.23	6.93	4.32	2.40	0.94	0.72	0.58		0.59	
31		1.25		3.84	6.66		2.61		0.72	0.59		0.60	
Mean	0.74	0.85	3.33	2.82	5.47	5.57	2.74	1.41	0.79	0.66	0.60	0.62	
Max	0.83	1.90	5.27	5.63	7.20	6.52	4.10	2.51	0.92	0.75	0.62	0.64	7.20
Min	0.70	0.65	1.16	1.25	3.61	4.32	1.50	0.94	0.72	0.58	0.59	0.59	0.58

Annual Max Momentary Gage Height 7.25 M (A.D), at 18.00 Hours, on Aug 17, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.50 M (A.D)
Left Bank Elevation 9.37 M (A.D)
Right Bank Elevation 9.94 M (A.D), Drainage Area 2132 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.08	0.52	5.40	37.45	99.00	212.60	63.00	46.40	2.04	0.78	0.18	0.24	
2	1.26	0.48	8.92	26.80	115.60	209.20	61.50	39.90	1.92	0.78	0.18	0.20	
3	1.32	0.52	10.12	19.30	125.50	227.40	59.00	34.65	1.74	0.90	0.20	0.28	
4	1.38	0.52	12.52	14.20	189.10	226.45	55.20	31.50	1.80	0.90	0.24	0.28	
5	1.32	0.44	26.80	11.80	201.40	216.00	52.80	26.80	1.68	0.90	0.24	0.32	
6	1.14	0.44	37.10	9.40	177.40	193.90	49.20	23.80	1.50	0.84	0.28	0.36	
7	1.02	0.40	20.50	7.20	146.80	173.00	46.40	21.10	1.50	0.78	0.28	0.32	
8	0.96	0.40	9.88	10.36	117.25	154.25	40.75	18.70	1.50	0.78	0.28	0.24	
9	0.90	0.40	35.70	41.65	94.50	144.30	44.80	15.70	1.44	0.72	0.24	0.20	
10	0.90	0.40	138.15	131.00	100.50	141.50	49.20	13.30	1.38	0.66	0.20	0.18	
11	0.84	0.44	167.00	125.50	81.85	129.60	44.80	11.80	1.32	0.60	0.20	0.18	
12	0.78	0.44	159.85	102.50	110.80	133.80	36.80	10.12	1.20	0.52	0.20	0.18	
13	0.78	0.48	137.60	84.50	119.80	151.30	31.95	8.92	1.20	0.52	0.20	0.20	
14	0.72	0.56	143.20	86.00	89.00	185.40	29.55	8.20	1.14	0.48	0.20	0.28	
15	0.66	0.60	145.00	72.70	145.70	164.00	29.55	7.80	1.08	0.44	0.24	0.36	
16	0.66	1.32	142.00	49.20	304.00	123.40	30.80	7.00	1.02	0.36	0.20	0.36	
17	0.78	1.44	107.00	35.00	324.00	118.00	32.50	6.60	1.08	0.36	0.24	0.36	
18	0.78	1.26	114.50	26.80	279.80	122.80	33.70	6.20	1.08	0.32	0.20	0.32	
19	0.84	1.14	130.45	29.05	231.20	122.80	30.10	5.80	0.96	0.28	0.20	0.32	
20	0.84	1.20	135.95	25.30	187.10	122.80	26.50	5.00	0.96	0.32	0.20	0.24	
21	0.78	1.20	191.05	18.40	144.30	119.20	23.50	4.20	0.96	0.28	0.20	0.28	
22	0.78	1.32	186.50	15.40	110.20	110.80	21.10	3.84	0.84	0.24	0.18	0.28	
23	0.78	1.38	148.60	19.60	122.80	154.25	19.30	3.48	0.84	0.24	0.20	0.32	
24	0.78	1.26	114.50	49.20	166.25	196.45	17.20	3.24	0.78	0.20	0.20	0.36	
25	0.66	1.26	84.50	90.50	172.25	164.00	15.10	3.00	0.72	0.18	0.20	0.32	
26	0.66	1.50	66.40	129.35	157.25	161.00	14.20	2.76	0.78	0.18	0.24	0.28	
27	0.66	7.40	57.60	216.75	236.05	128.90	13.30	2.64	0.78	0.18	0.28	0.24	
28	0.60	25.00	57.20	195.10	318.00	104.20	13.00	2.52	0.78	0.16	0.24	0.20	
29	0.60	14.20	54.80	155.30	322.00	87.35	14.20	2.40	0.78	0.16		0.20	
30	0.60	9.88	47.20	127.15	274.20	74.00	42.00	2.28	0.72	0.16		0.18	
31		7.20		106.00	241.30		50.40		0.72	0.18		0.20	
Total	25.86	85.00	2695.99	2068.46	5504.90	4572.65	1091.40	379.65	36.24	14.40	6.14	8.28	16488.97 CMSDAY
Mean	0.86	2.74	89.87	66.72	177.58	152.42	35.21	12.66	1.17	0.46	0.22	0.27	45.18 CMS
Max	1.38	25.00	191.05	216.75	324.00	227.40	63.00	46.40	2.04	0.90	0.28	0.36	324.00 CMS
Min	0.60	0.40	5.40	7.20	81.85	74.00	13.00	2.28	0.72	0.16	0.18	0.18	0.16 CMS
Runoff	2.234	7.344	232.934	178.715	475.623	395.077	94.297	32.802	3.131	1.244	0.530	0.715	1424.647 MCM

Momentary Peak 334.00 CMS, at 7.25 M (A.D), at 18.00 Hours, on Aug 17, 1992

Runoff Yield 21.19 Liters/Second/Square KM, Momentary Peak Yield 156.66 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

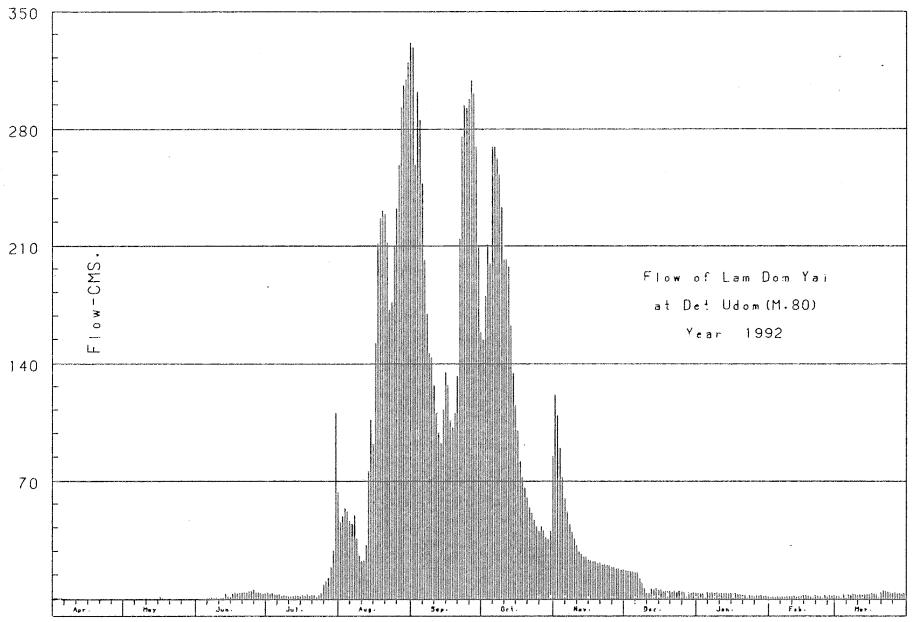
Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80)

Location	Lat. 14-53-53 N., Long. 105-05-08 E., on left bank about 20 meters downstream from the bridge on road, Amphoe Det Udom, Ubon Ratchathani.
Drainage Area	3,363 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+117.262 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+130.912 m.(M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965 to date.
Rated by Float	-
Rated by Current Meter	1965 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.33	121.30	121.33	121.40	119.55	125.33	121.97	121.31	118.68	121.39	121.34	121.36	
2	121.32	121.31	121.31	121.39	119.63	124.05	122.49	121.07	118.66	121.39	121.34	121.36	
3	121.32	121.30	121.31	121.39	119.76	124.87	123.10	120.64	118.66	121.40	121.34	121.36	
4	121.32	121.30	121.31	121.38	119.70	124.57	122.87	120.21	118.64	121.40	121.34	121.37	
5	121.31	121.30	121.32	121.38	119.56	123.83	124.26	119.91	118.63	121.40	121.34	121.38	
6	121.31	121.29	121.33	121.37	119.53	122.91	124.27	119.70	118.62	121.40	121.34	121.37	
7	121.31	121.31	121.33	121.36	119.66	122.28	124.13	119.53	118.62	121.40	121.34	121.37	
8	121.31	121.32	121.33	121.36	119.30	121.81	123.93	119.40	118.90	121.40	121.34	121.38	
9	121.30	121.30	121.33	121.36	119.03	121.75	123.55	119.31	120.15	121.40	121.35	121.38	
10	121.30	121.32	121.32	121.34	118.90	121.43	122.92	119.20	120.90	121.39	121.35	121.37	
11	121.31	121.30	121.32	121.34	118.89	121.09	122.92	119.12	121.39	121.39	121.35	121.37	
12	121.31	121.30	121.32	121.35	119.21	120.83	122.84	119.05	121.45	121.39	121.34	121.37	
13	121.31	121.30	121.39	121.35	120.30	120.70	122.13	119.01	121.45	121.39	121.34	121.37	
14	121.31	121.32	121.34	121.36	121.00	121.14	121.57	118.99	121.46	121.39	121.35	121.38	
15	121.30	121.32	121.34	121.35	120.69	121.58	121.18	118.93	121.44	121.39	121.36	121.37	
16	121.29	121.34	121.39	121.36	121.93	121.42	120.86	118.90	121.44	121.39	121.36	121.39	
17	121.29	121.33	121.40	121.36	123.11	120.99	120.46	118.89	121.42	121.39	121.36	121.39	
18	121.29	121.31	121.40	121.37	123.42	120.91	120.21	118.88	121.42	121.38	121.36	121.39	
19	121.29	121.32	121.39	121.36	123.50	121.10	120.07	118.85	121.42	121.37	121.36	121.38	
20	121.29	121.32	121.41	121.36	123.47	121.53	119.91	118.85	121.42	121.37	121.36	121.40	
21	121.30	121.31	121.40	121.36	123.12	123.17	119.77	118.82	121.41	121.37	121.36	121.44	
22	121.31	121.31	121.41	121.34	122.32	124.38	119.68	118.81	121.42	121.36	121.36	121.42	
23	121.30	121.32	121.42	121.36	122.41	124.72	119.59	118.81	121.41	121.36	121.36	121.42	
24	121.30	121.30	121.43	121.40	123.09	124.70	119.48	118.79	121.42	121.36	121.36	121.40	
25	121.29	121.30	121.44	121.52	123.53	124.80	119.42	118.76	121.42	121.36	121.36	121.40	
26	121.29	121.29	121.41	121.55	124.05	125.00	119.49	118.74	121.40	121.36	121.36	121.40	
27	121.29	121.31	121.41	121.60	124.71	124.85	119.42	118.73	121.40	121.36	121.36	121.39	
28	121.29	121.29	121.39	121.69	124.94	124.26	119.32	118.71	121.40	121.36	121.36	121.39	
29	121.29	121.30	121.39	121.82	125.01	123.10	119.30	118.70	121.40	121.35		121.39	
30	121.29	121.32	121.39	121.10	125.17	122.05	119.42	118.69	121.40	121.35		121.39	
31		121.32		119.99	125.37		120.52		121.40	121.34		121.39	
Mean	121.30	121.31	121.37	121.36	121.74	122.84	121.32	119.24	120.65	121.38	121.35	121.39	
Max	121.33	121.34	121.44	121.82	125.37	125.33	124.27	121.31	121.46	121.40	121.36	121.44	125.37
Min	121.29	121.29	121.31	119.99	118.89	120.70	119.30	118.69	118.62	121.34	121.34	121.36	118.62

Annual Max Momentary Gage Height 125.41 M (MSL), at 23.00 Hours, on Aug 31, 1992
Zero Gage at Bottom Elevation 117.26 M (MSL), River Bed 117.18 M (MSL)
Left Bank Elevation 129.19 M (MSL)
Right Bank Elevation 127.77 M (MSL), Drainage Area 3363 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	0.00	1.20	4.00	46.00	328.80	154.50	121.50	17.31	3.60	1.60	2.40	
2	0.80	0.40	0.40	3.60	49.20	258.50	180.50	109.65	16.80	3.60	1.60	2.40	
3	0.80	0.00	0.40	3.60	54.40	301.85	211.00	90.30	16.80	4.00	1.60	2.40	
4	0.80	0.00	0.40	3.20	52.00	285.35	199.50	72.40	16.29	4.00	1.60	2.80	
5	0.40	0.00	0.80	3.20	46.40	247.50	269.00	60.40	16.04	4.00	1.60	3.20	
6	0.40	0.00	1.20	2.80	45.20	201.50	269.50	52.00	15.78	4.00	1.60	2.80	
7	0.40	0.40	1.20	2.40	50.40	170.00	262.50	45.20	12.73	4.00	1.60	2.80	
8	0.40	0.80	1.20	2.40	36.00	146.50	252.50	40.00	9.68	4.00	1.60	3.20	
9	0.00	0.00	1.20	2.40	26.22	143.50	233.50	36.40	6.63	4.00	2.00	3.20	
10	0.00	0.80	0.80	1.60	22.91	127.50	202.00	32.00	3.58	3.60	2.00	2.80	
11	0.40	0.00	0.80	1.60	22.65	110.55	202.00	28.80	3.60	3.60	2.00	2.80	
12	0.40	0.00	0.80	2.00	32.40	98.85	198.00	26.73	6.00	3.60	1.60	2.80	
13	0.40	0.00	3.60	2.00	76.00	93.00	162.50	25.71	6.00	3.60	1.60	2.80	
14	0.40	0.80	1.60	2.40	106.50	113.00	134.50	25.20	6.40	3.60	2.00	3.20	
15	0.00	0.80	1.60	2.00	92.55	135.00	115.00	23.67	5.60	3.60	2.40	2.80	
16	0.00	1.60	3.60	2.40	152.50	127.00	100.20	22.91	5.60	3.60	2.40	3.60	
17	0.00	1.20	4.00	2.40	211.50	106.05	82.40	22.65	4.80	3.60	2.40	3.60	
18	0.00	0.40	4.00	2.80	227.00	102.45	72.40	22.40	4.80	3.20	2.40	3.60	
19	0.00	0.80	3.60	2.40	231.00	111.00	66.80	21.64	4.80	2.80	2.40	3.20	
20	0.00	0.80	4.40	2.40	229.50	132.50	60.40	21.64	4.80	2.80	2.40	4.00	
21	0.00	0.40	4.00	2.40	212.00	214.50	54.80	20.87	4.40	2.80	2.40	5.60	
22	0.40	0.40	4.40	1.60	172.00	275.00	51.20	20.62	4.80	2.40	2.40	4.80	
23	0.00	0.80	4.80	2.40	176.50	293.60	47.60	20.62	4.40	2.40	2.40	4.80	
24	0.00	0.00	5.20	4.00	210.50	292.50	43.20	20.11	4.80	2.40	2.40	4.00	
25	0.00	0.00	5.60	9.00	232.50	298.00	40.80	19.35	4.80	2.40	2.40	4.00	
26	0.00	0.00	4.40	10.50	258.50	309.00	43.60	18.84	4.00	2.40	2.40	4.00	
27	0.00	0.40	4.40	13.00	293.05	300.75	40.80	18.58	4.00	2.40	2.40	3.60	
28	0.00	0.00	3.60	19.30	305.70	269.00	36.80	18.07	4.00	2.40	2.40	3.60	
29	0.00	0.00	3.60	28.80	309.60	211.00	36.00	17.82	4.00	2.00		3.60	
30	0.00	0.80	3.60	111.00	319.20	158.50	40.80	17.56	4.00	2.00		3.60	
31		0.80		63.60	331.20		84.90		4.00	1.60		3.60	
Total	7.20	12.40	80.40	317.20	4631.08	5962.25	3949.20	1093.64	231.24	98.00	57.60	105.60	16545.81 CMSDAY
Mean	0.24	0.40	2.68	10.23	149.39	198.74	127.39	36.45	7.46	3.16	2.06	3.41	45.33 CMS
Max	1.20	1.60	5.60	111.00	331.20	328.80	269.50	121.50	17.31	4.00	2.40	5.60	331.20 CMS
Min	0.00	0.00	0.40	1.60	22.65	93.00	36.00	17.56	3.58	1.60	1.60	2.40	0.00 CMS
Runoff	0.622	1.071	6.947	27.406	400.125	515.138	341.211	94.491	19.979	8.467	4.977	9.124	1429.558 MCM

Momentary Peak 333.60 CMS, at 125.41 M (MSL), at 23.00 Hours, on Aug 31, 1992
Runoff Yield 13.48 Liters/Second/Square KM, Momentary Peak Yield 99.20 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

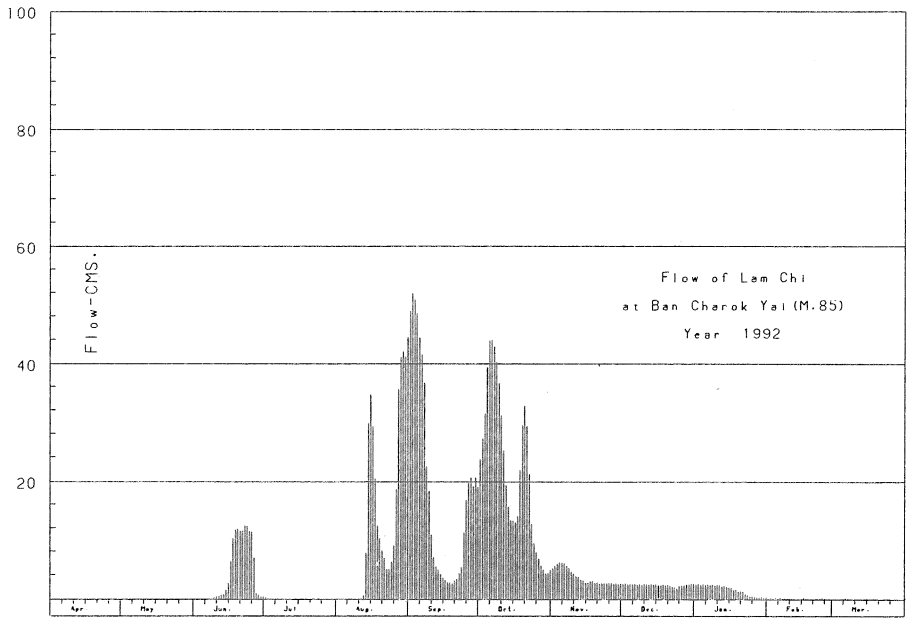
Lam Chi at Ban Charok Yai, Buri Ram (M.85)

Location	Lat. 14°-37'-54" N., Long. 103°-14'-03" E., on right bank at the bridge of Prasat-Prakhonchai Highway near guidepost 104 at Ban Charok Yai, Tambon Lavia, Amphoe Prakhon Chai, Buri Ram.
Drainage Area	1,046 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+6.546 m.(A.D.)
Gage Reading Frequency	3-5 time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3-5 readings.
Period of Available Gage Records	1969 - 1971, 1979 to date.
Rating Operation	
Period of Rating	1969 - 1971, 1979, 1981 to date.
Rated by Float	-
Rated by Current Meter	1969 - 1971, 1979, 1981 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 6 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.04	0.16	0.43	0.28	3.63	3.00	1.84	1.33	1.30	0.45	0.39	
2	0.13	0.04	0.16	0.36	0.27	3.69	3.12	1.88	1.32	1.30	0.45	0.38	
3	0.12	0.04	0.16	0.29	0.28	3.67	3.24	1.95	1.31	1.29	0.43	0.37	
4	0.12	0.03	0.17	0.28	0.31	3.62	3.43	1.97	1.30	1.29	0.41	0.37	
5	0.12	0.03	0.19	0.28	0.31	3.54	3.53	1.98	1.31	1.29	0.42	0.36	
6	0.12	0.03	0.24	0.28	0.31	3.48	3.53	1.94	1.30	1.28	0.43	0.36	
7	0.11	0.04	0.31	0.27	0.32	3.37	3.51	1.90	1.30	1.28	0.43	0.36	
8	0.11	0.05	0.42	0.27	0.33	2.96	3.45	1.83	1.29	1.27	0.43	0.36	
9	0.10	0.04	0.48	0.27	0.35	2.81	3.37	1.75	1.29	1.27	0.44	0.36	
10	0.10	0.04	0.54	0.28	0.37	2.42	3.23	1.67	1.30	1.26	0.43	0.36	
11	0.09	0.04	0.64	0.26	0.43	2.07	3.05	1.60	1.30	1.25	0.42	0.36	
12	0.09	0.03	0.68	0.25	0.60	1.88	2.85	1.56	1.30	1.23	0.41	0.37	
13	0.09	0.03	0.76	0.23	2.16	1.79	2.70	1.48	1.30	1.22	0.40	0.37	
14	0.09	0.04	0.99	0.25	3.20	1.68	2.58	1.44	1.31	1.20	0.40	0.37	
15	0.09	0.05	1.38	0.24	3.32	1.55	2.57	1.38	1.29	1.18	0.40	0.43	
16	0.09	0.06	2.01	0.23	3.18	1.45	2.56	1.35	1.27	1.12	0.40	0.41	
17	0.09	0.08	2.36	0.23	2.89	1.39	2.61	1.44	1.27	1.03	0.39	0.41	
18	0.09	0.10	2.49	0.23	2.53	1.36	2.94	1.42	1.27	1.00	0.39	0.40	
19	0.09	0.10	2.49	0.22	2.36	1.34	3.19	1.38	1.27	0.95	0.39	0.40	
20	0.09	0.10	2.47	0.22	2.20	1.43	3.27	1.36	1.25	0.92	0.39	0.36	
21	0.08	0.09	2.46	0.22	2.06	1.49	3.18	1.35	1.22	0.90	0.39	0.36	
22	0.08	0.10	2.53	0.22	1.82	1.70	2.92	1.36	1.20	0.80	0.39	0.36	
23	0.08	0.12	2.52	0.23	1.80	1.85	2.54	1.34	1.15	0.66	0.40	0.35	
24	0.07	0.13	2.47	0.25	2.00	2.45	2.30	1.34	1.11	0.59	0.41	0.35	
25	0.07	0.15	2.45	0.29	2.26	2.74	2.16	1.34	1.21	0.56	0.41	0.36	
26	0.06	0.16	2.07	0.31	2.82	2.87	2.06	1.34	1.26	0.55	0.40	0.36	
27	0.06	0.17	0.84	0.32	3.34	2.90	1.91	1.33	1.27	0.52	0.39	0.35	
28	0.05	0.17	0.68	0.28	3.47	2.84	1.79	1.33	1.28	0.51	0.39	0.34	
29	0.05	0.17	0.58	0.26	3.49	2.90	1.70	1.32	1.30	0.50		0.33	
30	0.05	0.17	0.52	0.32	3.47	2.83	1.69	1.32	1.31	0.49		0.33	
31		0.17		0.29	3.54		1.78		1.31	0.46		0.33	
Mean	0.09	0.08	1.21	0.27	1.81	2.46	2.77	1.55	1.27	0.98	0.41	0.37	
Max	0.13	0.17	2.53	0.43	3.54	3.69	3.53	1.98	1.33	1.30	0.45	0.43	3.69
Min	0.05	0.03	0.16	0.22	0.27	1.34	1.69	1.32	1.11	0.46	0.39	0.33	0.03

Annual Max Momentary Gage Height 3.69 M (A.D), at 6.00 Hours, on Sep 2, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -2.42 M (A.D)
Left Bank Elevation 5.50 M (A.D)
Right Bank Elevation 5.36 M (A.D), Drainage Area 1046 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	0.000	0.195	0.000	49.000	23.700	5.280	2.620	2.500	0.225	0.135	
2	0.000	0.000	0.000	0.090	0.000	52.000	27.360	5.560	2.580	2.500	0.225	0.120	
3	0.000	0.000	0.000	0.000	0.000	51.000	31.600	6.050	2.540	2.460	0.195	0.105	
4	0.000	0.000	0.000	0.000	0.015	48.500	39.350	6.190	2.500	2.460	0.165	0.105	
5	0.000	0.000	0.000	0.000	0.015	44.500	44.000	6.260	2.540	2.460	0.180	0.090	
6	0.000	0.000	0.000	0.000	0.015	41.600	44.000	5.980	2.500	2.420	0.195	0.090	
7	0.000	0.000	0.015	0.000	0.030	36.800	43.000	5.700	2.500	2.420	0.195	0.090	
8	0.000	0.000	0.180	0.000	0.045	22.500	40.250	5.210	2.460	2.380	0.195	0.090	
9	0.000	0.000	0.270	0.000	0.075	18.450	36.800	4.700	2.460	2.380	0.210	0.090	
10	0.000	0.000	0.380	0.000	0.105	10.960	31.200	4.250	2.500	2.340	0.195	0.090	
11	0.000	0.000	0.580	0.000	0.195	7.030	25.200	3.900	2.500	2.300	0.180	0.090	
12	0.000	0.000	0.660	0.000	0.500	5.560	19.450	3.700	2.500	2.220	0.165	0.105	
13	0.000	0.000	0.820	0.000	7.900	4.940	15.800	3.300	2.500	2.180	0.150	0.105	
14	0.000	0.000	1.470	0.000	30.000	4.300	13.440	3.100	2.540	2.100	0.150	0.105	
15	0.000	0.000	2.820	0.000	34.800	3.650	13.260	2.820	2.460	2.040	0.150	0.195	
16	0.000	0.000	6.490	0.000	29.340	3.150	13.080	2.700	2.380	1.860	0.150	0.165	
17	0.000	0.000	10.220	0.000	20.450	2.860	14.000	3.100	2.380	1.590	0.135	0.165	
18	0.000	0.000	11.870	0.000	12.540	2.740	21.900	3.000	2.380	1.500	0.135	0.150	
19	0.000	0.000	11.870	0.000	10.220	2.660	29.670	2.820	2.380	1.350	0.135	0.150	
20	0.000	0.000	11.610	0.000	8.300	3.050	32.800	2.740	2.300	1.260	0.135	0.090	
21	0.000	0.000	11.480	0.000	6.940	3.350	29.340	2.700	2.180	1.200	0.135	0.090	
22	0.000	0.000	12.540	0.000	5.140	4.400	21.300	2.740	2.100	0.900	0.135	0.090	
23	0.000	0.000	12.360	0.000	5.000	5.350	12.720	2.660	1.950	0.620	0.150	0.075	
24	0.000	0.000	11.610	0.000	6.400	11.350	9.500	2.660	1.830	0.480	0.165	0.075	
25	0.000	0.000	11.350	0.000	9.020	16.760	7.900	2.660	2.140	0.420	0.165	0.090	
26	0.000	0.000	7.030	0.015	18.700	19.950	6.940	2.660	2.340	0.400	0.150	0.090	
27	0.000	0.000	1.020	0.030	35.600	20.700	5.770	2.620	2.380	0.340	0.135	0.075	
28	0.000	0.000	0.660	0.000	41.150	19.200	4.940	2.620	2.420	0.320	0.135	0.060	
29	0.000	0.000	0.460	0.000	42.050	20.700	4.400	2.580	2.500	0.300		0.045	
30	0.000	0.000	0.340	0.030	41.150	18.950	4.350	2.580	2.540	0.285		0.045	
31		0.000		0.000	44.500		4.880		2.540	0.240		0.045	
Total	0.000	0.000	128.105	0.360	410.195	555.960	671.900	112.840	74.440	48.225	4.635	3.105	2009.765 CMSDAY
Mean	0.000	0.000	4.270	0.012	13.232	18.532	21.674	3.761	2.401	1.556	0.166	0.100	5.506 CMS
Max	0.000	0.000	12.540	0.195	44.500	52.000	44.000	6.260	2.620	2.500	0.225	0.195	52.000 CMS
Min	0.000	0.000	0.000	0.000	0.000	2.660	4.350	2.580	1.830	0.240	0.135	0.045	0.000 CMS
Runoff	0.000	0.000	11.068	0.031	35.441	48.035	58.052	9.749	6.432	4.167	0.400	0.268	173.644 MCM

Momentary Peak 52.00 CMS, at 3.69 M (A.D), at 6.00 Hours, on Sep 2, 1992

Runoff Yield 5.26 Liters/Second/Square KM, Momentary Peak Yield 49.71 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

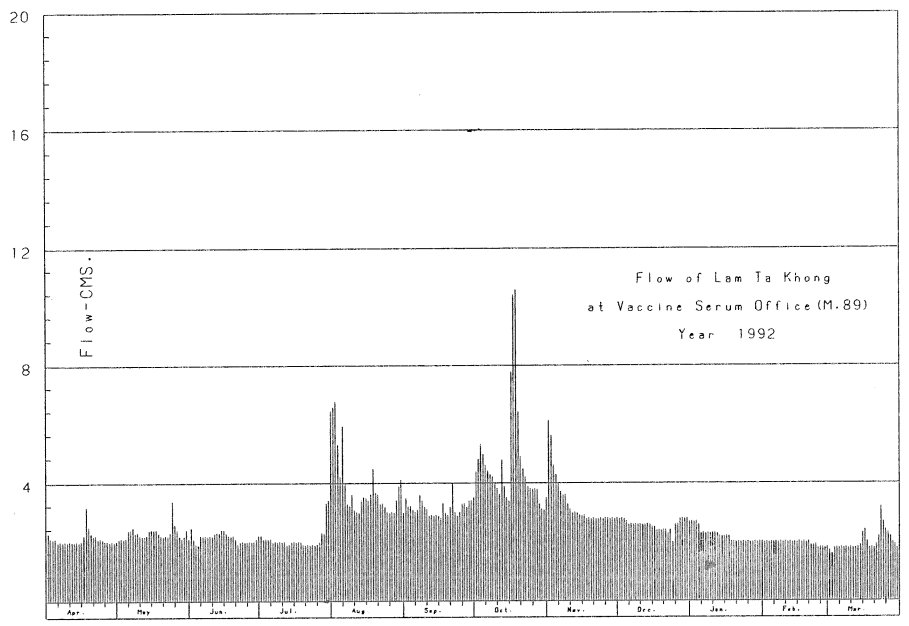
Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima (M.89)

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	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+8.909 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1970 to date.
Rating Operation	
Period of Rating	1971 to date.
Rated by Float	-
Rated by Current Meter	1971 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.13	1.11	1.15	1.12	1.50	1.25	1.34	1.47	1.18	1.17	1.10	1.07	
2	1.11	1.11	1.11	1.11	1.51	1.22	1.38	1.44	1.18	1.17	1.10	1.06	
3	1.11	1.11	1.09	1.11	1.42	1.22	1.42	1.36	1.18	1.17	1.10	1.08	
4	1.11	1.11	1.09	1.11	1.32	1.21	1.40	1.33	1.17	1.16	1.10	1.08	
5	1.10	1.14	1.12	1.11	1.46	1.20	1.36	1.30	1.16	1.13	1.10	1.08	
6	1.10	1.14	1.12	1.10	1.30	1.21	1.34	1.27	1.16	1.13	1.10	1.08	
7	1.10	1.15	1.12	1.10	1.23	1.26	1.33	1.26	1.16	1.13	1.10	1.08	
8	1.10	1.13	1.12	1.10	1.22	1.24	1.32	1.26	1.16	1.13	1.10	1.08	
9	1.10	1.13	1.12	1.10	1.26	1.22	1.30	1.23	1.16	1.13	1.10	1.08	
10	1.10	1.12	1.12	1.10	1.21	1.21	1.28	1.21	1.16	1.13	1.10	1.08	
11	1.10	1.12	1.13	1.10	1.20	1.19	1.26	1.20	1.16	1.13	1.10	1.08	
12	1.10	1.12	1.13	1.09	1.20	1.19	1.38	1.20	1.16	1.13	1.10	1.08	
13	1.10	1.12	1.13	1.09	1.24	1.19	1.29	1.20	1.16	1.12	1.10	1.08	
14	1.10	1.14	1.14	1.10	1.25	1.19	1.25	1.19	1.16	1.12	1.10	1.09	
15	1.10	1.14	1.14	1.10	1.25	1.19	1.24	1.19	1.15	1.12	1.10	1.13	
16	1.12	1.14	1.13	1.10	1.24	1.18	1.57	1.19	1.15	1.12	1.10	1.14	
17	1.22	1.14	1.12	1.10	1.26	1.23	1.72	1.18	1.14	1.12	1.10	1.10	
18	1.15	1.13	1.12	1.10	1.35	1.20	1.73	1.18	1.14	1.10	1.10	1.08	
19	1.13	1.12	1.12	1.09	1.27	1.19	1.49	1.18	1.14	1.10	1.10	1.08	
20	1.12	1.12	1.11	1.09	1.26	1.22	1.39	1.18	1.14	1.10	1.10	1.08	
21	1.12	1.12	1.09	1.09	1.23	1.30	1.35	1.18	1.14	1.10	1.09	1.09	
22	1.11	1.12	1.10	1.09	1.23	1.20	1.32	1.18	1.13	1.10	1.09	1.12	
23	1.11	1.13	1.10	1.09	1.22	1.19	1.29	1.18	1.14	1.10	1.09	1.22	
24	1.11	1.24	1.10	1.09	1.20	1.20	1.28	1.18	1.10	1.10	1.08	1.17	
25	1.10	1.16	1.10	1.09	1.20	1.23	1.28	1.18	1.16	1.10	1.08	1.14	
26	1.10	1.14	1.10	1.10	1.20	1.23	1.28	1.18	1.16	1.10	1.08	1.13	
27	1.10	1.12	1.10	1.13	1.20	1.22	1.28	1.18	1.18	1.10	1.08	1.12	
28	1.10	1.11	1.10	1.13	1.24	1.24	1.23	1.18	1.18	1.10	1.08	1.10	
29	1.10	1.12	1.11	1.23	1.29	1.24	1.21	1.18	1.18	1.10		1.09	
30	1.10	1.14	1.12	1.24	1.31	1.25	1.21	1.18	1.18	1.10		1.08	
31		1.11		1.49	1.20		1.25		1.17	1.10		1.08	
Mean	1.11	1.13	1.12	1.12	1.27	1.22	1.35	1.23	1.16	1.12	1.10	1.10	
Max	1.22	1.24	1.15	1.49	1.51	1.30	1.73	1.47	1.18	1.17	1.10	1.22	1.73
Min	1.10	1.11	1.09	1.09	1.20	1.18	1.21	1.18	1.10	1.10	1.08	1.06	1.06

Annual Max Momentary Gage Height 2.45 M (A.D), at 8.00 Hours, on Nov 3, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.60 M (A.D)
Left Bank Elevation 9.05 M (A.D)
Right Bank Elevation 9.15 M (A.D), Drainage Area 665 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.300	2.100	2.500	2.200	6.600	3.500	4.400	6.120	2.800	2.700	2.000	1.700	
2	2.100	2.100	2.100	2.100	6.770	3.200	4.800	5.640	2.800	2.700	2.000	1.600	
3	2.100	2.100	1.900	2.100	5.320	3.200	5.320	4.600	2.800	2.700	2.000	1.800	
4	2.100	2.100	1.900	2.100	4.200	3.100	5.000	4.300	2.700	2.600	2.000	1.800	
5	2.000	2.400	2.200	2.100	5.960	3.000	4.600	4.000	2.600	2.300	2.000	1.800	
6	2.000	2.400	2.200	2.000	4.000	3.100	4.400	3.700	2.600	2.300	2.000	1.800	
7	2.000	2.500	2.200	2.000	3.300	3.600	4.300	3.600	2.600	2.300	2.000	1.800	
8	2.000	2.300	2.200	2.000	3.200	3.400	4.200	3.600	2.600	2.300	2.000	1.800	
9	2.000	2.300	2.200	2.000	3.600	3.200	4.000	3.300	2.600	2.300	2.000	1.800	
10	2.000	2.200	2.200	2.000	3.100	3.100	3.800	3.100	2.600	2.300	2.000	1.800	
11	2.000	2.200	2.300	2.000	3.000	2.900	3.600	3.000	2.600	2.300	2.000	1.800	
12	2.000	2.200	2.300	1.900	3.000	2.900	4.800	3.000	2.600	2.300	2.000	1.800	
13	2.000	2.200	2.300	1.900	3.400	2.900	3.900	3.000	2.600	2.200	2.000	1.800	
14	2.000	2.400	2.400	2.000	3.500	2.900	3.500	2.900	2.600	2.200	2.000	1.900	
15	2.000	2.400	2.400	2.000	3.500	2.900	3.400	2.900	2.500	2.200	2.000	2.300	
16	2.200	2.400	2.300	2.000	3.400	2.800	7.790	2.900	2.500	2.200	2.000	2.400	
17	3.200	2.400	2.200	2.000	3.600	3.300	10.400	2.800	2.400	2.200	2.000	2.000	
18	2.500	2.300	2.200	2.000	4.500	3.000	10.600	2.800	2.400	2.000	2.000	1.800	
19	2.300	2.200	2.200	1.900	3.700	2.900	6.440	2.800	2.400	2.000	2.000	1.800	
20	2.200	2.200	2.100	1.900	3.600	3.200	4.900	2.800	2.400	2.000	2.000	1.800	
21	2.200	2.200	1.900	1.900	3.300	4.000	4.500	2.800	2.400	2.000	1.900	1.900	
22	2.100	2.200	2.000	1.900	3.300	3.000	4.200	2.800	2.300	2.000	1.900	2.200	
23	2.100	2.300	2.000	1.900	3.200	2.900	3.900	2.800	2.400	2.000	1.900	3.200	
24	2.100	3.400	2.000	1.900	3.000	3.000	3.800	2.800	2.000	2.000	1.800	2.700	
25	2.000	2.600	2.000	1.900	3.000	3.300	3.800	2.800	2.600	2.000	1.800	2.400	
26	2.000	2.400	2.000	2.000	3.000	3.300	3.800	2.800	2.600	2.000	1.800	2.300	
27	2.000	2.200	2.000	2.300	3.000	3.200	3.800	2.800	2.800	2.000	1.800	2.200	
28	2.000	2.100	2.000	2.300	3.400	3.400	3.300	2.800	2.800	2.000	1.800	2.000	
29	2.000	2.200	2.100	3.300	3.900	3.400	3.100	2.800	2.800	2.000		1.900	
30	2.000	2.400	2.200	3.400	4.100	3.500	3.100	2.800	2.800	2.000		1.800	
31		2.100		6.440	3.000		3.500		2.700	2.000		1.800	
Total	63.500	71.500	64.500	69.440	117.450	95.100	144.950	98.860	79.900	68.100	54.700	61.500	989.500 CMSDAY
Mean	2.117	2.306	2.150	2.240	3.789	3.170	4.676	3.295	2.577	2.197	1.954	1.984	2.711 CMS
Max	3.200	3.400	2.500	6.440	6.770	4.000	10.600	6.120	2.800	2.700	2.000	3.200	10.600 CMS
Min	2.000	2.100	1.900	1.900	3.000	2.800	3.100	2.800	2.000	2.000	1.800	1.600	1.600 CMS
Runoff	5.486	6.178	5.573	6.000	10.148	8.217	12.524	8.542	6.903	5.884	4.726	5.314	85.493 MCM

Momentary Peak 27.85 CMS, at 2.45 M (A.D), at 8.00 Hours, on Nov 3, 1992

Runoff Yield 4.08 Liters/Second/Square KM, Momentary Peak Yield 41.88 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

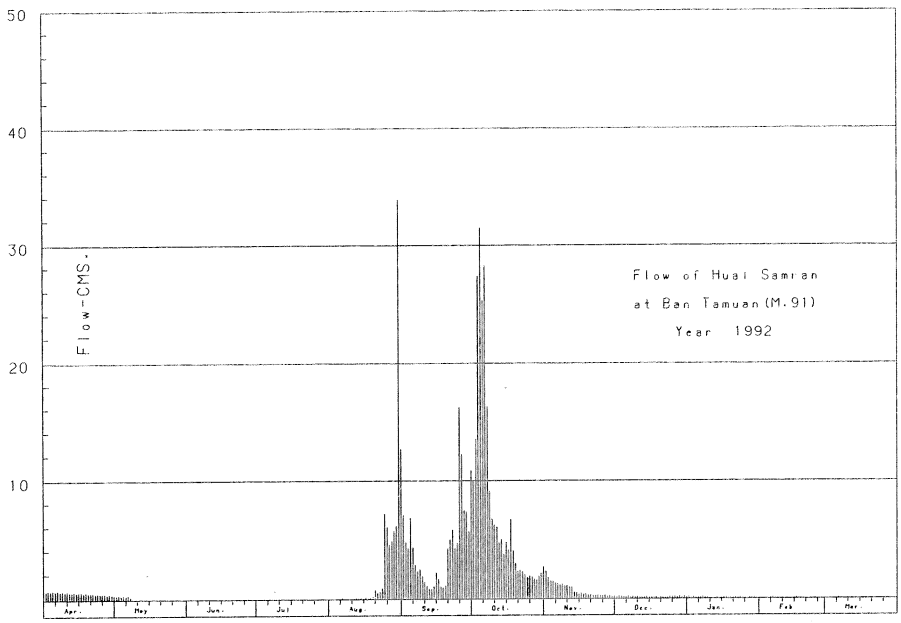
Huai Samran at Ban Tamuan, Si Sa Ket (M.91)

Location	Lat. 14-29-48 N., Long. 104-03-29 E., on right bank about 15 kilometers from the highway at Ban Tamuan, Tambon Lalom, Amphoe Khukhan, Si Sa Ket.
Drainage Area	128 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 1.50 meters from the top staff gage.
Elevation	+8.051 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1977 to date.
Rating Operation	
Period of Rating	1977 - 1978, 1983 to date.
Rated by Float	-
Rated by Current Meter	1977 - 1978, 1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 76 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.19	1.03	0.73	0.70	0.78	2.16	2.46	1.52	0.95	0.93	0.88	0.86	
2	1.19	1.02	0.73	0.70	0.81	1.88	2.79	1.42	0.95	0.92	0.87	0.86	
3	1.19	1.02	0.73	0.70	0.82	1.80	3.84	1.38	0.97	0.91	0.87	0.85	
4	1.19	1.02	0.73	0.70	0.88	2.14	4.12	1.36	0.95	0.91	0.87	0.85	
5	1.19	1.03	0.73	0.70	0.87	1.82	3.70	1.34	0.93	0.91	0.87	0.85	
6	1.19	1.03	0.73	0.70	0.86	1.59	3.90	1.32	0.94	0.91	0.87	0.85	
7	1.18	0.97	0.73	0.70	0.84	1.51	3.02	1.31	0.93	0.91	0.87	0.85	
8	1.17	0.80	0.72	0.68	0.83	1.54	2.37	1.31	0.93	0.91	0.83	0.84	
9	1.17	0.80	0.71	0.67	0.82	1.45	2.13	1.29	0.93	0.89	0.86	0.84	
10	1.17	0.80	0.73	0.68	0.82	1.35	2.06	1.28	0.93	0.89	0.86	0.84	
11	1.16	0.81	0.73	0.68	0.84	1.28	2.05	1.27	0.92	0.89	0.86	0.84	
12	1.15	0.81	0.73	0.67	0.86	1.23	1.87	1.25	0.92	0.89	0.86	0.84	
13	1.15	0.81	0.71	0.67	0.86	1.21	1.90	1.14	0.92	0.88	0.86	0.85	
14	1.14	0.81	0.71	0.66	0.87	1.28	1.74	1.11	0.91	0.88	0.86	0.85	
15	1.14	0.81	0.71	0.66	0.87	1.50	1.87	1.07	0.92	0.88	0.87	0.85	
16	1.14	0.80	0.70	0.68	0.89	1.40	1.78	1.09	0.91	0.90	0.87	0.85	
17	1.13	0.82	0.69	0.68	0.89	1.28	2.12	1.08	0.91	0.90	0.87	0.84	
18	1.13	0.82	0.68	0.68	0.88	1.24	1.78	1.06	0.90	0.90	0.87	0.84	
19	1.12	0.81	0.68	0.67	0.98	1.30	1.62	1.02	0.90	0.90	0.87	0.84	
20	1.12	0.81	0.68	0.66	1.21	1.80	1.51	1.01	0.90	0.90	0.86	0.88	
21	1.12	0.81	0.71	0.66	1.10	1.90	1.52	1.01	0.91	0.90	0.86	0.86	
22	1.11	0.81	0.71	0.67	1.16	2.02	1.51	1.01	0.90	0.89	0.86	0.86	
23	1.10	0.80	0.71	0.67	1.23	1.81	1.46	1.00	0.90	0.90	0.86	0.84	
24	1.10	0.80	0.72	0.67	2.18	1.86	1.43	1.00	0.94	0.90	0.86	0.85	
25	1.09	0.78	0.72	0.67	2.05	3.01	1.44	0.97	0.95	0.90	0.86	0.85	
26	1.08	0.78	0.71	0.66	1.84	2.67	1.44	1.02	0.93	0.90	0.86	0.85	
27	1.08	0.76	0.70	0.68	1.89	2.21	1.41	0.97	0.94	0.90	0.86	0.85	
28	1.07	0.76	0.70	0.67	2.00	2.19	1.38	0.97	0.93	0.89	0.86	0.85	
29	1.06	0.75	0.70	0.76	2.05	2.00	1.45	0.96	0.92	0.89		0.82	
30	1.04	0.74	0.70	0.76	4.28	2.55	1.48	0.95	0.93	0.88		0.82	
31		0.74		0.78	2.72		1.57		0.93	0.88		0.82	
Mean	1.14	0.84	0.71	0.69	1.29	1.77	2.09	1.15	0.93	0.90	0.86	0.85	
Max	1.19	1.03	0.73	0.78	4.28	3.01	4.12	1.52	0.97	0.93	0.88	0.88	4.28
Min	1.04	0.74	0.68	0.66	0.78	1.21	1.38	0.95	0.90	0.88	0.83	0.82	0.66

Annual Max Momentary Gage Height 4.88 M (A.D), at 6.00 Hours, on Aug 30, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.51 M (A.D)
Left Bank Elevation 7.07 M (A.D)
Right Bank Elevation 7.04 M (A.D), Drainage Area 128 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.31	0.00	0.00	0.00	7.09	10.00	2.38	0.18	0.15	0.08	0.06	
2	0.72	0.29	0.00	0.00	0.01	4.85	13.59	1.77	0.18	0.13	0.07	0.06	
3	0.72	0.29	0.00	0.00	0.02	4.25	27.38	1.55	0.21	0.12	0.07	0.05	
4	0.72	0.29	0.00	0.00	0.08	6.91	31.55	1.45	0.18	0.12	0.07	0.05	
5	0.72	0.31	0.00	0.00	0.07	4.40	25.35	1.35	0.15	0.12	0.07	0.05	
6	0.72	0.31	0.00	0.00	0.06	2.84	28.25	1.25	0.16	0.12	0.07	0.05	
7	0.69	0.21	0.00	0.00	0.04	2.31	16.34	1.20	0.15	0.12	0.07	0.05	
8	0.66	0.00	0.00	0.00	0.03	2.51	9.10	1.20	0.15	0.12	0.03	0.04	
9	0.66	0.00	0.00	0.00	0.02	1.95	6.82	1.11	0.15	0.09	0.06	0.04	
10	0.66	0.00	0.00	0.00	0.02	1.40	6.23	1.07	0.15	0.09	0.06	0.04	
11	0.63	0.01	0.00	0.00	0.04	1.07	6.15	1.03	0.13	0.09	0.06	0.04	
12	0.60	0.01	0.00	0.00	0.06	0.87	4.78	0.95	0.13	0.09	0.06	0.04	
13	0.60	0.01	0.00	0.00	0.06	0.79	5.00	0.57	0.13	0.08	0.06	0.05	
14	0.57	0.01	0.00	0.00	0.07	1.07	3.83	0.48	0.12	0.08	0.06	0.05	
15	0.57	0.01	0.00	0.00	0.07	2.25	4.78	0.39	0.13	0.08	0.07	0.05	
16	0.57	0.00	0.00	0.00	0.09	1.65	4.11	0.43	0.12	0.10	0.07	0.05	
17	0.54	0.02	0.00	0.00	0.09	1.07	6.73	0.41	0.12	0.10	0.07	0.04	
18	0.54	0.02	0.00	0.00	0.08	0.91	4.11	0.37	0.10	0.10	0.07	0.04	
19	0.51	0.01	0.00	0.00	0.22	1.15	3.03	0.29	0.10	0.10	0.07	0.04	
20	0.51	0.01	0.00	0.00	0.79	4.25	2.31	0.27	0.10	0.10	0.06	0.08	
21	0.51	0.01	0.00	0.00	0.45	5.00	2.38	0.27	0.12	0.10	0.06	0.06	
22	0.48	0.01	0.00	0.00	0.63	5.91	2.31	0.27	0.10	0.09	0.06	0.06	
23	0.45	0.00	0.00	0.00	0.87	4.32	2.01	0.25	0.10	0.10	0.06	0.04	
24	0.45	0.00	0.00	0.00	7.27	4.70	1.83	0.25	0.16	0.10	0.06	0.05	
25	0.43	0.00	0.00	0.00	6.15	16.22	1.89	0.21	0.18	0.10	0.06	0.05	
26	0.41	0.00	0.00	0.00	4.55	12.22	1.89	0.29	0.15	0.10	0.06	0.05	
27	0.41	0.00	0.00	0.00	4.93	7.54	1.71	0.21	0.16	0.10	0.06	0.05	
28	0.39	0.00	0.00	0.00	5.75	7.36	1.55	0.21	0.15	0.09	0.06	0.05	
29	0.37	0.00	0.00	0.00	6.15	5.75	1.95	0.19	0.13	0.09		0.02	
30	0.33	0.00	0.00	0.00	33.95	10.93	2.13	0.18	0.15	0.08		0.02	
31		0.00		0.00	12.78		2.71		0.15	0.08		0.02	
Total	16.86	2.14	0.00	0.00	85.40	133.54	241.80	21.85	4.39	3.13	1.78	1.44	512.33 CMSDAY
Mean	0.56	0.07	0.00	0.00	2.75	4.45	7.80	0.73	0.14	0.10	0.06	0.05	1.40 CMS
Max	0.72	0.31	0.00	0.00	33.95	16.22	31.55	2.38	0.21	0.15	0.08	0.08	33.95 CMS
Min	0.33	0.00	0.00	0.00	0.00	0.79	1.55	0.18	0.10	0.08	0.03	0.02	0.00 CMS
Runoff	1.457	0.185	0.000	0.000	7.379	11.538	20.892	1.888	0.379	0.270	0.154	0.124	44.265 MCM

Momentary Peak 42.99 CMS, at 4.88 M (A.D), at 6.00 Hours, on Aug 30, 1992
Runoff Yield 10.97 Liters/Second/Square KM, Momentary Peak Yield 335.86 Liters/Second/Square KM

WATER YEAR 1992

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.-H.D.

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 — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 26 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

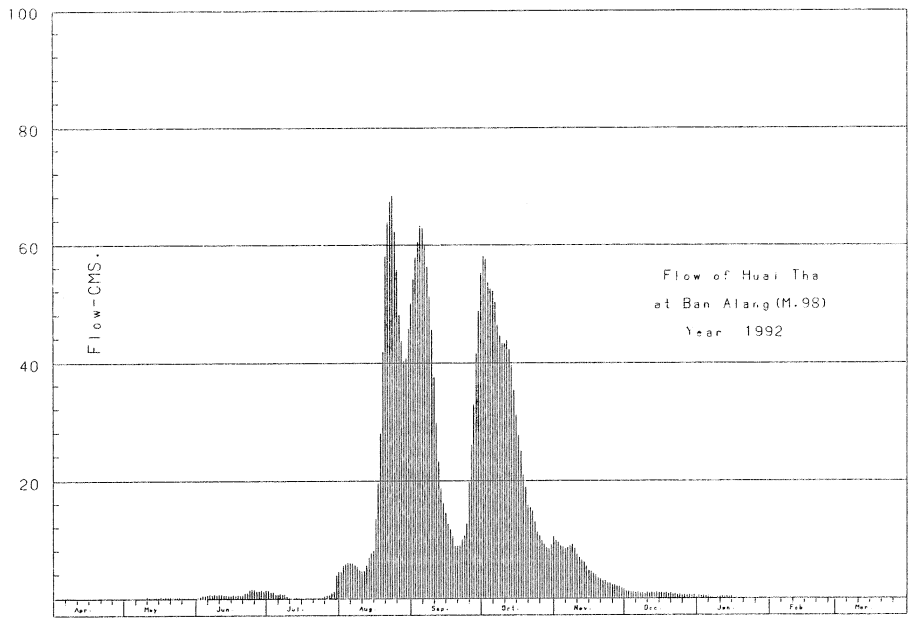
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	0.12	0.21	0.51	1.06	3.91	4.04	1.64	0.49	0.28	0.12	0.87	
2	0.21	0.12	0.25	0.45	1.17	4.03	4.02	1.61	0.46	0.28	0.13	0.90	
3	0.20	0.13	0.28	0.43	1.23	4.12	3.89	1.56	0.45	0.28	0.11	0.90	
4	0.19	0.14	0.30	0.36	1.24	4.21	3.85	1.53	0.43	0.27	0.13	0.93	
5	0.18	0.13	0.33	0.34	1.24	4.20	3.84	1.51	0.43	0.28	0.12	0.94	
6	0.18	0.12	0.32	0.34	1.23	4.10	3.77	1.51	0.42	0.27	0.16	0.93	
7	0.18	0.12	0.32	0.34	1.20	3.98	3.62	1.56	0.39	0.25	0.12	0.92	
8	0.18	0.19	0.32	0.32	1.15	3.80	3.55	1.57	0.37	0.18	0.10	0.91	
9	0.17	0.23	0.32	0.26	1.09	3.59	3.50	1.52	0.38	0.18	0.09	0.91	
10	0.17	0.23	0.32	0.22	1.05	3.26	3.50	1.40	0.39	0.24	0.08	0.90	
11	0.17	0.23	0.32	0.22	1.07	2.89	3.52	1.35	0.40	0.25	0.08	0.92	
12	0.17	0.22	0.32	0.20	1.17	2.57	3.46	1.29	0.41	0.24	0.07	0.94	
13	0.16	0.22	0.31	0.18	1.36	2.28	3.34	1.26	0.41	0.24	0.07	0.93	
14	0.16	0.21	0.29	0.19	1.42	2.12	3.16	1.16	0.42	0.24	0.08	0.90	
15	0.17	0.22	0.30	0.20	1.47	2.01	2.96	1.08	0.42	0.24	0.08	0.84	
16	0.16	0.23	0.29	0.20	1.93	1.85	2.79	1.04	0.41	0.21	0.08	0.52	
17	0.14	0.23	0.30	0.19	2.34	1.79	2.66	1.01	0.41	0.19	0.08	0.54	
18	0.15	0.22	0.29	0.18	2.81	1.69	2.43	0.96	0.39	0.18	0.08	0.68	
19	0.14	0.22	0.29	0.17	3.44	1.55	2.31	0.90	0.38	0.17	0.08	0.78	
20	0.14	0.22	0.30	0.17	4.04	1.54	2.09	0.85	0.38	0.17	0.08	0.87	
21	0.13	0.22	0.37	0.17	4.23	1.56	2.07	0.81	0.35	0.14	0.07	0.92	
22	0.14	0.22	0.42	0.18	4.35	1.64	2.02	0.80	0.34	0.13	0.07	0.94	
23	0.14	0.23	0.54	0.21	4.38	1.71	1.89	0.77	0.34	0.13	0.07	0.94	
24	0.13	0.22	0.56	0.23	4.18	1.85	1.75	0.74	0.33	0.13	0.09	0.96	
25	0.12	0.22	0.53	0.24	3.96	2.36	1.71	0.70	0.31	0.13	0.43	0.97	
26	0.13	0.21	0.51	0.28	3.69	2.71	1.64	0.68	0.29	0.13	0.61	0.97	
27	0.12	0.21	0.49	0.32	3.51	3.04	1.57	0.66	0.30	0.19	0.72	0.97	
28	0.12	0.21	0.50	0.38	3.37	3.43	1.52	0.63	0.30	0.20	0.81	0.97	
29	0.12	0.20	0.48	0.48	3.39	3.71	1.49	0.61	0.30	0.14		0.97	
30	0.12	0.20	0.51	0.97	3.60	3.94	1.57	0.55	0.29	0.12		0.96	
31		0.20		1.04	3.76		1.68		0.28	0.11		0.97	
Mean	0.16	0.20	0.36	0.32	2.42	2.85	2.75	1.11	0.38	0.20	0.17	0.89	
Max	0.21	0.23	0.56	1.04	4.38	4.21	4.04	1.64	0.49	0.28	0.81	0.97	4.38
Min	0.12	0.12	0.21	0.17	1.05	1.54	1.49	0.55	0.28	0.11	0.07	0.52	0.07

Annual Max Momentary Gage Height — 4.41 M (A.D), at 6.00 Hours, on Aug 23, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.26 M (A.D)

Left Bank Elevation — 7.20 M (A.D)

Right Bank Elevation — 7.29 M (A.D), Drainage Area 1092 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.2	0.0	0.2	1.4	4.7	54.3	58.2	10.0	1.4	0.5	0.0	0.0	
2	0.2	0.0	0.4	1.2	5.6	57.9	57.6	9.6	1.2	0.5	0.1	0.0	
3	0.2	0.1	0.5	1.1	6.0	60.6	53.7	9.1	1.2	0.5	0.0	0.0	
4	0.2	0.1	0.6	0.8	6.1	63.3	52.6	8.8	1.1	0.5	0.1	0.0	
5	0.2	0.1	0.7	0.8	6.1	63.0	52.3	8.6	1.1	0.5	0.0	0.0	
6	0.2	0.0	0.7	0.8	6.0	60.0	50.4	8.6	1.1	0.5	0.1	0.0	
7	0.2	0.0	0.7	0.8	5.8	56.4	46.4	9.1	1.0	0.4	0.0	0.0	
8	0.2	0.2	0.7	0.7	5.4	51.2	44.7	9.2	0.9	0.2	0.0	0.0	
9	0.1	0.3	0.7	0.4	4.9	45.7	43.4	8.7	0.9	0.2	0.0	0.0	
10	0.1	0.3	0.7	0.3	4.6	37.7	43.4	7.5	1.0	0.4	0.0	0.0	
11	0.1	0.3	0.7	0.3	4.8	29.8	43.9	7.1	1.0	0.4	0.0	0.0	
12	0.1	0.3	0.7	0.2	5.6	23.4	42.4	6.5	1.0	0.4	0.0	0.0	
13	0.1	0.3	0.6	0.2	7.1	18.7	39.6	6.3	1.0	0.4	0.0	0.0	
14	0.1	0.2	0.6	0.2	7.7	16.3	35.5	5.5	1.1	0.4	0.0	0.0	
15	0.1	0.3	0.6	0.2	8.2	14.7	31.2	4.9	1.1	0.4	0.0	0.0	
16	0.1	0.3	0.6	0.2	13.7	12.7	27.8	4.6	1.0	0.2	0.0	0.0	
17	0.1	0.3	0.6	0.2	19.6	11.9	25.2	4.4	1.0	0.2	0.0	0.0	
18	0.1	0.3	0.6	0.2	28.2	10.6	21.0	4.0	1.0	0.2	0.0	0.0	
19	0.1	0.3	0.6	0.1	42.0	9.0	19.1	3.6	0.9	0.1	0.0	0.0	
20	0.1	0.3	0.6	0.1	58.2	8.9	15.9	3.3	0.9	0.1	0.0	0.0	
21	0.1	0.3	0.9	0.1	63.9	9.1	15.6	3.1	0.8	0.1	0.0	0.0	
22	0.1	0.3	1.1	0.2	67.5	10.0	14.9	3.0	0.8	0.1	0.0	0.0	
23	0.1	0.3	1.6	0.2	68.4	10.8	13.2	2.8	0.8	0.1	0.0	0.0	
24	0.1	0.3	1.6	0.3	62.4	12.7	11.3	2.6	0.7	0.1	0.0	0.0	
25	0.0	0.3	1.5	0.4	55.8	19.9	10.8	2.4	0.6	0.1	0.0	0.0	
26	0.1	0.2	1.4	0.5	48.2	26.2	10.0	2.3	0.6	0.1	0.0	0.0	
27	0.0	0.2	1.4	0.7	43.7	32.9	9.2	2.2	0.6	0.2	0.0	0.0	
28	0.0	0.2	1.4	0.9	40.3	41.7	8.7	2.0	0.6	0.2	0.0	0.0	
29	0.0	0.2	1.3	1.3	40.8	48.8	8.4	1.9	0.6	0.1		0.0	
30	0.0	0.2	1.4	4.1	45.9	55.2	9.2	1.6	0.6	0.0		0.0	
31		0.2		4.6	50.1		10.5		0.5	0.0		0.0	
Total	3.3	6.7	25.7	23.5	837.3	973.4	926.1	163.3	28.1	8.1	0.3	0.0	2995.8 CMSDAY
Mean	0.1	0.2	0.9	0.8	27.0	32.4	29.9	5.4	0.9	0.3	0.0	0.0	8.2 CMS
Max	0.2	0.3	1.6	4.6	68.4	63.3	58.2	10.0	1.4	0.5	0.1	0.0	68.4 CMS
Min	0.0	0.0	0.2	0.1	4.6	8.9	8.4	1.6	0.5	0.0	0.0	0.0	0.0 CMS
Runoff	0.29	0.58	2.22	2.03	72.34	84.10	80.02	14.11	2.43	0.70	0.03	0.00	258.84 MCM

Momentary Peak 69.30 CMS, at 4.41 M (A.D), at 6.00 Hours, on Aug 23, 1992

Runoff Yield 7.52 Liters/Second/Square KM, Momentary Peak Yield 63.46 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

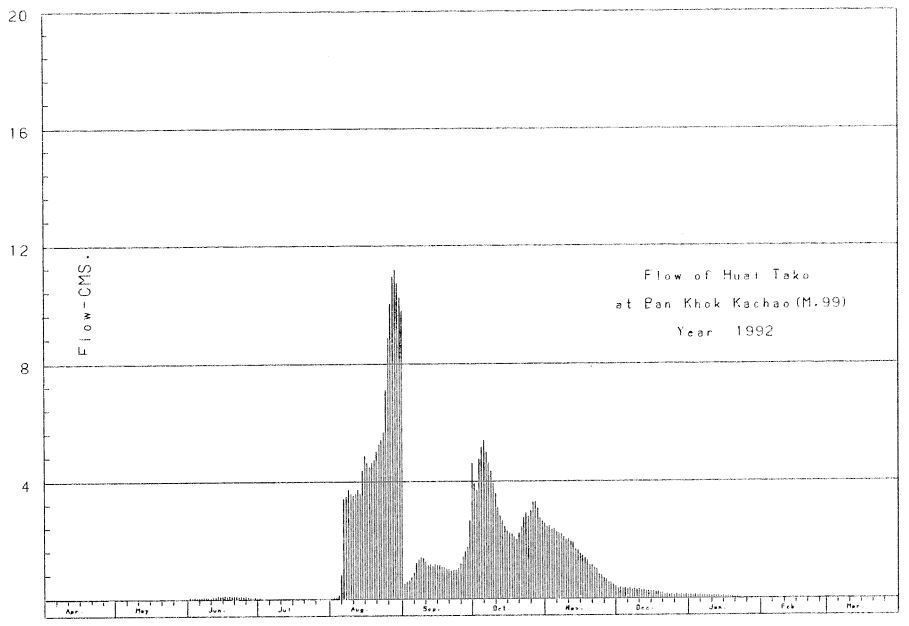
Huai Tako at Ban Khok Kachao, Buri Ram (M.99)

Location	Lat. 14°-36'-22" N., Long. 103°-06'-30" E., on left bank at the bridge of Chokchai-Det Udom Highway near guidepost 103-104 and about 2.5 kilometers from Amphoe Prakhon Chai, Ban Khok Kachao, Amphoe Prakhon Chai, Buri Ram.
Drainage Area	88 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M. of Highways Dept.
Location	On right bank at the abutment of the bridge.
Elevation	+3.606 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 6 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.42	0.41	0.33	0.87	1.47	1.32	0.78	0.54	0.27	0.16	
2	0.00	0.00	0.42	0.40	0.37	0.89	1.45	1.32	0.78	0.54	0.27	0.16	
3	0.00	0.00	0.42	0.38	0.45	0.92	1.54	1.31	0.78	0.53	0.26	0.16	
4	0.00	0.00	0.42	0.33	0.54	0.95	1.57	1.31	0.77	0.52	0.25	0.16	
5	0.00	0.00	0.42	0.32	1.00	1.02	1.59	1.30	0.76	0.52	0.25	0.16	
6	0.00	0.00	0.43	0.31	1.42	1.11	1.56	1.29	0.76	0.51	0.24	0.16	
7	0.00	0.00	0.43	0.31	1.43	1.14	1.53	1.29	0.75	0.51	0.24	0.16	
8	0.00	0.00	0.43	0.30	1.45	1.15	1.51	1.27	0.75	0.51	0.23	0.16	
9	0.00	0.00	0.42	0.30	1.44	1.15	1.47	1.26	0.74	0.50	0.22	0.16	
10	0.00	0.00	0.42	0.29	1.43	1.12	1.44	1.26	0.74	0.50	0.21	0.16	
11	0.00	0.00	0.44	0.29	1.44	1.10	1.39	1.25	0.73	0.49	0.20	0.16	
12	0.00	0.00	0.48	0.29	1.45	1.10	1.36	1.24	0.72	0.49	0.20	0.16	
13	0.00	0.00	0.52	0.28	1.44	1.09	1.34	1.21	0.71	0.48	0.19	0.16	
14	0.00	0.00	0.52	0.28	1.51	1.10	1.32	1.20	0.70	0.47	0.18	0.16	
15	0.00	0.00	0.53	0.27	1.55	1.10	1.30	1.18	0.70	0.47	0.18	0.16	
16	0.00	0.00	0.53	0.27	1.53	1.09	1.29	1.16	0.69	0.46	0.17	0.16	
17	0.00	0.00	0.52	0.28	1.52	1.08	1.29	1.15	0.68	0.45	0.16	0.16	
18	0.00	0.00	0.52	0.29	1.53	1.07	1.27	1.13	0.67	0.44	0.16	0.16	
19	0.00	0.00	0.52	0.29	1.54	1.06	1.26	1.10	0.65	0.41	0.16	0.16	
20	0.00	0.00	0.51	0.30	1.56	1.05	1.29	1.09	0.63	0.41	0.16	0.16	
21	0.00	0.00	0.51	0.30	1.58	1.04	1.32	1.07	0.59	0.40	0.16	0.16	
22	0.00	0.00	0.50	0.31	1.59	1.04	1.35	1.05	0.59	0.40	0.16	0.16	
23	0.00	0.00	0.49	0.31	1.61	1.05	1.37	1.00	0.57	0.38	0.16	0.16	
24	0.00	0.00	0.49	0.31	1.70	1.06	1.36	0.98	0.56	0.37	0.16	0.16	
25	0.00	0.00	0.48	0.32	1.79	1.11	1.38	0.95	0.56	0.35	0.16	0.16	
26	0.00	0.00	0.47	0.32	1.84	1.16	1.41	0.92	0.56	0.34	0.16	0.16	
27	0.00	0.00	0.45	0.33	1.88	1.19	1.41	0.89	0.55	0.33	0.16	0.16	
28	0.00	0.00	0.42	0.33	1.89	1.22	1.39	0.87	0.55	0.31	0.16	0.16	
29	0.00	0.00	0.42	0.31	1.87	1.34	1.35	0.85	0.55	0.30		0.16	
30	0.00	0.00	0.41	0.31	1.85	1.53	1.34	0.81	0.55	0.30		0.16	
31		0.00		0.31	1.83		1.33		0.55	0.29		0.16	
Mean	0.00	0.00	0.47	0.31	1.43	1.10	1.40	1.13	0.67	0.44	0.20	0.16	
Max	0.00	0.00	0.53	0.41	1.89	1.53	1.59	1.32	0.78	0.54	0.27	0.16	1.89
Min	0.00	0.00	0.41	0.27	0.33	0.87	1.26	0.81	0.55	0.29	0.16	0.16	0.00

Annual Max Momentary Gage Height 1.89 M (A.D), at 6.00 Hours, on Aug 27, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.01 M (A.D)
Left Bank Elevation 2.41 M (A.D)
Right Bank Elevation 2.44 M (A.D), Drainage Area 88 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	0.060	0.055	0.029	0.540	3.935	2.480	0.372	0.124	0.017	0.006	
2	0.000	0.000	0.060	0.050	0.041	0.580	3.725	2.480	0.372	0.124	0.017	0.006	
3	0.000	0.000	0.060	0.044	0.075	0.650	4.770	2.390	0.372	0.118	0.016	0.006	
4	0.000	0.000	0.060	0.029	0.124	0.725	5.160	2.390	0.358	0.112	0.015	0.006	
5	0.000	0.000	0.060	0.026	0.850	0.914	5.420	2.300	0.344	0.112	0.015	0.006	
6	0.000	0.000	0.065	0.023	3.410	1.218	5.030	2.235	0.344	0.106	0.014	0.006	
7	0.000	0.000	0.065	0.023	3.515	1.362	4.640	2.235	0.330	0.106	0.014	0.006	
8	0.000	0.000	0.065	0.020	3.725	1.410	4.380	2.105	0.330	0.106	0.013	0.006	
9	0.000	0.000	0.060	0.020	3.620	1.410	3.935	2.040	0.316	0.100	0.012	0.006	
10	0.000	0.000	0.060	0.019	3.515	1.266	3.620	2.040	0.316	0.100	0.011	0.006	
11	0.000	0.000	0.070	0.019	3.620	1.170	3.110	1.975	0.302	0.095	0.010	0.006	
12	0.000	0.000	0.090	0.019	3.725	1.170	2.840	1.910	0.288	0.095	0.010	0.006	
13	0.000	0.000	0.112	0.018	3.620	1.138	2.660	1.715	0.274	0.090	0.009	0.006	
14	0.000	0.000	0.112	0.018	4.380	1.170	2.480	1.650	0.260	0.085	0.008	0.006	
15	0.000	0.000	0.118	0.017	4.900	1.170	2.300	1.554	0.260	0.085	0.008	0.006	
16	0.000	0.000	0.118	0.017	4.640	1.138	2.235	1.458	0.250	0.080	0.007	0.006	
17	0.000	0.000	0.112	0.018	4.510	1.106	2.235	1.410	0.240	0.075	0.006	0.006	
18	0.000	0.000	0.112	0.019	4.640	1.074	2.105	1.314	0.230	0.070	0.006	0.006	
19	0.000	0.000	0.112	0.019	4.770	1.042	2.040	1.170	0.210	0.055	0.006	0.006	
20	0.000	0.000	0.106	0.020	5.030	1.010	2.235	1.138	0.190	0.055	0.006	0.006	
21	0.000	0.000	0.106	0.020	5.290	0.978	2.480	1.074	0.154	0.050	0.006	0.006	
22	0.000	0.000	0.100	0.023	5.420	0.978	2.750	1.010	0.154	0.050	0.006	0.006	
23	0.000	0.000	0.095	0.023	5.707	1.010	2.930	0.850	0.142	0.044	0.006	0.006	
24	0.000	0.000	0.095	0.023	7.120	1.042	2.840	0.800	0.136	0.041	0.006	0.006	
25	0.000	0.000	0.090	0.026	8.902	1.218	3.020	0.725	0.136	0.035	0.006	0.006	
26	0.000	0.000	0.085	0.026	10.040	1.458	3.305	0.650	0.136	0.032	0.006	0.006	
27	0.000	0.000	0.075	0.029	10.980	1.602	3.305	0.580	0.130	0.029	0.006	0.006	
28	0.000	0.000	0.060	0.029	11.215	1.780	3.110	0.540	0.130	0.023	0.006	0.006	
29	0.000	0.000	0.060	0.023	10.745	2.660	2.750	0.500	0.130	0.020		0.006	
30	0.000	0.000	0.055	0.023	10.275	4.640	2.660	0.420	0.130	0.020		0.006	
31		0.000		0.023	9.805		2.570		0.130	0.019		0.006	
Total	0.000	0.000	2.498	0.761	158.238	38.629	100.575	45.138	7.466	2.256	0.268	0.186	356.015 CMSDAY
Mean	0.000	0.000	0.083	0.025	5.104	1.288	3.244	1.505	0.241	0.073	0.010	0.006	0.975 CMS
Max	0.000	0.000	0.118	0.055	11.215	4.640	5.420	2.480	0.372	0.124	0.017	0.006	11.215 CMS
Min	0.000	0.000	0.055	0.017	0.029	0.540	2.040	0.420	0.130	0.019	0.006	0.006	0.000 CMS
Runoff	0.000	0.000	0.216	0.066	13.672	3.338	8.690	3.900	0.645	0.195	0.023	0.016	30.760 MCM

Momentary Peak 11.22 CMS, at 1.89 M (A.D), at 6.00 Hours, on Aug 27, 1992

Runoff Yield 11.08 Liters/Second/Square KM, Momentary Peak Yield 127.44 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

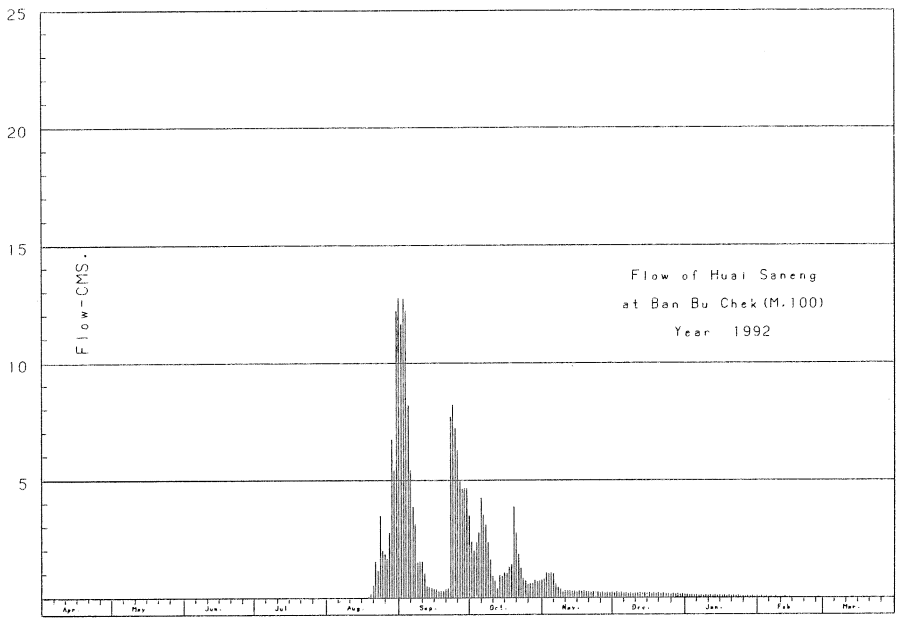
Huai Saneng at Ban Bu Chek, Surin (M.100)

Location	Lat. 14°-37'-01" N., Long. 103°-28'-44" E., on left bank at the bridge of Chokchai-Det Udom Highway near guidepost 145-146 and about 8 kilometers from Amphoe Prasat, Tambon Ta Bao, Amphoe Prasat, Surin.
Drainage Area	131 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Dept.
Location	On right bank at the abutment of the bridge.
Elevation	+3.332 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 5 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.35	0.36	0.41	0.38	1.72	1.51	1.40	1.05	0.87	0.68	0.45	
2	0.29	0.34	0.36	0.40	0.38	1.74	1.50	1.42	1.09	0.86	0.68	0.45	
3	0.29	0.33	0.35	0.40	0.38	1.73	1.51	1.42	1.07	0.86	0.68	0.45	
4	0.28	0.32	0.35	0.40	0.37	1.65	1.52	1.42	1.06	0.86	0.68	0.45	
5	0.27	0.38	0.40	0.40	0.40	1.59	1.56	1.42	1.04	0.82	0.64	0.44	
6	0.27	0.38	0.40	0.40	0.44	1.55	1.54	1.34	1.02	0.82	0.64	0.44	
7	0.26	0.37	0.40	0.40	0.46	1.53	1.53	1.31	1.01	0.80	0.64	0.42	
8	0.26	0.37	0.40	0.41	0.46	1.46	1.51	1.24	1.00	0.80	0.64	0.42	
9	0.25	0.36	0.39	0.41	0.45	1.46	1.47	1.15	0.99	0.80	0.64	0.42	
10	0.24	0.35	0.39	0.46	0.47	1.46	1.41	1.19	0.99	0.80	0.64	0.40	
11	0.23	0.35	0.39	0.45	0.48	1.42	1.37	1.21	1.02	0.80	0.64	0.40	
12	0.23	0.34	0.38	0.45	0.48	1.32	1.28	1.20	1.02	0.80	0.62	0.40	
13	0.22	0.39	0.38	0.44	0.54	1.30	1.41	1.18	1.02	0.80	0.62	0.40	
14	0.21	0.39	0.40	0.44	0.52	1.29	1.41	1.16	1.01	0.80	0.60	0.40	
15	0.20	0.38	0.40	0.44	0.51	1.27	1.42	1.12	1.01	0.80	0.60	0.40	
16	0.30	0.38	0.40	0.43	0.51	1.24	1.42	1.17	1.01	0.80	0.58	0.38	
17	0.29	0.40	0.40	0.43	0.52	1.18	1.44	1.18	1.01	0.80	0.58	0.38	
18	0.29	0.40	0.41	0.42	0.57	1.16	1.45	1.19	1.01	0.78	0.54	0.38	
19	0.28	0.39	0.40	0.41	0.92	1.19	1.55	1.18	0.99	0.78	0.54	0.38	
20	0.27	0.39	0.40	0.38	1.33	1.24	1.52	1.11	0.99	0.78	0.54	0.40	
21	0.26	0.38	0.54	0.37	1.46	1.26	1.49	1.12	0.99	0.78	0.52	0.40	
22	0.26	0.38	0.53	0.36	1.43	1.64	1.44	1.11	0.99	0.76	0.52	0.45	
23	0.25	0.37	0.52	0.36	1.54	1.65	1.40	1.11	0.99	0.76	0.52	0.45	
24	0.29	0.40	0.49	0.35	1.50	1.63	1.38	1.09	0.94	0.74	0.50	0.45	
25	0.38	0.40	0.46	0.35	1.49	1.61	1.34	1.08	0.94	0.72	0.50	0.45	
26	0.38	0.39	0.45	0.37	1.47	1.58	1.34	1.07	0.94	0.72	0.50	0.45	
27	0.37	0.39	0.44	0.40	1.52	1.57	1.35	1.06	0.94	0.72	0.49	0.45	
28	0.36	0.38	0.43	0.39	1.62	1.57	1.38	1.05	0.94	0.72	0.49	0.42	
29	0.36	0.38	0.42	0.38	1.59	1.57	1.37	1.05	0.92	0.70		0.42	
30	0.35	0.37	0.41	0.37	1.73	1.54	1.37	1.05	0.92	0.70		0.42	
31		0.37		0.38	1.74		1.38		0.92	0.70		0.42	
Mean	0.28	0.37	0.42	0.40	0.89	1.47	1.44	1.19	0.99	0.78	0.59	0.42	
Max	0.38	0.40	0.54	0.46	1.74	1.74	1.56	1.42	1.09	0.87	0.68	0.45	1.74
Min	0.20	0.32	0.35	0.35	0.37	1.16	1.28	1.05	0.92	0.70	0.49	0.38	0.20

Annual Max Momentary Gage Height 1.74 M (A.D), at 9.00 Hours, on Sep 2, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.96 M (A.D)
Left Bank Elevation 2.01 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, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	0.000	0.002	0.000	11.680	2.380	0.830	0.225	0.138	0.074	0.010	
2	0.000	0.000	0.000	0.000	0.000	12.760	2.000	1.064	0.245	0.134	0.074	0.010	
3	0.000	0.000	0.000	0.000	0.000	12.220	2.380	1.064	0.235	0.134	0.074	0.010	
4	0.000	0.000	0.000	0.000	0.000	8.200	2.760	1.064	0.230	0.134	0.074	0.010	
5	0.000	0.000	0.000	0.000	0.000	5.420	4.280	1.064	0.220	0.118	0.062	0.008	
6	0.000	0.000	0.000	0.000	0.008	3.900	3.520	0.596	0.210	0.118	0.062	0.008	
7	0.000	0.000	0.000	0.000	0.012	3.140	3.140	0.479	0.205	0.110	0.062	0.004	
8	0.000	0.000	0.000	0.002	0.012	1.532	2.380	0.362	0.200	0.110	0.062	0.004	
9	0.000	0.000	0.000	0.002	0.010	1.532	1.649	0.280	0.195	0.110	0.062	0.004	
10	0.000	0.000	0.000	0.012	0.014	1.532	0.947	0.304	0.195	0.110	0.062	0.000	
11	0.000	0.000	0.000	0.010	0.016	1.064	0.713	0.323	0.210	0.110	0.062	0.000	
12	0.000	0.000	0.000	0.010	0.016	0.518	0.414	0.310	0.210	0.110	0.056	0.000	
13	0.000	0.000	0.000	0.008	0.032	0.440	0.947	0.298	0.210	0.110	0.056	0.000	
14	0.000	0.000	0.000	0.008	0.026	0.427	0.947	0.286	0.205	0.110	0.050	0.000	
15	0.000	0.000	0.000	0.008	0.023	0.401	1.064	0.262	0.205	0.110	0.050	0.000	
16	0.000	0.000	0.000	0.006	0.023	0.362	1.064	0.292	0.205	0.110	0.044	0.000	
17	0.000	0.000	0.000	0.006	0.026	0.298	1.298	0.298	0.205	0.110	0.044	0.000	
18	0.000	0.000	0.002	0.004	0.041	0.286	1.415	0.304	0.205	0.104	0.032	0.000	
19	0.000	0.000	0.000	0.002	0.160	0.304	3.900	0.298	0.195	0.104	0.032	0.000	
20	0.000	0.000	0.000	0.000	0.557	0.362	2.760	0.256	0.195	0.104	0.032	0.000	
21	0.000	0.000	0.032	0.000	1.532	0.388	1.883	0.262	0.195	0.104	0.026	0.000	
22	0.000	0.000	0.029	0.000	1.181	7.720	1.298	0.256	0.195	0.098	0.026	0.010	
23	0.000	0.000	0.026	0.000	3.520	8.200	0.830	0.256	0.195	0.098	0.026	0.010	
24	0.000	0.000	0.018	0.000	2.000	7.240	0.752	0.245	0.170	0.092	0.020	0.010	
25	0.000	0.000	0.012	0.000	1.883	6.280	0.596	0.240	0.170	0.086	0.020	0.010	
26	0.000	0.000	0.010	0.000	1.649	5.040	0.596	0.235	0.170	0.086	0.020	0.010	
27	0.000	0.000	0.008	0.000	2.760	4.660	0.635	0.230	0.170	0.086	0.018	0.010	
28	0.000	0.000	0.006	0.000	6.760	4.660	0.752	0.225	0.170	0.086	0.018	0.004	
29	0.000	0.000	0.004	0.000	5.420	4.660	0.713	0.225	0.160	0.080		0.004	
30	0.000	0.000	0.002	0.000	12.220	3.520	0.713	0.225	0.160	0.080		0.004	
31		0.000		0.000	12.760		0.752		0.160	0.080		0.004	
Total	0.000	0.000	0.149	0.080	52.661	118.746	49.478	12.433	6.120	3.274	1.300	0.144	244.385 CMSDAY
Mean	0.000	0.000	0.005	0.003	1.699	3.958	1.596	0.414	0.197	0.106	0.046	0.005	0.670 CMS
Max	0.000	0.000	0.032	0.012	12.760	12.760	4.280	1.064	0.245	0.138	0.074	0.010	12.760 CMS
Min	0.000	0.000	0.000	0.000	0.000	0.286	0.414	0.225	0.160	0.080	0.018	0.000	0.000 CMS
Runoff	0.000	0.000	0.013	0.007	4.550	10.260	4.275	1.074	0.529	0.283	0.112	0.012	21.115 MCM

Momentary Peak 12.76 CMS, at 1.74 M (A.D), at 9.00 Hours, on Sep 2, 1992

Runoff Yield 5.11 Liters/Second/Square KM, Momentary Peak Yield 97.40 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

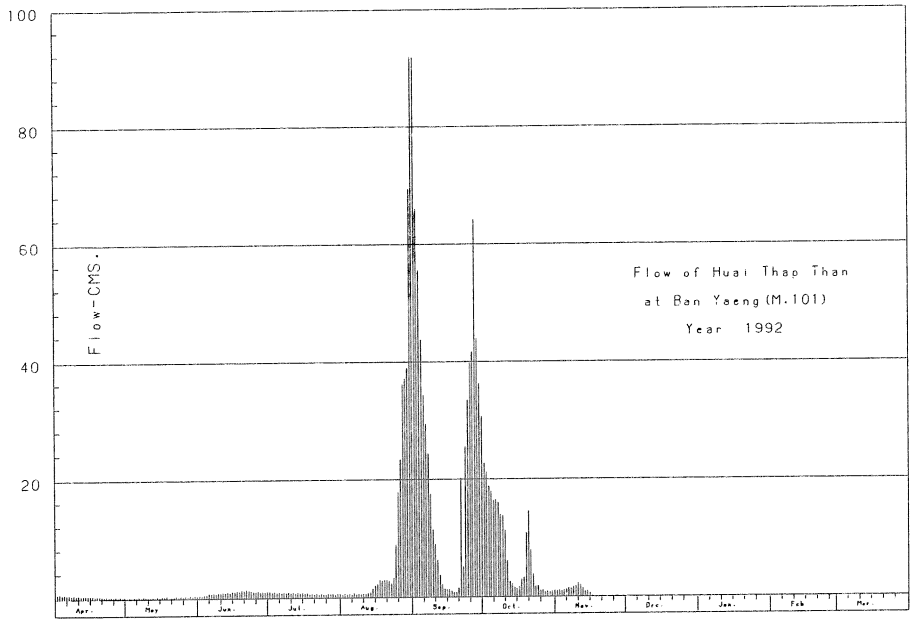
Huai Thap Than at Ban Yaeng, Surin (M.101)

Location	Lat. 14-37-42 N., Long. 103-42-12 E., on left bank at the bride of Chokchai-Det Udom Highway near guidepost 170-171 and about 17 kilometers from Amphoe Sangkha, Ban Yaeng, Tambon Kra Thiam, Amphoe Sangkha, Surin.
Drainage Area	390 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Dept.
Location	On right bank at the abutment of the bridge.
Elevation	+8.945 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 7 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.79	5.44	5.56	5.90	5.70	7.47	6.93	5.94	6.13	6.54	5.30	5.14	
2	5.78	5.43	5.59	5.89	5.71	7.36	6.90	5.95	6.06	6.52	5.30	5.14	
3	5.77	5.42	5.62	5.88	5.70	7.30	6.85	5.93	5.97	6.52	5.29	5.13	
4	5.75	5.41	5.73	5.87	5.68	7.21	6.83	5.94	5.92	6.51	5.29	5.13	
5	5.73	5.45	5.78	5.86	5.68	7.11	6.80	6.05	5.90	6.49	5.28	5.12	
6	5.71	5.43	5.79	5.85	5.77	7.04	6.80	6.07	5.89	6.48	5.28	5.12	
7	5.69	5.44	5.79	5.85	5.70	6.96	6.79	6.09	5.88	6.47	5.28	5.11	
8	5.67	5.47	5.79	5.84	5.71	6.82	6.73	6.12	5.89	6.52	5.27	5.11	
9	5.66	5.46	5.81	5.84	5.70	6.66	6.73	6.15	5.90	6.51	5.27	5.10	
10	5.65	5.45	5.86	5.84	5.70	6.57	6.65	6.19	5.89	6.50	5.26	5.10	
11	5.64	5.44	5.86	5.83	5.73	6.46	6.45	6.17	5.87	6.44	5.26	5.09	
12	5.63	5.43	5.90	5.83	5.75	6.32	6.23	6.07	5.85	6.44	5.25	5.09	
13	5.62	5.45	5.90	5.83	5.86	6.17	6.18	5.90	5.84	6.45	5.25	5.08	
14	5.61	5.45	5.90	5.82	6.08	6.09	6.12	5.86	5.83	6.45	5.24	5.08	
15	5.60	5.48	5.93	5.82	6.17	6.05	6.04	5.76	5.82	6.46	5.23	5.07	
16	5.59	5.48	5.97	5.82	6.19	6.02	6.13	5.49	5.82	6.45	5.23	5.07	
17	5.58	5.55	5.98	5.79	6.26	5.96	6.25	5.03	5.81	6.44	5.22	5.06	
18	5.57	5.54	5.99	5.75	6.24	5.78	6.28	5.09	5.80	6.43	5.22	5.06	
19	5.56	5.54	6.02	5.73	6.26	5.84	6.64	6.12	5.79	6.42	5.21	5.05	
20	5.55	5.53	6.04	5.73	6.25	6.10	6.75	6.15	5.78	6.42	5.21	5.05	
21	5.54	5.53	6.05	5.72	6.24	6.88	6.53	6.15	5.76	6.42	5.20	5.05	
22	5.53	5.53	6.05	5.71	6.21	6.41	6.33	6.13	5.75	6.41	5.19	5.07	
23	5.52	5.52	5.97	5.71	6.29	6.98	6.13	6.10	5.74	6.41	5.18	5.07	
24	5.51	5.52	5.96	5.70	6.57	7.10	6.16	6.15	5.72	6.40	5.16	5.06	
25	5.50	5.52	5.95	5.70	6.83	7.17	5.98	6.14	5.70	6.40	5.16	5.05	
26	5.49	5.51	5.93	5.70	6.94	7.19	5.96	6.13	5.68	6.39	5.15	5.04	
27	5.48	5.54	5.91	5.73	7.13	7.35	5.85	6.10	5.66	6.39	5.15	5.04	
28	5.47	5.57	5.89	5.71	7.14	7.21	5.84	6.09	5.55	6.43	5.15	5.03	
29	5.46	5.57	5.91	5.71	7.16	7.13	5.85	6.07	5.54	6.42		5.03	
30	5.45	5.56	5.92	5.70	7.38	7.06	5.86	6.12	5.42	6.41		5.02	
31		5.56		5.69	7.47		5.92		5.42	6.40		5.02	
Mean	5.60	5.49	5.88	5.79	6.23	6.73	6.37	5.98	5.79	6.45	5.23	5.08	
Max	5.79	5.57	6.05	5.90	7.47	7.47	6.93	6.19	6.13	6.54	5.30	5.14	7.47
Min	5.45	5.41	5.56	5.69	5.68	5.78	5.84	5.03	5.42	6.39	5.15	5.02	5.02

Annual Max Momentary Gage Height 7.50 M (A.D), at 6.00 Hours, on Sep 1, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 2.06 M (A.D)
Left Bank Elevation 7.71 M (A.D)
Right Bank Elevation 7.74 M (A.D), Drainage Area 390 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.780	0.240	0.390	1.000	0.600	91.900	22.820	1.080	0.000	0.000	0.000	0.000	
2	0.760	0.230	0.435	0.980	0.620	66.000	21.200	1.100	0.000	0.000	0.000	0.000	
3	0.740	0.220	0.480	0.960	0.600	55.500	18.850	1.060	0.000	0.000	0.000	0.000	
4	0.700	0.210	0.660	0.940	0.570	43.800	17.910	1.080	0.000	0.000	0.000	0.000	
5	0.660	0.250	0.760	0.920	0.570	34.400	16.500	1.350	0.000	0.000	0.000	0.000	
6	0.620	0.230	0.780	0.900	0.740	29.360	16.500	1.410	0.000	0.000	0.000	0.000	
7	0.585	0.240	0.780	0.900	0.600	24.440	16.130	1.470	0.000	0.000	0.000	0.000	
8	0.555	0.270	0.780	0.880	0.620	17.440	13.910	1.660	0.000	0.000	0.000	0.000	
9	0.540	0.260	0.820	0.880	0.600	11.560	13.910	1.900	0.000	0.000	0.000	0.000	
10	0.525	0.250	0.920	0.880	0.600	8.920	11.250	2.220	0.000	0.000	0.000	0.000	
11	0.510	0.240	0.920	0.860	0.660	6.260	6.050	2.060	0.000	0.000	0.000	0.000	
12	0.495	0.230	1.000	0.860	0.700	3.800	2.660	1.410	0.000	0.000	0.000	0.000	
13	0.480	0.250	1.000	0.860	0.920	2.060	2.140	1.000	0.000	0.000	0.000	0.000	
14	0.465	0.250	1.000	0.840	1.440	1.470	1.660	0.920	0.000	0.000	0.000	0.000	
15	0.450	0.280	1.060	0.840	2.060	1.350	1.320	0.720	0.000	0.000	0.000	0.000	
16	0.435	0.280	1.140	0.840	2.220	1.260	1.740	0.290	0.000	0.000	0.000	0.000	
17	0.420	0.375	1.160	0.780	3.020	1.120	2.900	0.015	0.000	0.000	0.000	0.000	
18	0.405	0.360	1.180	0.700	2.780	0.760	3.260	0.000	0.000	0.000	0.000	0.000	
19	0.390	0.360	1.260	0.660	3.020	0.880	10.940	0.000	0.000	0.000	0.000	0.000	
20	0.375	0.345	1.320	0.660	2.900	1.500	14.650	0.000	0.000	0.000	0.000	0.000	
21	0.360	0.345	1.350	0.640	2.780	20.260	7.880	0.000	0.000	0.000	0.000	0.000	
22	0.345	0.345	1.350	0.620	2.420	5.210	3.950	0.000	0.000	0.000	0.000	0.000	
23	0.330	0.330	1.140	0.620	3.380	25.520	1.740	0.000	0.000	0.000	0.000	0.000	
24	0.315	0.330	1.120	0.600	8.920	33.500	1.980	0.000	0.000	0.000	0.000	0.000	
25	0.300	0.330	1.100	0.600	17.910	39.800	1.160	0.000	0.000	0.000	0.000	0.000	
26	0.290	0.315	1.060	0.600	23.360	41.600	1.120	0.000	0.000	0.000	0.000	0.000	
27	0.280	0.360	1.020	0.660	36.200	64.250	0.900	0.000	0.000	0.000	0.000	0.000	
28	0.270	0.405	0.980	0.620	37.100	43.800	0.880	0.000	0.000	0.000	0.000	0.000	
29	0.260	0.405	1.020	0.620	38.900	36.200	0.900	0.000	0.000	0.000		0.000	
30	0.250	0.390	1.040	0.600	69.500	30.740	0.920	0.000	0.000	0.000		0.000	
31		0.390		0.585	91.900		1.040		0.000	0.000		0.000	
Total	13.890	9.315	29.025	23.905	358.210	744.660	238.770	20.745	0.000	0.000	0.000	0.000	1438.520 CMSDAY
Mean	0.463	0.300	0.968	0.771	11.555	24.822	7.702	0.691	0.000	0.000	0.000	0.000	3.941 CMS
Max	0.780	0.405	1.350	1.000	91.900	91.900	22.820	2.220	0.000	0.000	0.000	0.000	91.900 CMS
Min	0.250	0.210	0.390	0.585	0.570	0.760	0.880	0.000	0.000	0.000	0.000	0.000	0.000 CMS
Runoff	1.200	0.805	2.508	2.065	30.949	64.339	20.630	1.792	0.000	0.000	0.000	0.000	124.288 MCM

Momentary Peak 100.00 CMS, at 7.50 M (A.D), at 6.00 Hours, on Sep 1, 1992

Runoff Yield 10.11 Liters/Second/Square KM, Momentary Peak Yield 256.41 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

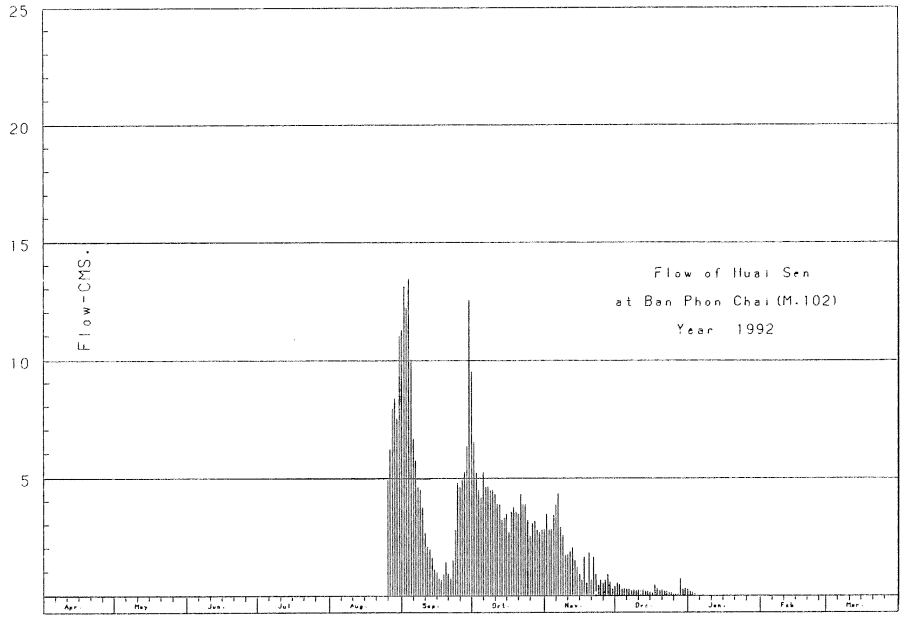
Huai Sen at Ban Phon Chai, Surin (M.102)

Location	Lat. 14°-36'-50" N., Long. 103°-53'-24" E., on left bank at the bridge of Chokchai-Det Udom Highway near guidepost 192-193 and about 4 kilometers from Amphoe Sangkha, Ban Phon Chai, Tambon Sangkha, Amphoe Sangkha, Surin.
Drainage Area	207 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M. of Highways Dept.
Location	On right bank at the abutment of the bridge.
Elevation	+3.511 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 3 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.16	-0.43	-0.57	-0.48	-0.50	1.56	1.29	1.09	0.83	0.77	0.39	0.15	
2	-0.17	-0.44	-0.58	-0.49	-0.50	1.53	1.21	1.04	0.82	0.75	0.38	0.14	
3	-0.18	-0.45	-0.59	-0.50	-0.50	1.57	1.16	1.04	0.80	0.74	0.36	0.13	
4	-0.20	-0.46	-0.58	-0.50	-0.51	1.45	1.14	1.09	0.80	0.67	0.35	0.12	
5	-0.21	-0.45	-0.56	-0.50	-0.51	1.30	1.21	1.12	0.80	0.65	0.35	0.11	
6	-0.22	-0.46	-0.40	-0.50	-0.52	1.24	1.17	1.15	0.79	0.63	0.34	0.10	
7	-0.24	-0.47	-0.38	-0.51	-0.54	1.17	1.17	1.05	0.78	0.62	0.34	0.10	
8	-0.25	-0.44	-0.40	-0.52	-0.53	1.16	1.16	1.02	0.78	0.60	0.33	0.09	
9	-0.26	-0.45	-0.41	-0.53	-0.54	1.11	1.16	0.95	0.78	0.56	0.32	0.09	
10	-0.26	-0.46	-0.41	-0.53	-0.55	1.03	1.15	0.95	0.78	0.55	0.32	0.08	
11	-0.27	-0.40	-0.42	-0.53	-0.51	0.98	1.12	0.96	0.78	0.53	0.31	0.07	
12	-0.29	-0.41	-0.42	-0.53	-0.53	0.97	1.12	0.98	0.78	0.52	0.30	0.06	
13	-0.29	-0.42	-0.43	-0.53	-0.54	0.94	1.07	0.93	0.77	0.55	0.29	0.06	
14	-0.30	-0.43	-0.43	-0.52	-0.47	0.89	1.08	0.90	0.76	0.54	0.28	0.05	
15	-0.35	-0.45	-0.44	-0.53	-0.44	0.88	1.09	0.87	0.75	0.53	0.28	0.05	
16	-0.28	-0.43	-0.44	-0.54	-0.36	0.85	1.03	0.84	0.74	0.52	0.27	0.04	
17	-0.29	-0.42	-0.45	-0.55	-0.36	0.84	1.10	0.94	0.82	0.51	0.27	0.03	
18	-0.30	-0.43	-0.46	-0.55	-0.34	0.87	1.11	0.83	0.80	0.50	0.26	0.02	
19	-0.31	-0.44	-0.50	-0.56	-0.33	0.92	1.10	0.96	0.78	0.49	0.25	0.02	
20	-0.32	-0.45	-0.45	-0.58	-0.33	0.87	1.09	0.84	0.78	0.48	0.24	0.07	
21	-0.33	-0.46	-0.41	-0.59	-0.33	0.85	1.15	0.94	0.77	0.48	0.23	0.07	
22	-0.34	-0.48	-0.40	-0.59	-0.34	0.93	1.12	0.87	0.76	0.49	0.22	0.08	
23	-0.35	-0.49	-0.40	-0.61	-0.28	1.04	1.12	0.82	0.75	0.48	0.21	0.07	
24	-0.36	-0.50	-0.40	-0.62	0.20	1.18	1.07	0.84	0.74	0.45	0.19	0.06	
25	-0.36	-0.51	-0.41	-0.57	1.19	1.17	1.02	0.83	0.73	0.45	0.19	0.06	
26	-0.37	-0.52	-0.42	-0.53	1.27	1.19	1.06	0.84	0.72	0.44	0.18	0.05	
27	-0.38	-0.53	-0.43	-0.49	1.36	1.21	1.07	0.87	0.73	0.44	0.17	0.04	
28	-0.39	-0.54	-0.43	-0.50	1.38	1.28	1.04	0.83	0.85	0.43	0.16	0.03	
29	-0.40	-0.55	-0.43	-0.50	1.34	1.54	1.03	0.80	0.80	0.41		0.02	
30	-0.41	-0.56	-0.44	-0.51	1.49	1.43	1.04	0.81	0.80	0.40		0.01	
31		-0.57		-0.50	1.50		1.04		0.79	0.39		0.00	
Mean	-0.29	-0.47	-0.45	-0.53	-0.02	1.13	1.11	0.93	0.78	0.53	0.28	0.07	
Max	-0.16	-0.40	-0.38	-0.48	1.50	1.57	1.29	1.15	0.85	0.77	0.39	0.15	1.57
Min	-0.41	-0.57	-0.59	-0.62	-0.55	0.84	1.02	0.80	0.72	0.39	0.16	0.00	-0.62

Annual Max Momentary Gage Height 1.63 M (A.D), at 6.00 Hours, on Sep 3, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.41 M (A.D)
Left Bank Elevation 2.27 M (A.D)
Right Bank Elevation 2.29 M (A.D), Drainage Area 207 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	0.000	0.000	0.000	13.160	6.540	3.470	0.570	0.210	0.000	0.000	
2	0.000	0.000	0.000	0.000	0.000	12.230	5.260	2.820	0.480	0.150	0.000	0.000	
3	0.000	0.000	0.000	0.000	0.000	13.470	4.500	2.820	0.300	0.120	0.000	0.000	
4	0.000	0.000	0.000	0.000	0.000	10.050	4.200	3.470	0.300	0.000	0.000	0.000	
5	0.000	0.000	0.000	0.000	0.000	6.700	5.260	3.900	0.300	0.000	0.000	0.000	
6	0.000	0.000	0.000	0.000	0.000	5.740	4.650	4.350	0.270	0.000	0.000	0.000	
7	0.000	0.000	0.000	0.000	0.000	4.650	4.650	2.950	0.240	0.000	0.000	0.000	
8	0.000	0.000	0.000	0.000	0.000	4.500	4.500	2.560	0.240	0.000	0.000	0.000	
9	0.000	0.000	0.000	0.000	0.000	3.750	4.500	1.750	0.240	0.000	0.000	0.000	
10	0.000	0.000	0.000	0.000	0.000	2.690	4.350	1.750	0.240	0.000	0.000	0.000	
11	0.000	0.000	0.000	0.000	0.000	2.080	3.900	1.860	0.240	0.000	0.000	0.000	
12	0.000	0.000	0.000	0.000	0.000	1.970	3.900	2.080	0.240	0.000	0.000	0.000	
13	0.000	0.000	0.000	0.000	0.000	1.640	3.210	1.530	0.210	0.000	0.000	0.000	
14	0.000	0.000	0.000	0.000	0.000	1.110	3.340	1.200	0.180	0.000	0.000	0.000	
15	0.000	0.000	0.000	0.000	0.000	1.020	3.470	0.930	0.150	0.000	0.000	0.000	
16	0.000	0.000	0.000	0.000	0.000	0.750	2.690	0.660	0.120	0.000	0.000	0.000	
17	0.000	0.000	0.000	0.000	0.000	0.660	3.600	1.640	0.480	0.000	0.000	0.000	
18	0.000	0.000	0.000	0.000	0.000	0.930	3.750	0.570	0.300	0.000	0.000	0.000	
19	0.000	0.000	0.000	0.000	0.000	1.420	3.600	1.860	0.240	0.000	0.000	0.000	
20	0.000	0.000	0.000	0.000	0.000	0.930	3.470	0.660	0.240	0.000	0.000	0.000	
21	0.000	0.000	0.000	0.000	0.000	0.750	4.350	1.640	0.210	0.000	0.000	0.000	
22	0.000	0.000	0.000	0.000	0.000	1.530	3.900	0.930	0.180	0.000	0.000	0.000	
23	0.000	0.000	0.000	0.000	0.000	2.820	3.900	0.480	0.150	0.000	0.000	0.000	
24	0.000	0.000	0.000	0.000	0.000	4.800	3.210	0.660	0.120	0.000	0.000	0.000	
25	0.000	0.000	0.000	0.000	4.950	4.650	2.560	0.570	0.090	0.000	0.000	0.000	
26	0.000	0.000	0.000	0.000	6.220	4.950	3.080	0.660	0.060	0.000	0.000	0.000	
27	0.000	0.000	0.000	0.000	7.960	5.260	3.210	0.930	0.090	0.000	0.000	0.000	
28	0.000	0.000	0.000	0.000	8.380	6.380	2.820	0.570	0.750	0.000	0.000	0.000	
29	0.000	0.000	0.000	0.000	7.540	12.540	2.690	0.300	0.300	0.000		0.000	
30	0.000	0.000	0.000	0.000	11.050	9.550	2.820	0.390	0.300	0.000		0.000	
31		0.000		0.000	11.300		2.820		0.270	0.000		0.000	
Total	0.000	0.000	0.000	0.000	57.400	142.680	118.700	49.960	8.100	0.480	0.000	0.000	377.320 CMSDAY
Mean	0.000	0.000	0.000	0.000	1.852	4.756	3.829	1.665	0.261	0.015	0.000	0.000	1.034 CMS
Max	0.000	0.000	0.000	0.000	11.300	13.470	6.540	4.350	0.750	0.210	0.000	0.000	13.470 CMS
Min	0.000	0.000	0.000	0.000	0.000	0.660	2.560	0.300	0.060	0.000	0.000	0.000	0.000 CMS
Runoff	0.000	0.000	0.000	0.000	4.959	12.328	10.256	4.317	0.700	0.041	0.000	0.000	32.600 MCM

Momentary Peak 15.60 CMS, at 1.63 M (A.D), at 6.00 Hours, on Sep 3, 1992

Runoff Yield 4.99 Liters/Second/Square KM, Momentary Peak Yield 75.36 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

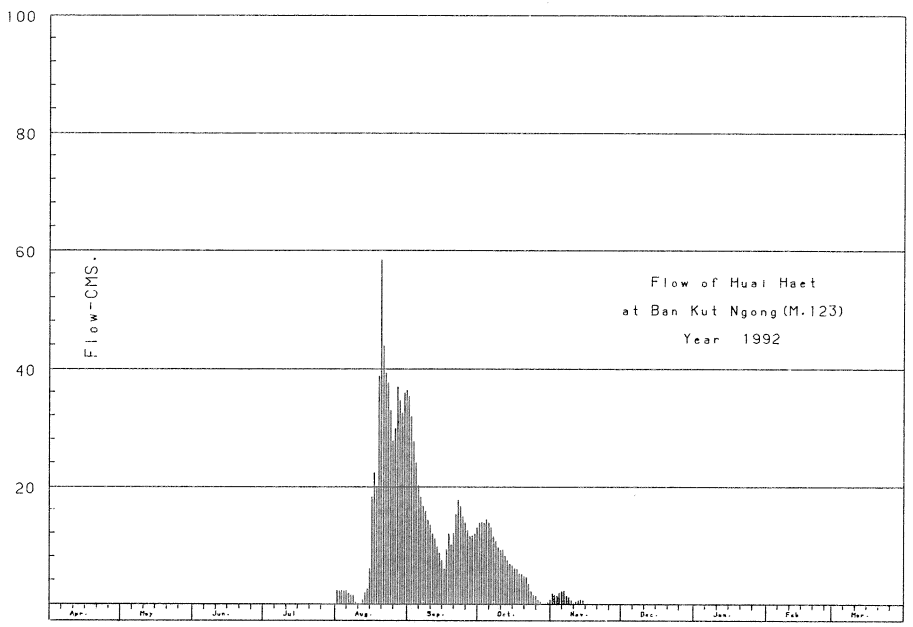
Huai Haet at Ban Kut Ngong, Si Sa Ket (M.123)

Location	Lat. 15-03-53 N., Long. 104-20-56 E., on right bank at the bridge of Si Sa Ket- Kantharalak Highway, Amphoe Muang, Si Sa Ket.
Drainage Area	387 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highway Department.
Location	On right bank at the abutment of the bridge.
Elevation	+7.887 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean Of 24 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 6 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.38	3.15	3.29	3.75	3.96	4.63	4.22	3.95	3.86	3.87	3.77	3.61	
2	3.36	3.20	3.38	3.74	3.96	4.57	4.22	3.94	3.86	3.87	3.76	3.61	
3	3.36	3.23	3.41	3.73	3.96	4.49	4.22	3.94	3.86	3.86	3.76	3.60	
4	3.34	3.24	3.42	3.73	3.96	4.42	4.23	3.95	3.85	3.86	3.75	3.60	
5	3.34	3.24	3.44	3.72	3.96	4.35	4.22	3.96	3.85	3.86	3.75	3.60	
6	3.34	3.23	3.46	3.72	3.95	4.31	4.20	3.96	3.85	3.86	3.74	3.60	
7	3.33	3.23	3.46	3.71	3.94	4.28	4.17	3.94	3.85	3.86	3.74	3.59	
8	3.30	3.22	3.48	3.70	3.94	4.26	4.15	3.93	3.85	3.86	3.73	3.58	
9	3.29	3.20	3.48	3.70	3.91	4.23	4.13	3.92	3.85	3.86	3.73	3.56	
10	3.28	3.20	3.48	3.70	3.88	4.21	4.12	3.91	3.85	3.86	3.72	3.55	
11	3.27	3.18	3.48	3.71	3.89	4.18	4.12	3.91	3.85	3.86	3.72	3.55	
12	3.25	3.18	3.50	3.72	3.92	4.16	4.10	3.92	3.85	3.86	3.71	3.54	
13	3.25	3.18	3.51	3.71	3.95	4.13	4.08	3.92	3.85	3.85	3.70	3.53	
14	3.24	3.18	3.51	3.71	3.97	4.11	4.07	3.92	3.85	3.85	3.70	3.61	
15	3.24	3.18	3.53	3.70	4.05	4.08	4.06	3.90	3.85	3.85	3.70	3.68	
16	3.25	3.20	3.52	3.70	4.31	4.05	4.05	3.90	3.85	3.85	3.70	3.69	
17	3.25	3.23	3.55	3.70	4.39	4.12	4.05	3.89	3.84	3.85	3.69	3.72	
18	3.25	3.24	3.61	3.70	4.34	4.18	4.03	3.89	3.84	3.85	3.68	3.74	
19	3.25	3.24	3.62	3.70	4.69	4.14	4.03	3.89	3.84	3.85	3.67	3.74	
20	3.25	3.26	3.69	3.69	5.02	4.18	4.02	3.89	3.84	3.84	3.66	3.74	
21	3.25	3.26	3.76	3.68	4.78	4.25	4.02	3.89	3.84	3.84	3.66	3.74	
22	3.24	3.24	3.76	3.67	4.70	4.30	3.99	3.89	3.85	3.83	3.66	3.74	
23	3.21	3.23	3.75	3.66	4.67	4.28	3.96	3.89	3.86	3.83	3.65	3.74	
24	3.20	3.22	3.75	3.66	4.59	4.24	3.94	3.88	3.86	3.83	3.64	3.74	
25	3.18	3.22	3.76	3.69	4.49	4.22	3.94	3.88	3.87	3.82	3.63	3.73	
26	3.17	3.21	3.76	3.72	4.53	4.19	3.92	3.88	3.87	3.82	3.63	3.73	
27	3.15	3.21	3.76	3.73	4.66	4.17	3.91	3.87	3.87	3.82	3.62	3.72	
28	3.14	3.20	3.76	3.75	4.62	4.17	3.90	3.87	3.87	3.81	3.62	3.71	
29	3.14	3.20	3.75	3.85	4.58	4.18	3.90	3.87	3.87	3.80		3.70	
30	3.14	3.20	3.75	3.89	4.64	4.20	3.91	3.86	3.86	3.79		3.70	
31		3.20		3.87	4.65		3.92		3.86	3.78		3.69	
Mean	3.25	3.21	3.58	3.72	4.29	4.24	4.06	3.91	3.85	3.84	3.70	3.66	
Max	3.38	3.26	3.76	3.89	5.02	4.63	4.23	3.96	3.87	3.87	3.77	3.74	5.02
Min	3.14	3.15	3.29	3.66	3.88	4.05	3.90	3.86	3.84	3.78	3.62	3.53	3.14

Annual Max Momentary Gage Height 5.13 M (A.D), at 6.00 Hours, on Aug 20, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.00 M (A.D)
Left Bank Elevation 6.85 M (A.D)
Right Bank Elevation 6.75 M (A.D), Drainage Area 387 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	0.000	0.000	2.280	35.340	13.940	1.900	0.000	0.000	0.000	0.000	
2	0.000	0.000	0.000	0.000	2.280	32.010	13.940	1.520	0.000	0.000	0.000	0.000	
3	0.000	0.000	0.000	0.000	2.280	27.770	13.940	1.520	0.000	0.000	0.000	0.000	
4	0.000	0.000	0.000	0.000	2.280	24.060	14.410	1.900	0.000	0.000	0.000	0.000	
5	0.000	0.000	0.000	0.000	2.280	20.350	13.940	2.280	0.000	0.000	0.000	0.000	
6	0.000	0.000	0.000	0.000	1.900	18.230	13.000	2.280	0.000	0.000	0.000	0.000	
7	0.000	0.000	0.000	0.000	1.520	16.760	11.590	1.520	0.000	0.000	0.000	0.000	
8	0.000	0.000	0.000	0.000	1.520	15.820	10.650	1.140	0.000	0.000	0.000	0.000	
9	0.000	0.000	0.000	0.000	0.380	14.410	9.710	0.760	0.000	0.000	0.000	0.000	
10	0.000	0.000	0.000	0.000	0.000	13.470	9.240	0.380	0.000	0.000	0.000	0.000	
11	0.000	0.000	0.000	0.000	0.000	12.060	9.240	0.380	0.000	0.000	0.000	0.000	
12	0.000	0.000	0.000	0.000	0.760	11.120	8.300	0.760	0.000	0.000	0.000	0.000	
13	0.000	0.000	0.000	0.000	1.900	9.710	7.400	0.760	0.000	0.000	0.000	0.000	
14	0.000	0.000	0.000	0.000	2.660	8.770	6.950	0.760	0.000	0.000	0.000	0.000	
15	0.000	0.000	0.000	0.000	6.050	7.400	6.500	0.000	0.000	0.000	0.000	0.000	
16	0.000	0.000	0.000	0.000	18.230	6.050	6.050	0.000	0.000	0.000	0.000	0.000	
17	0.000	0.000	0.000	0.000	22.470	9.240	6.050	0.000	0.000	0.000	0.000	0.000	
18	0.000	0.000	0.000	0.000	19.820	12.060	5.150	0.000	0.000	0.000	0.000	0.000	
19	0.000	0.000	0.000	0.000	38.820	10.180	5.150	0.000	0.000	0.000	0.000	0.000	
20	0.000	0.000	0.000	0.000	58.460	12.060	4.700	0.000	0.000	0.000	0.000	0.000	
21	0.000	0.000	0.000	0.000	44.040	15.350	4.700	0.000	0.000	0.000	0.000	0.000	
22	0.000	0.000	0.000	0.000	39.400	17.700	3.420	0.000	0.000	0.000	0.000	0.000	
23	0.000	0.000	0.000	0.000	37.660	16.760	2.280	0.000	0.000	0.000	0.000	0.000	
24	0.000	0.000	0.000	0.000	33.070	14.880	1.520	0.000	0.000	0.000	0.000	0.000	
25	0.000	0.000	0.000	0.000	27.770	13.940	1.520	0.000	0.000	0.000	0.000	0.000	
26	0.000	0.000	0.000	0.000	29.890	12.530	0.760	0.000	0.000	0.000	0.000	0.000	
27	0.000	0.000	0.000	0.000	37.080	11.590	0.380	0.000	0.000	0.000	0.000	0.000	
28	0.000	0.000	0.000	0.000	34.760	11.590	0.000	0.000	0.000	0.000	0.000	0.000	
29	0.000	0.000	0.000	0.000	32.540	12.060	0.000	0.000	0.000	0.000		0.000	
30	0.000	0.000	0.000	0.000	35.920	13.000	0.380	0.000	0.000	0.000		0.000	
31		0.000		0.000	36.500		0.760		0.000	0.000		0.000	
Total	0.000	0.000	0.000	0.000	574.520	456.270	205.570	17.860	0.000	0.000	0.000	0.000	1254.220 CMSDAY
Mean	0.000	0.000	0.000	0.000	18.533	15.209	6.631	0.595	0.000	0.000	0.000	0.000	3.436 CMS
Max	0.000	0.000	0.000	0.000	58.460	35.340	14.410	2.280	0.000	0.000	0.000	0.000	58.460 CMS
Min	0.000	0.000	0.000	0.000	0.000	6.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000 CMS
Runoff	0.000	0.000	0.000	0.000	49.639	39.422	17.761	1.543	0.000	0.000	0.000	0.000	108.365 MCM

Momentary Peak 65.39 CMS, at 5.13 M (A.D), at 6.00 Hours, on Aug 20, 1992
Runoff Yield 8.88 Liters/Second/Square KM, Momentary Peak Yield 168.97 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

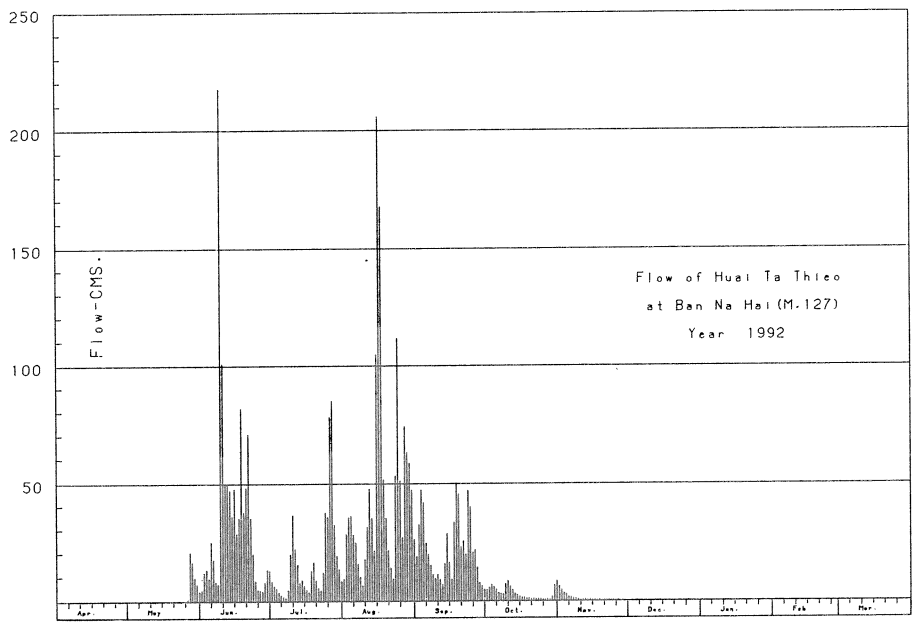
Huai Ta Thieo at Ban Na Hai, Ubon Ratchathani (M.127)

Location	Lat. 15°-38'-37" N., Long. 104°-55'-57" E., on left bank at the bridge on road, Ban Na Hai, Tambon Na Samai, Amphoe Trakan Phutphon, Ubon Ratchathani.
Drainage Area	414 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+11.514 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Rather unstable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.25	1.04	1.63	1.81	1.84	2.10	1.64	1.73	1.31	1.29	1.27	1.24	
2	1.25	1.03	1.91	1.73	2.34	2.44	1.70	1.64	1.30	1.29	1.26	1.27	
3	1.24	1.06	1.95	1.67	2.50	2.76	1.75	1.58	1.30	1.28	1.26	1.27	
4	1.23	1.06	1.85	1.60	2.52	2.64	1.72	1.55	1.30	1.28	1.26	1.27	
5	1.22	1.06	2.26	1.53	2.33	2.25	1.65	1.50	1.30	1.28	1.25	1.27	
6	1.21	1.05	2.06	1.49	2.25	2.12	1.59	1.47	1.30	1.28	1.25	1.26	
7	1.21	1.05	1.81	1.46	2.01	2.00	1.56	1.46	1.30	1.28	1.26	1.26	
8	1.20	1.04	1.76	1.65	1.87	1.89	1.56	1.42	1.30	1.28	1.26	1.25	
9	1.19	1.03	5.58	2.12	1.73	1.85	1.76	1.40	1.30	1.28	1.27	1.24	
10	1.18	1.01	3.82	2.53	2.07	1.89	1.82	1.37	1.30	1.27	1.28	1.23	
11	1.17	1.01	2.83	2.18	2.41	1.84	1.71	1.37	1.30	1.27	1.28	1.23	
12	1.16	1.00	2.81	2.01	2.77	1.75	1.65	1.36	1.30	1.27	1.27	1.22	
13	1.16	1.00	2.76	1.77	2.50	2.02	1.57	1.36	1.30	1.27	1.27	1.22	
14	1.15	1.09	2.51	1.83	2.16	2.34	1.53	1.35	1.30	1.26	1.27	1.26	
15	1.14	1.11	2.77	1.73	3.88	2.03	1.50	1.35	1.29	1.25	1.27	1.26	
16	1.13	1.16	2.34	1.64	5.42	1.84	1.48	1.34	1.29	1.27	1.26	1.26	
17	1.13	1.21	2.50	1.60	4.90	2.46	1.46	1.34	1.29	1.28	1.26	1.26	
18	1.12	1.26	3.48	1.93	2.86	2.83	1.44	1.34	1.28	1.28	1.25	1.26	
19	1.12	1.30	2.55	2.04	2.50	2.72	1.43	1.34	1.28	1.27	1.25	1.26	
20	1.11	1.28	2.79	1.82	2.17	2.20	1.42	1.34	1.25	1.27	1.26	1.26	
21	1.10	1.27	3.26	1.68	1.97	2.27	1.41	1.33	1.28	1.26	1.27	1.26	
22	1.10	1.27	2.50	1.64	1.84	2.12	1.41	1.33	1.28	1.28	1.28	1.25	
23	1.10	1.27	2.13	1.92	2.89	2.76	1.40	1.33	1.29	1.27	1.27	1.25	
24	1.09	1.28	1.82	2.55	4.00	2.60	1.38	1.32	1.29	1.27	1.27	1.25	
25	1.08	1.27	1.65	2.51	2.85	2.15	1.38	1.32	1.29	1.26	1.24	1.24	
26	1.07	1.35	1.63	3.41	2.30	2.17	1.38	1.31	1.29	1.26	1.23	1.23	
27	1.06	2.15	1.62	3.54	3.33	1.98	1.38	1.31	1.29	1.27	1.23	1.23	
28	1.05	2.03	1.80	2.43	3.10	1.80	1.38	1.31	1.29	1.28	1.23	1.22	
29	1.05	1.86	1.95	2.11	3.01	1.72	1.49	1.31	1.29	1.27		1.21	
30	1.04	1.76	1.93	1.95	2.76	1.65	1.74	1.31	1.29	1.26		1.20	
31		1.62		1.82	2.28		1.82		1.29	1.26		1.19	
Mean	1.14	1.26	2.41	1.99	2.69	2.17	1.55	1.39	1.29	1.27	1.26	1.24	
Max	1.25	2.15	5.58	3.54	5.42	2.83	1.82	1.73	1.31	1.29	1.28	1.27	5.58
Min	1.04	1.00	1.62	1.46	1.73	1.65	1.38	1.31	1.25	1.25	1.23	1.19	1.00

Annual Max Momentary Gage Height 6.96 M (A.D), at 17.00 Hours, on Jun 9, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.23 M (A.D)
Left Bank Elevation 10.15 M (A.D)
Right Bank Elevation 10.19 M (A.D), Drainage Area 414 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	0.00	4.60	8.37	9.48	19.10	4.80	6.60	0.55	0.45	0.35	0.20	
2	0.25	0.00	12.07	6.60	28.60	32.80	6.00	4.80	0.50	0.45	0.30	0.35	
3	0.20	0.00	13.55	5.40	35.50	47.20	7.00	3.60	0.50	0.40	0.30	0.35	
4	0.15	0.00	9.85	4.00	36.40	41.80	6.40	3.00	0.50	0.40	0.30	0.35	
5	0.10	0.00	25.40	2.60	28.20	25.00	5.00	2.00	0.50	0.40	0.25	0.35	
6	0.05	0.00	17.62	1.90	25.00	19.88	3.80	1.70	0.50	0.40	0.25	0.30	
7	0.05	0.00	8.37	1.60	15.77	15.40	3.20	1.60	0.50	0.40	0.30	0.30	
8	0.00	0.00	7.20	5.00	10.59	11.33	3.20	1.20	0.50	0.40	0.30	0.25	
9	0.00	0.00	218.00	19.88	6.60	9.85	7.20	1.00	0.50	0.40	0.35	0.20	
10	0.00	0.00	101.20	36.85	17.99	11.33	8.74	0.85	0.50	0.35	0.40	0.15	
11	0.00	0.00	50.41	22.22	31.45	9.48	6.20	0.85	0.50	0.35	0.40	0.15	
12	0.00	0.00	49.47	15.77	47.65	7.00	5.00	0.80	0.50	0.35	0.35	0.10	
13	0.00	0.00	47.20	7.40	35.50	16.14	3.40	0.80	0.50	0.35	0.35	0.10	
14	0.00	0.00	35.95	9.11	21.44	28.60	2.60	0.75	0.50	0.30	0.35	0.30	
15	0.00	0.00	47.65	6.60	104.80	16.51	2.00	0.75	0.45	0.25	0.35	0.30	
16	0.00	0.00	28.60	4.80	206.00	9.48	1.80	0.70	0.45	0.35	0.30	0.30	
17	0.00	0.05	35.50	4.00	168.00	33.70	1.60	0.70	0.45	0.40	0.30	0.30	
18	0.00	0.30	82.00	12.81	51.82	50.41	1.40	0.70	0.40	0.40	0.25	0.30	
19	0.00	0.50	37.75	16.88	35.50	45.40	1.30	0.70	0.40	0.35	0.25	0.30	
20	0.00	0.40	48.55	8.74	21.83	23.00	1.20	0.70	0.25	0.35	0.30	0.30	
21	0.00	0.35	71.00	5.60	14.29	25.80	1.10	0.65	0.40	0.30	0.35	0.30	
22	0.00	0.35	35.50	4.80	9.48	19.88	1.10	0.65	0.40	0.40	0.40	0.25	
23	0.00	0.35	20.27	12.44	53.23	47.20	1.00	0.65	0.45	0.35	0.35	0.25	
24	0.00	0.40	8.74	37.75	112.00	40.00	0.90	0.60	0.45	0.35	0.35	0.25	
25	0.00	0.35	5.00	35.95	51.35	21.05	0.90	0.60	0.45	0.30	0.20	0.20	
26	0.00	0.75	4.60	78.50	27.00	21.83	0.90	0.55	0.45	0.30	0.15	0.15	
27	0.00	21.05	4.40	85.12	74.50	14.66	0.90	0.55	0.45	0.35	0.15	0.15	
28	0.00	16.51	8.00	32.35	63.10	8.00	0.90	0.55	0.45	0.40	0.15	0.10	
29	0.00	10.22	13.55	19.49	58.87	6.40	1.90	0.55	0.45	0.35		0.05	
30	0.00	7.20	12.81	13.55	47.20	5.00	6.80	0.55	0.45	0.30		0.00	
31		4.40		8.74	26.20		8.74		0.45	0.30		0.00	
Total	1.05	63.18	1064.81	534.82	1475.34	683.23	106.98	39.70	14.30	11.20	8.40	6.95	4009.96 CMSDAY
Mean	0.04	2.04	35.49	17.25	47.59	22.77	3.45	1.32	0.46	0.36	0.30	0.22	10.99 CMS
Max	0.25	21.05	218.00	85.12	206.00	50.41	8.74	6.60	0.55	0.45	0.40	0.35	218.00 CMS
Min	0.00	0.00	4.40	1.60	6.60	5.00	0.90	0.55	0.25	0.25	0.15	0.00	0.00 CMS
Runoff	0.091	5.459	92.000	46.208	127.469	59.031	9.243	3.430	1.236	0.968	0.726	0.600	346.461 MCM

Momentary Peak 326.60 CMS, at 6.96 M (A.D), at 17.00 Hours, on Jun 9, 1992

Runoff Yield 26.54 Liters/Second/Square KM, Momentary Peak Yield 788.89 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

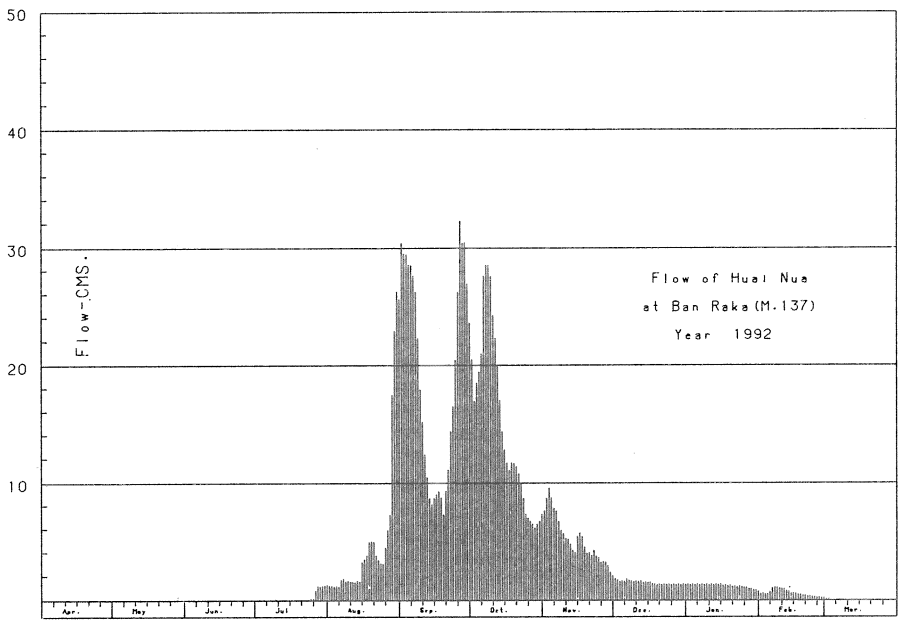
Huai Nua at Ban Raka, Si Sa Ket (M.137)

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.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.16	-0.86	0.30	0.33	1.21	2.03	1.89	1.55	1.28	1.22	1.09	0.95	
2	-0.19	-0.86	0.30	0.32	1.20	2.02	1.82	1.59	1.26	1.22	1.09	0.94	
3	-0.22	-0.86	0.30	0.31	1.20	2.02	1.85	1.62	1.25	1.22	1.08	0.84	
4	-0.25	-0.86	0.30	0.31	1.20	2.01	1.87	1.59	1.25	1.22	1.07	0.80	
5	-0.28	-0.86	0.30	0.31	1.20	2.01	1.90	1.56	1.25	1.22	1.12	0.78	
6	-0.31	-0.86	0.30	0.37	1.26	2.00	2.00	1.55	1.27	1.22	1.17	0.77	
7	-0.36	-0.86	0.30	0.38	1.27	1.98	2.01	1.52	1.26	1.22	1.19	0.76	
8	-0.42	-0.86	0.30	0.38	1.25	1.92	2.01	1.49	1.25	1.22	1.18	0.75	
9	-0.55	-0.86	0.30	0.39	1.25	1.84	2.00	1.48	1.25	1.22	1.18	0.74	
10	-0.66	-0.86	0.30	0.40	1.25	1.78	1.95	1.46	1.25	1.22	1.17	0.74	
11	-0.75	-0.86	0.30	0.40	1.24	1.71	1.92	1.46	1.25	1.22	1.16	0.73	
12	-0.84	-0.86	0.30	0.40	1.24	1.65	1.88	1.44	1.25	1.22	1.14	0.72	
13	-0.86	-0.86	0.30	0.40	1.25	1.59	1.82	1.42	1.24	1.22	1.12	0.72	
14	-0.86	-0.86	0.30	0.40	1.25	1.57	1.76	1.41	1.24	1.22	1.10	0.72	
15	-0.86	-0.86	0.30	0.40	1.37	1.59	1.72	1.47	1.24	1.22	1.09	0.72	
16	-0.86	-0.86	0.30	0.40	1.38	1.60	1.69	1.48	1.24	1.21	1.08	0.76	
17	-0.86	-0.86	0.30	0.40	1.40	1.61	1.67	1.47	1.23	1.21	1.07	0.76	
18	-0.86	-0.86	0.30	0.41	1.45	1.59	1.69	1.43	1.22	1.21	1.06	0.76	
19	-0.86	-0.86	0.30	0.41	1.45	1.54	1.69	1.41	1.22	1.21	1.05	0.76	
20	-0.86	-0.86	0.30	0.42	1.45	1.61	1.68	1.41	1.22	1.20	1.04	0.79	
21	-0.86	-0.86	0.32	0.43	1.40	1.67	1.66	1.40	1.22	1.20	1.03	0.79	
22	-0.86	-0.86	0.36	0.43	1.38	1.76	1.63	1.42	1.22	1.20	1.02	0.79	
23	-0.86	-0.86	0.35	0.80	1.36	1.81	1.59	1.40	1.22	1.20	1.01	0.79	
24	-0.86	-0.86	0.34	0.87	1.36	1.89	1.54	1.39	1.22	1.20	1.00	0.79	
25	-0.86	-0.86	0.34	0.91	1.43	1.98	1.53	1.37	1.22	1.19	0.99	0.78	
26	-0.86	-0.86	0.34	1.14	1.49	2.05	1.52	1.37	1.22	1.18	0.98	0.78	
27	-0.86	-0.86	0.34	1.20	1.54	2.03	1.51	1.37	1.22	1.17	0.97	0.77	
28	-0.86	-0.86	0.34	1.20	1.83	2.03	1.50	1.35	1.22	1.16	0.96	0.76	
29	-0.86	-0.86	0.34	1.20	1.93	1.99	1.51	1.32	1.22	1.15		0.75	
30	-0.86	-0.86	0.34	1.21	1.98	1.94	1.52	1.30	1.22	1.14		0.74	
31		-0.86		1.21	1.97		1.54		1.22	1.12		0.73	
Mean	-0.68	-0.86	0.31	0.59	1.40	1.83	1.74	1.45	1.24	1.20	1.08	0.77	
Max	-0.16	-0.86	0.36	1.21	1.98	2.05	2.01	1.62	1.28	1.22	1.19	0.95	2.05
Min	-0.86	-0.86	0.30	0.31	1.20	1.54	1.50	1.30	1.22	1.12	0.96	0.72	-0.86

Annual Max Momentary Gage Height 2.05 M (A.D), at 6.00 Hours, on Sep 26, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.80 M (A.D)
Left Bank Elevation 3.45 M (A.D)
Right Bank Elevation 3.49 M (A.D), Drainage Area 397 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	0.000	0.000	1.288	30.420	20.500	7.600	1.904	1.376	0.615	0.230	
2	0.000	0.000	0.000	0.000	1.200	29.480	17.000	8.720	1.728	1.376	0.615	0.216	
3	0.000	0.000	0.000	0.000	1.200	29.480	18.500	9.600	1.640	1.376	0.580	0.088	
4	0.000	0.000	0.000	0.000	1.200	28.540	19.500	8.720	1.640	1.376	0.545	0.040	
5	0.000	0.000	0.000	0.000	1.200	28.540	21.000	7.880	1.640	1.376	0.760	0.034	
6	0.000	0.000	0.000	0.000	1.728	27.600	27.600	7.600	1.816	1.376	1.035	0.031	
7	0.000	0.000	0.000	0.000	1.816	26.280	28.540	6.760	1.728	1.376	1.145	0.028	
8	0.000	0.000	0.000	0.000	1.640	22.320	28.540	5.960	1.640	1.376	1.090	0.025	
9	0.000	0.000	0.000	0.000	1.640	18.000	27.600	5.720	1.640	1.376	1.090	0.022	
10	0.000	0.000	0.000	0.000	1.640	15.200	24.300	5.240	1.640	1.376	1.035	0.022	
11	0.000	0.000	0.000	0.000	1.552	12.400	22.320	5.240	1.640	1.376	0.980	0.019	
12	0.000	0.000	0.000	0.000	1.552	10.500	20.000	4.760	1.640	1.376	0.870	0.016	
13	0.000	0.000	0.000	0.000	1.640	8.720	17.000	4.280	1.552	1.376	0.760	0.016	
14	0.000	0.000	0.000	0.000	1.640	8.160	14.400	4.040	1.552	1.376	0.650	0.016	
15	0.000	0.000	0.000	0.000	3.284	8.720	12.800	5.480	1.552	1.376	0.615	0.016	
16	0.000	0.000	0.000	0.000	3.456	9.000	11.700	5.720	1.552	1.288	0.580	0.028	
17	0.000	0.000	0.000	0.000	3.800	9.300	11.100	5.480	1.464	1.288	0.545	0.028	
18	0.000	0.000	0.000	0.000	5.000	8.720	11.700	4.520	1.376	1.288	0.510	0.028	
19	0.000	0.000	0.000	0.000	5.000	7.320	11.700	4.040	1.376	1.288	0.475	0.028	
20	0.000	0.000	0.000	0.000	5.000	9.300	11.400	4.040	1.376	1.200	0.440	0.037	
21	0.000	0.000	0.000	0.000	3.800	11.100	10.800	3.800	1.376	1.200	0.405	0.037	
22	0.000	0.000	0.000	0.000	3.456	14.400	9.900	4.280	1.376	1.200	0.370	0.037	
23	0.000	0.000	0.000	0.040	3.112	16.500	8.720	3.800	1.376	1.200	0.335	0.037	
24	0.000	0.000	0.000	0.124	3.112	20.500	7.320	3.628	1.376	1.200	0.300	0.037	
25	0.000	0.000	0.000	0.174	4.520	26.280	7.040	3.284	1.376	1.145	0.286	0.034	
26	0.000	0.000	0.000	0.870	5.960	32.300	6.760	3.284	1.376	1.090	0.272	0.034	
27	0.000	0.000	0.000	1.200	7.320	30.420	6.480	3.284	1.376	1.035	0.258	0.031	
28	0.000	0.000	0.000	1.200	17.500	30.420	6.200	2.940	1.376	0.980	0.244	0.028	
29	0.000	0.000	0.000	1.200	22.980	26.940	6.480	2.424	1.376	0.925		0.025	
30	0.000	0.000	0.000	1.288	26.280	23.640	6.760	2.080	1.376	0.870		0.022	
31		0.000		1.288	25.620		7.320		1.376	0.760		0.019	
Total	0.000	0.000	0.000	7.384	170.136	580.500	460.980	154.204	47.232	38.597	17.405	1.309	1477.747 CMSDAY
Mean	0.000	0.000	0.000	0.238	5.488	19.350	14.870	5.140	1.524	1.245	0.622	0.042	4.049 CMS
Max	0.000	0.000	0.000	1.288	26.280	32.300	28.540	9.600	1.904	1.376	1.145	0.230	32.300 CMS
Min	0.000	0.000	0.000	0.000	1.200	7.320	6.200	2.080	1.376	0.760	0.244	0.016	0.000 CMS
Runoff	0.000	0.000	0.000	0.638	14.700	50.155	39.829	13.323	4.081	3.335	1.504	0.113	127.677 MCM

Momentary Peak 32.30 CMS, at 2.05 M (A.D), at 6.00 Hours, on Sep 26, 1992

Runoff Yield 10.20 Liters/Second/Square KM, Momentary Peak Yield 81.36 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

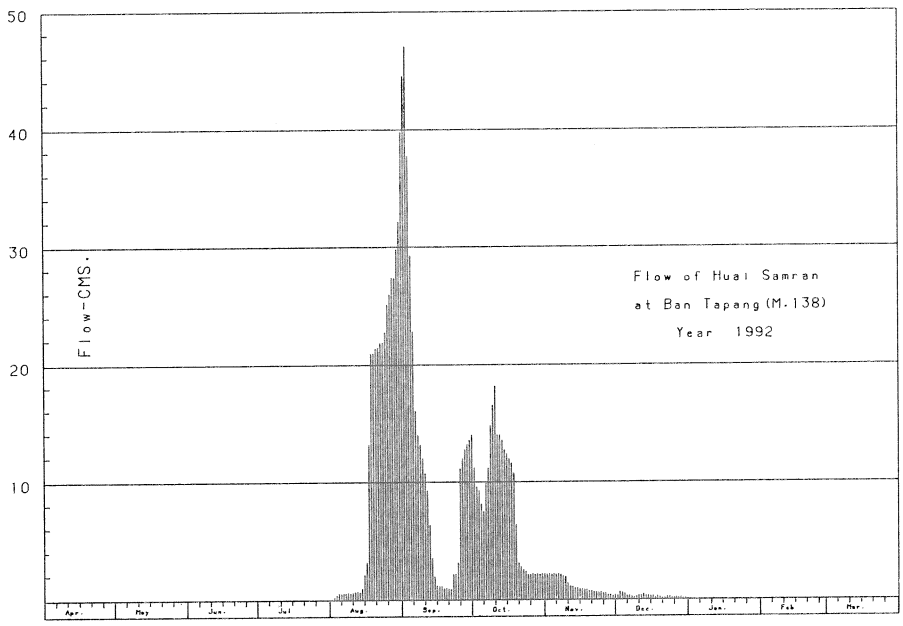
Huai Samran at Ban Tapang, Si Sa Ket (M.138)

Location	Lat. 14°-46'-54" N., Long. 104°-07'-32" E., on right bank at the bridge on road, Ban Tapang, Tambon Khok Phet, Amphoe Khu Khan, Si Sa Ket.
Drainage Area	1,038 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Department.
Location	On right bank downstream side at the abutment of the bridge.
Elevation	+5.108 m.(A.D.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 8 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.97	0.85	0.66	0.88	1.55	2.84	2.13	1.85	1.64	1.43	1.32	1.07	
2	0.97	0.84	0.65	0.88	1.60	2.89	2.09	1.85	1.69	1.42	1.31	1.06	
3	0.94	0.83	0.64	0.88	1.65	2.71	2.08	1.85	1.69	1.42	1.30	1.06	
4	0.96	0.83	0.64	0.88	1.67	2.54	2.05	1.85	1.66	1.41	1.29	1.05	
5	0.96	0.82	0.64	0.88	1.67	2.40	2.03	1.85	1.63	1.42	1.28	1.05	
6	0.95	0.81	0.65	0.87	1.67	2.25	2.10	1.85	1.63	1.43	1.27	1.04	
7	0.95	0.80	0.65	0.87	1.68	2.20	2.13	1.85	1.62	1.45	1.26	1.04	
8	0.95	0.79	0.65	0.88	1.68	2.18	2.22	1.84	1.60	1.47	1.25	1.03	
9	0.95	0.78	0.66	0.89	1.68	2.15	2.26	1.84	1.62	1.46	1.24	1.03	
10	0.94	0.77	0.66	0.89	1.68	2.12	2.30	1.81	1.63	1.45	1.23	1.02	
11	0.94	0.76	0.66	0.89	1.70	2.08	2.20	1.80	1.64	1.43	1.22	1.01	
12	0.94	0.75	0.66	0.89	1.70	2.00	2.20	1.78	1.65	1.42	1.21	1.00	
13	0.94	0.75	0.66	0.89	1.70	1.91	2.19	1.77	1.64	1.43	1.20	1.00	
14	0.93	0.74	0.67	0.89	1.75	1.84	2.17	1.76	1.63	1.42	1.19	1.00	
15	0.92	0.74	0.67	0.90	1.85	1.80	2.16	1.75	1.63	1.40	1.18	0.99	
16	0.92	0.86	0.68	0.90	1.90	1.80	2.15	1.74	1.63	1.39	1.18	0.98	
17	0.91	0.85	0.68	0.92	2.18	1.79	2.14	1.74	1.62	1.38	1.17	1.00	
18	0.90	0.85	0.68	0.92	2.36	1.76	2.12	1.73	1.62	1.37	1.16	1.00	
19	0.89	0.84	0.69	0.92	2.36	1.76	2.00	1.72	1.61	1.36	1.15	0.99	
20	0.88	0.83	0.70	0.92	2.37	1.75	1.90	1.71	1.60	1.35	1.15	0.99	
21	0.87	0.82	0.86	0.92	2.37	1.75	1.88	1.70	1.60	1.34	1.14	0.98	
22	0.86	0.81	0.88	0.94	2.38	1.85	1.87	1.69	1.61	1.35	1.14	1.03	
23	0.85	0.80	0.88	0.95	2.38	1.85	1.86	1.69	1.62	1.35	1.13	1.02	
24	0.84	0.79	0.87	0.97	2.40	1.90	1.85	1.69	1.59	1.36	1.13	1.02	
25	0.88	0.78	0.87	1.01	2.45	2.13	1.85	1.68	1.59	1.36	1.12	1.02	
26	0.88	0.76	0.87	1.28	2.47	2.15	1.85	1.67	1.59	1.37	1.10	1.01	
27	0.87	0.74	0.87	1.35	2.50	2.17	1.85	1.65	1.60	1.35	1.09	1.00	
28	0.87	0.72	0.87	1.35	2.50	2.18	1.85	1.64	1.60	1.34	1.08	0.99	
29	0.86	0.70	0.87	1.38	2.55	2.19	1.85	1.63	1.57	1.34		0.98	
30	0.86	0.69	0.88	1.40	2.60	2.20	1.85	1.64	1.55	1.33		0.98	
31		0.67		1.45	2.75		1.85		1.55	1.33		0.97	
Mean	0.91	0.79	0.73	0.99	2.06	2.10	2.03	1.75	1.62	1.39	1.20	1.01	
Max	0.97	0.86	0.88	1.45	2.75	2.89	2.30	1.85	1.69	1.47	1.32	1.07	2.89
Min	0.84	0.67	0.64	0.87	1.55	1.75	1.85	1.63	1.55	1.33	1.08	0.97	0.64

Annual Max Momentary Gage Height 2.90 M (A.D), at 18.00 Hours, on Sep 2, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.82 M (A.D)
Left Bank Elevation 3.91 M (A.D)
Right Bank Elevation 3.95 M (A.D), Drainage Area 1038 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.000	0.000	0.000	0.000	0.140	44.480	11.200	2.200	0.400	0.069	0.051	0.011	
2	0.000	0.000	0.000	0.000	0.200	47.080	9.640	2.200	0.650	0.067	0.050	0.010	
3	0.000	0.000	0.000	0.000	0.450	37.720	9.280	2.200	0.650	0.067	0.048	0.010	
4	0.000	0.000	0.000	0.000	0.550	29.320	8.200	2.200	0.500	0.066	0.046	0.008	
5	0.000	0.000	0.000	0.000	0.550	22.800	7.480	2.200	0.350	0.067	0.045	0.008	
6	0.000	0.000	0.000	0.000	0.550	16.100	10.000	2.200	0.350	0.069	0.043	0.006	
7	0.000	0.000	0.000	0.000	0.600	14.000	11.200	2.200	0.300	0.072	0.042	0.006	
8	0.000	0.000	0.000	0.000	0.600	13.200	14.840	2.000	0.200	0.075	0.040	0.005	
9	0.000	0.000	0.000	0.000	0.600	12.000	16.520	2.000	0.300	0.074	0.038	0.005	
10	0.000	0.000	0.000	0.000	0.600	10.800	18.200	1.400	0.350	0.072	0.037	0.003	
11	0.000	0.000	0.000	0.000	0.700	9.280	14.000	1.200	0.400	0.069	0.035	0.002	
12	0.000	0.000	0.000	0.000	0.700	6.400	14.000	1.100	0.450	0.067	0.034	0.000	
13	0.000	0.000	0.000	0.000	0.700	3.520	13.600	1.050	0.400	0.069	0.032	0.000	
14	0.000	0.000	0.000	0.000	0.950	2.000	12.800	1.000	0.350	0.067	0.030	0.000	
15	0.000	0.000	0.000	0.000	2.200	1.200	12.400	0.950	0.350	0.064	0.029	0.000	
16	0.000	0.000	0.000	0.000	3.200	1.200	12.000	0.900	0.350	0.062	0.029	0.000	
17	0.000	0.000	0.000	0.000	13.200	1.150	11.600	0.900	0.300	0.061	0.027	0.000	
18	0.000	0.000	0.000	0.000	20.960	1.000	10.800	0.850	0.300	0.059	0.026	0.000	
19	0.000	0.000	0.000	0.000	20.960	1.000	6.400	0.800	0.250	0.058	0.024	0.000	
20	0.000	0.000	0.000	0.000	21.420	0.950	3.200	0.750	0.200	0.056	0.024	0.000	
21	0.000	0.000	0.000	0.000	21.420	0.950	2.800	0.700	0.200	0.054	0.022	0.000	
22	0.000	0.000	0.000	0.000	21.880	2.200	2.600	0.650	0.250	0.056	0.022	0.005	
23	0.000	0.000	0.000	0.000	21.880	2.200	2.400	0.650	0.300	0.056	0.021	0.003	
24	0.000	0.000	0.000	0.000	22.800	3.200	2.200	0.650	0.188	0.058	0.021	0.003	
25	0.000	0.000	0.000	0.002	25.100	11.200	2.200	0.600	0.188	0.058	0.019	0.003	
26	0.000	0.000	0.000	0.045	26.020	12.000	2.200	0.550	0.188	0.059	0.016	0.002	
27	0.000	0.000	0.000	0.056	27.400	12.800	2.200	0.450	0.200	0.056	0.014	0.000	
28	0.000	0.000	0.000	0.056	27.400	13.200	2.200	0.400	0.200	0.054	0.013	0.000	
29	0.000	0.000	0.000	0.061	29.800	13.600	2.200	0.350	0.164	0.054		0.000	
30	0.000	0.000	0.000	0.064	32.200	14.000	2.200	0.400	0.140	0.053		0.000	
31		0.000		0.072	39.800		2.200		0.140	0.053		0.000	
Total	0.000	0.000	0.000	0.356	385.530	360.550	252.760	35.700	9.558	1.941	0.878	0.090	1047.363 CMSDAY
Mean	0.000	0.000	0.000	0.011	12.436	12.018	8.154	1.190	0.308	0.063	0.031	0.003	2.869 CMS
Max	0.000	0.000	0.000	0.072	39.800	47.080	18.200	2.200	0.650	0.075	0.051	0.011	47.080 CMS
Min	0.000	0.000	0.000	0.000	0.140	0.950	2.200	0.350	0.140	0.053	0.013	0.000	0.000 CMS
Runoff	0.000	0.000	0.000	0.031	33.310	31.152	21.838	3.084	0.826	0.168	0.076	0.008	90.492 MCM

Momentary Peak 47.60 CMS, at 2.90 M (A.D), at 18.00 Hours, on Sep 2, 1992

Runoff Yield 2.76 Liters/Second/Square KM, Momentary Peak Yield 45.86 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

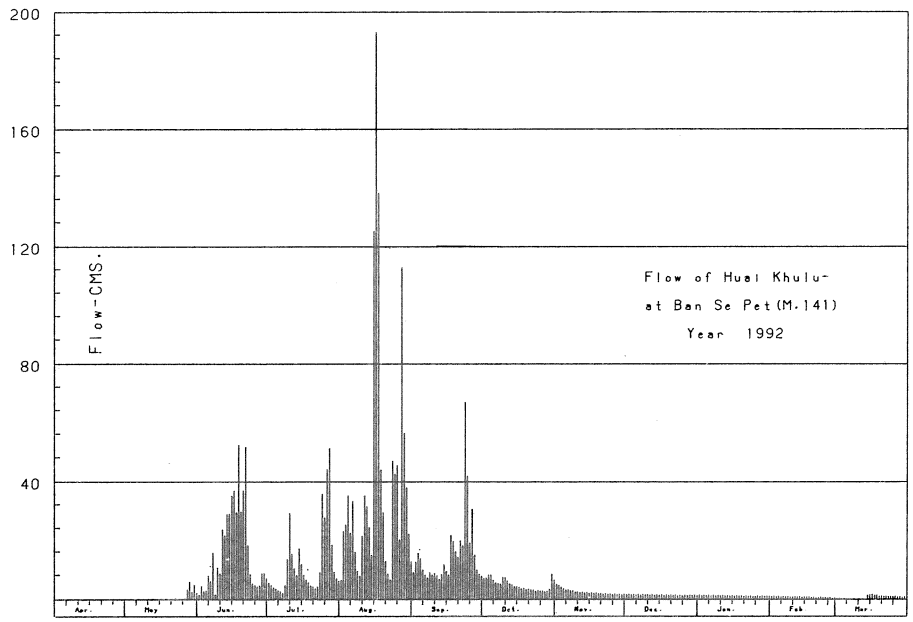
Huai Khulu at Ban Se Pet, Ubon Ratchathani (M.141)

Location	Lat. 15-32-24 N., Long. 104-58-46 E., on left bank at the bridge on road, Ban Se Pet, Amphoe Trakan Phutpon, Ubon Ratchathani.
Drainage Area	382 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highway Department.
Location	On left bank downstream side at the abutment of the bridge.
Elevation	+7.494 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date.
Rating Operation	
Period of Rating	1987 to date.
Rated by Float	-
Rated by Current Meter	1987 to date.
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation +5.25 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.04	0.86	1.42	1.88	1.95	2.22	2.01	1.83	1.44	1.37	1.28	1.14	
2	1.04	0.85	1.75	1.78	2.92	2.45	2.05	1.78	1.44	1.37	1.28	1.13	
3	1.03	0.87	1.59	1.72	2.99	2.62	2.13	1.74	1.44	1.37	1.28	1.12	
4	1.03	0.96	1.59	1.66	3.26	2.52	2.15	1.67	1.43	1.37	1.27	1.11	
5	1.03	1.01	2.13	1.62	2.91	2.28	1.95	1.64	1.43	1.37	1.27	1.10	
6	1.02	1.00	1.92	1.57	3.21	2.13	1.88	1.63	1.43	1.37	1.27	1.09	
7	1.02	0.99	2.63	1.53	2.64	2.06	1.84	1.62	1.43	1.36	1.26	1.08	
8	1.01	0.97	1.46	1.80	2.24	2.21	1.85	1.60	1.43	1.36	1.26	1.07	
9	1.00	0.97	2.32	2.52	2.11	2.15	2.05	1.57	1.43	1.36	1.25	1.06	
10	0.99	0.97	2.19	3.10	2.86	2.19	2.07	1.56	1.42	1.35	1.25	1.04	
11	0.98	0.95	2.94	2.60	3.26	2.10	1.93	1.55	1.42	1.35	1.25	1.03	
12	0.98	0.96	2.87	2.30	3.16	2.00	1.85	1.55	1.42	1.34	1.24	1.02	
13	0.97	0.96	3.09	2.14	2.96	2.15	1.80	1.54	1.41	1.34	1.24	1.00	
14	0.95	1.09	3.09	2.69	2.58	2.40	1.76	1.54	1.41	1.33	1.23	1.41	
15	0.95	1.09	3.26	2.41	4.71	2.25	1.73	1.53	1.40	1.34	1.23	1.38	
16	0.94	1.10	3.30	2.13	5.42	2.13	1.71	1.53	1.40	1.33	1.23	1.43	
17	0.94	1.10	3.11	1.98	4.86	2.88	1.69	1.53	1.39	1.32	1.22	1.40	
18	0.93	1.09	3.64	1.87	3.47	2.79	1.68	1.52	1.39	1.32	1.21	1.37	
19	0.92	1.09	3.11	1.79	3.10	2.65	1.66	1.52	1.39	1.32	1.21	1.33	
20	0.91	1.08	3.30	1.73	2.48	2.54	1.65	1.51	1.39	1.31	1.21	1.30	
21	0.90	1.08	3.63	1.67	2.17	2.80	1.65	1.50	1.39	1.31	1.20	1.30	
22	0.90	1.16	2.74	1.75	1.99	2.74	1.62	1.50	1.38	1.31	1.20	1.29	
23	0.89	1.09	2.17	2.22	3.53	3.91	1.61	1.49	1.37	1.31	1.19	1.29	
24	0.89	1.07	1.84	3.27	3.44	3.42	1.61	1.48	1.37	1.31	1.19	1.28	
25	0.88	1.08	1.80	3.05	3.50	2.77	1.61	1.48	1.37	1.31	1.18	1.28	
26	0.87	1.10	1.73	3.47	2.82	3.14	1.59	1.47	1.37	1.31	1.17	1.27	
27	0.87	1.66	1.79	3.62	4.56	2.59	1.58	1.46	1.37	1.30	1.16	1.26	
28	0.86	1.90	2.18	2.75	3.72	2.28	1.58	1.45	1.37	1.30	1.16	1.26	
29	0.85	1.55	2.20	2.22	3.33	2.16	1.67	1.45	1.37	1.30		1.25	
30	0.85	1.81	2.01	2.03	2.89	2.11	2.18	1.44	1.37	1.29		1.24	
31		1.52		1.92	2.46		1.96		1.37	1.29		1.23	
Mean	0.95	1.13	2.43	2.22	3.15	2.49	1.81	1.56	1.40	1.33	1.23	1.21	
Max	1.04	1.90	3.64	3.62	5.42	3.91	2.18	1.83	1.44	1.37	1.28	1.43	5.42
Min	0.85	0.85	1.42	1.53	1.95	2.00	1.58	1.44	1.37	1.29	1.16	1.00	0.85

Annual Max Momentary Gage Height 5.84 M (A.D), at 16.00 Hours, on Aug 15, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 1.23 M (A.D)
Left Bank Elevation 6.24 M (A.D)
Right Bank Elevation 5.24 M (A.D), Drainage Area 382 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.16	0.00	1.68	5.80	6.50	9.30	7.10	5.30	1.76	1.48	1.12	0.56	
2	0.16	0.00	4.50	4.80	23.20	12.75	7.50	4.80	1.76	1.48	1.12	0.52	
3	0.12	0.00	2.90	4.20	25.65	15.90	8.30	4.40	1.76	1.48	1.12	0.48	
4	0.12	0.00	2.90	3.60	35.40	13.90	8.50	3.70	1.72	1.48	1.08	0.44	
5	0.12	0.04	8.30	3.20	22.85	10.20	6.50	3.40	1.72	1.48	1.08	0.40	
6	0.08	0.00	6.20	2.70	33.40	8.30	5.80	3.30	1.72	1.48	1.08	0.36	
7	0.08	0.00	16.10	2.30	16.30	7.60	5.40	3.20	1.72	1.44	1.04	0.32	
8	0.04	0.00	1.84	5.00	9.60	9.15	5.50	3.00	1.72	1.44	1.04	0.28	
9	0.00	0.00	10.80	13.90	8.10	8.50	7.50	2.70	1.72	1.44	1.00	0.24	
10	0.00	0.00	8.90	29.50	21.50	8.90	7.70	2.60	1.68	1.40	1.00	0.16	
11	0.00	0.00	23.90	15.50	35.40	8.00	6.30	2.50	1.68	1.40	1.00	0.12	
12	0.00	0.00	21.75	10.50	31.60	7.00	5.50	2.50	1.68	1.36	0.96	0.08	
13	0.00	0.00	29.15	8.40	24.60	8.50	5.00	2.40	1.64	1.36	0.96	0.00	
14	0.00	0.36	29.15	17.30	15.10	12.00	4.60	2.40	1.64	1.32	0.92	1.64	
15	0.00	0.36	35.40	12.15	125.35	9.75	4.30	2.30	1.60	1.36	0.92	1.52	
16	0.00	0.40	37.00	8.30	193.00	8.30	4.10	2.30	1.60	1.32	0.92	1.72	
17	0.00	0.40	29.85	6.80	138.40	22.00	3.90	2.30	1.56	1.28	0.88	1.60	
18	0.00	0.36	52.50	5.70	44.15	19.75	3.80	2.20	1.56	1.28	0.84	1.48	
19	0.00	0.36	29.85	4.90	29.50	16.50	3.60	2.20	1.56	1.28	0.84	1.32	
20	0.00	0.32	37.00	4.30	13.20	14.30	3.50	2.10	1.56	1.24	0.84	1.20	
21	0.00	0.32	52.00	3.70	8.70	20.00	3.50	2.00	1.56	1.24	0.80	1.20	
22	0.00	0.64	18.50	4.50	6.90	18.50	3.20	2.00	1.52	1.24	0.80	1.16	
23	0.00	0.36	8.70	9.30	47.00	67.15	3.10	1.96	1.48	1.24	0.76	1.16	
24	0.00	0.28	5.40	35.80	42.80	41.90	3.10	1.92	1.48	1.24	0.76	1.12	
25	0.00	0.32	5.00	27.75	45.50	19.25	3.10	1.92	1.48	1.24	0.72	1.12	
26	0.00	0.40	4.30	44.15	20.50	30.90	2.90	1.88	1.48	1.24	0.68	1.08	
27	0.00	3.60	4.90	51.50	112.80	15.30	2.80	1.84	1.48	1.20	0.64	1.04	
28	0.00	6.00	8.80	18.75	56.60	10.20	2.80	1.80	1.48	1.20	0.64	1.04	
29	0.00	2.50	9.00	9.30	38.20	8.60	3.70	1.80	1.48	1.20		1.00	
30	0.00	5.10	7.10	7.30	22.25	8.10	8.80	1.76	1.48	1.16		0.96	
31		2.20		6.20	12.90		6.60		1.48	1.16		0.92	
Total	0.88	24.32	513.37	387.10	1266.95	470.50	158.00	78.48	49.76	41.16	25.56	26.24	3042.32 CMSDAY
Mean	0.03	0.78	17.11	12.49	40.87	15.68	5.10	2.62	1.61	1.33	0.91	0.85	8.34 CMS
Max	0.16	6.00	52.50	51.50	193.00	67.15	8.80	5.30	1.76	1.48	1.12	1.72	193.00 CMS
Min	0.00	0.00	1.68	2.30	6.50	7.00	2.80	1.76	1.48	1.16	0.64	0.00	0.00 CMS
Runoff	0.076	2.101	44.355	33.445	109.465	40.651	13.651	6.781	4.299	3.556	2.208	2.267	262.856 MCM

Momentary Peak 236.40 CMS, at 5.84 M (A.D), at 16.00 Hours, on Aug 15, 1992
Runoff Yield 21.82 Liters/Second/Square KM, Momentary Peak Yield 618.85 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

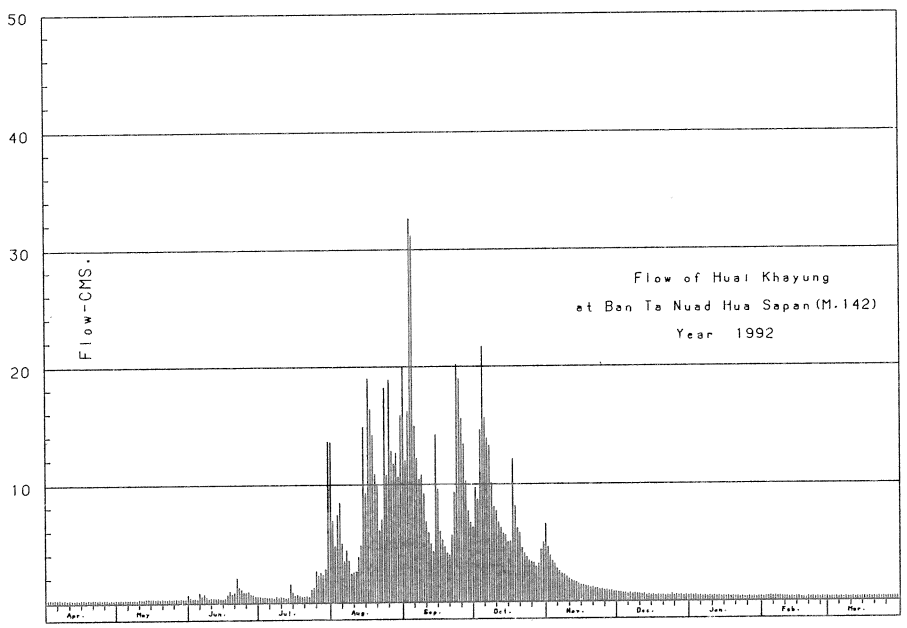
Huai Khayung at Ban Ta Nuad Hua Saphan, Si Sa Ket (M.142)

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 28 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.28	0.42	0.46	1.45	1.93	1.72	1.20	0.56	0.46	0.38	0.35	
2	0.32	0.28	0.39	0.45	1.21	2.31	1.63	1.09	0.55	0.46	0.38	0.35	
3	0.32	0.28	0.37	0.44	1.51	3.51	2.17	1.03	0.54	0.46	0.42	0.35	
4	0.32	0.28	0.37	0.44	1.61	3.41	2.75	0.99	0.53	0.45	0.42	0.35	
5	0.32	0.28	0.58	0.44	1.24	2.20	2.26	0.94	0.52	0.44	0.42	0.35	
6	0.32	0.28	0.47	0.42	1.03	1.95	2.10	0.90	0.53	0.43	0.42	0.34	
7	0.31	0.27	0.55	0.41	1.16	1.79	2.05	0.87	0.52	0.43	0.42	0.34	
8	0.29	0.27	0.45	0.47	1.04	1.82	1.76	0.85	0.52	0.43	0.41	0.34	
9	0.28	0.28	0.40	0.44	0.88	1.68	1.57	0.83	0.52	0.43	0.41	0.34	
10	0.28	0.34	0.41	0.45	0.89	1.44	1.54	0.79	0.51	0.43	0.41	0.34	
11	0.28	0.35	0.40	0.43	0.91	1.34	1.43	0.78	0.51	0.43	0.37	0.34	
12	0.28	0.35	0.40	0.41	1.08	1.23	1.38	0.75	0.51	0.43	0.36	0.33	
13	0.28	0.36	0.39	0.41	1.22	1.15	1.33	0.75	0.48	0.42	0.36	0.33	
14	0.28	0.38	0.38	0.74	2.19	2.13	1.31	0.72	0.49	0.42	0.36	0.33	
15	0.29	0.35	0.39	0.58	1.68	1.71	1.25	0.71	0.48	0.42	0.36	0.33	
16	0.30	0.35	0.40	0.50	2.54	1.35	1.25	0.70	0.49	0.41	0.36	0.34	
17	0.29	0.35	0.54	0.53	2.33	1.27	1.94	0.69	0.47	0.41	0.36	0.34	
18	0.29	0.35	0.60	0.49	2.13	1.20	1.58	0.67	0.47	0.41	0.36	0.34	
19	0.29	0.34	0.55	0.48	1.83	1.13	1.38	0.66	0.46	0.41	0.36	0.34	
20	0.29	0.35	0.57	0.46	1.74	1.10	1.33	0.66	0.46	0.41	0.36	0.35	
21	0.29	0.35	0.83	0.47	1.36	1.31	1.19	0.64	0.46	0.40	0.36	0.35	
22	0.30	0.35	0.70	0.47	1.46	1.69	1.12	0.63	0.46	0.39	0.36	0.36	
23	0.29	0.35	0.63	0.64	2.48	2.63	1.08	0.62	0.46	0.39	0.35	0.35	
24	0.29	0.35	0.59	0.67	1.82	2.54	1.03	0.61	0.51	0.38	0.35	0.35	
25	0.29	0.33	0.57	0.92	2.53	2.26	1.02	0.60	0.48	0.38	0.35	0.35	
26	0.27	0.34	0.60	0.85	2.01	2.06	1.00	0.60	0.48	0.38	0.35	0.35	
27	0.26	0.35	0.54	0.90	1.91	1.77	0.96	0.59	0.47	0.38	0.35	0.35	
28	0.27	0.36	0.52	0.86	1.99	1.54	0.99	0.58	0.47	0.38	0.35	0.34	
29	0.27	0.37	0.50	0.94	1.81	1.43	1.17	0.57	0.46	0.38		0.34	
30	0.28	0.33	0.46	2.08	2.28	1.39	1.24	0.56	0.46	0.38		0.34	
31		0.54		2.08	2.62		1.42		0.46	0.38		0.34	
Mean	0.29	0.34	0.50	0.66	1.68	1.81	1.48	0.75	0.49	0.41	0.38	0.34	
Max	0.32	0.54	0.83	2.08	2.62	3.51	2.75	1.20	0.56	0.46	0.42	0.36	3.51
Min	0.26	0.27	0.37	0.41	0.88	1.10	0.96	0.56	0.46	0.38	0.35	0.33	0.26

Annual Max Momentary Gage Height 4.08 M (A.D), at 6.00 Hours, on Sep 4, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.16 M (A.D)
Left Bank Elevation 7.59 M (A.D)
Right Bank Elevation 8.02 M (A.D), Drainage Area 241 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.28	0.44	0.52	6.95	12.03	9.72	4.70	0.84	0.52	0.38	0.35	
2	0.32	0.28	0.39	0.50	4.79	16.22	8.73	3.93	0.80	0.52	0.38	0.35	
3	0.32	0.28	0.37	0.48	7.50	32.65	14.67	3.51	0.76	0.52	0.44	0.35	
4	0.32	0.28	0.37	0.48	8.51	31.15	21.75	3.23	0.72	0.50	0.44	0.35	
5	0.32	0.28	0.92	0.48	5.06	15.00	15.66	2.88	0.68	0.48	0.44	0.35	
6	0.32	0.28	0.54	0.44	3.51	12.25	13.90	2.60	0.72	0.46	0.44	0.34	
7	0.31	0.27	0.80	0.42	4.42	10.49	13.35	2.42	0.68	0.46	0.44	0.34	
8	0.29	0.27	0.50	0.54	3.58	10.82	10.16	2.30	0.68	0.46	0.42	0.34	
9	0.28	0.28	0.40	0.48	2.48	9.28	8.10	2.18	0.68	0.46	0.42	0.34	
10	0.28	0.34	0.42	0.50	2.54	6.86	7.80	1.94	0.64	0.46	0.42	0.34	
11	0.28	0.35	0.40	0.46	2.67	5.96	6.77	1.88	0.64	0.46	0.37	0.34	
12	0.28	0.35	0.40	0.42	3.86	4.97	6.32	1.70	0.64	0.46	0.36	0.33	
13	0.28	0.36	0.39	0.42	4.88	4.35	5.87	1.70	0.56	0.44	0.36	0.33	
14	0.28	0.38	0.38	1.64	14.89	14.23	5.69	1.52	0.58	0.44	0.36	0.33	
15	0.29	0.35	0.39	0.92	9.28	9.61	5.15	1.46	0.56	0.44	0.36	0.33	
16	0.30	0.35	0.40	0.60	19.02	6.05	5.15	1.40	0.58	0.42	0.36	0.34	
17	0.29	0.35	0.76	0.72	16.46	5.33	12.14	1.36	0.54	0.42	0.36	0.34	
18	0.29	0.35	1.00	0.58	14.23	4.70	8.20	1.28	0.54	0.42	0.36	0.34	
19	0.29	0.34	0.80	0.56	10.93	4.21	6.32	1.24	0.52	0.42	0.36	0.34	
20	0.29	0.35	0.88	0.52	9.94	4.00	5.87	1.24	0.52	0.42	0.36	0.35	
21	0.29	0.35	2.18	0.54	6.14	5.69	4.63	1.16	0.52	0.40	0.36	0.35	
22	0.30	0.35	1.40	0.54	7.04	9.39	4.14	1.12	0.52	0.39	0.36	0.36	
23	0.29	0.35	1.12	1.16	18.26	20.19	3.86	1.08	0.52	0.39	0.35	0.35	
24	0.29	0.35	0.96	1.28	10.82	19.02	3.51	1.04	0.64	0.38	0.35	0.35	
25	0.29	0.33	0.88	2.74	18.89	15.66	3.44	1.00	0.56	0.38	0.35	0.35	
26	0.27	0.34	1.00	2.30	12.91	13.46	3.30	1.00	0.56	0.38	0.35	0.35	
27	0.26	0.35	0.76	2.60	11.81	10.27	3.02	0.96	0.54	0.38	0.35	0.35	
28	0.27	0.36	0.68	2.36	12.69	7.80	3.23	0.92	0.54	0.38	0.35	0.34	
29	0.27	0.37	0.60	2.88	10.71	6.77	4.49	0.88	0.52	0.38		0.34	
30	0.28	0.33	0.52	13.68	15.88	6.41	5.06	0.84	0.52	0.38		0.34	
31		0.76		13.68	20.06		6.68		0.52	0.38		0.34	
Total	8.76	10.61	21.05	55.44	300.71	334.82	236.68	54.47	18.84	13.40	10.65	10.64	1076.07 CMSDAY
Mean	0.29	0.34	0.70	1.79	9.70	11.16	7.63	1.82	0.61	0.43	0.38	0.34	2.95 CMS
Max	0.32	0.76	2.18	13.68	20.06	32.65	21.75	4.70	0.84	0.52	0.44	0.36	32.65 CMS
Min	0.26	0.27	0.37	0.42	2.48	4.00	3.02	0.84	0.52	0.38	0.35	0.33	0.26 CMS
Runoff	0.757	0.917	1.819	4.790	25.981	28.928	20.449	4.706	1.628	1.158	0.920	0.919	92.972 MCM

Momentary Peak 42.14 CMS, at 4.08 M (A.D), at 6.00 Hours, on Sep 4, 1992

Runoff Yield 12.23 Liters/Second/Square KM, Momentary Peak Yield 174.85 Liters/Second/Square KM

WATER YEAR 1992

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 side on the bridge.

Elevation — +6.919 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 22 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

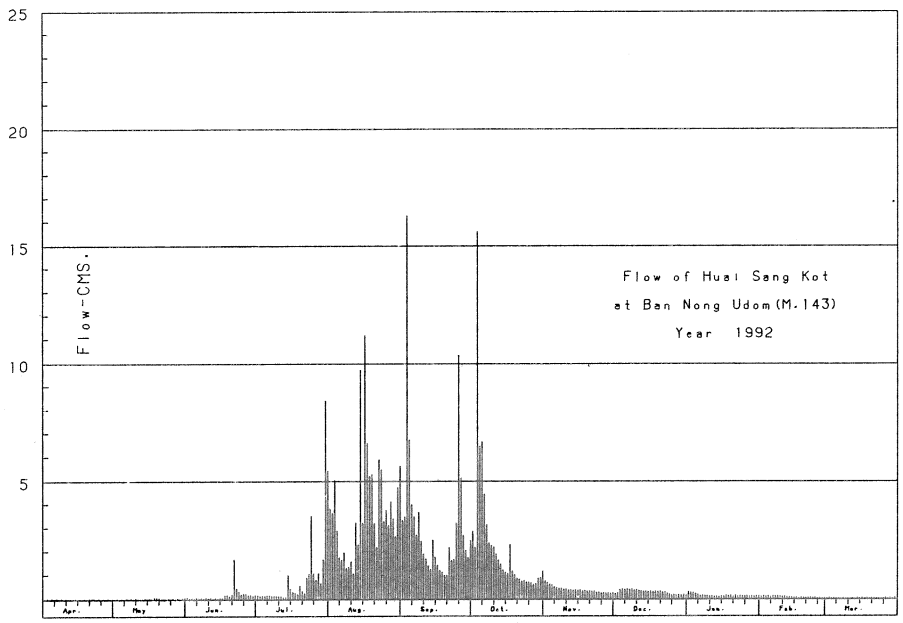
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.45	0.49	0.57	1.94	1.82	1.70	0.96	0.65	0.69	0.55	0.48	
2	0.46	0.45	0.47	0.56	1.89	1.85	1.51	0.91	0.65	0.68	0.55	0.48	
3	0.46	0.45	0.46	0.55	2.21	3.83	3.76	0.88	0.76	0.66	0.55	0.47	
4	0.46	0.45	0.46	0.56	1.71	2.56	2.50	0.86	0.76	0.64	0.55	0.47	
5	0.45	0.45	0.48	0.57	1.36	1.99	2.54	0.83	0.76	0.61	0.55	0.47	
6	0.45	0.45	0.47	0.57	1.31	1.86	2.10	0.80	0.76	0.58	0.55	0.47	
7	0.45	0.46	0.47	0.56	1.44	1.66	1.77	0.79	0.76	0.58	0.55	0.47	
8	0.45	0.46	0.47	0.55	1.18	1.90	1.58	0.78	0.76	0.58	0.55	0.47	
9	0.45	0.46	0.49	0.56	1.19	1.60	1.53	0.77	0.75	0.56	0.55	0.47	
10	0.45	0.46	0.47	0.55	1.28	1.41	1.52	0.76	0.74	0.55	0.54	0.47	
11	0.45	0.46	0.47	0.53	1.09	1.34	1.41	0.75	0.73	0.54	0.53	0.47	
12	0.45	0.46	0.47	0.50	1.79	1.22	1.32	0.74	0.71	0.54	0.52	0.47	
13	0.45	0.46	0.47	0.50	1.54	1.15	1.24	0.73	0.71	0.53	0.50	0.47	
14	0.45	0.46	0.46	1.06	3.05	1.61	1.15	0.73	0.70	0.53	0.49	0.47	
15	0.45	0.46	0.48	0.77	1.79	1.37	1.10	0.73	0.70	0.54	0.49	0.47	
16	0.45	0.46	0.48	0.69	3.25	1.22	1.08	0.73	0.70	0.55	0.49	0.47	
17	0.45	0.47	0.58	0.65	2.53	1.14	1.55	0.72	0.70	0.57	0.49	0.47	
18	0.45	0.49	0.58	0.63	2.25	1.10	1.13	0.72	0.70	0.58	0.49	0.47	
19	0.45	0.50	0.55	0.84	2.26	1.06	1.06	0.71	0.70	0.59	0.49	0.47	
20	0.45	0.48	0.60	0.70	1.78	1.05	1.01	0.71	0.70	0.58	0.49	0.47	
21	0.45	0.46	1.33	0.65	1.51	1.50	0.98	0.71	0.69	0.57	0.49	0.47	
22	0.45	0.46	0.79	1.02	2.39	1.31	0.95	0.70	0.68	0.56	0.49	0.47	
23	0.45	0.45	0.69	1.07	2.30	1.32	0.95	0.68	0.65	0.56	0.49	0.47	
24	0.45	0.45	0.63	1.86	1.81	1.79	0.93	0.67	0.62	0.56	0.49	0.47	
25	0.45	0.46	0.65	1.08	1.92	3.14	0.93	0.66	0.60	0.56	0.48	0.47	
26	0.45	0.46	0.63	0.97	1.76	2.23	0.90	0.66	0.60	0.55	0.48	0.47	
27	0.45	0.46	0.60	1.09	2.02	1.66	0.88	0.65	0.60	0.55	0.48	0.47	
28	0.45	0.46	0.58	0.89	1.83	1.46	0.88	0.65	0.60	0.55	0.48	0.47	
29	0.45	0.46	0.57	1.33	1.65	1.36	1.01	0.65	0.60	0.55	0.48	0.47	
30	0.45	0.46	0.58	2.86	2.15	1.60	1.01	0.65	0.60	0.55		0.47	
31		0.49		2.29	2.33		1.12		0.60	0.55		0.47	
Mean	0.45	0.46	0.56	0.89	1.89	1.67	1.39	0.74	0.69	0.57	0.51	0.47	
Max	0.46	0.50	1.33	2.86	3.25	3.83	3.76	0.96	0.76	0.69	0.55	0.48	3.83
Min	0.45	0.45	0.46	0.50	1.09	1.05	0.88	0.65	0.60	0.53	0.48	0.47	0.45

Annual Max Momentary Gage Height — 4.06 M (A.D), at 6.00 Hours, on Oct 3, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.38 M (A.D)

Left Bank Elevation — 5.37 M (A.D)

Right Bank Elevation — 4.05 M (A.D), Drainage Area — 46 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.05	0.09	0.17	3.86	3.38	2.90	0.82	0.27	0.33	0.15	0.08	
2	0.06	0.05	0.07	0.16	3.66	3.50	2.23	0.72	0.27	0.32	0.15	0.08	
3	0.06	0.05	0.06	0.15	5.05	16.30	15.64	0.66	0.44	0.29	0.15	0.07	
4	0.06	0.05	0.06	0.16	2.94	6.80	6.50	0.62	0.44	0.26	0.15	0.07	
5	0.05	0.05	0.08	0.17	1.80	4.06	6.70	0.56	0.44	0.21	0.15	0.07	
6	0.05	0.05	0.07	0.17	1.67	3.54	4.50	0.50	0.44	0.18	0.15	0.07	
7	0.05	0.06	0.07	0.16	2.02	2.74	3.18	0.49	0.44	0.18	0.15	0.07	
8	0.05	0.06	0.07	0.15	1.35	3.70	2.44	0.47	0.44	0.18	0.15	0.07	
9	0.05	0.06	0.09	0.16	1.38	2.50	2.29	0.45	0.42	0.16	0.15	0.07	
10	0.05	0.06	0.07	0.15	1.60	1.93	2.26	0.44	0.41	0.15	0.14	0.07	
11	0.05	0.06	0.07	0.13	1.13	1.75	1.93	0.42	0.40	0.14	0.13	0.07	
12	0.05	0.06	0.07	0.10	3.26	1.45	1.70	0.41	0.36	0.14	0.12	0.07	
13	0.05	0.06	0.07	0.10	2.32	1.27	1.50	0.40	0.36	0.13	0.10	0.07	
14	0.05	0.06	0.06	1.05	9.75	2.54	1.27	0.40	0.35	0.13	0.09	0.07	
15	0.05	0.06	0.08	0.45	3.26	1.83	1.15	0.40	0.35	0.14	0.09	0.07	
16	0.05	0.06	0.08	0.33	11.20	1.45	1.10	0.40	0.35	0.15	0.09	0.07	
17	0.05	0.07	0.18	0.27	6.65	1.25	2.35	0.38	0.35	0.17	0.09	0.07	
18	0.05	0.09	0.18	0.24	5.25	1.15	1.23	0.38	0.35	0.18	0.09	0.07	
19	0.05	0.10	0.15	0.58	5.30	1.05	1.05	0.36	0.35	0.19	0.09	0.07	
20	0.05	0.08	0.20	0.35	3.22	1.02	0.92	0.36	0.35	0.18	0.09	0.07	
21	0.05	0.06	1.73	0.27	2.23	2.20	0.86	0.36	0.33	0.17	0.09	0.07	
22	0.05	0.06	0.49	0.95	5.95	1.67	0.80	0.35	0.32	0.16	0.09	0.07	
23	0.05	0.05	0.33	1.08	5.50	1.70	0.80	0.32	0.27	0.16	0.09	0.07	
24	0.05	0.05	0.24	3.54	3.34	3.26	0.76	0.31	0.23	0.16	0.09	0.07	
25	0.05	0.06	0.27	1.10	3.78	10.38	0.76	0.29	0.20	0.16	0.08	0.07	
26	0.05	0.06	0.24	0.84	3.14	5.15	0.70	0.29	0.20	0.15	0.08	0.07	
27	0.05	0.06	0.20	1.13	4.18	2.74	0.66	0.27	0.20	0.15	0.08	0.07	
28	0.05	0.06	0.18	0.68	3.42	2.08	0.66	0.27	0.20	0.15	0.08	0.07	
29	0.05	0.06	0.17	1.73	2.70	1.80	0.92	0.27	0.20	0.15		0.07	
30	0.05	0.06	0.18	8.46	4.75	2.50	0.92	0.27	0.20	0.15		0.07	
31		0.09		5.45	5.65		1.20		0.20	0.15		0.07	
Total	1.54	1.91	5.90	30.43	121.31	96.69	71.88	12.64	10.13	5.52	3.15	2.19	363.29 CMSDAY
Mean	0.05	0.06	0.20	0.98	3.91	3.22	2.32	0.42	0.33	0.18	0.11	0.07	1.00 CMS
Max	0.06	0.10	1.73	8.46	11.20	16.30	15.64	0.82	0.44	0.33	0.15	0.08	16.30 CMS
Min	0.05	0.05	0.06	0.10	1.13	1.02	0.66	0.27	0.20	0.13	0.08	0.07	0.05 CMS
Runoff	0.133	0.165	0.510	2.629	10.481	8.354	6.210	1.092	0.875	0.477	0.272	0.189	31.388 MCM

Momentary Peak 18.60 CMS, at 4.06 M (A.D), at 6.00 Hours, on Oct 3, 1992

Runoff Yield 21.64 Liters/Second/Square KM, Momentary Peak Yield 404.35 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

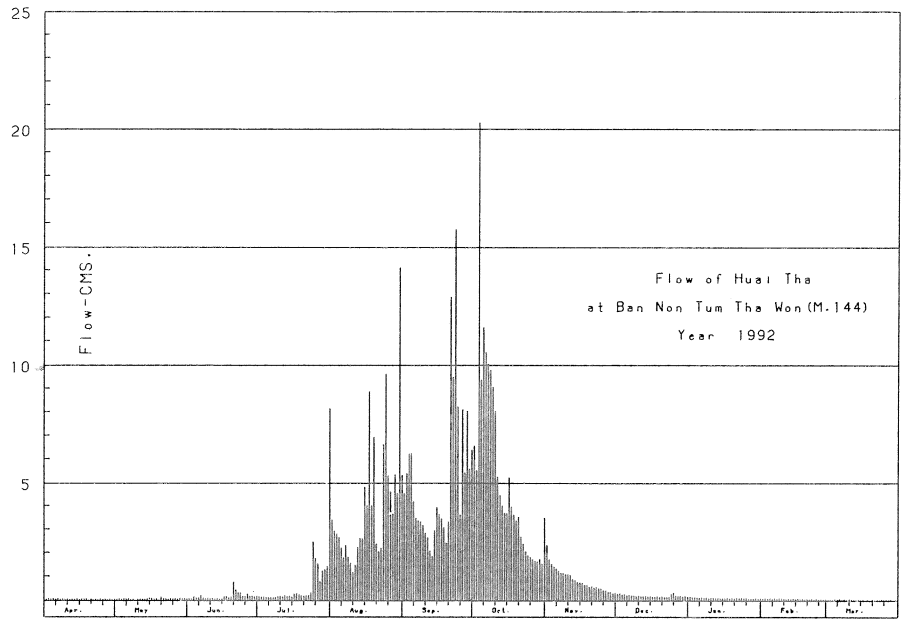
Huai Tha at Ban Non Tum Tha Won, Si Sa Ket (M.144)

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	5-time daily readings at 06.00, 09.00, 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 28 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	0.84	0.86	0.95	1.93	2.21	2.62	1.67	1.03	0.95	0.88	0.82	
2	0.85	0.83	0.86	0.95	1.82	2.38	2.41	1.51	1.03	0.95	0.88	0.82	
3	0.85	0.83	0.95	0.94	1.78	2.55	4.33	1.46	1.02	0.94	0.88	0.82	
4	0.85	0.83	0.92	0.94	1.75	2.55	3.04	1.41	1.02	0.94	0.87	0.81	
5	0.85	0.83	0.92	0.94	1.64	2.13	3.35	1.39	1.01	0.93	0.87	0.81	
6	0.84	0.83	1.00	0.93	1.53	1.95	3.21	1.35	1.01	0.92	0.87	0.81	
7	0.84	0.82	0.89	0.93	1.66	1.93	3.14	1.33	1.01	0.92	0.87	0.81	
8	0.84	0.82	0.87	0.93	1.54	1.91	3.10	1.32	1.00	0.92	0.87	0.81	
9	0.84	0.82	0.87	0.98	1.46	1.88	3.00	1.31	1.00	0.91	0.88	0.81	
10	0.84	0.81	0.87	0.97	1.33	1.79	2.85	1.30	0.99	0.91	0.86	0.81	
11	0.83	0.81	0.86	0.97	1.44	1.75	2.35	1.29	0.99	0.91	0.86	0.81	
12	0.83	0.81	0.86	1.00	1.64	1.60	2.20	1.24	0.99	0.90	0.86	0.80	
13	0.83	0.84	0.85	0.98	1.74	1.55	2.08	1.22	0.98	0.90	0.85	0.80	
14	0.83	0.83	0.85	0.98	1.73	1.82	2.01	1.20	0.98	0.90	0.85	0.80	
15	0.83	0.92	0.85	0.97	2.27	2.07	2.00	1.19	0.98	0.90	0.85	0.80	
16	0.83	0.87	0.98	1.03	2.08	1.99	2.35	1.18	0.98	0.90	0.85	0.80	
17	0.83	0.85	0.95	1.03	2.97	1.95	2.07	1.16	0.97	0.90	0.84	0.80	
18	0.83	0.84	0.94	1.02	2.09	1.85	1.99	1.15	0.97	0.90	0.84	0.80	
19	0.82	0.84	0.94	1.00	2.69	1.69	1.92	1.13	0.97	0.90	0.84	0.80	
20	0.82	0.96	1.20	1.00	1.68	1.91	1.96	1.13	0.96	0.90	0.83	0.80	
21	0.82	0.90	1.08	0.99	1.60	3.51	1.75	1.12	0.96	0.89	0.83	0.80	
22	0.82	0.88	1.05	1.01	1.63	3.06	1.68	1.12	0.96	0.89	0.83	0.80	
23	0.82	0.86	1.04	1.04	2.63	3.86	1.60	1.11	0.95	0.89	0.83	0.80	
24	0.82	0.86	0.99	1.70	3.08	2.88	1.55	1.10	1.03	0.89	0.83	0.80	
25	0.82	0.86	0.95	1.52	2.36	1.99	1.54	1.08	1.04	0.89	0.82	0.80	
26	0.82	0.86	1.03	1.46	2.23	2.86	1.51	1.07	1.00	0.88	0.82	0.80	
27	0.82	0.86	1.00	1.21	2.00	2.39	1.50	1.06	1.00	0.88	0.82	0.79	
28	0.81	0.88	0.98	1.35	2.37	2.85	1.48	1.05	0.99	0.88	0.82	0.79	
29	0.81	0.87	0.97	1.38	2.21	2.42	1.52	1.04	0.98	0.88		0.79	
30	0.81	0.87	0.98	1.41	3.67	2.58	1.45	1.04	0.97	0.88		0.79	
31		0.87		2.87	2.37		1.96		0.96	0.88		0.79	
Mean	0.83	0.85	0.95	1.14	2.03	2.26	2.24	1.22	0.99	0.90	0.85	0.80	
Max	0.85	0.96	1.20	2.87	3.67	3.86	4.33	1.67	1.04	0.95	0.88	0.82	4.33
Min	0.81	0.81	0.85	0.93	1.33	1.55	1.45	1.04	0.95	0.88	0.82	0.79	0.79

Annual Max Momentary Gage Height 4.80 M (A.D), at 12.00 Hours, on Oct 3, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.39 M (A.D)
Left Bank Elevation 7.76 M (A.D)
Right Bank Elevation 9.51 M (A.D), Drainage Area 124 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.07	0.08	0.15	3.42	4.55	6.60	2.38	0.29	0.15	0.09	0.06	
2	0.08	0.07	0.08	0.15	2.98	5.40	5.55	1.74	0.29	0.15	0.09	0.06	
3	0.08	0.07	0.15	0.14	2.82	6.25	20.30	1.58	0.26	0.14	0.09	0.06	
4	0.08	0.07	0.12	0.14	2.70	6.25	9.38	1.43	0.26	0.14	0.09	0.06	
5	0.08	0.07	0.12	0.14	2.26	4.22	11.60	1.37	0.23	0.13	0.09	0.06	
6	0.07	0.07	0.20	0.13	1.82	3.50	10.57	1.25	0.23	0.12	0.09	0.06	
7	0.07	0.06	0.10	0.13	2.34	3.42	10.08	1.19	0.23	0.12	0.09	0.06	
8	0.07	0.06	0.09	0.13	1.86	3.34	9.80	1.16	0.20	0.12	0.09	0.06	
9	0.07	0.06	0.09	0.18	1.58	3.22	9.10	1.13	0.20	0.11	0.09	0.06	
10	0.07	0.06	0.09	0.17	1.19	2.86	8.05	1.10	0.19	0.11	0.08	0.06	
11	0.07	0.06	0.08	0.17	1.52	2.70	5.25	1.07	0.19	0.11	0.08	0.06	
12	0.07	0.06	0.08	0.20	2.26	2.10	4.50	0.92	0.19	0.10	0.08	0.05	
13	0.07	0.07	0.08	0.18	2.66	1.90	4.02	0.86	0.18	0.10	0.08	0.05	
14	0.07	0.07	0.08	0.18	2.62	2.98	3.74	0.80	0.18	0.10	0.08	0.05	
15	0.07	0.12	0.08	0.17	4.85	3.98	3.70	0.77	0.18	0.10	0.08	0.05	
16	0.07	0.09	0.18	0.29	4.02	3.66	5.25	0.74	0.18	0.10	0.08	0.05	
17	0.07	0.08	0.15	0.29	8.89	3.50	3.98	0.68	0.17	0.10	0.07	0.05	
18	0.07	0.07	0.14	0.26	4.06	3.10	3.66	0.65	0.17	0.10	0.07	0.05	
19	0.06	0.07	0.14	0.20	6.95	2.46	3.38	0.59	0.17	0.10	0.07	0.05	
20	0.06	0.16	0.80	0.20	2.42	3.34	3.54	0.59	0.16	0.10	0.07	0.05	
21	0.06	0.10	0.44	0.19	2.10	12.88	2.70	0.56	0.16	0.10	0.07	0.05	
22	0.06	0.09	0.35	0.23	2.22	9.52	2.42	0.56	0.16	0.10	0.07	0.05	
23	0.06	0.08	0.32	0.32	6.65	15.74	2.10	0.53	0.15	0.10	0.07	0.05	
24	0.06	0.08	0.19	2.50	9.66	8.26	1.90	0.50	0.29	0.10	0.07	0.05	
25	0.06	0.08	0.15	1.78	5.30	3.66	1.86	0.44	0.32	0.10	0.06	0.05	
26	0.06	0.08	0.29	1.58	4.65	8.12	1.74	0.41	0.20	0.09	0.06	0.05	
27	0.06	0.08	0.20	0.83	3.70	5.45	1.70	0.38	0.20	0.09	0.06	0.05	
28	0.06	0.09	0.18	1.25	5.35	8.05	1.64	0.35	0.19	0.09	0.06	0.05	
29	0.06	0.09	0.17	1.34	4.55	5.60	1.78	0.32	0.18	0.09		0.05	
30	0.06	0.09	0.18	1.43	14.16	6.40	1.55	0.32	0.17	0.09		0.05	
31		0.09		8.19	5.35		3.54		0.16	0.09		0.05	
Total	2.03	2.46	5.40	23.24	126.91	156.41	164.98	26.37	6.33	3.34	2.17	1.66	521.30 CMSDAY
Mean	0.07	0.08	0.18	0.75	4.09	5.21	5.32	0.88	0.20	0.11	0.08	0.05	1.43 CMS
Max	0.08	0.16	0.80	8.19	14.16	15.74	20.30	2.38	0.32	0.15	0.09	0.06	20.30 CMS
Min	0.06	0.06	0.08	0.13	1.19	1.90	1.55	0.32	0.15	0.09	0.06	0.05	0.05 CMS
Runoff	0.175	0.213	0.467	2.008	10.965	13.514	14.254	2.278	0.547	0.289	0.187	0.143	45.040 MCM

Momentary Peak 25.40 CMS, at 4.80 M (A.D), at 12.00 Hours, on Oct 3, 1992

Runoff Yield 11.52 Liters/Second/Square KM, Momentary Peak Yield 204.84 Liters/Second/Square KM

WATER YEAR 1992

MUN RIVER BASIN

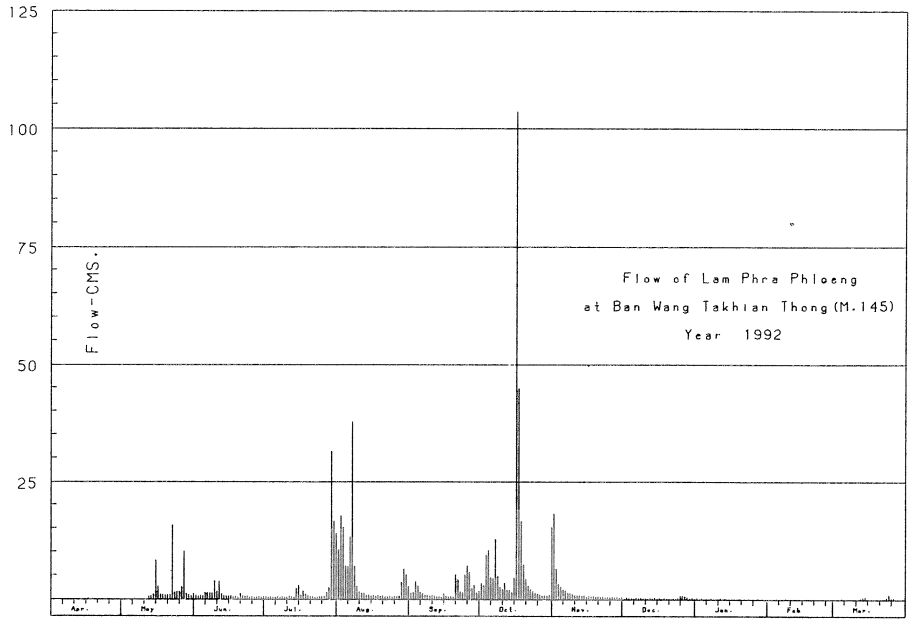
Lam Phra Phloeng at Ban Wang Takhian Thong, Nakhon Ratchasima (M.145)

Location	Lat. 14°-29'-57" N., Long. 101°-41'-34" 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	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 58 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.10	-0.11	0.26	0.16	1.12	0.34	0.56	1.60	0.12	0.07	0.00	-0.08	
2	-0.10	-0.12	0.23	0.16	1.58	0.38	0.53	0.85	0.11	0.07	-0.01	-0.04	
3	-0.10	-0.12	0.25	0.15	1.42	0.60	1.06	0.56	0.11	0.06	-0.01	-0.06	
4	-0.11	-0.12	0.27	0.15	0.90	0.52	1.11	0.49	0.11	0.05	-0.01	0.04	
5	-0.12	-0.12	0.37	0.15	0.88	0.38	0.70	0.44	0.11	0.05	-0.01	-0.01	
6	-0.12	0.00	0.35	0.15	1.30	0.33	0.66	0.41	0.10	0.05	-0.01	-0.03	
7	-0.12	-0.05	0.36	0.15	2.59	0.30	1.27	0.37	0.10	0.05	-0.01	-0.05	
8	-0.13	-0.10	0.34	0.15	0.89	0.27	0.72	0.34	0.10	0.05	-0.02	-0.06	
9	-0.14	-0.12	0.62	0.15	0.50	0.25	0.48	0.33	0.10	0.04	-0.02	-0.08	
10	-0.14	-0.13	0.39	0.13	0.38	0.24	0.45	0.26	0.10	0.03	-0.03	-0.08	
11	-0.14	-0.03	0.60	0.24	0.36	0.22	0.57	0.29	0.09	0.03	-0.03	-0.09	
12	-0.14	0.23	0.34	0.15	0.34	0.20	0.43	0.26	0.09	0.03	-0.03	0.04	
13	-0.15	0.23	0.21	0.17	0.30	0.18	0.42	0.26	0.09	0.03	-0.04	0.14	
14	-0.15	0.33	0.25	0.45	0.29	0.16	0.38	0.25	0.09	0.02	-0.04	0.15	
15	-0.15	0.99	0.24	0.53	0.26	0.34	0.68	0.20	0.08	0.02	-0.05	0.03	
16	0.09	0.50	0.24	0.30	0.24	0.20	4.59	0.23	0.08	0.02	-0.06	0.01	
17	-0.07	0.32	0.20	0.40	0.23	0.18	2.90	0.22	0.07	0.02	-0.06	-0.02	
18	0.11	0.30	0.17	0.33	0.25	0.18	1.51	0.20	0.07	0.02	-0.06	-0.04	
19	0.01	0.29	0.15	0.23	0.24	0.18	0.92	0.20	0.07	0.02	-0.06	-0.05	
20	-0.09	0.28	0.35	0.21	0.23	0.74	0.65	0.19	0.06	0.01	-0.04	-0.07	
21	-0.10	0.30	0.22	0.17	0.20	0.65	0.52	0.18	0.06	0.01	-0.04	-0.07	
22	-0.11	1.46	0.22	0.15	0.20	0.40	0.44	0.17	0.05	0.01	-0.06	-0.06	
23	-0.09	0.38	0.19	0.14	0.20	0.36	0.39	0.16	0.08	0.01	-0.06	0.13	
24	-0.10	0.38	0.16	0.20	0.19	0.75	0.36	0.15	0.09	0.01	-0.08	0.35	
25	-0.11	0.40	0.16	0.18	0.19	0.89	0.34	0.15	0.27	0.01	-0.10	0.11	
26	-0.11	0.49	0.16	0.22	0.19	0.78	0.30	0.15	0.24	0.00	-0.05	0.06	
27	-0.11	1.10	0.17	0.38	0.24	0.47	0.26	0.15	0.23	0.00	-0.05	0.00	
28	-0.11	0.34	0.17	0.47	0.60	0.52	0.25	0.14	0.13	0.00	-0.07	0.02	
29	-0.11	0.30	0.17	2.30	0.84	0.37	0.24	0.13	0.10	0.00		0.03	
30	-0.11	0.27	0.16	1.50	0.75	0.40	0.27	0.13	0.09	0.00		-0.06	
31		0.33		1.35	0.50		1.43		0.08	0.00		-0.06	
Mean	-0.10	0.26	0.27	0.37	0.59	0.39	0.82	0.32	0.11	0.03	-0.04	0.00	
Max	0.11	1.46	0.62	2.30	2.59	0.89	4.59	1.60	0.27	0.07	0.00	0.35	4.59
Min	-0.15	-0.13	0.15	0.13	0.19	0.16	0.24	0.13	0.05	0.00	-0.10	-0.09	-0.15

Annual Max Momentary Gage Height 6.00 M (A.D), at 8.00 Hours, on Oct 16, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.17 M (A.D)
Left Bank Elevation 7.92 M (A.D)
Right Bank Elevation 7.58 M (A.D), Drainage Area 335 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.09	0.88	0.58	10.52	1.32	3.40	18.20	0.46	0.34	0.20	0.12	
2	0.10	0.08	0.79	0.58	17.88	1.64	3.10	6.60	0.43	0.34	0.19	0.16	
3	0.10	0.08	0.85	0.55	15.32	3.80	9.56	3.40	0.43	0.32	0.19	0.14	
4	0.09	0.08	0.91	0.55	7.20	3.00	10.36	2.70	0.43	0.30	0.19	0.28	
5	0.08	0.08	1.56	0.55	6.96	1.64	4.80	2.20	0.43	0.30	0.19	0.19	
6	0.08	0.20	1.40	0.55	13.40	1.24	4.40	1.90	0.40	0.30	0.19	0.17	
7	0.08	0.15	1.48	0.55	37.78	1.00	12.92	1.56	0.40	0.30	0.19	0.15	
8	0.07	0.10	1.32	0.55	7.08	0.91	5.04	1.32	0.40	0.30	0.18	0.14	
9	0.06	0.08	4.00	0.55	2.80	0.85	2.60	1.24	0.40	0.28	0.18	0.12	
10	0.06	0.07	1.72	0.49	1.64	0.82	2.30	0.88	0.40	0.26	0.17	0.12	
11	0.06	0.17	3.80	0.82	1.48	0.76	3.50	0.97	0.38	0.26	0.17	0.11	
12	0.06	0.79	1.32	0.55	1.32	0.70	2.10	0.88	0.38	0.26	0.17	0.28	
13	0.05	0.79	0.73	0.61	1.00	0.64	2.00	0.88	0.38	0.26	0.16	0.52	
14	0.05	1.24	0.85	2.30	0.97	0.58	1.64	0.85	0.38	0.24	0.16	0.55	
15	0.05	8.46	0.82	3.10	0.88	1.32	4.60	0.70	0.36	0.24	0.15	0.26	
16	0.38	2.80	0.82	1.00	0.82	0.70	103.56	0.79	0.36	0.24	0.14	0.22	
17	0.13	1.16	0.70	1.80	0.79	0.64	45.00	0.76	0.34	0.24	0.14	0.18	
18	0.43	1.00	0.61	1.24	0.85	0.64	16.76	0.70	0.34	0.24	0.14	0.16	
19	0.22	0.97	0.55	0.79	0.82	0.64	7.48	0.70	0.34	0.24	0.14	0.15	
20	0.11	0.94	1.40	0.73	0.79	5.28	4.30	0.67	0.32	0.22	0.16	0.13	
21	0.10	1.00	0.76	0.61	0.70	4.30	3.00	0.64	0.32	0.22	0.16	0.13	
22	0.09	15.96	0.76	0.55	0.70	1.80	2.20	0.61	0.30	0.22	0.14	0.14	
23	0.11	1.64	0.67	0.52	0.70	1.48	1.72	0.58	0.36	0.22	0.14	0.49	
24	0.10	1.64	0.58	0.70	0.67	5.40	1.48	0.55	0.38	0.22	0.12	1.40	
25	0.09	1.80	0.58	0.64	0.67	7.08	1.32	0.55	0.91	0.22	0.10	0.43	
26	0.09	2.70	0.58	0.76	0.67	5.76	1.00	0.55	0.82	0.20	0.15	0.32	
27	0.09	10.20	0.61	1.64	0.82	2.50	0.88	0.55	0.79	0.20	0.15	0.20	
28	0.09	1.32	0.61	2.50	3.80	3.00	0.85	0.52	0.49	0.20	0.13	0.24	
29	0.09	1.00	0.61	31.60	6.48	1.56	0.82	0.49	0.40	0.20		0.26	
30	0.09	0.91	0.58	16.60	5.40	1.80	0.91	0.49	0.38	0.20		0.14	
31		1.24		14.20	2.80		15.48		0.36	0.20		0.14	
Total	3.30	58.74	32.85	88.76	153.71	62.80	279.08	53.43	13.27	7.78	4.49	8.04	766.25 CMSDAY
Mean	0.11	1.89	1.10	2.86	4.96	2.09	9.00	1.78	0.43	0.25	0.16	0.26	2.10 CMS
Max	0.43	15.96	4.00	31.60	37.78	7.08	103.56	18.20	0.91	0.34	0.20	1.40	103.56 CMS
Min	0.05	0.07	0.55	0.49	0.67	0.58	0.82	0.49	0.30	0.20	0.10	0.11	0.05 CMS
Runoff	0.285	5.075	2.838	7.669	13.281	5.426	24.113	4.616	1.147	0.672	0.388	0.695	66.204 MCM

Momentary Peak 174.33 CMS, at 6.00 M (A.D), at 8.00 Hours, on Oct 16, 1992

Runoff Yield 6.27 Liters/Second/Square KM, Momentary Peak Yield 520.40 Liters/Second/Square KM

WATER YEAR 1992

TONLE SAP BASIN

Khlong Phra Phut at Ban Pong Yai Liang, Chanthaburi (TL.3)

Location — Lat. 12-58-05 N., Long. 102-17-20 E., on left bank downstream from the bridge of Pong Nam Ron - Wang Nam Yen Highway, Ban Pong Yai Liang, Amphoe Pong Nam Ron, Chanthaburi.

Drainage Area — 79 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +190.67 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank about 6 meters from the top staff gage.

Elevation — +195.973 m.(M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1983 to date.

Rating Operation

Period of Rating — 1986 to date.

Rated by Float — -

Rated by Current Meter — 1986 to date.

Stability of Channel Regimes — Fairly stable.

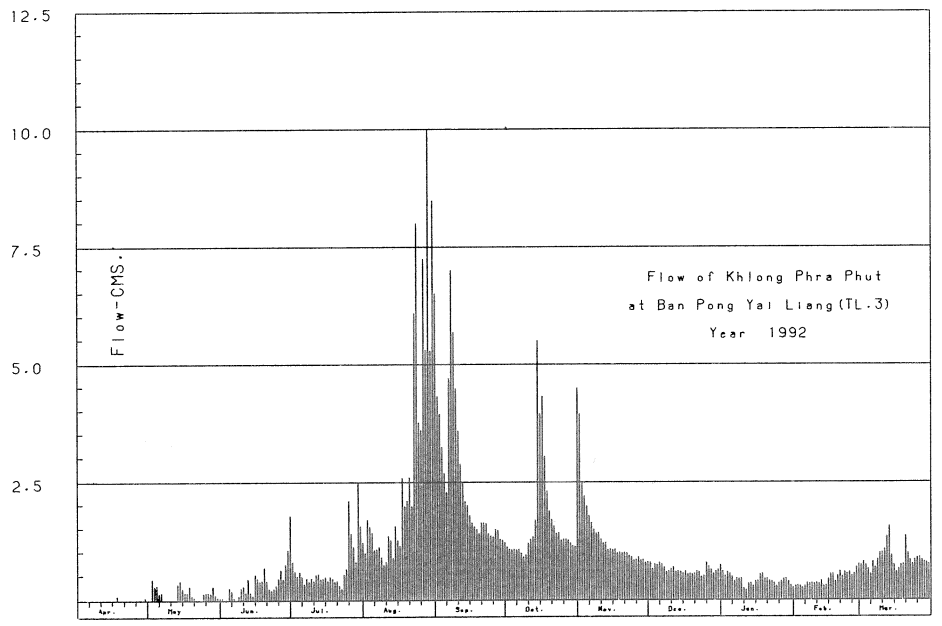
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 30 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.87	190.89	190.91	191.06	191.10	191.39	191.12	191.37	191.06	191.02	190.96	191.05	
2	190.87	190.99	190.90	191.02	191.20	191.37	191.11	191.28	191.03	191.00	190.96	191.06	
3	190.85	190.96	190.90	191.00	191.18	191.33	191.11	191.25	191.05	191.02	190.96	191.05	
4	190.85	190.96	190.95	191.02	191.16	191.30	191.11	191.23	191.05	191.01	190.95	191.03	
5	190.83	190.93	190.94	191.00	191.11	191.26	191.11	191.21	191.06	191.00	190.96	191.01	
6	190.81	190.93	190.91	190.97	191.11	191.41	191.11	191.19	191.05	190.98	190.97	191.06	
7	190.81	190.88	190.90	190.99	191.12	191.52	191.10	191.17	191.04	190.99	190.97	191.04	
8	190.80	190.88	190.92	190.98	191.08	191.46	191.08	191.16	191.02	190.99	190.97	191.07	
9	190.83	190.85	190.95	190.99	191.05	191.40	191.09	191.16	191.02	190.99	190.97	191.10	
10	190.79	190.83	190.96	190.98	191.06	191.35	191.13	191.14	191.03	190.95	190.97	191.10	
11	190.79	190.89	190.93	191.01	191.15	191.31	191.14	191.13	191.04	190.94	190.97	191.11	
12	190.77	190.89	190.99	191.01	191.14	191.28	191.15	191.13	191.02	190.97	190.98	191.15	
13	190.76	190.97	190.93	190.99	191.08	191.24	191.20	191.11	191.02	190.97	190.96	191.18	
14	190.83	190.98	190.92	190.99	191.18	191.23	191.45	191.11	191.02	190.96	190.96	191.09	
15	190.79	190.95	191.01	191.00	191.14	191.21	191.37	191.11	191.01	190.98	190.99	191.05	
16	190.78	190.93	190.99	190.98	191.12	191.19	191.39	191.11	191.02	190.98	191.01	191.02	
17	190.92	190.93	190.98	191.00	191.29	191.18	191.32	191.10	191.01	191.01	191.01	191.03	
18	190.89	190.96	190.98	190.99	191.23	191.17	191.26	191.10	191.01	191.01	190.98	191.05	
19	190.87	190.92	191.04	190.98	191.24	191.16	191.22	191.10	191.01	190.99	191.00	191.05	
20	190.85	190.91	190.98	190.98	191.29	191.19	191.20	191.10	191.01	190.99	191.02	191.15	
21	190.85	190.89	190.95	190.96	191.23	191.19	191.18	191.10	191.02	190.98	191.00	191.10	
22	190.80	190.90	190.94	190.95	191.48	191.19	191.16	191.09	191.02	190.98	191.02	191.07	
23	190.78	190.90	190.95	191.01	191.56	191.16	191.16	191.08	191.00	190.97	191.01	191.05	
24	190.78	190.93	190.96	191.03	191.36	191.15	191.14	191.07	191.00	190.96	191.02	191.07	
25	190.78	190.93	190.99	191.24	191.35	191.15	191.14	191.07	191.06	190.97	191.00	191.08	
26	190.81	190.93	191.03	191.16	191.53	191.17	191.14	191.08	191.04	190.98	191.01	191.08	
27	190.80	190.93	190.99	191.12	191.44	191.17	191.14	191.07	191.03	190.99	191.04	191.07	
28	190.77	190.96	191.05	191.06	191.64	191.14	191.13	191.07	191.01	190.99	191.05	191.06	
29	190.91	190.92	191.11	191.28	191.44	191.14	191.12	191.06	191.02	190.98		191.06	
30	190.88	190.91	191.21	191.18	191.58	191.13	191.12	191.06	191.03	190.96		191.05	
31		190.91		191.13	191.50		191.40		191.05	190.95		191.04	
Mean	190.82	190.92	190.97	191.03	191.26	191.25	191.18	191.13	191.03	190.98	190.99	191.07	
Max	190.92	190.99	191.21	191.28	191.64	191.52	191.45	191.37	191.06	191.02	191.05	191.18	191.64
Min	190.76	190.83	190.90	190.95	191.05	191.13	191.08	191.06	191.00	190.94	190.95	191.01	190.76

Annual Max Momentary Gage Height 192.42 M (MSL), at 19.00 Hours, on Sep 6, 1992
Zero Gage at Bottom Elevation 190.67 M (MSL), River Bed 190.82 M (MSL)
Left Bank Elevation 195.34 M (MSL)
Right Bank Elevation 195.49 M (MSL), Drainage Area 79 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.05	0.80	1.00	4.32	1.14	3.96	0.80	0.60	0.30	0.75	
2	0.00	0.45	0.00	0.60	1.70	3.96	1.07	2.50	0.65	0.50	0.30	0.80	
3	0.00	0.30	0.00	0.50	1.56	3.24	1.07	2.20	0.75	0.60	0.30	0.75	
4	0.00	0.30	0.25	0.60	1.42	2.70	1.07	2.00	0.75	0.55	0.25	0.65	
5	0.00	0.15	0.20	0.50	1.07	2.30	1.07	1.80	0.80	0.50	0.30	0.55	
6	0.00	0.15	0.05	0.35	1.07	4.70	1.07	1.63	0.75	0.40	0.35	0.80	
7	0.00	0.00	0.00	0.45	1.14	7.00	1.00	1.49	0.70	0.45	0.35	0.70	
8	0.00	0.00	0.10	0.40	0.90	5.70	0.90	1.42	0.60	0.45	0.35	0.85	
9	0.00	0.00	0.25	0.45	0.75	4.50	0.95	1.42	0.60	0.45	0.35	1.00	
10	0.00	0.00	0.30	0.40	0.80	3.60	1.21	1.28	0.65	0.25	0.35	1.00	
11	0.00	0.00	0.15	0.55	1.35	2.88	1.28	1.21	0.70	0.20	0.35	1.07	
12	0.00	0.00	0.45	0.55	1.28	2.50	1.35	1.21	0.60	0.35	0.40	1.35	
13	0.00	0.35	0.15	0.45	0.90	2.10	1.70	1.07	0.60	0.35	0.30	1.56	
14	0.00	0.40	0.10	0.45	1.56	2.00	5.50	1.07	0.60	0.30	0.30	0.95	
15	0.00	0.25	0.55	0.50	1.28	1.80	3.96	1.07	0.55	0.40	0.45	0.75	
16	0.00	0.15	0.45	0.40	1.14	1.63	4.32	1.07	0.60	0.40	0.55	0.60	
17	0.10	0.15	0.40	0.50	2.60	1.56	3.06	1.00	0.55	0.55	0.55	0.65	
18	0.00	0.30	0.40	0.45	2.00	1.49	2.30	1.00	0.55	0.55	0.40	0.75	
19	0.00	0.10	0.70	0.40	2.10	1.42	1.90	1.00	0.55	0.45	0.50	0.75	
20	0.00	0.05	0.40	0.40	2.60	1.63	1.70	1.00	0.55	0.45	0.60	1.35	
21	0.00	0.00	0.25	0.30	2.00	1.63	1.56	1.00	0.60	0.40	0.50	1.00	
22	0.00	0.00	0.20	0.25	6.10	1.63	1.42	0.95	0.60	0.40	0.60	0.85	
23	0.00	0.00	0.25	0.55	8.00	1.42	1.42	0.90	0.50	0.35	0.55	0.75	
24	0.00	0.15	0.30	0.65	3.78	1.35	1.28	0.85	0.50	0.30	0.60	0.85	
25	0.00	0.15	0.45	2.10	3.60	1.35	1.28	0.85	0.80	0.35	0.50	0.90	
26	0.00	0.15	0.65	1.42	7.25	1.49	1.28	0.90	0.70	0.40	0.55	0.90	
27	0.00	0.15	0.45	1.14	5.30	1.49	1.28	0.85	0.65	0.45	0.70	0.85	
28	0.00	0.30	0.75	0.80	10.00	1.28	1.21	0.85	0.55	0.45	0.75	0.80	
29	0.05	0.10	1.07	2.50	5.30	1.28	1.14	0.80	0.60	0.40		0.80	
30	0.00	0.05	1.80	1.56	8.50	1.21	1.14	0.80	0.65	0.30		0.75	
31		0.05		1.21	6.50		4.50		0.75	0.25		0.70	
Total	0.15	4.20	11.12	22.18	94.55	75.16	55.13	39.15	19.80	12.80	12.35	26.78	373.37 CMSDAY
Mean	0.01	0.14	0.37	0.72	3.05	2.51	1.78	1.30	0.64	0.41	0.44	0.86	1.02 CMS
Max	0.10	0.45	1.80	2.50	10.00	7.00	5.50	3.96	0.80	0.60	0.75	1.56	10.00 CMS
Min	0.00	0.00	0.00	0.25	0.75	1.21	0.90	0.80	0.50	0.20	0.25	0.55	0.00 CMS
Runoff	0.013	0.363	0.961	1.916	8.169	6.494	4.763	3.383	1.711	1.106	1.067	2.314	32.259 MCM

Momentary Peak 44.40 CMS, at 192.42 M (MSL), at 19.00 Hours, on Sep 6, 1992

Runoff Yield 12.95 Liters/Second/Square KM, Momentary Peak Yield 562.03 Liters/Second/Square KM

WATER YEAR 1992

TONLE SAP BASIN

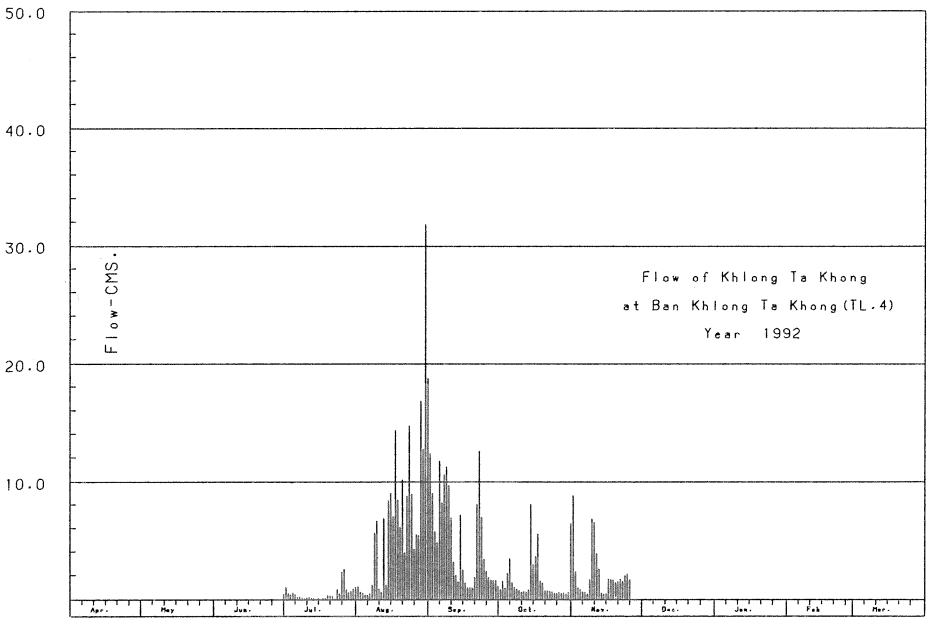
Khlong Ta Khong at Ban Khlong Ta Khong, Chanthaburi (TL.4)

Location	Lat. 12-54-57 N., Long. 102-19-30 E., on left bank downstream from the bridge of Amphoe Pong Nam Ron - Ban Pong Nam Ron Highway, Ban Ta Khong, Amphoe Pong Nam Ron, Chanthaburi.
Drainage Area	96 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+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. Stage-discharge relation defined by 21 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.12	176.82	176.81	177.92	177.94	179.10	177.85	178.83	178.60	178.64	178.27	177.69	
2	177.10	176.82	176.81	177.68	177.74	178.84	178.04	178.19	178.22	178.48	178.29	177.67	
3	177.05	176.82	176.81	177.60	177.67	178.58	177.88	177.91	177.80	177.58	178.29	177.65	
4	176.99	176.82	176.81	177.70	177.63	178.50	178.18	177.82	177.80	178.00	178.29	177.63	
5	176.98	176.82	176.81	177.61	177.61	179.06	178.39	177.75	178.26	178.17	178.27	177.62	
6	176.97	176.82	176.81	177.53	177.65	178.78	178.02	177.71	178.63	178.17	178.25	177.60	
7	176.96	176.82	176.81	177.52	177.97	178.97	177.91	177.66	177.95	178.12	178.20	177.52	
8	176.96	176.82	176.81	177.49	178.57	179.02	177.87	178.07	178.18	178.11	178.17	177.50	
9	176.96	176.82	176.81	177.48	178.65	178.90	177.77	178.67	178.61	178.07	178.13	177.50	
10	176.96	176.82	176.81	177.51	177.84	178.67	177.74	178.64	178.63	177.99	178.09	177.50	
11	176.93	176.82	176.82	177.49	177.71	178.34	177.74	178.43	178.64	178.04	178.02	177.48	
12	176.90	176.81	176.82	177.49	178.67	178.14	177.74	178.24	178.64	178.14	177.97	177.50	
13	176.89	176.81	176.82	177.45	177.97	178.04	177.81	177.70	178.61	178.23	177.92	177.50	
14	176.89	176.81	176.82	177.46	178.79	178.69	178.77	177.62	178.68	178.30	177.87	177.51	
15	176.89	176.81	176.83	177.46	178.84	178.23	178.29	177.67	178.64	178.33	177.82	177.50	
16	176.89	176.81	176.83	177.46	178.68	178.00	178.41	178.08	178.47	178.35	177.80	177.50	
17	176.90	176.81	176.83	177.45	179.24	177.91	178.56	178.09	178.65	178.37	177.79	177.50	
18	176.96	176.81	176.83	177.49	178.80	177.90	178.06	178.06	178.65	178.39	177.79	177.50	
19	176.89	176.81	176.83	177.57	178.61	177.91	178.00	178.02	178.65	178.38	177.77	177.50	
20	176.88	176.81	176.83	177.59	178.94	178.11	177.80	178.03	178.65	178.39	177.76	177.50	
21	176.87	176.81	176.84	177.55	178.43	178.76	177.77	178.08	178.66	178.37	177.75	177.50	
22	176.83	176.81	176.84	177.45	178.82	179.12	177.77	178.05	178.67	178.31	177.73	177.45	
23	176.82	176.81	176.84	177.83	179.26	178.68	177.73	178.15	178.68	178.25	177.71	177.44	
24	176.82	176.81	176.84	177.67	178.84	178.38	177.70	178.16	178.53	178.21	177.71	177.44	
25	176.82	176.81	176.84	178.19	178.46	178.21	177.69	178.09	177.53	178.17	177.71	177.44	
26	176.82	176.81	176.84	178.23	178.56	178.11	177.70	178.41	177.98	178.15	177.72	177.43	
27	176.82	176.81	176.84	177.85	178.55	178.08	177.69	178.60	178.53	178.15	177.70	177.40	
28	176.82	176.81	176.88	177.70	179.38	178.05	177.67	178.61	178.63	178.13	177.70	177.40	
29	176.82	176.81	177.11	177.77	179.13	178.07	177.66	178.61	178.63	178.19		177.40	
30	176.82	176.81	177.62	177.85	180.10	177.93	177.70	178.61	178.63	178.24		177.40	
31		176.81		177.91	179.49		178.63		178.63	178.26		177.40	
Mean	176.91	176.81	176.86	177.64	178.53	178.44	177.95	178.15	178.45	178.22	177.95	177.50	
Max	177.12	176.82	177.62	178.23	180.10	179.12	178.77	178.83	178.68	178.64	178.29	177.69	180.10
Min	176.82	176.81	176.81	177.45	177.61	177.90	177.66	177.62	177.53	177.58	177.70	177.40	176.81

Annual Max Momentary Gage Height 180.90 M (MSL), at 18.00 Hours, on Aug 30, 1992
Zero Gage at Bottom Elevation 176.80 M (MSL), River Bed 175.82 M (MSL)
Left Bank Elevation 184.88 M (MSL)
Right Bank Elevation 183.93 M (MSL), Drainage Area 96 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	1.08	1.16	12.40	0.90	8.90	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.56	0.68	9.03	1.56	2.34	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.40	0.54	5.82	0.96	1.04	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.60	0.46	4.83	2.28	0.84	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.42	0.42	11.84	3.54	0.70	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.26	0.50	8.29	1.48	0.62	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.24	1.28	10.63	1.04	0.52	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.18	5.70	11.28	0.94	1.68	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.16	6.68	9.77	0.74	6.93	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.22	0.88	6.93	0.68	6.56	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.18	0.62	3.24	0.68	3.97	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.18	6.93	2.04	0.68	2.64	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.10	1.28	1.56	0.82	0.60	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.12	8.41	7.18	8.16	0.44	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.12	9.03	2.58	2.94	0.54	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.12	7.05	1.40	3.72	1.72	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.10	14.44	1.04	5.57	1.76	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.18	8.53	1.00	1.64	1.64	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.34	6.19	1.04	1.40	1.48	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.38	10.26	1.86	0.80	1.52	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.30	3.97	8.04	0.74	1.72	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.10	8.78	12.68	0.74	1.60	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.86	14.76	7.05	0.66	2.10	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.54	9.03	3.48	0.60	2.16	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	2.34	4.34	2.46	0.58	1.76	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	2.58	5.57	1.86	0.60	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.90	5.45	1.72	0.58	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.60	16.84	1.60	0.54	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.74	12.82	1.68	0.52	0.00	0.00	0.00		0.00	
30	0.00	0.00	0.44	0.90	31.80	1.12	0.60	0.00	0.00	0.00		0.00	
31		0.00		1.04	18.82		6.44		0.00	0.00		0.00	
Total	0.00	0.00	0.44	16.84	223.22	155.45	53.13	55.78	0.00	0.00	0.00	0.00	504.86 CMSDAY
Mean	0.00	0.00	0.01	0.54	7.20	5.18	1.71	1.86	0.00	0.00	0.00	0.00	1.38 CMS
Max	0.00	0.00	0.44	2.58	31.80	12.68	8.16	8.90	0.00	0.00	0.00	0.00	31.80 CMS
Min	0.00	0.00	0.00	0.10	0.42	1.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.038	1.455	19.286	13.431	4.590	4.819	0.000	0.000	0.000	0.000	43.620 MCM

Momentary Peak 55.40 CMS, at 180.90 M (MSL), at 18.00 Hours, on Aug 30, 1992
Runoff Yield 14.41 Liters/Second/Square KM, Momentary Peak Yield 577.08 Liters/Second/Square KM

WATER YEAR 1992

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, Tambon Thap Sai, Amphoe Pong Nam Ron, Chanthaburi.

Drainage Area — 42 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +183.10 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On right bank about 20 meters from the top staff gage.

Elevation — +187.655 m.(M.S.L.)

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

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

Period of Available Gage Records — 1987 to date.

Rating Operation

Period of Rating — 1987 to date.

Rated by Float — -

Rated by Current Meter — 1987 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 35 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

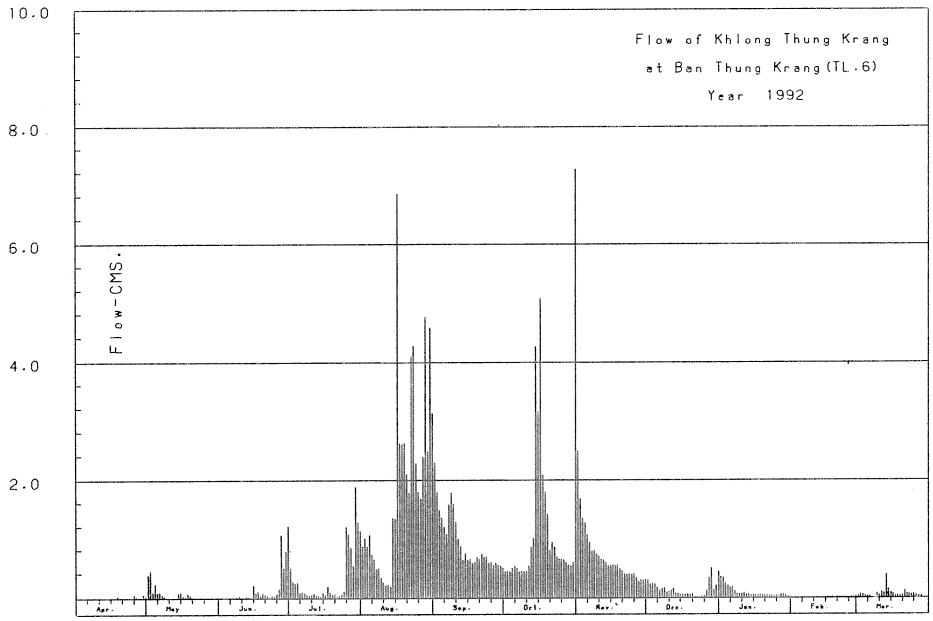
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.58	183.92	183.55	183.94	184.01	184.18	183.93	184.20	183.90	183.91	183.63	183.69	
2	183.58	183.93	183.53	183.89	184.03	184.13	183.93	184.12	183.87	183.91	183.61	183.71	
3	183.57	183.80	183.55	183.87	184.01	184.10	183.93	184.08	183.87	183.87	183.60	183.71	
4	183.55	183.87	183.62	183.88	184.04	184.08	183.94	184.07	183.87	183.86	183.59	183.69	
5	183.54	183.78	183.58	183.80	183.99	184.06	183.95	184.04	183.84	183.84	183.59	183.67	
6	183.55	183.78	183.62	183.78	183.97	184.04	183.94	184.02	183.81	183.84	183.59	183.65	
7	183.54	183.72	183.57	183.77	183.94	184.11	183.93	184.00	183.83	183.81	183.58	183.63	
8	183.56	183.64	183.64	183.70	183.94	184.13	183.93	184.00	183.83	183.72	183.58	183.61	
9	183.56	183.59	183.66	183.70	183.91	184.11	183.93	183.99	183.80	183.75	183.61	183.76	
10	183.55	183.57	183.59	183.70	183.88	184.07	183.93	183.98	183.80	183.73	183.59	183.68	
11	183.56	183.63	183.58	183.75	183.86	184.03	183.95	183.97	183.81	183.76	183.59	183.77	
12	183.55	183.61	183.67	183.70	183.86	184.01	184.01	183.97	183.83	183.73	183.60	183.77	
13	183.56	183.62	183.59	183.67	183.85	183.97	184.03	183.96	183.76	183.72	183.61	183.92	
14	183.55	183.77	183.59	183.67	184.08	183.99	184.33	183.95	183.73	183.70	183.62	183.82	
15	183.56	183.78	183.86	183.78	184.08	183.97	184.25	183.95	183.73	183.70	183.63	183.79	
16	183.61	183.69	183.79	183.69	184.47	183.97	184.38	183.95	183.73	183.69	183.63	183.73	
17	183.65	183.65	183.80	183.85	184.21	183.96	184.16	183.95	183.72	183.70	183.65	183.69	
18	183.71	183.76	183.68	183.79	184.21	183.96	184.13	183.95	183.71	183.70	183.65	183.68	
19	183.62	183.68	183.74	183.73	184.21	183.98	184.09	183.94	183.72	183.70	183.65	183.69	
20	183.59	183.60	183.73	183.71	184.16	183.97	184.00	183.93	183.71	183.68	183.64	183.68	
21	183.55	183.55	183.66	183.66	184.13	183.99	184.02	183.92	183.67	183.68	183.64	183.81	
22	183.53	183.58	183.63	183.68	184.32	183.98	184.01	183.92	183.65	183.68	183.65	183.76	
23	183.50	183.62	183.69	183.73	184.33	183.98	183.98	183.92	183.65	183.67	183.65	183.72	
24	183.53	183.62	183.68	183.81	184.18	183.96	183.97	183.92	183.65	183.66	183.63	183.71	
25	183.72	183.62	183.71	184.06	184.13	183.96	183.97	183.92	183.68	183.67	183.65	183.71	
26	183.63	183.60	183.83	184.04	184.12	183.95	183.97	183.91	183.81	183.69	183.65	183.69	
27	183.60	183.60	184.04	184.01	184.19	183.96	183.96	183.89	183.91	183.73	183.64	183.69	
28	183.62	183.65	183.94	183.95	184.36	183.95	183.95	183.90	183.94	183.71	183.64	183.66	
29	183.73	183.60	184.00	184.14	184.20	183.95	183.95	183.90	183.82	183.68		183.63	
30	183.65	183.58	184.06	184.07	184.35	183.94	183.96	183.90	183.85	183.66		183.62	
31		183.56		184.05	184.25		184.49		183.93	183.65		183.58	
Mean	183.59	183.68	183.71	183.82	184.11	184.01	184.03	183.97	183.79	183.74	183.62	183.71	
Max	183.73	183.93	184.06	184.14	184.47	184.18	184.49	184.20	183.94	183.91	183.65	183.92	184.49
Min	183.50	183.55	183.53	183.66	183.85	183.94	183.93	183.89	183.65	183.65	183.58	183.58	183.50

Annual Max Momentary Gage Height — 184.80 M (MSL), at 18.00 Hours, on Aug 16, 1992

Zero Gage at Bottom Elevation — 183.10 M (MSL), River Bed — 182.94 M (MSL)

Left Bank Elevation — 186.45 M (MSL)

Right Bank Elevation — 186.43 M (MSL), Drainage Area — 42 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.40	0.00	0.50	0.87	2.30	0.45	2.50	0.30	0.35	0.01	0.04	
2	0.00	0.45	0.00	0.28	1.01	1.80	0.45	1.70	0.24	0.35	0.00	0.06	
3	0.00	0.10	0.00	0.24	0.87	1.50	0.45	1.36	0.24	0.24	0.00	0.06	
4	0.00	0.24	0.01	0.26	1.08	1.36	0.50	1.29	0.24	0.22	0.00	0.04	
5	0.00	0.09	0.00	0.10	0.75	1.22	0.55	1.08	0.18	0.18	0.00	0.03	
6	0.00	0.09	0.01	0.09	0.65	1.08	0.50	0.94	0.12	0.18	0.00	0.02	
7	0.00	0.06	0.00	0.09	0.50	1.60	0.45	0.80	0.16	0.12	0.00	0.01	
8	0.00	0.02	0.02	0.05	0.50	1.80	0.45	0.80	0.16	0.06	0.00	0.00	
9	0.00	0.00	0.03	0.05	0.35	1.60	0.45	0.75	0.10	0.07	0.00	0.08	
10	0.00	0.00	0.00	0.05	0.26	1.29	0.45	0.70	0.10	0.06	0.00	0.04	
11	0.00	0.01	0.00	0.07	0.22	1.01	0.55	0.65	0.12	0.08	0.00	0.09	
12	0.00	0.00	0.03	0.05	0.22	0.87	0.87	0.65	0.16	0.06	0.00	0.09	
13	0.00	0.01	0.00	0.03	0.20	0.65	1.01	0.60	0.08	0.06	0.00	0.40	
14	0.00	0.09	0.00	0.03	1.36	0.75	4.28	0.55	0.06	0.05	0.01	0.14	
15	0.00	0.09	0.22	0.09	1.36	0.65	3.15	0.55	0.06	0.05	0.01	0.09	
16	0.00	0.04	0.09	0.04	6.87	0.65	5.08	0.55	0.06	0.04	0.01	0.06	
17	0.02	0.02	0.10	0.20	2.63	0.60	2.10	0.55	0.06	0.05	0.02	0.04	
18	0.06	0.08	0.04	0.09	2.63	0.60	1.80	0.55	0.06	0.05	0.02	0.04	
19	0.01	0.04	0.07	0.06	2.63	0.70	1.43	0.50	0.06	0.05	0.02	0.04	
20	0.00	0.00	0.06	0.06	2.10	0.65	0.80	0.45	0.06	0.04	0.02	0.04	
21	0.00	0.00	0.03	0.03	1.80	0.75	0.94	0.40	0.03	0.04	0.02	0.12	
22	0.00	0.00	0.01	0.04	4.12	0.70	0.87	0.40	0.02	0.04	0.02	0.08	
23	0.00	0.01	0.04	0.06	4.28	0.70	0.70	0.40	0.02	0.03	0.02	0.06	
24	0.00	0.01	0.04	0.12	2.30	0.60	0.65	0.40	0.02	0.03	0.01	0.06	
25	0.06	0.01	0.06	1.22	1.80	0.60	0.65	0.40	0.04	0.03	0.02	0.06	
26	0.01	0.00	0.16	1.08	1.70	0.55	0.65	0.35	0.12	0.04	0.02	0.04	
27	0.00	0.00	1.08	0.87	2.40	0.60	0.60	0.28	0.35	0.06	0.02	0.04	
28	0.01	0.02	0.50	0.55	4.76	0.55	0.55	0.30	0.50	0.06	0.02	0.03	
29	0.06	0.00	0.80	1.90	2.50	0.55	0.55	0.30	0.14	0.04		0.01	
30	0.02	0.00	1.22	1.29	4.60	0.50	0.60	0.30	0.20	0.03		0.01	
31		0.00		1.15	3.15		7.29		0.45	0.02		0.00	
Total	0.25	1.88	4.62	10.74	60.47	28.78	39.82	21.05	4.51	2.78	0.27	1.92	177.09 CMSDAY
Mean	0.01	0.06	0.15	0.35	1.95	0.96	1.28	0.70	0.15	0.09	0.01	0.06	0.49 CMS
Max	0.06	0.45	1.22	1.90	6.87	2.30	7.29	2.50	0.50	0.35	0.02	0.40	7.29 CMS
Min	0.00	0.00	0.00	0.03	0.20	0.50	0.45	0.28	0.02	0.02	0.00	0.00	0.00 CMS
Runoff	0.022	0.162	0.399	0.928	5.225	2.487	3.440	1.819	0.390	0.240	0.023	0.166	15.301 MCM

Momentary Peak 16.70 CMS, at 184.80 M (MSL), at 18.00 Hours, on Aug 16, 1992
Runoff Yield 11.55 Liters/Second/Square KM, Momentary Peak Yield 397.62 Liters/Second/Square KM

WATER YEAR 1992

THA CHIN RIVER BASIN

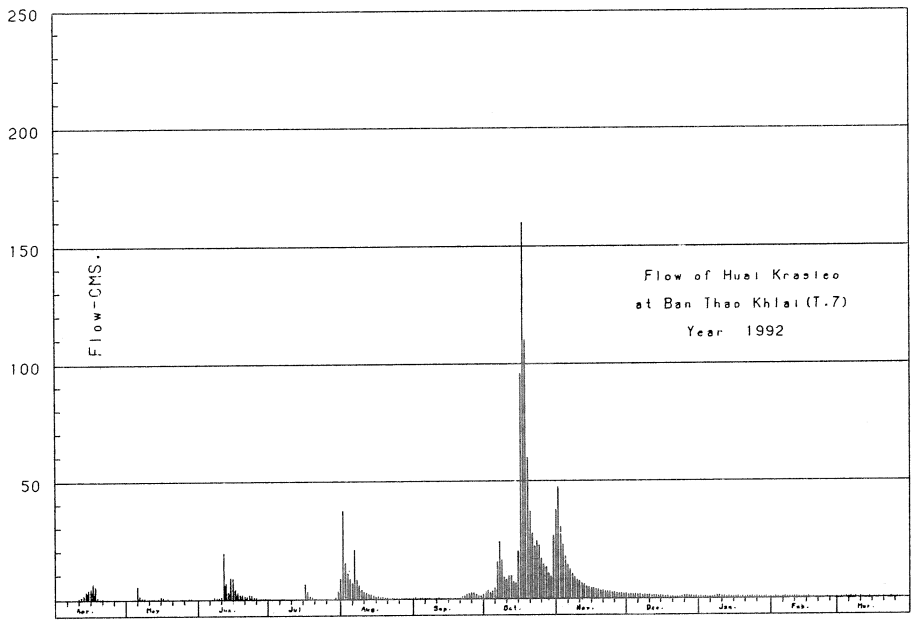
Huai Krasieo at Ban Thap Khlai, Uthai Thani (T.7)

Location	Lat. 15°03'06" N., Long. 99°35'18" E., on right bank in the vicinity of Wat Thap Khlai at Ban Thap Khlai, Amphoe Ban Rai, Uthai Thani.
Drainage Area	607 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank under the coconut tree and about 50 meters from the top staff gage.
Elevation	+3.689 m.(A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1982 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 3.96 m.(A.D.) and is included.
General Description	Records good. Stage-discharge relation defined by 123 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.05	0.03	0.04	0.08	2.33	0.20	0.60	2.65	0.40	0.25	0.16	0.13	
2	-0.06	0.03	0.01	0.10	1.39	0.13	0.58	2.07	0.40	0.25	0.23	0.13	
3	-0.06	0.02	0.01	0.10	1.15	0.13	0.50	1.73	0.40	0.24	0.24	0.19	
4	-0.07	0.01	0.03	0.09	0.98	0.21	0.54	1.52	0.40	0.24	0.15	0.21	
5	-0.07	0.77	0.10	0.08	0.86	0.19	0.69	1.34	0.39	0.23	0.21	0.21	
6	-0.09	0.33	0.11	0.07	1.64	0.15	1.40	1.22	0.38	0.22	0.23	0.20	
7	-0.10	0.23	0.25	0.05	0.97	0.11	1.80	1.12	0.37	0.24	0.21	0.19	
8	0.00	0.17	0.23	0.05	0.77	0.09	1.43	1.02	0.36	0.32	0.20	0.18	
9	0.07	0.13	0.18	0.04	0.62	0.06	1.04	0.95	0.35	0.31	0.22	0.14	
10	0.18	0.10	0.27	0.04	0.52	0.11	0.95	0.90	0.35	0.30	0.23	0.19	
11	0.27	0.09	1.59	0.08	0.48	0.14	1.05	0.85	0.33	0.27	0.23	0.16	
12	0.40	0.07	0.85	0.08	0.44	0.10	1.07	0.80	0.33	0.26	0.21	0.17	
13	0.57	0.07	0.55	0.08	0.39	0.04	0.89	0.74	0.32	0.24	0.20	0.17	
14	0.62	0.18	1.02	0.07	0.36	0.11	0.83	0.70	0.32	0.26	0.21	0.20	
15	0.74	0.33	1.03	0.10	0.30	0.10	1.60	0.67	0.31	0.26	0.20	0.19	
16	0.86	0.22	0.69	0.84	0.28	0.12	3.48	0.65	0.30	0.25	0.21	0.20	
17	0.76	0.16	0.52	0.54	0.26	0.06	4.07	0.63	0.29	0.24	0.18	0.18	
18	0.24	0.13	0.41	0.34	0.25	0.08	3.60	0.60	0.28	0.22	0.15	0.17	
19	0.16	0.11	0.39	0.21	0.21	0.10	2.98	0.58	0.26	0.21	0.15	0.16	
20	0.11	0.10	0.34	0.22	0.18	0.15	2.32	0.56	0.25	0.24	0.16	0.15	
21	0.07	0.10	0.30	0.16	0.16	0.23	1.94	0.54	0.24	0.25	0.15	0.15	
22	0.06	0.08	0.42	0.04	0.14	0.34	1.71	0.53	0.24	0.25	0.15	0.16	
23	0.05	0.08	0.37	0.03	0.12	0.40	1.80	0.51	0.24	0.23	0.15	0.16	
24	0.04	0.16	0.28	0.03	0.10	0.46	1.73	0.49	0.24	0.23	0.14	0.14	
25	0.03	0.11	0.22	0.02	0.08	0.47	1.46	0.47	0.34	0.23	0.13	0.10	
26	0.02	0.17	0.18	0.02	0.06	0.48	1.34	0.45	0.33	0.23	0.13	0.15	
27	0.01	0.13	0.16	0.02	0.05	0.42	1.29	0.44	0.32	0.22	0.13	0.15	
28	0.01	0.10	0.15	0.02	0.03	0.31	1.14	0.43	0.29	0.22	0.13	0.11	
29	0.01	0.02	0.14	0.30	0.04	0.33	1.05	0.43	0.28	0.21		0.11	
30	-0.03	0.02	0.13	0.56	0.14	0.39	1.90	0.42	0.27	0.18		0.10	
31		0.05		0.99	0.19		2.34		0.25	0.17		0.10	
Mean	0.16	0.14	0.37	0.18	0.50	0.21	1.58	0.87	0.32	0.24	0.18	0.16	
Max	0.86	0.77	1.59	0.99	2.33	0.48	4.07	2.65	0.40	0.32	0.24	0.21	4.07
Min	-0.10	0.01	0.01	0.02	0.03	0.04	0.50	0.42	0.24	0.17	0.13	0.10	-0.10

Annual Max Momentary Gage Height 4.13 M (A.D), at 6.00 Hours, on Oct 17, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.12 M (A.D)
Left Bank Elevation 4.16 M (A.D)
Right Bank Elevation 3.95 M (A.D), Drainage Area 607 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.16	0.18	0.26	37.70	0.60	3.70	47.38	1.80	0.80	0.48	0.39	
2	0.04	0.16	0.12	0.30	15.50	0.39	3.50	30.81	1.80	0.80	0.72	0.39	
3	0.04	0.14	0.12	0.30	11.07	0.39	2.70	22.86	1.80	0.76	0.76	0.57	
4	0.03	0.12	0.16	0.28	8.35	0.64	3.10	18.24	1.80	0.76	0.45	0.64	
5	0.03	5.69	0.30	0.26	6.83	0.57	4.69	14.50	1.72	0.72	0.64	0.64	
6	0.01	1.24	0.33	0.24	20.88	0.45	15.70	12.26	1.64	0.68	0.72	0.60	
7	0.00	0.72	0.80	0.20	8.22	0.33	24.40	10.58	1.56	0.76	0.64	0.57	
8	0.10	0.51	0.72	0.20	5.69	0.28	16.33	8.93	1.48	1.16	0.60	0.54	
9	0.24	0.39	0.54	0.18	3.92	0.22	9.26	7.97	1.40	1.08	0.68	0.42	
10	0.54	0.30	0.88	0.18	2.90	0.33	7.97	7.33	1.40	1.00	0.72	0.57	
11	0.88	0.28	19.78	0.26	2.52	0.42	9.42	6.70	1.24	0.88	0.72	0.48	
12	1.80	0.24	6.70	0.26	2.16	0.30	9.76	6.07	1.24	0.84	0.64	0.51	
13	3.40	0.24	3.20	0.26	1.72	0.18	7.21	5.31	1.16	0.76	0.60	0.51	
14	3.92	0.54	8.93	0.24	1.48	0.33	6.45	4.80	1.16	0.84	0.64	0.60	
15	5.31	1.24	9.09	0.30	1.00	0.30	20.00	4.47	1.08	0.84	0.60	0.57	
16	6.83	0.68	4.69	6.57	0.92	0.36	96.00	4.25	1.00	0.80	0.64	0.60	
17	5.56	0.48	2.90	3.10	0.84	0.22	~~160.12~~ 21.34	4.03	0.96	0.76	0.54	0.54	
18	0.76	0.39	1.89	1.32	0.80	0.26	110.00	3.70	0.92	0.68	0.45	0.51	
19	0.48	0.33	1.72	0.64	0.64	0.30	60.14	3.50	0.84	0.64	0.45	0.48	
20	0.33	0.30	1.32	0.68	0.54	0.45	37.40	3.30	0.80	0.76	0.48	0.45	
21	0.24	0.30	1.00	0.48	0.48	0.72	27.73	3.10	0.76	0.80	0.45	0.45	
22	0.22	0.26	1.98	0.18	0.42	1.32	22.42	3.00	0.76	0.80	0.45	0.48	
23	0.20	0.26	1.56	0.16	0.36	1.80	24.40	2.80	0.76	0.72	0.45	0.48	
24	0.18	0.48	0.92	0.16	0.30	2.34	22.86	2.61	0.76	0.72	0.42	0.42	
25	0.16	0.33	0.68	0.14	0.26	2.43	16.96	2.43	1.32	0.72	0.39	0.30	
26	0.14	0.51	0.54	0.14	0.22	2.52	14.50	2.25	1.24	0.72	0.39	0.45	
27	0.12	0.39	0.48	0.14	0.20	1.98	13.52	2.16	1.16	0.68	0.39	0.45	
28	0.12	0.30	0.45	0.14	0.16	1.08	10.91	2.07	0.96	0.68	0.39	0.33	
29	0.12	0.14	0.42	1.00	0.18	1.24	9.42	2.07	0.92	0.64		0.33	
30	0.07	0.14	0.39	3.30	0.42	1.72	26.77	1.98	0.88	0.54		0.30	
31		0.20		8.47	0.57		38.00		0.80	0.51		0.30	
Total	31.92	17.46	72.79	30.34	137.25	24.47	~~835.34~~ 533.52	251.46	37.12	23.85	15.50	14.87	1492.37 CMSDAY
Mean	1.06	0.56	2.43	0.98	4.43	0.82	~~27.86~~ 17.84	8.38	1.20	0.77	0.55	0.48	4.09 CMS
Max	6.83	5.69	19.78	8.47	37.70	2.52	~~160.12~~ 213.30	47.38	1.80	1.16	0.76	0.64	160.12 CMS
Min	0.00	0.12	0.12	0.14	0.16	0.18	2.70	1.98	0.76	0.51	0.39	0.30	0.00 CMS
Runoff	2.758	1.509	6.289	2.621	11.858	2.114	~~72.166~~ 46.106	21.726	3.207	2.061	1.339	1.285	128.941 MCM

Momentary Peak 233.5 CMS, at 4.13 M (A.D), at 6.00 Hours, on Oct 17, 1992

Runoff Yield 1.09 Liters/Second/Square KM, Momentary Peak Yield 392.92 Liters/Second/Square KM

WATER YEAR 1992

NAKHON NAYOK RIVER BASIN

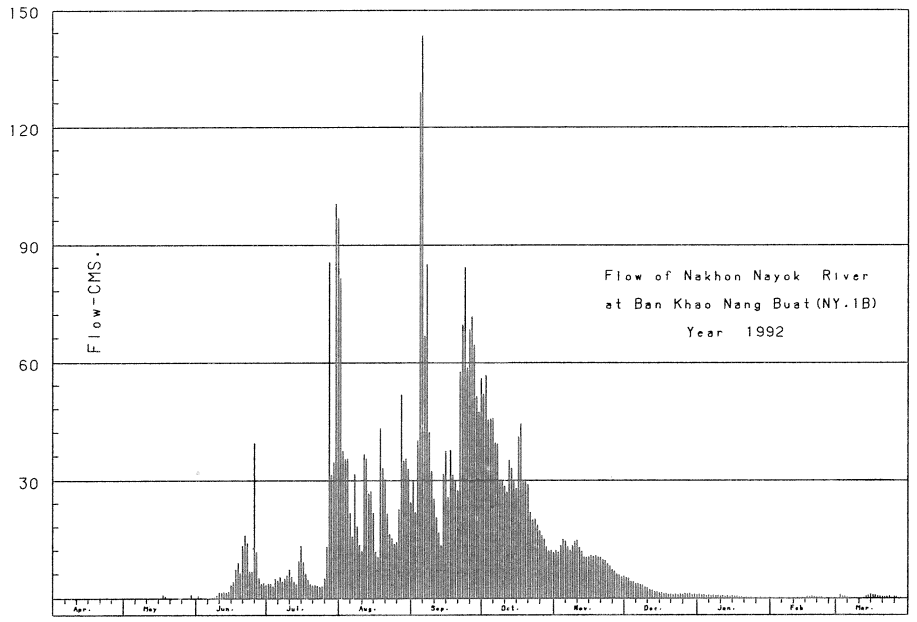
Nakhon Nayok River at Khao Nang Buat, Nakhon Nayok (NY.1B)

Location	Lat. 14°14′45″ N., Long. 101°12′38″ E., on right bank about 700 meters upstream from NY.1, Amphoe Muang, Nakhon Nayok.
Drainage Area	519 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank about 200 meters from the staff gage.
Elevation	+8.758 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1973 to date.
Rating Operation	
Period of Rating	1973 - 1980, 1991 to date.
Rated by Float	-
Rated by Current Meter	1973 - 1980, 1991 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.33	3.10	3.46	3.77	5.94	4.85	5.40	4.30	3.92	3.50	3.42	3.39	
2	3.33	3.08	3.44	3.75	5.04	4.63	5.50	4.28	3.89	3.50	3.42	3.49	
3	3.33	3.06	3.41	3.71	4.99	5.11	5.25	4.36	3.83	3.49	3.42	3.46	
4	3.33	3.04	3.40	3.88	4.99	6.63	5.26	4.42	3.80	3.48	3.42	3.45	
5	3.32	3.02	3.40	3.85	4.63	6.83	5.26	4.41	3.77	3.48	3.42	3.44	
6	3.32	3.00	3.39	3.93	4.45	5.68	5.10	4.34	3.76	3.48	3.42	3.43	
7	3.32	2.99	3.42	3.81	4.89	6.00	5.09	4.31	3.75	3.48	3.42	3.43	
8	3.32	2.98	3.44	3.90	4.54	5.17	4.84	4.36	3.72	3.48	3.42	3.42	
9	3.31	2.97	3.47	3.95	4.36	4.91	4.85	4.40	3.69	3.47	3.42	3.41	
10	3.31	2.95	3.54	4.07	4.30	4.72	4.81	4.41	3.66	3.47	3.42	3.40	
11	3.29	2.93	3.55	3.92	5.02	4.60	4.77	4.34	3.63	3.47	3.42	3.41	
12	3.27	2.90	3.55	3.82	4.99	4.49	4.98	4.29	3.60	3.46	3.42	3.42	
13	3.25	2.90	3.55	3.74	4.76	4.36	4.93	4.23	3.58	3.46	3.42	3.47	
14	3.24	2.98	3.56	4.18	4.77	4.89	4.84	4.22	3.56	3.46	3.42	3.47	
15	3.23	3.03	3.74	4.35	4.63	5.04	4.79	4.23	3.55	3.46	3.42	3.50	
16	3.23	3.06	3.80	4.16	4.28	4.73	5.14	4.24	3.54	3.46	3.44	3.50	
17	3.21	3.50	4.07	4.00	4.23	5.05	5.22	4.24	3.53	3.45	3.45	3.48	
18	3.21	3.45	4.16	3.85	5.19	4.88	4.84	4.24	3.52	3.45	3.45	3.47	
19	3.21	3.40	4.00	3.76	4.93	4.85	4.84	4.23	3.51	3.44	3.45	3.46	
20	3.20	3.37	4.35	3.71	4.85	4.78	4.82	4.22	3.50	3.44	3.45	3.47	
21	3.20	3.35	4.47	3.74	4.62	5.51	4.63	4.20	3.50	3.44	3.44	3.45	
22	3.19	3.35	4.39	3.71	4.48	5.73	4.58	4.18	3.50	3.44	3.44	3.44	
23	3.18	3.35	4.03	3.69	4.43	5.99	4.59	4.15	3.50	3.44	3.43	3.47	
24	3.17	3.35	4.02	3.69	4.38	5.53	4.55	4.11	3.51	3.43	3.42	3.43	
25	3.16	3.37	5.10	3.90	4.39	5.71	4.51	4.07	3.51	3.43	3.42	3.46	
26	3.15	3.37	4.28	4.34	4.65	5.77	4.46	4.03	3.52	3.43	3.41	3.44	
27	3.14	3.37	3.91	6.01	5.40	5.64	4.43	3.99	3.52	3.43	3.39	3.43	
28	3.13	3.37	3.77	4.88	4.98	5.39	4.34	3.96	3.52	3.43	3.38	3.42	
29	3.12	3.49	3.77	4.97	4.99	5.30	4.30	3.93	3.50	3.43		3.41	
30	3.11	3.40	3.72	6.22	4.92	5.48	4.30	3.94	3.50	3.43		3.41	
31		3.40		6.17	4.70		4.28		3.50	3.43		3.41	
Mean	3.24	3.19	3.81	4.18	4.77	5.28	4.82	4.22	3.61	3.46	3.42	3.44	
Max	3.33	3.50	5.10	6.22	5.94	6.83	5.50	4.42	3.92	3.50	3.45	3.50	6.83
Min	3.11	2.90	3.39	3.69	4.23	4.36	4.28	3.93	3.50	3.43	3.38	3.39	2.90

Annual Max Momentary Gage Height 7.40 M (MSL), at 4.00 Hours, on Sep 4, 1992
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed 2.73 M (MSL)
Left Bank Elevation 9.76 M (MSL)
Right Bank Elevation 8.84 M (MSL), Drainage Area 519 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.62	3.85	81.40	30.30	52.00	12.20	5.44	1.04	0.21	0.00	
2	0.00	0.00	0.42	3.64	37.52	21.94	57.00	11.76	5.10	1.04	0.21	0.94	
3	0.00	0.00	0.10	3.22	35.62	40.18	45.50	13.58	4.47	0.94	0.21	0.62	
4	0.00	0.00	0.00	4.99	35.62	129.10	45.88	15.00	4.16	0.83	0.21	0.52	
5	0.00	0.00	0.00	4.68	21.94	143.40	45.88	14.75	3.85	0.83	0.21	0.42	
6	0.00	0.00	0.00	5.56	15.75	66.90	39.80	13.12	3.74	0.83	0.21	0.31	
7	0.00	0.00	0.21	4.26	31.82	85.00	39.42	12.43	3.64	0.83	0.21	0.31	
8	0.00	0.00	0.42	5.20	18.52	42.46	29.92	13.58	3.33	0.83	0.21	0.21	
9	0.00	0.00	0.73	5.80	13.58	32.58	30.30	14.50	3.02	0.73	0.21	0.10	
10	0.00	0.00	1.46	7.52	12.20	25.36	28.78	14.75	2.70	0.73	0.21	0.00	
11	0.00	0.00	1.56	5.44	36.76	20.80	27.26	13.12	2.39	0.73	0.21	0.10	
12	0.00	0.00	1.56	4.37	35.62	16.75	35.24	11.98	2.08	0.62	0.21	0.21	
13	0.00	0.00	1.56	3.54	26.88	13.58	33.34	10.66	1.87	0.62	0.21	0.73	
14	0.00	0.00	1.66	9.60	27.26	31.82	29.92	10.44	1.66	0.62	0.21	0.73	
15	0.00	0.00	3.54	13.35	21.94	37.52	28.02	10.66	1.56	0.62	0.21	1.04	
16	0.00	0.00	4.16	9.20	11.76	25.74	41.32	10.88	1.46	0.62	0.42	1.04	
17	0.00	1.04	7.52	6.40	10.66	37.90	44.36	10.88	1.35	0.52	0.52	0.83	
18	0.00	0.52	9.20	4.68	43.22	31.44	29.92	10.88	1.25	0.52	0.52	0.73	
19	0.00	0.00	6.40	3.74	33.34	30.30	29.92	10.66	1.14	0.42	0.52	0.62	
20	0.00	0.00	13.35	3.22	30.30	27.64	29.16	10.44	1.04	0.42	0.52	0.73	
21	0.00	0.00	16.25	3.54	21.56	57.55	21.94	10.00	1.04	0.42	0.42	0.52	
22	0.00	0.00	14.27	3.22	16.50	69.65	20.04	9.60	1.04	0.42	0.42	0.42	
23	0.00	0.00	6.88	3.02	15.25	84.40	20.42	9.00	1.04	0.42	0.31	0.73	
24	0.00	0.00	6.72	3.02	14.04	58.65	18.90	8.20	1.14	0.31	0.21	0.31	
25	0.00	0.00	39.80	5.20	14.27	68.55	17.38	7.52	1.14	0.31	0.21	0.62	
26	0.00	0.00	11.76	13.12	22.70	71.85	16.00	6.88	1.25	0.31	0.10	0.42	
27	0.00	0.00	5.32	85.70	52.00	64.70	15.25	6.28	1.25	0.31	0.00	0.31	
28	0.00	0.00	3.85	31.44	35.24	51.54	13.12	5.92	1.25	0.31	0.00	0.21	
29	0.00	0.94	3.85	34.86	35.62	47.40	12.20	5.56	1.04	0.31		0.10	
30	0.00	0.00	3.33	100.40	32.96	56.00	12.20	5.68	1.04	0.31		0.10	
31		0.00		96.90	24.60		11.76		1.04	0.31		0.10	
Total	0.00	2.50	166.50	492.68	866.45	1521.00	922.15	320.91	67.52	18.08	7.32	14.03	4399.14 CMSDAY
Mean	0.00	0.08	5.55	15.89	27.95	50.70	29.75	10.70	2.18	0.58	0.26	0.45	12.05 CMS
Max	0.00	1.04	39.80	100.40	81.40	143.40	57.00	15.00	5.44	1.04	0.52	1.04	143.40 CMS
Min	0.00	0.00	0.00	3.02	10.66	13.58	11.76	5.56	1.04	0.31	0.00	0.00	0.00 CMS
Runoff	0.000	0.216	14.386	42.568	74.861	131.414	79.674	27.727	5.834	1.562	0.632	1.212	380.086 MCM

Momentary Peak 194.00 CMS, at 7.40 M (MSL), at 4.00 Hours, on Sep 4, 1992
Runoff Yield 23.22 Liters/Second/Square KM, Momentary Peak Yield 373.80 Liters/Second/Square KM

WATER YEAR 1992

NAKHON NAYOK RIVER BASIN

Khlong Ban Na at Ban Pa Kha, Nakhon Nayok (Ny.3)

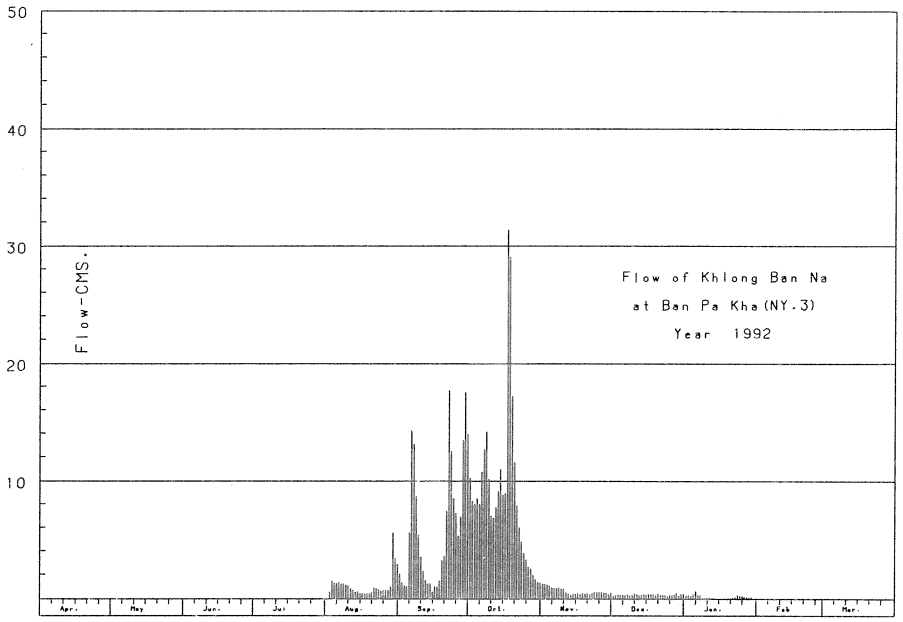
Location	Lat. 14-17-07 N., Long. 101-04-26 E., on left bank near Wat Ban Pa Kha, Tambon Pa Kha, Amphoe Ban Na, Nakhon Nayok.
Drainage Area	203 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	About 10 meters from the top staff gage.
Elevation	+5.168 m. (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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 1992.

Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	2.10	10.33	1.31	0.28	0.30	0.02	0.00	
2	0.00	0.00	0.00	0.00	0.56	1.34	8.30	1.25	0.28	0.30	0.00	0.00	
3	0.00	0.00	0.00	0.00	1.56	1.16	8.10	1.22	0.40	0.30	0.00	0.00	
4	0.00	0.00	0.00	0.00	1.31	1.01	8.50	1.10	0.32	0.38	0.00	0.00	
5	0.00	0.00	0.00	0.00	1.34	5.67	8.10	0.98	0.36	0.68	0.00	0.00	
6	0.00	0.00	0.00	0.00	1.37	14.29	10.77	0.86	0.28	0.36	0.00	0.00	
7	0.00	0.00	0.00	0.00	1.31	13.19	12.75	0.95	0.42	0.34	0.10	0.00	
8	0.00	0.00	0.00	0.00	1.25	8.70	14.18	0.92	0.24	0.15	0.00	0.00	
9	0.00	0.00	0.00	0.00	1.22	5.39	10.22	0.89	0.34	0.15	0.00	0.00	
10	0.00	0.00	0.03	0.00	1.07	3.60	7.02	0.83	0.44	0.12	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.92	2.34	6.86	0.58	0.42	0.09	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.72	1.60	7.82	0.40	0.32	0.10	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.62	1.25	9.20	0.36	0.32	0.10	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.60	1.34	10.99	0.42	0.42	0.08	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.50	0.62	8.80	0.46	0.34	0.06	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.44	1.01	9.00	0.46	0.38	0.03	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.46	1.07	31.46	0.42	0.44	0.04	0.00	0.00	
18	0.00	0.00	0.00	0.07	0.44	1.52	29.06	0.46	0.38	0.03	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.48	3.30	17.28	0.46	0.34	0.04	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.54	3.60	11.65	0.44	0.42	0.07	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.92	7.46	7.91	0.42	0.36	0.10	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.92	17.76	6.09	0.52	0.38	0.20	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.78	12.53	4.83	0.56	0.28	0.30	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.70	8.60	3.90	0.58	0.24	0.30	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.70	7.28	3.30	0.54	0.30	0.28	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.70	5.39	2.70	0.56	0.30	0.18	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.76	7.02	2.58	0.54	0.40	0.15	0.00	0.00	
28	0.00	0.00	0.00	0.00	1.07	13.52	2.04	0.46	0.50	0.16	0.00	0.00	
29	0.00	0.00	0.00	0.10	5.67	17.52	1.64	0.42	0.30	0.13		0.00	
30	0.00	0.00	0.00	0.05	3.42	13.96	1.44	0.50	0.40	0.10		0.00	
31		0.00		0.00	3.00		1.34		0.38	0.09		0.00	
Total	0.00	0.00	0.03	0.22	35.35	185.14	278.16	19.87	10.98	5.71	0.12	0.00	535.58 CMSDAY
Mean	0.00	0.00	0.00	0.01	1.14	6.17	8.97	0.66	0.35	0.18	0.00	0.00	1.47 CMS
Max	0.00	0.00	0.03	0.10	5.67	17.76	31.46	1.31	0.50	0.68	0.10	0.00	31.46 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.62	1.34	0.36	0.24	0.03	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.003	0.019	3.054	15.996	24.033	1.717	0.949	0.493	0.010	0.000	46.274 MCM

Momentary Peak 44.23 CMS, at 4.93 M (A.D), at 9.00 Hours, on Oct 18, 1992

Runoff Yield 7.23 Liters/Second/Square KM, Momentary Peak Yield 217.88 Liters/Second/Square KM



Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.07	0.14	0.47	0.62	1.55	2.63	1.37	0.94	0.95	0.72	0.65	
2	0.44	0.06	0.13	0.49	1.08	1.38	2.43	1.35	0.94	0.95	0.68	0.63	
3	0.48	0.03	0.13	0.49	1.44	1.32	2.41	1.34	1.00	0.95	0.65	0.62	
4	0.52	0.03	0.13	0.50	1.37	1.27	2.45	1.30	0.96	0.99	0.65	0.62	
5	0.50	0.04	0.12	0.50	1.38	2.11	2.41	1.26	0.98	1.14	0.65	0.61	
6	0.45	0.04	0.19	0.50	1.39	2.99	2.67	1.22	0.94	0.98	0.66	0.53	
7	0.44	0.03	0.42	0.50	1.37	2.89	2.85	1.25	1.01	0.97	0.80	0.50	
8	0.43	0.05	0.41	0.51	1.35	2.47	2.98	1.24	0.92	0.85	0.67	0.51	
9	0.46	0.03	0.69	0.53	1.34	2.07	2.62	1.23	0.97	0.85	0.67	0.51	
10	0.44	0.03	0.73	0.54	1.29	1.80	2.29	1.21	1.02	0.82	0.70	0.50	
11	0.43	0.02	0.67	0.54	1.24	1.59	2.27	1.09	1.01	0.79	0.68	0.50	
12	0.40	0.00	0.58	0.54	1.16	1.45	2.38	1.00	0.96	0.80	0.65	0.50	
13	0.44	0.00	0.57	0.54	1.11	1.35	2.52	0.98	0.96	0.80	0.70	0.52	
14	0.39	0.01	0.68	0.59	1.10	1.38	2.69	1.01	1.01	0.78	0.65	0.52	
15	0.31	0.02	0.66	0.57	1.05	1.11	2.48	1.03	0.97	0.76	0.65	0.57	
16	0.40	0.04	0.62	0.54	1.02	1.27	2.50	1.03	0.99	0.73	0.63	0.61	
17	0.38	0.03	0.59	0.60	1.03	1.29	4.21	1.01	1.02	0.74	0.57	0.61	
18	0.38	0.03	0.61	0.77	1.02	1.43	4.06	1.03	0.99	0.73	0.58	0.63	
19	0.38	0.03	0.63	0.70	1.04	1.75	3.24	1.03	0.97	0.74	0.57	0.62	
20	0.39	0.02	0.60	0.61	1.07	1.80	2.75	1.02	1.01	0.77	0.66	0.62	
21	0.38	0.01	0.55	0.57	1.24	2.34	2.39	1.01	0.98	0.80	0.61	0.60	
22	0.34	0.02	0.58	0.55	1.24	3.28	2.17	1.06	0.99	0.90	0.60	0.61	
23	0.30	0.02	0.55	0.54	1.19	2.83	1.99	1.08	0.94	0.95	0.58	0.59	
24	0.26	0.05	0.52	0.53	1.15	2.46	1.85	1.09	0.92	0.95	0.67	0.58	
25	0.25	0.05	0.50	0.52	1.15	2.32	1.75	1.07	0.95	0.94	0.65	0.58	
26	0.24	0.07	0.48	0.53	1.15	2.07	1.65	1.08	0.95	0.88	0.65	0.54	
27	0.13	0.12	0.47	0.62	1.18	2.29	1.63	1.07	1.00	0.85	0.64	0.53	
28	0.12	0.14	0.47	0.60	1.29	2.92	1.54	1.03	1.05	0.86	0.65	0.54	
29	0.09	0.14	0.47	0.80	2.11	3.26	1.46	1.01	0.95	0.83		0.54	
30	0.09	0.15	0.47	0.75	1.77	2.96	1.41	1.05	1.00	0.80		0.53	
31		0.14		0.66	1.70		1.38		0.99	0.79		0.52	
Mean	0.36	0.05	0.48	0.57	1.25	2.03	2.39	1.12	0.98	0.86	0.65	0.57	
Max	0.52	0.15	0.73	0.80	2.11	3.28	4.21	1.37	1.05	1.14	0.80	0.65	4.21
Min	0.09	0.00	0.12	0.47	0.62	1.11	1.38	0.98	0.92	0.73	0.57	0.50	0.00

Annual Max Momentary Gage Height 4.93 M (A.D), at 9.00 Hours, on Oct 18, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.24 M (A.D)
Left Bank Elevation 5.06 M (A.D)
Right Bank Elevation 5.18 M (A.D), Drainage Area 203 Square Kilometers

WATER YEAR 1992

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 Chanthaburi-Khao Yai Highway, Amphoe Muang, Prachin Buri.

Drainage Area — 128 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +376.10 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank at the abutment of the bridge.

Elevation — +382.580 m.(M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1986 to date.

Rating Operation

Period of Rating — 1986 to date.

Rated by Float — -

Rated by Current Meter — 1986 to date.

Stability of Channel Regimes — Fairly stable.

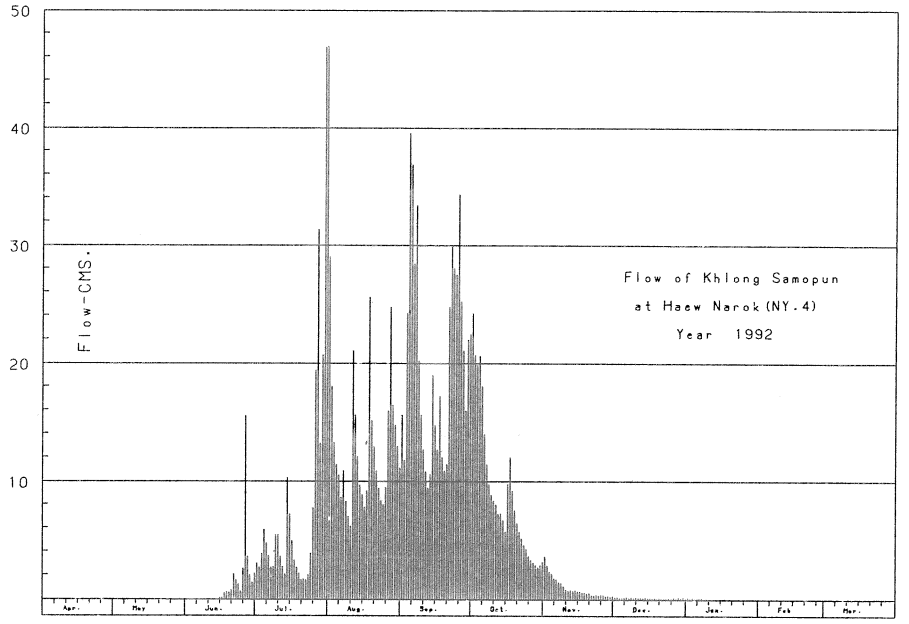
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 56 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.24	376.17	376.33	376.88	377.65	377.35	377.55	376.92	376.55	376.51	376.42	376.34	
2	376.24	376.16	376.32	376.86	377.41	377.24	377.47	376.87	376.54	376.51	376.42	376.34	
3	376.23	376.16	376.32	376.93	377.29	377.55	377.45	376.83	376.53	376.51	376.42	376.38	
4	376.23	376.16	376.32	377.03	377.23	377.86	377.47	376.82	376.53	376.51	376.42	376.37	
5	376.22	376.16	376.33	376.98	377.20	377.81	377.41	376.79	376.53	376.50	376.42	376.36	
6	376.21	376.15	376.33	376.92	377.13	377.64	377.31	376.78	376.53	376.50	376.41	376.36	
7	376.21	376.15	376.35	376.86	377.21	377.74	377.23	376.76	376.53	376.49	376.41	376.36	
8	376.20	376.14	376.35	376.86	377.12	377.46	377.17	376.75	376.53	376.48	376.41	376.35	
9	376.19	376.14	376.37	377.01	377.07	377.35	377.14	376.73	376.53	376.48	376.41	376.35	
10	376.19	376.13	376.39	377.01	377.04	377.27	377.12	376.70	376.53	376.47	376.40	376.35	
11	376.18	376.13	376.44	376.92	377.48	377.21	377.11	376.69	376.53	376.47	376.40	376.34	
12	376.18	376.13	376.43	376.86	377.35	377.16	377.08	376.69	376.53	376.47	376.40	376.35	
13	376.17	376.12	376.42	376.82	377.25	377.20	377.08	376.69	376.53	376.47	376.40	376.41	
14	376.17	376.16	376.45	377.19	377.17	377.43	377.06	376.69	376.52	376.47	376.40	376.42	
15	376.16	376.15	376.51	377.08	377.14	377.33	377.02	376.68	376.52	376.46	376.39	376.43	
16	376.16	376.18	376.54	376.99	377.10	377.27	377.17	376.67	376.51	376.45	376.39	376.42	
17	376.24	376.20	376.65	376.90	377.15	377.39	377.25	376.66	376.50	376.45	376.38	376.42	
18	376.23	376.20	376.66	376.86	377.58	377.25	377.15	376.65	376.50	376.45	376.38	376.42	
19	376.23	376.21	376.66	376.82	377.34	377.21	377.09	376.64	376.50	376.45	376.37	376.42	
20	376.22	376.21	376.69	376.78	377.28	377.23	377.05	376.64	376.50	376.45	376.36	376.42	
21	376.22	376.20	376.82	376.78	377.21	377.56	377.02	376.62	376.50	376.45	376.36	376.44	
22	376.22	376.20	376.78	376.78	377.16	377.67	377.00	376.61	376.49	376.44	376.36	376.47	
23	376.22	376.20	376.74	376.81	377.12	377.63	376.97	376.61	376.49	376.44	376.36	376.47	
24	376.21	376.21	376.68	376.93	377.11	377.62	376.95	376.61	376.50	376.44	376.36	376.46	
25	376.21	376.21	376.85	377.10	377.16	377.76	376.92	376.61	376.50	376.43	376.35	376.44	
26	376.21	376.24	377.35	377.44	377.36	377.57	376.90	376.61	376.51	376.43	376.35	376.44	
27	376.20	376.27	376.92	377.70	377.56	377.48	376.89	376.59	376.51	376.43	376.35	376.43	
28	376.20	376.30	376.81	377.29	377.37	377.36	376.87	376.58	376.52	376.43	376.34	376.43	
29	376.19	376.31	376.76	377.47	377.33	377.50	376.86	376.57	376.52	376.43		376.42	
30	376.18	376.31	376.82	378.00	377.28	377.51	376.87	376.57	376.53	376.42		376.41	
31		376.31		378.00	377.22		376.89		376.51	376.42		376.40	
Mean	376.21	376.19	376.58	377.06	377.26	377.45	377.11	376.69	376.52	376.46	376.39	376.40	
Max	376.24	376.31	377.35	378.00	377.65	377.86	377.55	376.92	376.55	376.51	376.42	376.47	378.00
Min	376.16	376.12	376.32	376.78	377.04	377.16	376.86	376.57	376.49	376.42	376.34	376.34	376.12

Annual Max Momentary Gage Height 378.42 M (MSL), at 22.00 Hours, on Sep 3, 1992
Zero Gage at Bottom Elevation 376.10 M (MSL), River Bed 375.65 M (MSL)
Left Bank Elevation 381.52 M (MSL)
Right Bank Elevation 382.82 M (MSL), Drainage Area 128 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	3.02	29.00	15.65	24.30	3.68	0.20	0.12	0.02	0.00	
2	0.00	0.00	0.00	2.74	18.13	11.80	20.71	2.88	0.18	0.12	0.02	0.00	
3	0.00	0.00	0.00	3.87	13.30	24.30	19.85	2.32	0.16	0.12	0.02	0.00	
4	0.00	0.00	0.00	5.98	11.50	39.52	20.71	2.18	0.16	0.12	0.02	0.00	
5	0.00	0.00	0.00	4.82	10.60	36.92	18.13	1.79	0.16	0.10	0.02	0.00	
6	0.00	0.00	0.00	3.68	8.64	28.52	14.01	1.68	0.16	0.10	0.01	0.00	
7	0.00	0.00	0.00	2.74	10.90	33.40	11.50	1.46	0.16	0.09	0.01	0.00	
8	0.00	0.00	0.00	2.74	8.36	20.28	9.76	1.35	0.16	0.08	0.01	0.00	
9	0.00	0.00	0.00	5.46	7.02	15.65	8.92	1.13	0.16	0.08	0.01	0.00	
10	0.00	0.00	0.00	5.46	6.24	12.70	8.36	0.80	0.16	0.07	0.00	0.00	
11	0.00	0.00	0.04	3.68	21.14	10.90	8.08	0.75	0.16	0.07	0.00	0.00	
12	0.00	0.00	0.03	2.74	15.65	9.48	7.28	0.75	0.16	0.07	0.00	0.00	
13	0.00	0.00	0.02	2.18	12.10	10.60	7.28	0.75	0.16	0.07	0.00	0.01	
14	0.00	0.00	0.05	10.32	9.76	18.99	6.76	0.75	0.14	0.07	0.00	0.02	
15	0.00	0.00	0.12	7.28	8.92	14.83	5.72	0.70	0.14	0.06	0.00	0.03	
16	0.00	0.00	0.18	5.01	7.80	12.70	9.76	0.65	0.12	0.05	0.00	0.02	
17	0.00	0.00	0.55	3.30	9.20	17.29	12.10	0.60	0.10	0.05	0.00	0.02	
18	0.00	0.00	0.60	2.74	25.68	12.10	9.20	0.55	0.10	0.05	0.00	0.02	
19	0.00	0.00	0.60	2.18	15.24	10.90	7.54	0.50	0.10	0.05	0.00	0.02	
20	0.00	0.00	0.75	1.68	13.00	11.50	6.50	0.50	0.10	0.05	0.00	0.02	
21	0.00	0.00	2.18	1.68	10.90	24.76	5.72	0.40	0.10	0.05	0.00	0.04	
22	0.00	0.00	1.68	1.68	9.48	29.96	5.20	0.35	0.09	0.04	0.00	0.07	
23	0.00	0.00	1.24	2.04	8.36	28.04	4.63	0.35	0.09	0.04	0.00	0.07	
24	0.00	0.00	0.70	3.87	8.08	27.56	4.25	0.35	0.10	0.04	0.00	0.06	
25	0.00	0.00	2.60	7.80	9.48	34.40	3.68	0.35	0.10	0.03	0.00	0.04	
26	0.00	0.00	15.65	19.42	16.06	25.22	3.30	0.35	0.12	0.03	0.00	0.04	
27	0.00	0.00	3.68	31.40	24.76	21.14	3.16	0.28	0.12	0.03	0.00	0.03	
28	0.00	0.00	2.04	13.30	16.47	16.06	2.88	0.26	0.14	0.03	0.00	0.03	
29	0.00	0.00	1.46	20.71	14.83	22.00	2.74	0.24	0.14	0.03		0.02	
30	0.00	0.00	2.18	46.90	13.00	22.46	2.88	0.24	0.16	0.02		0.01	
31		0.00		46.90	11.20		3.16		0.12	0.02		0.00	
Total	0.00	0.00	36.35	277.32	404.80	619.63	278.07	28.94	4.22	1.95	0.14	0.57	1651.99 CMSDAY
Mean	0.00	0.00	1.21	8.95	13.06	20.65	8.97	0.96	0.14	0.06	0.00	0.02	4.53 CMS
Max	0.00	0.00	15.65	46.90	29.00	39.52	24.30	3.68	0.20	0.12	0.02	0.07	46.90 CMS
Min	0.00	0.00	0.00	1.68	6.24	9.48	2.74	0.24	0.09	0.02	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	3.141	23.960	34.975	53.536	24.025	2.500	0.365	0.168	0.012	0.049	142.732 MCM

Momentary Peak 74.00 CMS, at 378.42 M (MSL), at 22.00 Hours, on Sep 3, 1992

Runoff Yield 35.36 Liters/Second/Square KM, Momentary Peak Yield 578.14 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

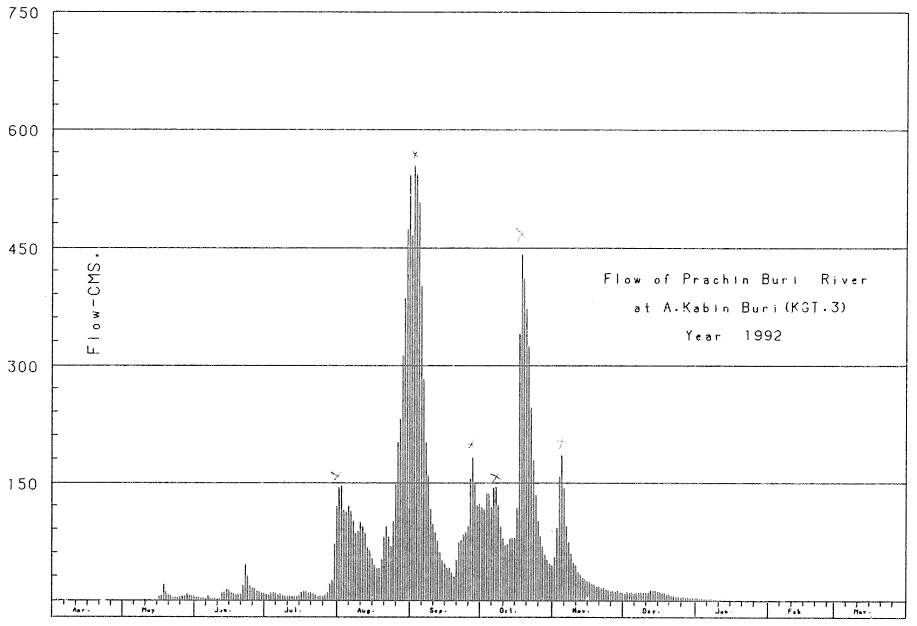
Prachin Buri River at Kabin Buri, Prachin Buri (Kgt.3)

Location	Lat. 13-59-05 N., Long. 101-42-32 E., on left bank infront of Amphoe Kabin Buri Office and about 500 meters downstream from the confluence of Lam Prong and Lam Hanuman, Amphoe Kabin Buri, Prachin Buri.
Drainage Area	7,502 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	0.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank infront of Amphoe Kabin Buri Office.
Elevation	+10.795 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1941 to date.
Rating Operation	
Period of Rating	1941-1943, 1945, 1964 to date.
Rated by Float	-
Rated by Current Meter	1941-1943, 1945, 1964 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	0.31	0.67	0.82	4.10	7.36	3.72	2.44	0.94	0.54	0.21	0.46	
2	0.38	0.30	0.61	0.80	4.15×	8.02×	3.67	3.25	0.98	0.51	0.18	0.50	
3	0.37	0.29	0.57	0.91	3.66	7.94	4.01	4.32	0.97	0.50	0.21	0.54	
4	0.37	0.28	0.52	0.98	3.63	7.69	3.99	4.68×	0.95	0.50	0.20	0.45	
5	0.35	0.26	0.52	0.89	3.76	6.84	3.74	4.10	0.93	0.50	0.18	0.45	
6	0.34	0.27	0.74	0.83	3.63	5.77	4.10	3.31	0.92	0.48	0.25	0.43	
7	0.33	0.29	0.49	0.84	3.43	4.89	4.13×	2.91	0.97	0.47	0.25	0.42	
8	0.32	0.33	0.47	0.76	3.12	4.33	3.77	2.54	0.97	0.44	0.21	0.45	
9	0.32	0.40	0.46	0.70	3.19	3.70	3.30	2.28	0.98	0.43	0.41	0.46	
10	0.32	0.38	0.45	0.70	3.39	3.34	3.01	2.17	0.94	0.40	0.49	0.48	
11	0.32	0.38	0.46	0.68	3.28	3.16	2.79	1.93	0.99	0.40	0.48	0.51	
12	0.31	0.36	0.96	0.68	3.14	2.92	2.83	1.81	1.08	0.39	0.46	0.52	
13	0.31	0.36	0.96	0.64	2.75	2.60	3.00	1.70	1.10	0.37	0.53	0.62	
14	0.31	0.37	1.17	0.70	2.64	2.32	3.00	1.61	1.07	0.35	0.47	0.33	
15	0.31	0.35	1.08	0.70	2.41	2.23	3.02	1.55	1.04	0.34	0.52	0.30	
16	0.30	0.74	0.95	0.94	2.16	2.06	3.70	1.49	0.98	0.33	0.55	0.29	
17	0.30	0.73	0.86	1.05	2.06	2.09	6.33	1.43	0.94	0.30	0.52	0.32	
18	0.30	1.42	0.82	1.00	2.05	1.88	7.17×	1.38	0.93	0.30	0.48	0.30	
19	0.30	0.98	0.82	0.94	2.37	1.75	6.91	1.31	0.86	0.33	0.46	0.31	
20	0.32	0.82	0.85	0.93	3.03	2.34	6.60	1.29	0.84	0.28	0.42	0.32	
21	0.34	0.70	1.32	0.90	3.29	2.90	6.18	1.23	0.77	0.24	0.40	0.29	
22	0.35	0.64	2.20	0.78	3.05	2.94	5.41	1.23	0.72	0.27	0.41	0.27	
23	0.34	0.62	1.74	0.69	2.78	3.10	4.61	1.17	0.69	0.27	0.44	0.66	
24	0.33	0.61	1.34	0.69	3.41	3.14	3.98	1.10	0.64	0.26	0.41	0.59	
25	0.35	0.67	1.25	0.69	4.17	3.31	3.43	1.07	0.65	0.27	0.44	0.47	
26	0.34	0.69	1.16	0.74	4.88	4.28	3.05	1.04	0.63	0.26	0.50	0.38	
27	0.33	0.75	1.04	0.97	5.24	4.65×	2.76	1.04	0.60	0.26	0.54	0.34	
28	0.32	0.85	0.99	1.43	6.08	4.19	2.52	1.05	0.58	0.25	0.47	0.34	
29	0.32	0.80	0.95	1.56	6.70	3.77	2.34	1.00	0.57	0.23		0.33	
30	0.31	0.71	0.88	2.85	7.43	3.79	2.23	0.96	0.56	0.22		0.29	
31		0.70		3.74	7.94		2.15		0.56	0.21		0.27	
Mean	0.33	0.56	0.91	1.02	3.77	3.98	3.92	1.95	0.85	0.35	0.40	0.41	
Max	0.38	1.42	2.20	3.74	7.94	8.02	7.17	4.68	1.10	0.54	0.55	0.66	8.02
Min	0.30	0.26	0.45	0.64	2.05	1.75	2.15	0.96	0.56	0.21	0.18	0.27	0.18

Annual Max Momentary Gage Height 8.03 M (MSL), at 15.00 Hours, on Sep 2, 1992
Zero Gage at Bottom Elevation 0.00 M (MSL), River Bed -0.96 M (MSL)
Left Bank Elevation 9.86 M (MSL)
Right Bank Elevation 9.45 M (MSL), Drainage Area 7502 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.44	0.88	5.22	7.68	143.50	465.04	118.50	55.44	9.96	3.35	0.08	0.00	
2	1.44	0.80	4.26	7.30	146.90	553.64	115.56	92.17	10.72	2.97	0.00	0.00	
3	1.36	0.72	3.73	9.39	114.98	542.34	137.38	158.48	10.53	2.85	0.08	0.00	
4	1.36	0.64	3.10	10.72	113.24	507.86	136.02	184.90	10.15	2.85	0.00	0.00	
5	1.20	0.48	3.10	9.01	120.90	401.84	119.70	143.50	9.77	2.85	0.00	0.00	
6	1.12	0.56	6.34	7.87	113.24	281.60	143.50	95.38	9.58	2.60	0.40	0.00	
7	1.04	0.72	2.73	8.06	101.89	202.15	145.54	75.20	10.53	2.48	0.40	0.00	
8	0.96	1.04	2.48	6.66	85.42	159.17	121.50	59.54	10.53	2.10	0.08	0.00	
9	0.96	1.60	2.35	5.70	88.99	117.30	94.85	49.12	10.72	1.98	0.00	0.00	
10	0.96	1.44	2.22	5.70	99.66	96.99	79.81	44.95	9.96	1.60	0.00	0.00	
11	0.96	1.44	2.35	5.38	93.78	87.46	69.79	36.76	10.91	1.60	0.00	0.00	
12	0.88	1.28	10.34	5.38	86.44	75.66	71.56	32.92	12.90	1.52	0.00	0.00	
13	0.88	1.28	10.34	4.74	68.15	62.00	79.30	29.55	13.35	1.36	0.00	0.00	
14	0.88	1.36	14.92	5.70	63.64	50.68	79.30	26.80	12.68	1.20	0.00	0.00	
15	0.88	1.20	12.90	5.70	54.21	47.17	80.32	25.07	12.00	1.12	0.00	0.00	
16	0.80	6.34	10.15	9.96	44.60	41.10	117.30	23.36	10.72	1.04	0.00	0.00	
17	0.80	6.18	8.44	12.22	41.10	42.15	340.65	21.65	9.96	0.80	0.00	0.00	
18	0.80	21.37	7.68	11.10	40.75	35.16	441.77	20.28	9.77	0.80	0.00	0.00	
19	0.80	10.72	7.68	9.96	52.63	31.07	410.31	18.46	8.44	1.04	0.00	0.00	
20	0.96	7.68	8.25	9.77	80.83	51.46	372.80	17.94	8.06	0.64	0.00	0.00	
21	1.12	5.70	18.72	9.20	94.31	74.75	323.88	16.38	6.82	0.32	0.00	0.00	
22	1.20	4.74	46.00	6.98	81.85	76.57	246.64	16.38	6.02	0.56	0.00	0.00	
23	1.12	4.42	30.77	5.54	69.38	84.40	179.30	14.92	5.54	0.56	0.00	0.00	
24	1.04	4.26	19.24	5.54	100.76	86.44	135.34	13.35	4.74	0.48	0.00	0.00	
25	1.20	5.22	16.90	5.54	148.26	95.38	101.89	12.68	4.90	0.56	0.00	0.00	
26	1.12	5.54	14.70	6.34	201.30	155.74	81.85	12.00	4.58	0.48	0.00	0.00	
27	1.04	6.50	12.00	10.53	231.90	182.50	68.56	12.00	4.10	0.48	0.00	0.00	
28	0.96	8.25	10.91	21.65	313.32	149.62	58.72	12.22	3.85	0.40	0.00	0.00	
29	0.96	7.30	10.15	25.36	384.90	121.50	51.46	11.10	3.73	0.24		0.00	
30	0.88	5.86	8.82	72.47	473.81	122.70	47.17	10.34	3.60	0.16		0.00	
31		5.70		119.70	542.34		44.25		3.60	0.08		0.00	
Total	31.12	131.22	316.79	446.85	4396.98	5001.44	4614.52	1342.84	262.72	41.07	1.04	0.00	16586.59 CMSDAY
Mean	1.04	4.23	10.56	14.41	141.84	166.71	148.86	44.76	8.47	1.32	0.04	0.00	45.44 CMS
Max	1.44	21.37	46.00	119.70	542.34	553.64	441.77	184.90	13.35	3.35	0.40	0.00	553.64 CMS
Min	0.80	0.48	2.22	4.74	40.75	31.07	44.25	10.34	3.60	0.08	0.00	0.00	0.00 CMS
Runoff	2.689	11.337	27.371	38.608	379.899	432.124	398.695	116.021	22.699	3.548	0.090	0.000	1433.082 MCM

Momentary Peak 555.06 CMS, at 8.03 M (MSL), at 15.00 Hours, on Sep 2, 1992
Runoff Yield 6.06 Liters/Second/Square KM, Momentary Peak Yield 73.99 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

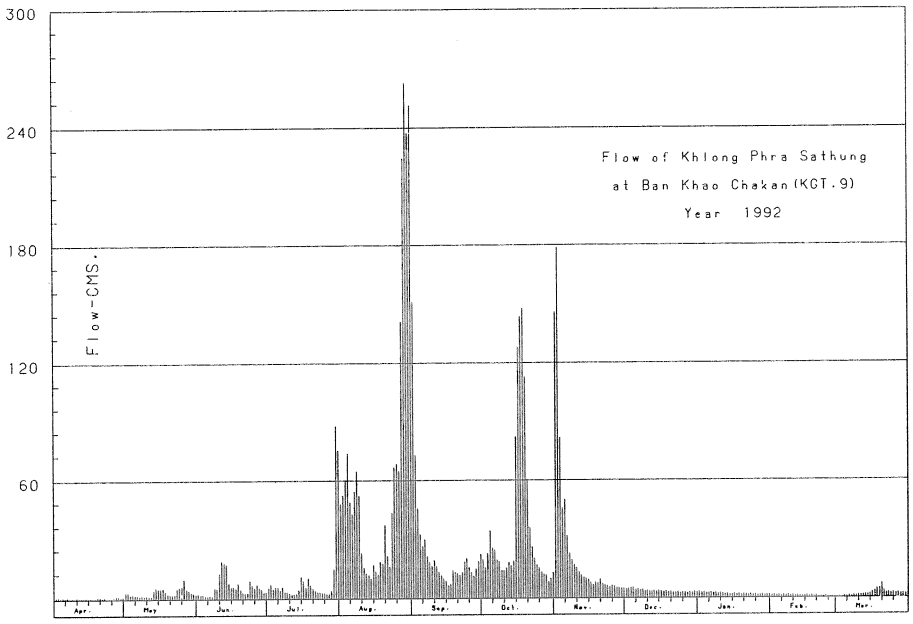
Khlong Phra Sathung at Ban Khao Chakan, Prachin Buri (Kgt.9)

Location	Lat. 13-40-10 N., Long. 102-04-35 E., on right bank near Wat Khao Chakan, Tambon Khao Chakan, Amphoe Sa Kaeo, Prachin Buri.
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	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.46	0.33	0.64	2.45	5.03	1.39	4.91	0.58	0.44	0.24	0.09	
2	0.16	0.43	0.31	0.72	2.58	3.18	1.17	5.61	0.58	0.43	0.24	0.10	
3	0.15	0.33	0.28	0.60	2.83	2.38	1.55	3.41	0.62	0.42	0.24	0.11	
4	0.14	0.30	0.24	0.63	3.21	1.96	2.02	2.38	0.61	0.41	0.24	0.13	
5	0.13	0.28	0.23	0.65	2.49	1.73	1.69	2.52	0.55	0.40	0.23	0.14	
6	0.12	0.27	0.23	0.55	2.30	1.85	1.63	1.92	0.55	0.39	0.23	0.16	
7	0.11	0.26	0.23	0.64	2.64	1.50	1.40	1.57	0.54	0.38	0.23	0.18	
8	0.10	0.25	0.63	0.50	2.95	1.32	1.34	1.38	0.53	0.37	0.23	0.20	
9	0.09	0.25	0.59	0.44	2.59	1.23	1.12	1.27	0.50	0.36	0.22	0.22	
10	0.13	0.24	1.05	0.39	1.57	1.39	1.09	1.17	0.48	0.35	0.22	0.23	
11	0.12	0.23	1.36	0.36	1.20	1.21	1.17	1.07	0.50	0.34	0.21	0.25	
12	0.12	0.22	1.33	0.33	1.03	1.06	1.33	0.97	0.47	0.33	0.21	0.26	
13	0.11	0.55	1.27	0.40	1.00	0.98	1.23	0.93	0.48	0.32	0.21	0.27	
14	0.10	0.62	0.78	0.54	0.89	0.88	1.37	0.88	0.48	0.31	0.20	0.28	
15	0.09	0.61	0.65	0.96	1.27	0.83	3.42	0.86	0.48	0.30	0.20	0.30	
16	0.08	0.58	0.65	0.82	1.08	0.69	4.51	0.76	0.47	0.30	0.19	0.40	
17	0.07	0.62	0.62	0.65	1.02	0.72	4.86	0.71	0.46	0.30	0.19	0.50	
18	0.06	0.48	0.75	0.93	1.33	1.10	4.96	0.76	0.46	0.29	0.18	0.55	
19	0.20	0.39	0.58	0.69	1.30	1.07	4.16	0.76	0.45	0.29	0.18	0.60	
20	0.15	0.30	0.43	0.59	2.11	1.02	2.82	0.86	0.44	0.28	0.17	0.72	
21	0.14	0.29	0.38	0.54	1.51	0.97	2.07	0.74	0.43	0.28	0.16	0.47	
22	0.13	0.35	0.44	0.48	1.20	1.07	1.71	0.70	0.42	0.27	0.15	0.40	
23	0.10	0.61	0.85	0.44	2.32	1.36	1.42	0.66	0.41	0.27	0.14	0.38	
24	0.06	0.63	0.69	0.44	3.00	1.42	1.27	0.64	0.40	0.26	0.13	0.37	
25	0.05	0.67	0.61	0.39	3.06	1.20	1.16	0.66	0.40	0.26	0.12	0.37	
26	0.12	0.87	0.73	0.38	2.95	1.05	1.08	0.65	0.40	0.26	0.11	0.36	
27	0.25	0.59	0.64	0.38	4.81	0.96	1.01	0.62	0.40	0.25	0.10	0.35	
28	0.20	0.52	0.56	0.50	6.52	1.14	0.97	0.60	0.41	0.25	0.09	0.34	
29	0.19	0.46	0.48	1.16	7.26	1.37	0.80	0.60	0.42	0.25		0.33	
30	0.18	0.38	0.45	3.57	6.77	1.55	0.88	0.58	0.43	0.25		0.32	
31		0.36		3.24	7.05		1.04		0.44	0.25		0.32	
Mean	0.13	0.43	0.61	0.76	2.72	1.44	1.86	1.37	0.48	0.32	0.19	0.31	
Max	0.25	0.87	1.36	3.57	7.26	5.03	4.96	5.61	0.62	0.44	0.24	0.72	7.26
Min	0.05	0.22	0.23	0.33	0.89	0.69	0.80	0.58	0.40	0.25	0.09	0.09	0.05

Annual Max Momentary Gage Height 7.31 M (A.D), at 18.00 Hours, on Aug 29, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.20 M (A.D)
Left Bank Elevation 8.69 M (A.D)
Right Bank Elevation 11.00 M (A.D), Drainage Area 2279 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	3.20	2.04	5.68	47.95	150.92	19.41	145.64	4.72	3.00	1.32	0.45	
2	0.80	2.90	1.88	7.04	52.24	73.06	15.23	179.00	4.72	2.90	1.32	0.50	
3	0.75	2.04	1.64	5.00	60.55	45.64	22.55	81.89	5.34	2.80	1.32	0.55	
4	0.70	1.80	1.32	5.51	74.18	32.68	34.40	45.64	5.17	2.70	1.32	0.65	
5	0.65	1.64	1.24	5.85	49.27	26.72	25.76	50.26	4.30	2.60	1.24	0.70	
6	0.60	1.56	1.24	4.30	43.00	29.70	24.32	31.56	4.30	2.52	1.24	0.80	
7	0.55	1.48	1.24	5.68	54.22	21.50	19.60	22.97	4.16	2.44	1.24	0.90	
8	0.50	1.40	5.51	3.60	64.75	18.08	18.46	19.22	4.02	2.36	1.24	1.00	
9	0.45	1.40	4.86	3.00	52.57	16.37	14.28	17.13	3.60	2.28	1.16	1.16	
10	0.65	1.32	12.95	2.52	22.97	19.41	13.71	15.23	3.40	2.20	1.16	1.24	
11	0.60	1.24	18.84	2.28	15.80	15.99	15.23	13.33	3.60	2.12	1.08	1.40	
12	0.60	1.16	18.27	2.04	12.57	13.14	18.27	11.43	3.30	2.04	1.08	1.48	
13	0.55	4.30	17.13	2.60	12.00	11.62	16.37	10.67	3.40	1.96	1.08	1.56	
14	0.50	5.34	8.06	4.16	9.93	9.76	19.03	9.76	3.40	1.88	1.00	1.64	
15	0.45	5.17	5.85	11.24	17.13	8.91	82.28	9.42	3.40	1.80	1.00	1.80	
16	0.40	4.72	5.85	8.74	13.52	6.53	128.04	7.72	3.30	1.80	0.95	2.60	
17	0.35	5.34	5.34	5.85	12.38	7.04	143.44	6.87	3.20	1.80	0.95	3.60	
18	0.30	3.40	7.55	10.67	18.27	13.90	147.84	7.72	3.20	1.72	0.90	4.30	
19	1.00	2.52	4.72	6.53	17.70	13.33	112.64	7.72	3.10	1.72	0.90	5.00	
20	0.75	1.80	2.90	4.86	37.10	12.38	60.20	9.42	3.00	1.64	0.85	7.04	
21	0.70	1.72	2.44	4.16	21.71	11.43	35.90	7.38	2.90	1.64	0.80	3.30	
22	0.65	2.20	3.00	3.40	15.80	13.33	26.24	6.70	2.80	1.56	0.75	2.60	
23	0.50	5.17	9.25	3.00	43.66	18.84	19.98	6.02	2.70	1.56	0.70	2.44	
24	0.30	5.51	6.53	3.00	66.50	19.98	17.13	5.68	2.60	1.48	0.65	2.36	
25	0.25	6.19	5.17	2.52	68.66	15.80	15.04	6.02	2.60	1.48	0.60	2.36	
26	0.60	9.59	7.21	2.44	64.75	12.95	13.52	5.85	2.60	1.48	0.55	2.28	
27	1.40	4.86	5.68	2.44	141.24	11.24	12.19	5.34	2.60	1.40	0.50	2.20	
28	1.00	3.88	4.44	3.60	224.50	14.66	11.43	5.00	2.70	1.40	0.45	2.12	
29	0.95	3.20	3.40	15.04	262.42	19.03	8.40	5.00	2.80	1.40		2.04	
30	0.90	2.44	3.10	88.13	237.00	22.55	9.76	4.72	2.90	1.40		1.96	
31		2.28		75.32	251.50		12.76		3.00	1.40		1.96	
Total	19.25	100.77	178.65	310.20	2085.84	706.49	1133.41	760.31	106.83	60.48	27.35	63.99	5553.57 CMSDAY
Mean	0.64	3.25	5.96	10.01	67.29	23.55	36.56	25.34	3.45	1.95	0.98	2.06	15.22 CMS
Max	1.40	9.59	18.84	88.13	262.42	150.92	147.84	179.00	5.34	3.00	1.32	7.04	262.42 CMS
Min	0.25	1.16	1.24	2.04	9.93	6.53	8.40	4.72	2.60	1.40	0.45	0.45	0.25 CMS
Runoff	1.663	8.707	15.435	26.801	180.217	61.041	97.927	65.691	9.230	5.225	2.363	5.529	479.829 MCM

Momentary Peak 265.05 CMS, at 7.31 M (A.D), at 18.00 Hours, on Aug 29, 1992

Runoff Yield 6.68 Liters/Second/Square KM, Momentary Peak Yield 116.30 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

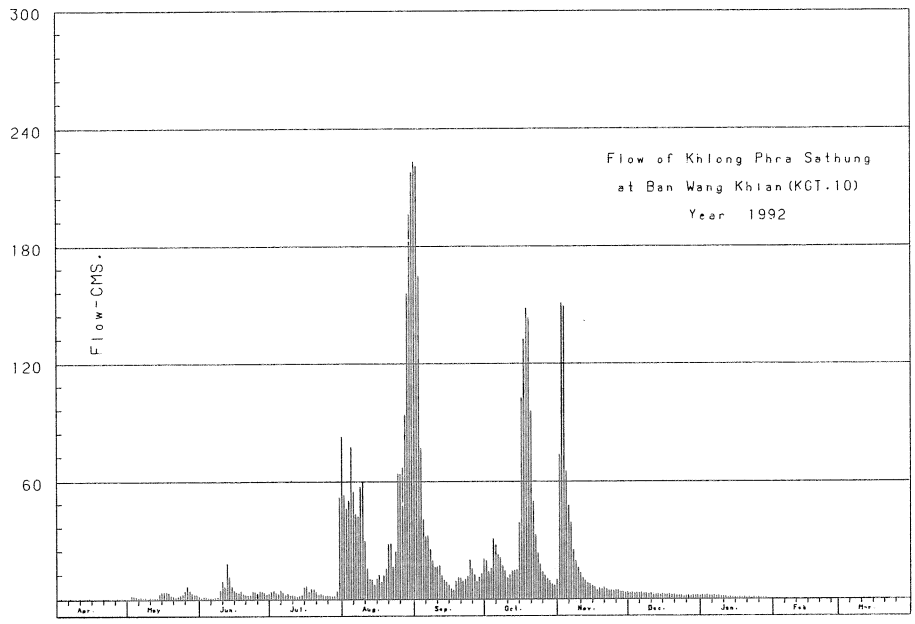
Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (Kgt.10)

Location	Lat. 13°48'29" N., Long. 102°03'35" E., on left bank near Saha Charoen Sawmill, Ban Wang Khian, Amphoe Sa Kaeo, Prachin Buri.
Drainage Area	2,523 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+23.741 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 10 meters from the automatic gage building.
Elevation	+34.652 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1966 to date.
Rating Operation	
Period of Rating	1966 to date.
Rated by Float	-
Rated by Current Meter	1966 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +34.38 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 98 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.74	24.68	24.69	25.38	28.76	34.35	26.84	29.69	25.29	25.02	25.53	24.93	
2	24.73	25.04	24.92	25.51	28.43	32.78	26.41	32.35	25.28	25.04	25.53	24.89	
3	24.72	24.94	24.87	25.29	28.62	29.81	26.57	32.31	25.26	25.05	25.51	24.84	
4	24.71	24.89	24.83	25.24	29.85	28.14	27.56	29.31	25.27	25.02	25.46	24.82	
5	24.70	24.85	24.81	25.55	28.86	27.63	27.38	28.51	25.31	25.02	25.21	24.82	
6	24.71	24.82	24.81	25.33	28.26	27.65	27.06	28.04	25.28	25.01	25.08	24.83	
7	24.70	24.81	24.78	25.14	28.22	27.24	26.93	27.22	25.27	24.99	25.16	24.83	
8	24.70	24.80	24.93	25.21	28.96	26.83	26.66	26.82	25.22	24.98	25.13	24.78	
9	24.69	24.79	25.54	25.09	29.08	26.61	26.44	26.59	25.21	24.95	25.04	24.69	
10	24.70	24.80	26.01	25.05	27.49	26.61	26.16	26.36	25.20	24.91	25.00	24.62	
11	24.71	24.79	25.70	24.98	26.55	26.68	26.27	26.16	25.18	24.88	25.02	24.62	
12	24.72	24.83	26.76	24.94	26.12	26.26	26.46	26.00	25.16	24.84	24.97	24.63	
13	24.74	24.83	26.20	24.98	26.05	26.06	26.46	25.91	25.14	24.84	24.98	24.62	
14	24.75	25.20	25.75	25.13	25.83	25.93	26.51	25.83	25.14	24.86	25.06	24.62	
15	24.72	25.34	25.51	25.70	26.13	25.82	28.05	25.76	25.13	24.85	25.13	24.62	
16	24.68	25.39	25.36	25.73	26.28	25.61	30.78	25.66	25.13	24.83	24.97	24.62	
17	24.68	25.42	25.35	25.44	25.98	25.49	31.78	25.53	25.13	24.83	25.36	24.98	
18	24.68	25.30	25.45	25.57	26.26	25.97	32.28	25.60	25.12	24.82	25.56	25.95	
19	24.67	25.06	25.25	25.61	26.56	26.19	32.12	25.59	25.11	24.82	25.47	25.96	
20	24.66	24.95	25.08	25.36	27.39	26.13	30.53	25.64	25.08	24.81	25.36	26.04	
21	24.73	24.90	25.05	25.17	27.43	25.98	28.62	25.60	25.05	24.80	25.46	26.05	
22	24.72	24.99	25.14	25.23	26.61	26.10	27.67	25.50	25.04	24.80	25.51	25.93	
23	24.70	25.05	25.47	25.06	27.17	26.24	27.11	25.47	24.99	24.80	25.35	25.90	
24	24.70	25.22	25.37	25.05	29.27	26.88	26.70	25.47	24.95	24.81	25.21	25.93	
25	24.71	25.45	25.24	25.00	29.25	26.53	26.42	25.50	24.97	24.81	25.13	25.99	
26	24.71	25.72	25.48	24.98	29.41	26.32	26.25	25.47	24.97	24.81	25.07	25.96	
27	24.71	25.52	25.45	24.98	30.48	25.98	26.13	25.40	24.99	24.80	25.01	25.93	
28	24.71	25.25	25.31	24.95	32.50	26.17	25.98	25.36	25.01	24.84	24.95	25.90	
29	24.70	25.20	25.20	25.47	33.68	26.36	25.85	25.33	25.05	24.90		25.86	
30	24.68	25.08	25.21	28.72	34.26	26.90	25.75	25.33	25.02	25.16		25.93	
31		25.00		30.05	34.40		26.05		25.02	25.60		25.87	
Mean	24.71	25.06	25.32	25.51	28.52	27.04	27.48	26.64	25.13	24.92	25.22	25.29	
Max	24.75	25.72	26.76	30.05	34.40	34.35	32.28	32.35	25.31	25.60	25.56	26.05	34.40
Min	24.66	24.68	24.69	24.94	25.83	25.49	25.75	25.33	24.95	24.80	24.95	24.62	24.62

Annual Max Momentary Gage Height 34.44 M (MSL), at 6.00 Hours, on Sep 1, 1992
Zero Gage at Bottom Elevation 23.74 M (MSL), River Bed 24.00 M (MSL)
Left Bank Elevation 34.63 M (MSL)
Right Bank Elevation 34.37 M (MSL), Drainage Area 2523 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	0.36	0.38	3.58	52.86	221.10	19.46	73.76	3.05	1.70	0.00	0.00	
2	0.49	1.80	1.20	4.48	46.27	164.94	13.73	150.75	3.00	1.80	0.00	0.00	
3	0.46	1.30	0.98	3.05	50.00	76.75	15.81	149.43	2.90	1.85	0.00	0.00	
4	0.43	1.06	0.82	2.80	77.75	40.76	30.56	64.93	2.95	1.70	0.00	0.00	
5	0.40	0.90	0.74	4.80	54.96	31.71	27.68	47.80	3.16	1.70	0.00	0.00	
6	0.43	0.78	0.74	3.28	43.04	32.05	22.70	38.86	3.00	1.65	0.00	0.00	
7	0.40	0.74	0.64	2.30	42.28	25.44	20.75	25.12	2.95	1.55	0.00	0.00	
8	0.40	0.70	1.25	2.65	57.12	19.32	16.98	19.18	2.70	1.50	0.00	0.00	
9	0.38	0.67	4.72	2.05	59.76	16.33	14.12	16.07	2.65	1.35	0.00	0.00	
10	0.40	0.70	9.30	1.85	29.44	16.33	10.86	13.12	2.60	1.15	0.00	0.00	
11	0.43	0.67	6.20	1.50	15.55	17.24	12.07	10.86	2.50	1.02	0.00	0.00	
12	0.46	0.82	18.34	1.30	10.42	11.96	14.38	9.20	2.40	0.86	0.00	0.00	
13	0.52	0.82	11.30	1.50	9.70	9.80	14.38	8.30	2.30	0.86	0.00	0.00	
14	0.55	2.60	6.70	2.25	7.50	8.50	15.03	7.50	2.30	0.94	0.00	0.00	
15	0.46	3.34	4.48	6.20	10.53	7.40	39.05	6.80	2.25	0.90	0.00	0.00	
16	0.36	3.64	3.46	6.50	12.18	5.30	102.54	5.80	2.25	0.82	0.00	0.00	
17	0.36	3.84	3.40	3.98	9.00	4.33	132.26	4.64	2.25	0.82	0.00	0.00	
18	0.36	3.10	4.05	4.96	11.96	8.90	148.44	5.20	2.20	0.78	0.00	0.00	
19	0.34	1.90	2.85	5.30	15.68	11.19	143.16	5.12	2.15	0.78	0.00	0.00	
20	0.32	1.35	2.00	3.46	27.84	10.53	95.54	5.60	2.00	0.74	0.00	0.00	
21	0.49	1.10	1.85	2.45	28.48	9.00	50.00	5.20	1.85	0.70	0.00	0.00	
22	0.46	1.55	2.30	2.75	16.33	10.20	32.39	4.40	1.80	0.70	0.00	0.00	
23	0.40	1.85	4.19	1.90	24.35	11.74	23.45	4.19	1.55	0.70	0.00	0.00	
24	0.40	2.70	3.52	1.85	64.01	20.02	17.50	4.19	1.35	0.74	0.00	0.00	
25	0.43	4.05	2.80	1.60	63.55	15.29	13.86	4.40	1.45	0.74	0.00	0.00	
26	0.43	6.40	4.26	1.50	67.23	12.64	11.85	4.19	1.45	0.74	0.00	0.00	
27	0.43	4.56	4.05	1.50	94.14	9.00	10.53	3.70	1.55	0.70	0.00	0.00	
28	0.43	2.85	3.16	1.35	155.70	10.97	9.00	3.46	1.65	0.86	0.00	0.00	
29	0.40	2.60	2.60	4.19	196.48	13.12	7.70	3.28	1.85	0.00		0.00	
30	0.36	2.00	2.65	52.02	217.68	20.30	6.70	3.28	1.70	0.00		0.00	
31		1.60		82.75	223.00		9.70		1.70	0.00		0.00	
Total	12.70	62.35	114.93	221.65	1794.79	872.16	1102.18	708.33	69.46	30.35	0.00	0.00	4988.90 CMSDAY
Mean	0.42	2.01	3.83	7.15	57.90	29.07	35.55	23.61	2.24	0.98	0.00	0.00	13.67 CMS
Max	0.55	6.40	18.34	82.75	223.00	221.10	148.44	150.75	3.16	1.85	0.00	0.00	223.00 CMS
Min	0.32	0.36	0.38	1.30	7.50	4.33	6.70	3.28	1.35	0.00	0.00	0.00	0.00 CMS
Runoff	1.097	5.387	9.930	19.151	155.070	75.355	95.228	61.200	6.001	2.622	0.000	0.000	431.041 MCM

Momentary Peak 224.52 CMS, at 34.44 M (MSL), at 6.00 Hours, on Sep 1, 1992

Runoff Yield 5.42 Liters/Second/Square KM, Momentary Peak Yield 88.99 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng, Prachin Buri (Kgt.12)

Location — Lat. 13-56-02 N., Long. 101-58-41 E., on left bank near the railway station at Ban Kaeng and about 200 meters upstream from Thot Saphon Sawmill, Amphoe Sa Kaeo, Prachin Buri.

Drainage Area — 1,540 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +0.00 m. (A.D.)

Bench Mark — B.M.-H.D.

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

Elevation — +9.687 m. (A.D.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1966 to date.

Rating Operation

Period of Rating — 1966 to date.

Rated by Float —

Rated by Current Meter — 1966 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 80 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

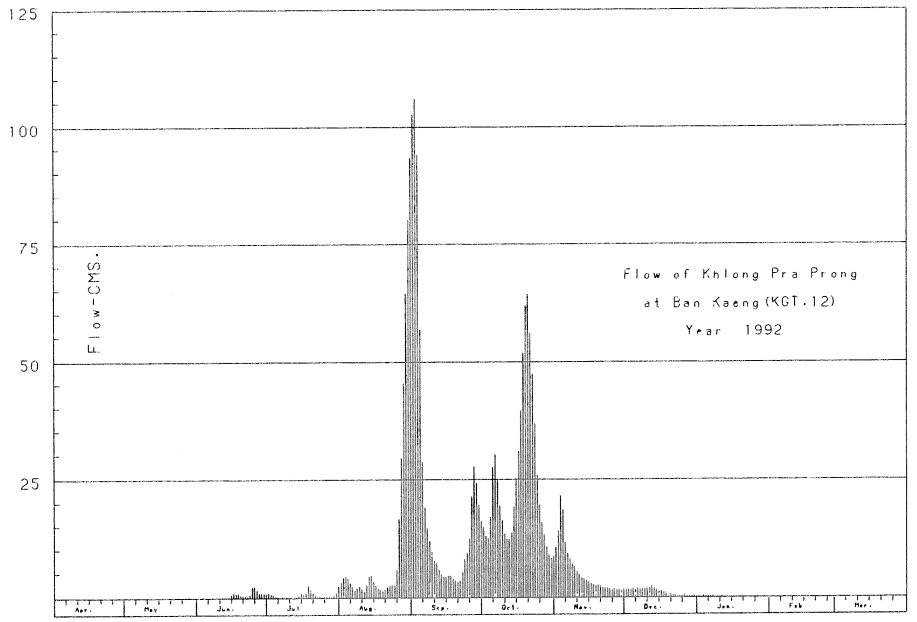
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.02	-0.04	-0.02	0.43	0.85	6.56	2.05	1.67	0.58	0.21	0.04	-0.05	
2	-0.02	-0.06	-0.01	0.40	0.97	6.71	1.89	2.00	0.58	0.24	-0.02	-0.06	
3	-0.02	-0.02	0.03	0.33	1.03	6.21	1.86	2.52	0.59	0.23	0.02	-0.07	
4	0.02	0.02	0.00	0.28	0.96	4.53	2.21	2.33	0.61	0.23	0.00	-0.08	
5	-0.01	-0.01	-0.02	0.21	0.83	2.99	2.92	1.77	0.59	0.22	-0.02	-0.08	
6	-0.02	-0.02	-0.04	0.16	0.69	2.36	3.10	1.57	0.62	0.24	-0.01	-0.09	
7	-0.02	-0.03	-0.04	0.13	0.57	2.03	2.75	1.43	0.61	0.23	-0.01	-0.10	
8	-0.02	0.06	-0.05	0.11	0.62	1.81	2.38	1.33	0.61	0.21	-0.02	-0.09	
9	-0.04	0.00	-0.04	0.10	0.71	1.59	2.17	1.25	0.61	0.17	-0.02	-0.08	
10	-0.05	-0.03	-0.05	0.10	0.60	1.41	1.95	1.15	0.62	0.15	-0.02	-0.06	
11	-0.05	-0.05	-0.05	0.08	0.52	1.33	1.83	1.06	0.66	0.13	-0.01	-0.06	
12	-0.06	-0.05	-0.05	0.07	0.73	1.18	1.83	0.98	0.71	0.13	-0.04	-0.08	
13	-0.06	-0.05	-0.03	0.06	1.03	1.06	1.96	0.93	0.64	0.12	-0.05	-0.08	
14	-0.06	-0.05	0.22	0.26	1.03	1.01	2.37	0.90	0.57	0.11	-0.03	-0.05	
15	-0.07	0.04	0.36	0.43	0.87	1.00	2.77	0.84	0.52	0.08	0.01	-0.01	
16	-0.06	0.04	0.43	0.33	0.72	1.04	3.14	0.81	0.51	0.08	-0.01	-0.03	
17	0.02	0.07	0.40	0.44	0.65	1.02	3.64	0.76	0.47	0.05	-0.03	-0.05	
18	0.06	0.13	0.41	0.75	0.57	0.96	4.28	0.74	0.44	0.04	-0.04	-0.07	
19	0.01	0.06	0.34	0.57	0.53	0.87	4.77	0.75	0.38	0.04	-0.04	-0.03	
20	-0.04	0.02	0.26	0.45	0.57	0.84	4.87	0.71	0.35	0.03	-0.04	0.00	
21	-0.05	0.00	0.24	0.34	0.66	0.87	4.49	0.67	0.32	0.03	-0.04	0.00	
22	-0.05	0.03	0.22	0.26	0.74	1.13	4.06	0.64	0.29	0.02	-0.05	-0.01	
23	-0.03	0.03	0.34	0.21	0.74	1.42	3.49	0.65	0.26	0.05	-0.06	-0.03	
24	0.07	0.03	0.69	0.15	0.76	1.57	2.82	0.60	0.25	0.05	-0.04	-0.04	
25	0.01	0.11	0.70	0.16	1.19	1.86	2.40	0.59	0.28	0.03	-0.06	-0.04	
26	0.00	0.11	0.59	0.15	2.18	2.51	2.12	0.60	0.31	0.03	-0.06	-0.04	
27	0.00	0.09	0.46	0.25	3.05	2.93	1.92	0.58	0.29	0.04	-0.06	-0.05	
28	0.04	0.06	0.40	0.24	3.96	2.71	1.70	0.57	0.27	0.02	-0.05	-0.06	
29	0.02	0.04	0.43	0.29	4.88	2.39	1.52	0.55	0.25	0.01		-0.08	
30	-0.01	0.02	0.39	0.48	5.60	2.16	1.46	0.58	0.23	-0.02		-0.06	
31		0.01		0.70	6.17		1.49		0.22	0.03		-0.01	
Mean	-0.02	0.02	0.22	0.29	1.45	2.20	2.65	1.05	0.46	0.10	-0.03	-0.05	
Max	0.07	0.13	0.70	0.75	6.17	6.71	4.87	2.52	0.71	0.24	0.04	0.00	6.71
Min	-0.07	-0.06	-0.05	0.06	0.52	0.84	1.46	0.55	0.22	-0.02	-0.06	-0.10	-0.10

Annual Max Momentary Gage Height — 6.73 M (A.D), at 9.00 Hours, on Sep 2, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.20 M (A.D)

Left Bank Elevation — 9.62 M (A.D)

Right Bank Elevation — 8.60 M (A.D), Drainage Area 1540 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.06	0.08	1.02	3.35	102.54	14.95	10.57	1.70	0.32	0.14	0.05	
2	0.08	0.04	0.09	0.90	4.19	106.14	12.99	14.30	1.70	0.38	0.08	0.04	
3	0.08	0.08	0.13	0.62	4.64	94.23	12.66	21.60	1.75	0.36	0.12	0.03	
4	0.12	0.12	0.10	0.46	4.12	56.93	17.04	18.75	1.86	0.36	0.10	0.02	
5	0.09	0.09	0.08	0.32	3.21	28.74	27.62	11.67	1.75	0.34	0.08	0.02	
6	0.08	0.08	0.06	0.26	2.34	19.20	30.50	9.50	1.92	0.38	0.09	0.01	
7	0.08	0.07	0.06	0.23	1.65	14.69	25.05	8.17	1.86	0.36	0.09	0.00	
8	0.08	0.16	0.05	0.21	1.92	12.11	19.50	7.27	1.86	0.32	0.08	0.01	
9	0.06	0.10	0.06	0.20	2.46	9.70	16.51	6.55	1.86	0.27	0.08	0.02	
10	0.05	0.07	0.05	0.20	1.80	7.99	13.70	5.65	1.92	0.25	0.08	0.04	
11	0.05	0.05	0.05	0.18	1.40	7.27	12.33	4.88	2.16	0.23	0.09	0.04	
12	0.04	0.05	0.05	0.17	2.58	5.92	12.33	4.26	2.46	0.23	0.06	0.02	
13	0.04	0.05	0.07	0.16	4.64	4.88	13.82	3.91	2.04	0.22	0.05	0.02	
14	0.04	0.05	0.34	0.42	4.64	4.48	19.35	3.70	1.65	0.21	0.07	0.05	
15	0.03	0.14	0.74	1.02	3.49	4.40	25.35	3.28	1.40	0.18	0.11	0.09	
16	0.04	0.14	1.02	0.62	2.52	4.72	31.14	3.07	1.35	0.18	0.09	0.07	
17	0.12	0.17	0.90	1.06	2.10	4.56	39.62	2.76	1.18	0.15	0.07	0.05	
18	0.16	0.23	0.94	2.70	1.65	4.12	51.80	2.64	1.06	0.14	0.06	0.03	
19	0.11	0.16	0.66	1.65	1.45	3.49	62.04	2.70	0.82	0.14	0.06	0.07	
20	0.06	0.12	0.42	1.10	1.65	3.28	64.24	2.46	0.70	0.13	0.06	0.10	
21	0.05	0.10	0.38	0.66	2.16	3.49	56.09	2.22	0.58	0.13	0.06	0.10	
22	0.05	0.13	0.34	0.42	2.64	5.47	47.44	2.04	0.48	0.12	0.05	0.09	
23	0.07	0.13	0.66	0.32	2.64	8.08	36.93	2.10	0.42	0.15	0.04	0.07	
24	0.17	0.13	2.34	0.25	2.76	9.50	26.10	1.80	0.40	0.15	0.06	0.06	
25	0.11	0.21	2.40	0.26	6.01	12.66	19.80	1.75	0.46	0.13	0.04	0.06	
26	0.10	0.21	1.75	0.25	16.64	21.45	15.86	1.80	0.54	0.13	0.04	0.06	
27	0.10	0.19	1.14	0.40	29.70	27.78	13.34	1.70	0.48	0.14	0.04	0.05	
28	0.14	0.16	0.90	0.38	45.54	24.45	10.90	1.65	0.44	0.12	0.05	0.04	
29	0.12	0.14	1.02	0.48	64.46	19.65	9.00	1.55	0.40	0.11		0.02	
30	0.09	0.12	0.86	1.22	80.30	16.38	8.44	1.70	0.36	0.08		0.04	
31		0.11		2.40	93.31		8.71		0.34	0.13		0.09	
Total	2.49	3.66	17.74	20.54	401.96	648.30	775.15	166.00	37.90	6.54	2.04	1.46	2083.78 CMSDAY
Mean	0.08	0.12	0.59	0.66	12.97	21.61	25.00	5.53	1.22	0.21	0.07	0.05	5.71 CMS
Max	0.17	0.23	2.40	2.70	93.31	106.14	64.24	21.60	2.46	0.38	0.14	0.10	106.14 CMS
Min	0.03	0.04	0.05	0.16	1.40	3.28	8.44	1.55	0.34	0.08	0.04	0.00	0.00 CMS
Runoff	0.215	0.316	1.533	1.775	34.729	56.013	66.973	14.342	3.275	0.565	0.176	0.126	180.039 MCM

Momentary Peak 106.62 CMS, at 6.73 M (A.D), at 9.00 Hours, on Sep 2, 1992

Runoff Yield 3.71 Liters/Second/Square KM, Momentary Peak Yield 69.23 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

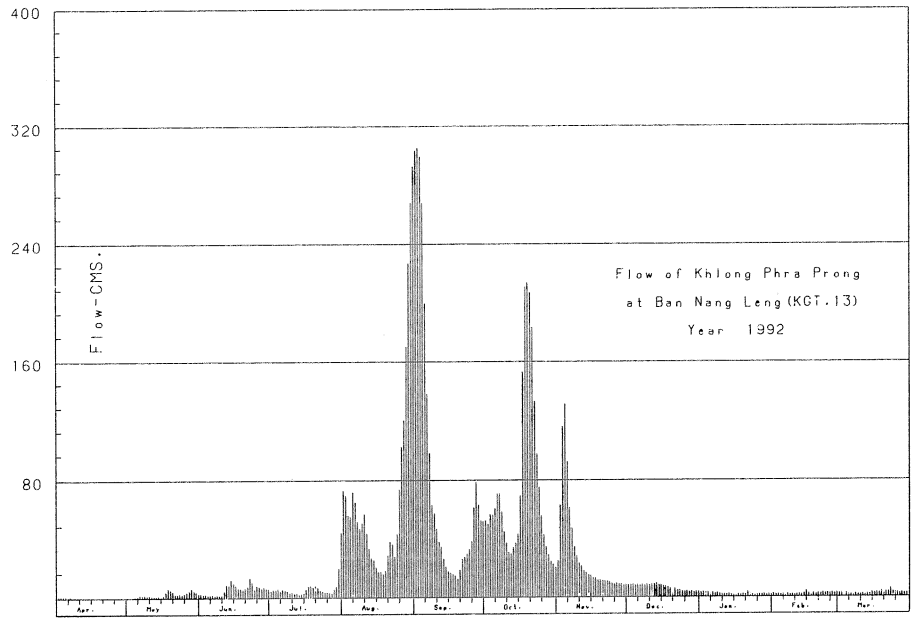
Khlong Phra Prong at Ban Nang Leng, Prachin Buri (Kgt.13)

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	+0.16 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank near the gage site.
Elevation	+10.712 m. (M.S.L.)
Gage Reading Frequency	5 time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1967-1968, 1971-1976, 1982 to date.
Rated by Float	-
Rated by Current Meter	1967-1968, 1971-1976, 1982 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	0.63	1.13	1.38	4.82	9.75	4.15	3.01	1.73	1.24	1.05	1.16	
2	0.83	0.63	1.07	1.41	4.71	9.79	4.08	4.50	1.79	1.23	1.03	1.15	
3	0.82	0.65	1.04	1.47	4.29	9.68	4.29	6.00	1.77	1.23	0.97	1.14	
4	0.81	0.69	1.00	1.50	4.24	9.09	4.30	6.37	1.76	1.22	0.99	1.13	
5	0.79	0.82	1.00	1.37	4.80	7.80	4.42	5.41	1.75	1.20	1.02	1.12	
6	0.77	0.93	0.96	1.43	4.58	6.51	4.76	4.44	1.76	1.17	1.06	1.09	
7	0.73	0.96	0.94	1.43	4.13	5.57	4.75	3.98	1.75	1.15	1.04	1.04	
8	0.73	0.91	0.91	1.32	3.96	4.50	4.36	3.48	1.76	1.14	1.00	1.03	
9	0.73	0.89	0.88	1.24	4.11	4.34	3.89	3.17	1.77	1.13	0.95	1.02	
10	0.72	0.88	0.89	1.22	4.31	3.95	3.59	2.95	1.77	1.12	1.00	1.01	
11	0.71	0.87	1.37	1.15	3.85	3.63	3.30	2.83	1.77	1.08	1.10	1.00	
12	0.70	0.86	1.78	1.15	3.42	3.47	3.27	2.68	1.84	1.04	1.02	0.95	
13	0.70	0.84	1.78	1.07	3.10	3.10	3.45	2.54	1.85	1.03	0.88	1.03	
14	0.70	0.83	2.11	1.07	3.06	2.81	3.58	2.44	1.78	1.00	1.14	1.05	
15	0.70	0.82	1.91	1.17	2.81	2.66	3.81	2.35	1.74	0.99	1.29	1.18	
16	0.70	0.89	1.72	1.45	2.58	2.52	4.70	2.26	1.70	0.98	1.20	1.18	
17	0.69	1.32	1.57	1.72	2.59	2.47	6.82	2.21	1.65	0.97	1.11	1.18	
18	0.68	1.52	1.50	1.70	2.48	2.35	8.03	2.11	1.63	0.97	1.10	1.22	
19	0.67	1.47	1.48	1.64	2.64	2.19	8.08	2.07	1.60	0.98	1.06	1.27	
20	0.67	1.31	1.53	1.70	3.22	2.68	7.95	2.08	1.57	1.01	1.09	1.27	
21	0.67	1.16	1.70	1.58	3.61	3.09	7.45	2.00	1.48	1.25	1.14	1.23	
22	0.67	1.10	2.26	1.41	3.56	3.13	6.41	2.04	1.42	1.16	1.18	1.29	
23	0.67	1.09	1.92	1.30	3.15	3.27	5.55	1.95	1.37	1.12	1.16	1.45	
24	0.67	1.09	1.50	1.27	3.83	3.40	4.88	1.88	1.31	1.05	1.14	1.28	
25	0.67	1.12	1.70	1.21	4.85	3.64	4.26	1.85	1.31	1.01	1.15	1.22	
26	0.66	1.25	1.63	1.18	5.67	4.44	3.81	1.84	1.30	0.98	1.16	1.16	
27	0.65	1.39	1.57	1.19	6.12	4.98	3.48	1.83	1.29	1.02	1.16	1.13	
28	0.64	1.52	1.59	1.49	7.19	4.52	3.21	1.81	1.27	0.99	1.16	1.16	
29	0.63	1.41	1.55	1.65	8.33	4.17	3.01	1.76	1.27	0.97		1.14	
30	0.62	1.25	1.48	2.77	9.10	4.13	2.88	1.74	1.26	0.97		1.10	
31		1.18		3.87	9.55		2.81		1.25	0.97		1.05	
Mean	0.71	1.04	1.45	1.50	4.47	4.59	4.62	2.85	1.59	1.08	1.08	1.14	
Max	0.85	1.52	2.26	3.87	9.55	9.79	8.08	6.37	1.85	1.25	1.29	1.45	9.79
Min	0.62	0.63	0.88	1.07	2.48	2.19	2.81	1.74	1.25	0.97	0.88	0.95	0.62

Annual Max Momentary Gage Height 9.80 M (MSL), at 6.00 Hours, on Sep 2, 1992
Zero Gage at Bottom Elevation 0.16 M (MSL), River Bed 0.39 M (MSL)
Left Bank Elevation 13.79 M (MSL)
Right Bank Elevation 13.85 M (MSL), Drainage Area 5347 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.25	0.22	2.71	4.82	72.76	303.40	52.00	24.70	8.20	3.56	2.25	2.92	
2	1.15	0.22	2.35	5.09	69.22	305.58	49.96	62.70	8.80	3.47	2.15	2.85	
3	1.10	0.30	2.20	5.63	56.20	299.59	56.20	115.70	8.60	3.47	1.85	2.78	
4	1.05	0.46	2.00	5.90	54.70	267.66	56.50	131.68	8.50	3.38	1.95	2.71	
5	0.95	1.10	2.00	4.73	72.10	199.80	60.22	92.56	8.40	3.20	2.10	2.64	
6	0.85	1.65	1.80	5.27	65.18	138.06	70.82	60.84	8.50	2.99	2.30	2.45	
7	0.65	1.80	1.70	5.27	51.40	98.46	70.50	47.28	8.40	2.85	2.20	2.20	
8	0.65	1.55	1.55	4.28	46.76	62.70	58.36	34.54	8.50	2.78	2.00	2.15	
9	0.65	1.45	1.40	3.56	50.80	57.74	44.94	27.90	8.60	2.71	1.75	2.10	
10	0.60	1.40	1.45	3.38	56.81	46.50	37.16	23.50	8.60	2.64	2.00	2.05	
11	0.55	1.35	4.73	2.85	43.90	38.18	30.50	21.10	8.60	2.40	2.50	2.00	
12	0.50	1.30	8.70	2.85	33.16	34.31	29.90	18.44	9.30	2.20	2.10	1.75	
13	0.50	1.20	8.70	2.35	26.50	26.50	33.85	16.74	9.40	2.15	1.40	2.15	
14	0.50	1.15	12.01	2.35	25.70	20.70	36.92	15.64	8.70	2.00	2.78	2.25	
15	0.50	1.10	10.00	2.99	20.70	18.18	42.86	14.65	8.30	1.95	4.01	3.06	
16	0.50	1.45	8.10	5.45	17.18	16.52	68.90	13.66	7.90	1.90	3.20	3.06	
17	0.46	4.28	6.60	8.10	17.29	15.97	152.76	13.11	7.40	1.85	2.57	3.06	
18	0.42	6.10	5.90	7.90	16.08	14.65	210.87	12.01	7.20	1.85	2.50	3.38	
19	0.38	5.63	5.72	7.30	17.92	12.89	213.32	11.60	6.90	1.90	2.30	3.83	
20	0.38	4.19	6.20	7.90	28.90	18.44	207.00	11.70	6.60	2.05	2.45	3.83	
21	0.38	2.92	7.90	6.70	37.66	26.30	183.00	10.90	5.72	3.65	2.78	3.47	
22	0.38	2.50	13.66	5.09	36.44	27.10	133.46	11.30	5.18	2.92	3.06	4.01	
23	0.38	2.45	10.10	4.10	27.50	29.90	97.70	10.40	4.73	2.64	2.92	5.45	
24	0.38	2.45	5.90	3.83	43.38	32.70	74.74	9.70	4.19	2.25	2.78	3.92	
25	0.38	2.64	7.90	3.29	73.75	38.44	55.30	9.40	4.19	2.05	2.85	3.38	
26	0.34	3.65	7.20	3.06	102.40	60.84	42.86	9.30	4.10	1.90	2.92	2.92	
27	0.30	4.91	6.60	3.13	120.76	78.04	34.54	9.20	4.01	2.10	2.92	2.71	
28	0.26	6.10	6.80	5.81	170.52	63.32	28.70	9.00	3.83	1.95	2.92	2.92	
29	0.22	5.09	6.40	7.40	226.62	52.60	24.70	8.50	3.83	1.85		2.78	
30	0.18	3.65	5.72	19.96	268.20	51.40	22.10	8.30	3.74	1.85		2.50	
31		3.06		44.42	292.52		20.70		3.65	1.85		2.25	
Total	16.79	77.32	174.00	204.76	2243.01	2456.47	2301.34	866.05	212.57	76.31	69.51	89.53	8787.66 CMSDAY
Mean	0.56	2.49	5.80	6.61	72.36	81.88	74.24	28.87	6.86	2.46	2.48	2.89	24.08 CMS
Max	1.25	6.10	13.66	44.42	292.52	305.58	213.32	131.68	9.40	3.65	4.01	5.45	305.58 CMS
Min	0.18	0.22	1.40	2.35	16.08	12.89	20.70	8.30	3.65	1.85	1.40	1.75	0.18 CMS
Runoff	1.451	6.680	15.034	17.691	193.796	212.239	198.836	74.827	18.366	6.593	6.006	7.735	759.254 MCM

Momentary Peak 306.12 CMS, at 9.80 M (MSL), at 6.00 Hours, on Sep 2, 1992
Runoff Yield 4.50 Liters/Second/Square KM, Momentary Peak Yield 57.25 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

Huai Yang at Ban Thung Faek, Prachin Buri (Kgt.14)

Location — Lat. 14-09-30 N., Long. 101-52-52 E., on left bank about 2 kilometers from Kabin Buri-Nakhon Ratchasima highway, Ban Thung Faek, Amphoe Kabin Buri, Prachin Buri.

Drainage Area — 336 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 38 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

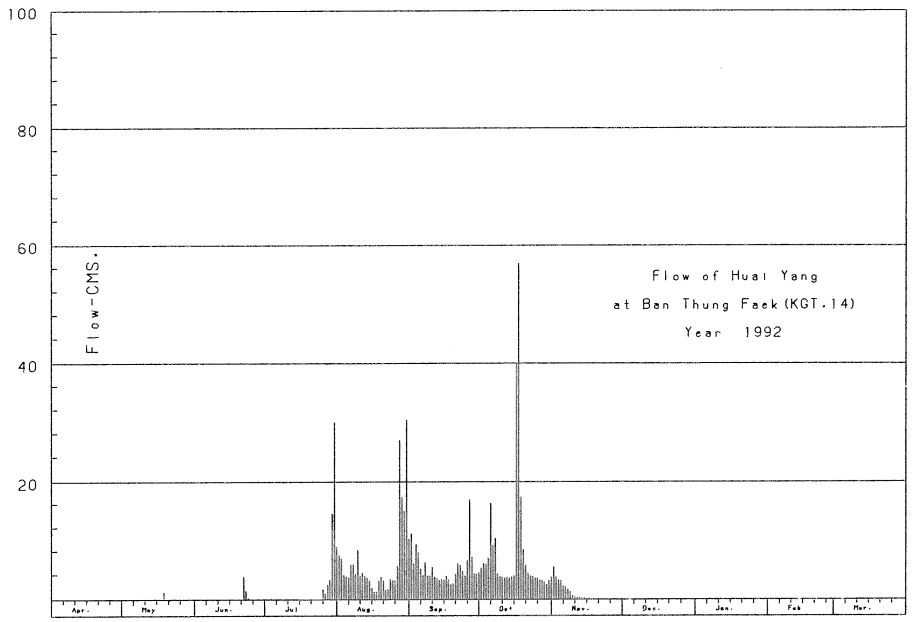
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.79	34.88	34.82	34.94	35.69	35.88	35.55	35.57	34.95	34.89	34.81	34.79	
2	34.78	34.83	34.81	34.99	35.65	35.60	35.61	35.34	34.94	34.89	34.81	34.82	
3	34.77	34.80	34.79	35.05	35.45	35.79	35.59	35.25	34.94	34.88	34.81	34.82	
4	34.77	34.78	34.80	34.99	35.36	35.71	35.66	35.20	34.94	34.88	34.82	34.82	
5	34.77	34.78	34.80	34.93	35.35	35.55	36.13	35.17	34.95	34.88	34.83	34.80	
6	34.77	34.78	34.80	34.88	35.59	35.44	35.77	35.16	34.96	34.88	34.83	34.79	
7	34.77	34.78	34.79	34.86	35.60	35.61	35.84	35.15	34.95	34.88	34.83	34.79	
8	34.77	34.77	34.77	34.84	35.45	35.42	35.46	35.13	34.94	34.87	34.82	34.79	
9	34.78	34.76	34.77	34.84	35.74	35.39	35.38	35.11	34.94	34.87	34.83	34.78	
10	34.78	34.75	34.81	34.86	35.39	35.56	35.34	35.08	34.94	34.86	34.82	34.78	
11	34.78	34.75	35.00	34.87	35.50	35.37	35.33	35.08	34.95	34.86	34.81	34.78	
12	34.78	34.74	34.93	34.85	35.42	35.29	35.34	35.07	34.95	34.86	34.81	34.78	
13	34.78	34.72	34.88	34.83	35.31	35.24	35.32	35.07	34.97	34.86	34.81	34.78	
14	34.78	34.72	34.93	34.85	35.22	35.25	35.34	35.05	34.96	34.86	34.81	34.79	
15	34.77	34.77	35.03	34.96	35.16	35.25	35.41	35.04	34.90	34.86	34.81	34.81	
16	34.77	34.87	34.89	34.96	35.13	35.40	36.94	35.03	34.89	34.86	34.81	34.81	
17	34.78	34.97	34.86	34.91	35.13	35.24	37.40	35.03	34.89	34.86	34.81	34.80	
18	34.79	35.13	34.85	34.88	35.23	35.18	36.17	35.02	34.89	34.86	34.81	34.79	
19	34.79	34.93	34.86	34.86	35.34	35.18	35.74	35.01	34.89	34.86	34.81	34.78	
20	34.79	34.86	34.90	34.85	35.22	35.48	35.58	35.01	34.88	34.86	34.81	34.78	
21	34.78	34.83	35.38	34.85	35.14	35.60	35.48	35.00	34.88	34.86	34.80	34.79	
22	34.77	34.82	35.14	34.82	35.15	35.59	35.41	35.00	34.88	34.86	34.80	34.78	
23	34.77	34.83	35.04	34.84	35.26	35.52	35.36	34.99	34.88	34.86	34.79	34.79	
24	34.77	34.86	34.97	34.84	35.24	35.41	35.33	34.98	34.88	34.85	34.79	34.80	
25	34.77	34.86	34.91	35.15	35.20	35.63	35.29	34.98	34.88	34.85	34.79	34.80	
26	34.77	34.85	34.90	35.12	35.58	36.15	35.25	34.98	34.89	34.83	34.79	34.80	
27	34.77	34.85	34.87	35.18	36.53	35.67	35.22	34.97	34.92	34.83	34.79	34.79	
28	34.76	34.84	34.85	35.23	36.17	35.49	35.19	34.96	34.91	34.82	34.79	34.78	
29	34.75	34.92	34.85	36.05	36.07	35.45	35.18	34.95	34.90	34.82		34.78	
30	34.80	34.90	34.84	36.63	36.64	35.51	35.20	34.95	34.90	34.81		34.80	
31		34.86		35.76	35.83		35.33		34.89	34.81		34.88	
Mean	34.78	34.83	34.89	35.05	35.51	35.49	35.59	35.08	34.92	34.86	34.81	34.80	
Max	34.80	35.13	35.38	36.63	36.64	36.15	37.40	35.57	34.97	34.89	34.83	34.88	37.40
Min	34.75	34.72	34.77	34.82	35.13	35.18	35.18	34.95	34.88	34.81	34.79	34.78	34.72

Annual Max Momentary Gage Height — 37.66 M (MSL), at 1.00 Hours, on Oct 17, 1992

Zero Gage at Bottom Elevation — 34.60 M (MSL), River Bed — 34.22 M (MSL)

Left Bank Elevation — 41.28 M (MSL)

Right Bank Elevation — 41.75 M (MSL), Drainage Area — 336 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	7.53	11.20	5.20	5.52	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	6.85	6.00	6.17	3.71	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.20	4.18	9.41	5.84	3.32	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	3.79	7.89	7.02	3.10	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	3.75	5.20	16.39	2.29	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	5.84	4.14	9.03	2.02	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	6.00	6.17	10.40	1.75	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	4.18	4.05	4.23	1.21	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	8.46	3.92	3.88	0.67	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	3.92	5.36	3.71	0.32	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	4.40	3.84	3.66	0.32	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	4.05	3.49	3.71	0.28	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	3.58	3.27	3.62	0.28	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	3.19	3.32	3.71	0.20	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.12	0.00	2.02	3.32	4.01	0.16	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	1.21	3.97	40.02	0.12	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	1.21	3.27	56.90	0.12	0.00	0.00	0.00	0.00	
18	0.00	1.21	0.00	0.00	3.23	2.56	17.31	0.08	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	3.71	2.56	8.46	0.04	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	3.19	4.31	5.68	0.04	0.00	0.00	0.00	0.00	
21	0.00	0.00	3.88	0.00	1.48	6.00	4.31	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	1.48	0.00	1.75	5.84	4.01	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.16	0.00	3.36	4.72	3.79	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	3.27	4.01	3.66	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	1.75	3.10	6.51	3.49	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.94	5.68	16.85	3.32	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	2.56	27.10	7.19	3.19	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	3.23	17.31	4.36	2.83	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	14.65	15.07	4.18	2.56	0.00	0.00	0.00		0.00	
30	0.00	0.00	0.00	30.13	30.44	4.56	3.10	0.00	0.00	0.00		0.00	
31		0.00		8.84	10.20		3.66		0.00	0.00		0.00	
Total	0.00	1.21	5.64	62.30	203.05	161.47	256.87	25.55	0.00	0.00	0.00	0.00	716.09 CMSDAY
Mean	0.00	0.04	0.19	2.01	6.55	5.38	8.29	0.85	0.00	0.00	0.00	0.00	1.96 CMS
Max	0.00	1.21	3.88	30.13	30.44	16.85	56.90	5.52	0.00	0.00	0.00	0.00	56.90 CMS
Min	0.00	0.00	0.00	0.00	1.21	2.56	2.56	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.105	0.487	5.383	17.544	13.951	22.194	2.208	0.000	0.000	0.000	0.000	61.870 MCM

Momentary Peak 67.04 CMS, at 37.66 M (MSL), at 1.00 Hours, on Oct 17, 1992
Runoff Yield 5.84 Liters/Second/Square KM, Momentary Peak Yield 199.52 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

Huai Samong at Ban Kaeng Din So, Prachin Buri (Kgt.15A)

Location — Lat. 14°-03'-46" N., Long. 101°-55'-39" E., on right bank at Ban Kaeng Din So about 1 kilometer upstream from the Kgt.15 station, Amphoe Kabin Buri, Prachin Buri.

Drainage Area — 530 sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +0.00 m. (A.D.)

Bench Mark — B.M.-H.D.

Location — Infront of the station office and near the rain gage.

Elevation — +9.615 m. (A.D.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1968 to date.

Rating Operation

Period of Rating — 1968 to date.

Rated by Float — -

Rated by Current Meter — 1968 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 70 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

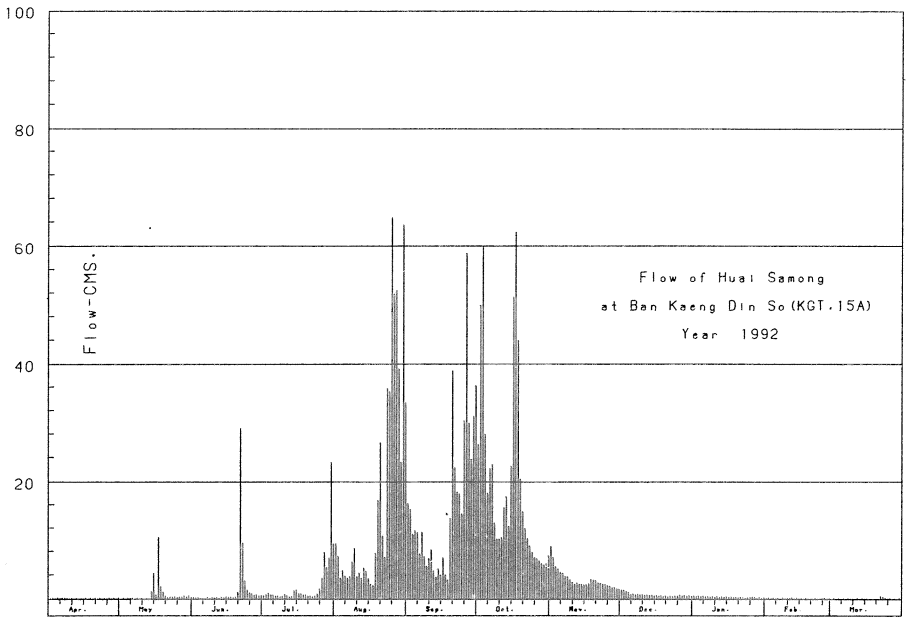
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.58	0.57	0.62	0.69	1.66	2.02	2.43	1.63	0.92	0.70	0.60	0.57	
2	0.58	0.56	0.61	0.77	1.51	1.97	3.15	1.49	0.91	0.70	0.59	0.57	
3	0.58	0.56	0.60	0.80	1.17	1.76	3.41	1.37	0.89	0.70	0.60	0.57	
4	0.58	0.57	0.60	0.77	1.29	1.79	2.49	1.32	0.84	0.70	0.59	0.56	
5	0.58	0.57	0.59	0.73	1.20	1.77	2.10	1.28	0.79	0.69	0.58	0.56	
6	0.58	0.57	0.60	0.71	1.17	1.54	2.27	1.25	0.78	0.68	0.58	0.56	
7	0.58	0.57	0.61	0.68	1.19	1.78	2.30	1.21	0.77	0.67	0.58	0.55	
8	0.58	0.57	0.60	0.67	1.43	1.50	1.86	1.19	0.77	0.67	0.59	0.55	
9	0.57	0.56	0.60	0.66	1.60	1.37	1.71	1.15	0.77	0.67	0.59	0.57	
10	0.56	0.56	0.60	0.78	1.20	1.47	1.71	1.08	0.76	0.66	0.59	0.57	
11	0.56	0.55	0.59	0.69	1.25	1.59	1.72	1.06	0.75	0.66	0.59	0.56	
12	0.56	0.55	0.60	0.66	1.16	1.29	1.99	1.07	0.74	0.65	0.58	0.56	
13	0.55	0.55	0.62	0.65	1.34	1.19	2.07	1.06	0.74	0.65	0.57	0.57	
14	0.55	0.88	0.62	0.90	1.28	1.32	1.83	1.04	0.73	0.65	0.57	0.57	
15	0.57	1.25	0.64	0.91	1.16	1.22	2.29	1.04	0.73	0.65	0.57	0.59	
16	0.58	0.73	0.64	0.80	1.04	1.49	3.19	1.03	0.72	0.65	0.57	0.58	
17	0.57	1.73	0.64	0.78	1.02	1.23	3.47	1.07	0.72	0.64	0.57	0.56	
18	0.57	0.99	0.63	0.75	1.54	1.13	2.99	1.14	0.71	0.64	0.57	0.52	
19	0.57	0.86	0.63	0.73	2.04	1.90	2.20	1.14	0.70	0.63	0.57	0.53	
20	0.57	0.68	0.83	0.70	2.44	2.84	1.96	1.12	0.70	0.63	0.57	0.52	
21	0.57	0.64	2.53	0.68	1.74	2.28	1.81	1.09	0.69	0.63	0.57	0.56	
22	0.57	0.63	1.67	0.67	1.49	2.11	1.72	1.06	0.69	0.63	0.57	0.68	
23	0.56	0.65	1.11	0.67	2.75	2.09	1.63	1.06	0.69	0.55	0.57	0.66	
24	0.56	0.64	0.92	0.79	2.73	1.94	1.56	1.04	0.69	0.63	0.57	0.58	
25	0.57	0.64	0.84	0.93	3.53	2.57	1.50	1.03	0.72	0.65	0.57	0.56	
26	0.57	0.62	0.78	1.17	3.20	3.38	1.47	1.00	0.73	0.64	0.57	0.54	
27	0.57	0.66	0.74	1.55	3.22	2.56	1.45	0.98	0.72	0.62	0.57	0.50	
28	0.57	0.69	0.73	1.34	2.85	2.33	1.40	0.97	0.72	0.61	0.57	0.57	
29	0.57	0.67	0.71	1.49	2.31	2.60	1.39	0.95	0.71	0.61		0.56	
30	0.56	0.70	0.70	2.31	3.50	2.76	1.40	0.93	0.71	0.60		0.60	
31		0.64		1.65	2.67		1.51		0.71	0.60		0.59	
Mean	0.57	0.70	0.77	0.91	1.86	1.89	2.06	1.13	0.75	0.65	0.58	0.57	
Max	0.58	1.73	2.53	2.31	3.53	3.38	3.47	1.63	0.92	0.70	0.60	0.68	3.53
Min	0.55	0.55	0.59	0.65	1.02	1.13	1.39	0.93	0.69	0.55	0.57	0.50	0.50

Annual Max Momentary Gage Height — 3.84 M (A.D), at 4.00 Hours, on Jun 21, 1992

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

Left Bank Elevation — 11.63 M (A.D)

Right Bank Elevation — 9.47 M (A.D), Drainage Area 530 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.24	0.36	0.57	9.50	16.34	26.41	9.05	1.64	0.60	0.30	0.24	
2	0.26	0.22	0.33	0.88	7.34	15.24	50.00	7.08	1.57	0.60	0.28	0.24	
3	0.26	0.22	0.30	1.00	3.63	11.12	60.01	5.67	1.45	0.60	0.30	0.24	
4	0.26	0.24	0.30	0.88	4.80	11.63	28.03	5.12	1.20	0.60	0.28	0.22	
5	0.26	0.24	0.28	0.72	3.90	11.29	18.10	4.70	0.96	0.57	0.26	0.22	
6	0.26	0.24	0.30	0.64	3.63	7.76	22.22	4.40	0.92	0.54	0.26	0.22	
7	0.26	0.24	0.33	0.54	3.81	11.46	23.00	4.00	0.88	0.51	0.26	0.20	
8	0.26	0.24	0.30	0.51	6.36	7.20	12.94	3.81	0.88	0.51	0.28	0.20	
9	0.24	0.22	0.30	0.48	8.60	5.67	10.27	3.45	0.88	0.51	0.28	0.24	
10	0.22	0.22	0.30	0.92	3.90	6.84	10.27	2.84	0.84	0.48	0.28	0.24	
11	0.22	0.20	0.28	0.57	4.40	8.46	10.44	2.68	0.80	0.48	0.28	0.22	
12	0.22	0.20	0.30	0.48	3.54	4.80	15.68	2.76	0.76	0.45	0.26	0.22	
13	0.20	0.20	0.36	0.45	5.34	3.81	17.44	2.68	0.76	0.45	0.24	0.24	
14	0.20	1.40	0.36	1.50	4.70	5.12	12.37	2.52	0.72	0.45	0.24	0.24	
15	0.24	4.40	0.42	1.57	3.54	4.10	22.74	2.52	0.72	0.45	0.24	0.28	
16	0.26	0.72	0.42	1.00	2.52	7.08	51.52	2.44	0.68	0.45	0.24	0.26	
17	0.24	10.61	0.42	0.92	2.36	4.20	62.47	2.76	0.68	0.42	0.24	0.22	
18	0.24	2.13	0.39	0.80	7.76	3.27	44.15	3.36	0.64	0.42	0.24	0.14	
19	0.24	1.30	0.39	0.72	16.78	13.70	20.40	3.36	0.60	0.39	0.24	0.16	
20	0.24	0.54	1.15	0.60	26.68	38.96	15.02	3.18	0.60	0.39	0.24	0.14	
21	0.24	0.42	29.17	0.54	10.78	22.48	11.99	2.92	0.57	0.39	0.24	0.22	
22	0.24	0.39	9.65	0.51	7.08	18.33	10.44	2.68	0.57	0.39	0.24	0.54	
23	0.22	0.45	3.09	0.51	35.95	17.88	9.05	2.68	0.57	0.20	0.24	0.48	
24	0.22	0.42	1.64	0.96	35.29	14.58	8.04	2.52	0.57	0.39	0.24	0.26	
25	0.24	0.42	1.20	1.71	65.02	30.33	7.20	2.44	0.68	0.45	0.24	0.22	
26	0.24	0.36	0.92	3.63	51.90	58.82	6.84	2.20	0.72	0.42	0.24	0.18	
27	0.24	0.48	0.76	7.90	52.66	30.04	6.60	2.06	0.68	0.36	0.24	0.10	
28	0.24	0.57	0.72	5.34	39.30	23.78	6.00	1.99	0.68	0.33	0.24	0.24	
29	0.24	0.51	0.64	7.08	23.26	31.20	5.89	1.85	0.64	0.33		0.22	
30	0.22	0.60	0.60	23.26	63.70	36.28	6.00	1.71	0.64	0.30		0.30	
31		0.42		9.35	33.37		7.34		0.64	0.30		0.28	
Total	7.18	29.06	55.98	76.54	551.40	481.77	618.87	101.43	25.14	13.73	7.16	7.42	1975.68 CMSDAY
Mean	0.24	0.94	1.87	2.47	17.79	16.06	19.96	3.38	0.81	0.44	0.26	0.24	5.41 CMS
Max	0.26	10.61	29.17	23.26	65.02	58.82	62.47	9.05	1.64	0.60	0.30	0.54	65.02 CMS
Min	0.20	0.20	0.28	0.45	2.36	3.27	5.89	1.71	0.57	0.20	0.24	0.10	0.10 CMS
Runoff	0.620	2.511	4.837	6.613	47.641	41.625	53.470	8.764	2.172	1.186	0.619	0.641	170.699 MCM

Momentary Peak 79.44 CMS, at 3.84 M (A.D), at 4.00 Hours, on Jun 21, 1992

Runoff Yield 10.21 Liters/Second/Square KM, Momentary Peak Yield 149.89 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

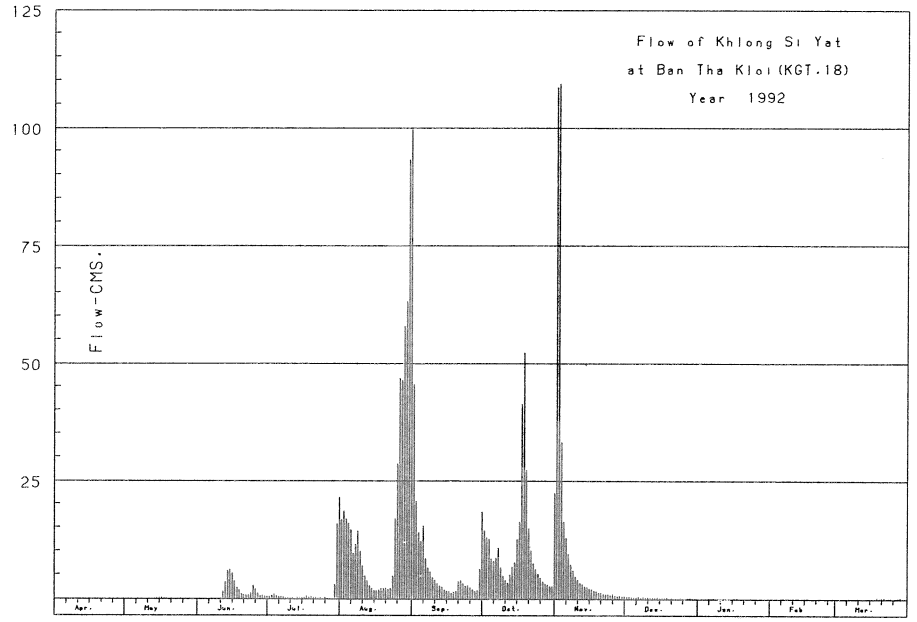
Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt.18)

Location	Lat. 13°28'29" N., Long. 101°37'44" E., on left bank at Ban Tha Kloi, King Amphoe Tha Takiap, Chachoengsao.
Drainage Area	951 sq.km.
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	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 40.27 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 78 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.96	34.80	35.07	35.42	37.27	38.64	37.12	40.35	35.44	35.24	35.05	35.03	
2	34.95	34.80	35.05	35.55	37.39	37.52	37.00	40.37	35.42	35.21	35.05	35.03	
3	34.95	34.80	35.04	35.60	37.29	37.09	36.99	38.16	35.41	35.19	35.05	35.05	
4	34.95	34.80	35.04	35.53	37.22	36.94	36.64	37.24	35.39	35.17	35.05	35.05	
5	34.96	34.80	35.04	35.46	37.13	37.18	36.59	37.01	35.38	35.16	35.05	35.05	
6	34.95	34.77	35.06	35.38	36.75	36.66	36.67	36.73	35.36	35.16	35.05	35.05	
7	34.95	34.77	35.05	35.33	36.89	36.46	36.83	36.53	35.35	35.15	35.05	35.06	
8	34.94	34.77	35.04	35.25	37.10	36.33	36.46	36.37	35.34	35.15	35.05	35.07	
9	34.94	34.77	35.04	35.24	36.79	36.20	36.24	36.22	35.34	35.13	35.05	35.08	
10	34.92	34.76	35.25	35.22	36.49	36.11	36.11	36.12	35.32	35.13	35.05	35.08	
11	34.91	34.75	35.75	35.21	36.24	36.01	36.05	36.05	35.32	35.12	35.05	35.05	
12	34.90	34.75	36.08	35.25	36.10	35.95	36.25	35.99	35.32	35.12	35.05	35.05	
13	34.90	35.21	36.38	35.27	35.96	35.89	36.46	35.93	35.31	35.11	35.05	35.05	
14	34.90	35.29	36.39	35.32	35.84	35.81	36.58	35.89	35.30	35.11	35.04	35.05	
15	34.90	35.34	36.31	35.28	35.79	35.76	36.98	35.85	35.30	35.10	35.04	35.07	
16	34.89	35.24	36.08	35.32	35.76	35.73	37.25	35.81	35.29	35.10	35.04	35.20	
17	34.89	35.20	35.89	35.46	35.81	35.69	38.48	35.78	35.28	35.09	35.04	35.31	
18	34.88	35.20	35.78	35.39	35.84	35.71	38.88	35.74	35.25	35.08	35.04	35.28	
19	34.87	35.25	35.65	35.41	35.85	35.76	37.88	35.71	35.24	35.08	35.04	35.27	
20	34.87	35.23	35.55	35.34	35.85	36.07	37.14	35.67	35.24	35.08	35.03	35.24	
21	34.87	35.17	35.53	35.27	35.80	36.12	36.79	35.65	35.20	35.08	35.03	35.24	
22	34.87	35.15	35.58	35.22	35.86	36.01	36.56	35.62	35.20	35.07	35.03	35.22	
23	34.86	35.15	35.65	35.21	36.24	35.95	36.40	35.59	35.19	35.07	35.03	35.21	
24	34.85	35.13	35.96	35.21	37.29	35.94	36.29	35.58	35.20	35.07	35.03	35.16	
25	34.85	35.12	35.81	35.18	37.95	35.87	36.17	35.61	35.23	35.07	35.03	35.12	
26	34.84	35.12	35.67	35.15	38.68	35.82	36.09	35.52	35.23	35.07	35.03	35.17	
27	34.82	35.11	35.51	35.14	38.67	35.76	36.02	35.51	35.22	35.06	35.03	35.25	
28	34.81	35.10	35.52	35.14	39.06	35.77	35.97	35.49	35.20	35.06	35.03	35.22	
29	34.81	35.08	35.49	36.00	39.23	36.42	35.94	35.48	35.20	35.06		35.20	
30	34.81	35.08	35.42	37.22	40.02	37.39	35.91	35.45	35.20	35.06		35.15	
31		35.08		37.58	40.17		37.63		35.20	35.06		35.15	
Mean	34.89	35.02	35.56	35.47	37.04	36.29	36.72	36.30	35.29	35.11	35.04	35.14	
Max	34.96	35.34	36.39	37.58	40.17	38.64	38.88	40.37	35.44	35.24	35.05	35.31	40.37
Min	34.81	34.75	35.04	35.14	35.76	35.69	35.91	35.45	35.19	35.06	35.03	35.03	34.75

Annual Max Momentary Gage Height 40.59 M (MSL), at 6.00 Hours, on Nov 2, 1992
Zero Gage at Bottom Elevation 34.20 M (MSL), River Bed 34.07 M (MSL)
Left Bank Elevation 41.63 M (MSL)
Right Bank Elevation 40.26 M (MSL), Drainage Area 951 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.07	0.44	16.75	45.62	14.58	108.50	0.48	0.24	0.05	0.03	
2	0.00	0.00	0.05	0.75	18.55	20.64	12.90	109.50	0.44	0.21	0.05	0.03	
3	0.00	0.00	0.04	0.90	17.05	14.16	12.77	33.38	0.42	0.19	0.05	0.05	
4	0.00	0.00	0.04	0.69	16.00	12.12	8.44	16.30	0.39	0.17	0.05	0.05	
5	0.00	0.00	0.04	0.52	14.72	15.42	7.90	13.04	0.38	0.16	0.05	0.05	
6	0.00	0.00	0.06	0.38	9.70	8.66	8.77	9.46	0.36	0.16	0.05	0.05	
7	0.00	0.00	0.05	0.33	11.47	6.68	10.69	7.30	0.35	0.15	0.05	0.06	
8	0.00	0.00	0.04	0.25	14.30	5.64	6.68	5.96	0.34	0.15	0.05	0.07	
9	0.00	0.00	0.04	0.24	10.18	4.60	4.92	4.76	0.34	0.13	0.05	0.08	
10	0.00	0.00	0.25	0.22	6.92	3.88	3.88	3.96	0.32	0.13	0.05	0.08	
11	0.00	0.00	1.60	0.21	4.92	3.17	3.45	3.45	0.32	0.12	0.05	0.05	
12	0.00	0.00	3.66	0.25	3.80	2.80	5.00	3.04	0.32	0.12	0.05	0.05	
13	0.00	0.21	6.04	0.27	2.86	2.44	6.68	2.68	0.31	0.11	0.05	0.05	
14	0.00	0.29	6.12	0.32	2.14	1.96	7.80	2.44	0.30	0.11	0.04	0.05	
15	0.00	0.34	5.48	0.28	1.84	1.66	12.64	2.20	0.30	0.10	0.04	0.07	
16	0.00	0.24	3.66	0.32	1.66	1.48	16.45	1.96	0.29	0.10	0.04	0.20	
17	0.00	0.20	2.44	0.52	1.96	1.26	41.28	1.78	0.28	0.09	0.04	0.31	
18	0.00	0.20	1.78	0.39	2.14	1.36	52.42	1.54	0.25	0.08	0.04	0.28	
19	0.00	0.25	1.10	0.42	2.20	1.66	27.30	1.36	0.24	0.08	0.04	0.27	
20	0.00	0.23	0.75	0.34	2.20	3.59	14.86	1.18	0.24	0.08	0.03	0.24	
21	0.00	0.17	0.69	0.27	1.90	3.96	10.18	1.10	0.20	0.08	0.03	0.24	
22	0.00	0.15	0.84	0.22	2.26	3.17	7.60	0.98	0.20	0.07	0.03	0.22	
23	0.00	0.15	1.10	0.21	4.92	2.80	6.20	0.87	0.19	0.07	0.03	0.21	
24	0.00	0.13	2.86	0.21	17.05	2.74	5.32	0.84	0.20	0.07	0.03	0.16	
25	0.00	0.12	1.96	0.18	28.75	2.32	4.36	0.94	0.23	0.07	0.03	0.12	
26	0.00	0.12	1.18	0.15	46.74	2.02	3.73	0.66	0.23	0.07	0.03	0.17	
27	0.00	0.11	0.63	0.14	46.46	1.66	3.24	0.63	0.22	0.06	0.03	0.25	
28	0.00	0.10	0.66	0.14	57.86	1.72	2.92	0.58	0.20	0.06	0.03	0.22	
29	0.00	0.08	0.58	3.10	63.29	6.36	2.74	0.56	0.20	0.06		0.20	
30	0.00	0.08	0.44	16.00	93.26	18.55	2.56	0.50	0.20	0.06		0.15	
31		0.08		21.66	99.85		22.54		0.20	0.06		0.15	
Total	0.00	3.25	44.25	50.32	623.70	204.10	350.80	341.45	8.94	3.41	1.16	4.21	1635.59 CMSDAY
Mean	0.00	0.10	1.48	1.62	20.12	6.80	11.32	11.38	0.29	0.11	0.04	0.14	4.48 CMS
Max	0.00	0.34	6.12	21.66	99.85	45.62	52.42	109.50	0.48	0.24	0.05	0.31	109.50 CMS
Min	0.00	0.00	0.04	0.14	1.66	1.26	2.56	0.50	0.19	0.06	0.03	0.03	0.00 CMS
Runoff	0.000	0.281	3.823	4.348	53.888	17.634	30.309	29.501	0.772	0.295	0.100	0.364	141.315 MCM

Momentary Peak 120.95 CMS, at 40.59 M (MSL), at 6.00 Hours, on Nov 2, 1992

Runoff Yield 4.71 Liters/Second/Square KM, Momentary Peak Yield 127.18 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

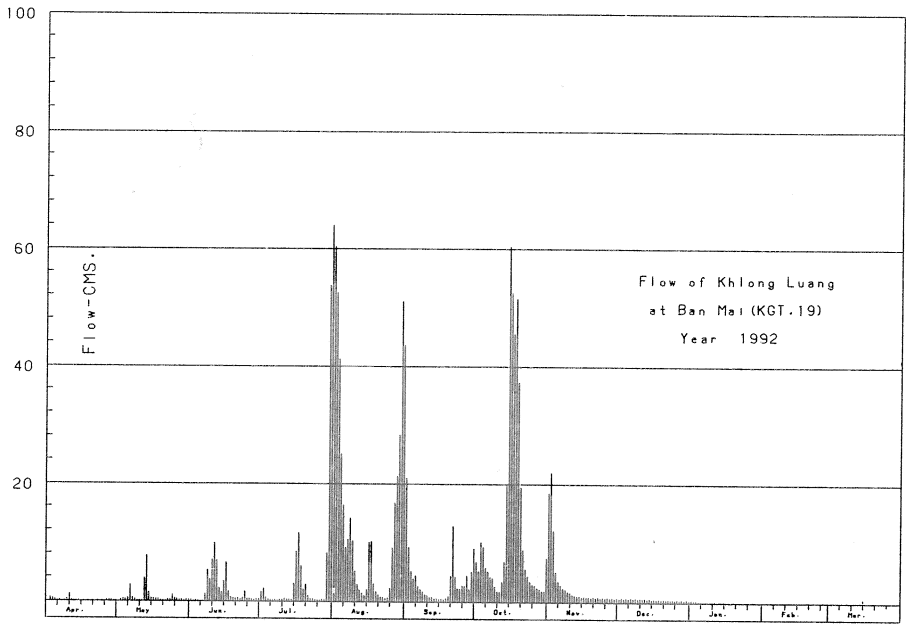
Khlong Luang at Ban Mai, Chon Buri (Kgt.19)

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	+20.124 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Beside the Meteorological station.
Elevation	+25.658 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965 - 1974, 1987 to date.
Rated by Float	-
Rated by Current Meter	1965 - 1974, 1987 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +22.04 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 59 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.52	20.60	20.71	21.37	25.60	24.09	22.43	23.86	21.05	20.74	20.56	20.54	
2	21.00	20.70	20.66	21.55	25.46	22.78	22.17	24.18	21.05	20.75	20.54	20.53	
3	20.94	20.96	20.64	21.04	25.18	22.16	22.88	23.14	21.04	20.72	20.54	20.53	
4	20.68	20.75	20.63	20.85	24.43	21.90	22.79	22.13	21.04	20.69	20.54	20.53	
5	20.64	21.02	20.62	20.77	23.62	22.03	22.25	21.84	21.04	20.64	20.54	20.53	
6	20.60	21.66	20.62	20.75	22.77	21.63	22.16	21.68	21.04	20.65	20.56	20.53	
7	20.60	21.06	21.28	20.72	22.93	21.53	21.96	21.58	21.04	20.65	20.56	20.53	
8	20.59	20.75	22.19	20.70	23.39	21.41	21.95	21.50	21.04	20.60	20.54	20.52	
9	20.83	20.68	21.86	20.70	22.92	21.31	21.62	21.44	21.02	20.60	20.54	20.52	
10	21.30	20.65	22.47	20.81	22.14	21.23	21.44	21.37	21.02	20.61	20.52	20.52	
11	20.70	20.66	22.85	20.89	21.72	21.13	21.39	21.31	21.02	20.58	20.52	20.51	
12	20.63	21.93	22.43	20.83	21.47	21.09	21.82	21.24	21.01	20.58	20.52	20.51	
13	20.60	22.57	21.56	20.74	21.33	21.03	22.43	21.24	20.99	20.60	20.52	20.50	
14	20.58	21.34	21.35	20.80	21.24	20.97	23.99	21.21	20.98	20.61	20.52	20.56	
15	20.56	21.00	21.80	21.75	21.51	20.92	25.60	21.16	20.95	20.64	20.53	21.05	
16	20.56	20.88	22.40	22.65	22.87	20.89	25.46	21.16	20.92	20.61	20.54	21.80	
17	20.54	20.92	21.43	23.08	22.90	20.87	25.29	21.16	20.92	20.59	20.54	21.35	
18	20.54	20.80	21.09	22.31	21.73	20.98	25.44	21.13	20.90	20.58	20.53	21.14	
19	20.52	20.73	20.95	21.49	21.42	21.21	25.05	21.12	20.87	20.58	20.54	21.09	
20	20.52	20.69	20.97	21.72	21.26	21.99	23.96	21.12	20.88	20.60	20.54	21.09	
21	20.53	20.69	20.98	21.18	21.15	23.23	22.70	21.11	20.87	20.56	20.53	21.08	
22	20.58	20.71	20.89	20.93	21.07	21.97	22.23	21.11	20.85	20.56	20.53	21.06	
23	20.59	20.83	21.00	20.84	21.03	21.57	21.99	21.10	20.84	20.56	20.52	21.06	
24	20.57	21.24	21.41	20.81	21.04	21.53	21.83	21.08	20.80	20.57	20.52	21.06	
25	20.58	20.99	20.99	20.76	21.54	21.68	21.73	21.08	20.80	20.58	20.53	21.05	
26	20.71	20.79	20.85	20.75	22.75	21.64	21.66	21.07	20.81	20.58	20.53	21.04	
27	20.75	20.76	20.80	20.77	23.68	22.03	21.60	21.07	20.80	20.54	20.53	21.03	
28	20.64	20.71	20.80	20.82	24.13	21.52	21.51	21.06	20.79	20.55	20.54	21.02	
29	20.62	20.71	20.82	22.62	24.66	22.13	21.46	21.04	20.80	20.57		21.00	
30	20.60	20.71	20.90	25.49	25.43	22.73	21.43	21.04	20.80	20.56		20.95	
31		20.77		25.64	25.24		22.50		20.78	20.56		20.95	
Mean	20.65	20.94	21.27	21.49	22.83	21.71	22.67	21.51	20.93	20.61	20.53	20.84	
Max	21.30	22.57	22.85	25.64	25.60	24.09	25.60	24.18	21.05	20.75	20.56	21.80	25.64
Min	20.52	20.60	20.62	20.70	21.03	20.87	21.39	21.04	20.78	20.54	20.52	20.50	20.50

Annual Max Momentary Gage Height 25.77 M (MSL), at 14.00 Hours, on Jul 30, 1992
Zero Gage at Bottom Elevation 20.12 M (MSL), River Bed 20.46 M (MSL)
Left Bank Elevation 22.03 M (MSL)
Right Bank Elevation 23.64 M (MSL), Drainage Area 535 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.120	0.200	0.310	1.580	60.500	20.990	6.910	18.600	0.700	0.340	0.160	0.140	
2	0.600	0.300	0.260	2.300	52.500	9.360	5.320	21.980	0.700	0.350	0.140	0.130	
3	0.540	0.560	0.240	0.680	41.340	5.260	10.140	12.220	0.680	0.320	0.140	0.130	
4	0.280	0.350	0.230	0.450	25.090	3.900	9.430	5.080	0.680	0.290	0.140	0.130	
5	0.240	0.640	0.220	0.370	16.380	4.550	5.800	3.600	0.680	0.240	0.140	0.130	
6	0.200	2.740	0.220	0.350	9.290	2.620	5.260	2.820	0.680	0.250	0.160	0.130	
7	0.200	0.720	1.240	0.320	10.540	2.220	4.200	2.420	0.680	0.250	0.160	0.130	
8	0.190	0.350	5.440	0.300	14.310	1.740	4.150	2.100	0.680	0.200	0.140	0.120	
9	0.430	0.280	3.700	0.300	10.460	1.340	2.580	1.860	0.640	0.200	0.140	0.120	
10	1.300	0.250	7.190	0.410	5.140	1.090	1.860	1.580	0.640	0.210	0.120	0.120	
11	0.300	0.260	9.900	0.490	3.000	0.860	1.660	1.340	0.640	0.180	0.120	0.110	
12	0.230	4.050	6.910	0.430	1.980	0.780	3.500	1.120	0.620	0.180	0.120	0.110	
13	0.200	7.890	2.340	0.340	1.420	0.660	6.910	1.120	0.590	0.200	0.120	0.100	
14	0.180	1.460	1.500	0.400	1.120	0.570	19.900	1.030	0.580	0.210	0.120	0.160	
15	0.160	0.600	3.400	3.150	2.140	0.520	60.500	0.920	0.550	0.240	0.130	0.700	
16	0.160	0.480	6.700	8.450	10.060	0.490	52.500	0.920	0.520	0.210	0.140	0.000	
17	0.140	0.520	1.820	11.740	10.300	0.470	45.510	0.920	0.520	0.190	0.140	0.000	
18	0.140	0.400	0.780	6.160	3.050	0.580	51.600	0.860	0.500	0.180	0.130	0.000	
19	0.120	0.330	0.550	2.060	1.780	1.030	37.350	0.840	0.470	0.180	0.140	0.000	
20	0.120	0.290	0.570	3.000	1.180	4.350	19.600	0.840	0.480	0.200	0.140	0.000	
21	0.130	0.290	0.580	0.960	0.900	12.940	8.800	0.820	0.470	0.160	0.130	0.000	
22	0.180	0.310	0.490	0.530	0.740	4.250	5.680	0.820	0.450	0.160	0.130	0.000	
23	0.190	0.430	0.600	0.440	0.660	2.380	4.350	0.800	0.440	0.160	0.120	0.000	
24	0.170	1.120	1.740	0.410	0.680	2.220	3.550	0.760	0.400	0.170	0.120	0.000	
25	0.180	0.590	0.590	0.360	2.260	2.820	3.050	0.760	0.400	0.180	0.130	0.000	
26	0.310	0.390	0.450	0.350	9.150	2.660	2.740	0.740	0.410	0.180	0.130	0.000	
27	0.350	0.360	0.400	0.370	16.920	4.550	2.500	0.740	0.400	0.140	0.130	0.000	
28	0.240	0.310	0.400	0.420	21.430	2.180	2.140	0.720	0.390	0.150	0.140	0.000	
29	0.220	0.310	0.420	8.240	28.360	5.080	1.940	0.680	0.400	0.170		0.000	
30	0.200	0.310	0.500	53.850	51.150	9.010	1.820	0.680	0.400	0.160		0.000	
31		0.370		64.020	43.560		7.400		0.380	0.160		0.000	
Total	8.020	27.460	59.690	173.230	457.390	111.470	398.650	89.690	16.770	6.410	3.770	2.460	1355.010 CMSDAY
Mean	0.267	0.886	1.990	5.588	14.755	3.716	12.860	2.990	0.541	0.207	0.135	0.079	3.712 CMS
Max	1.300	7.890	9.900	64.020	60.500	20.990	60.500	21.980	0.700	0.350	0.160	0.700	64.020 CMS
Min	0.120	0.200	0.220	0.300	0.660	0.470	1.660	0.680	0.380	0.140	0.120	0.000	0.000 CMS
Runoff	0.693	2.373	5.157	14.967	39.518	9.631	34.443	7.749	1.449	0.554	0.326	0.213	117.073 MCM

Momentary Peak 83.79 CMS, at 25.77 M (MSL), at 14.00 Hours, on Jul 30, 1992
Runoff Yield 6.94 Liters/Second/Square KM, Momentary Peak Yield 156.62 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

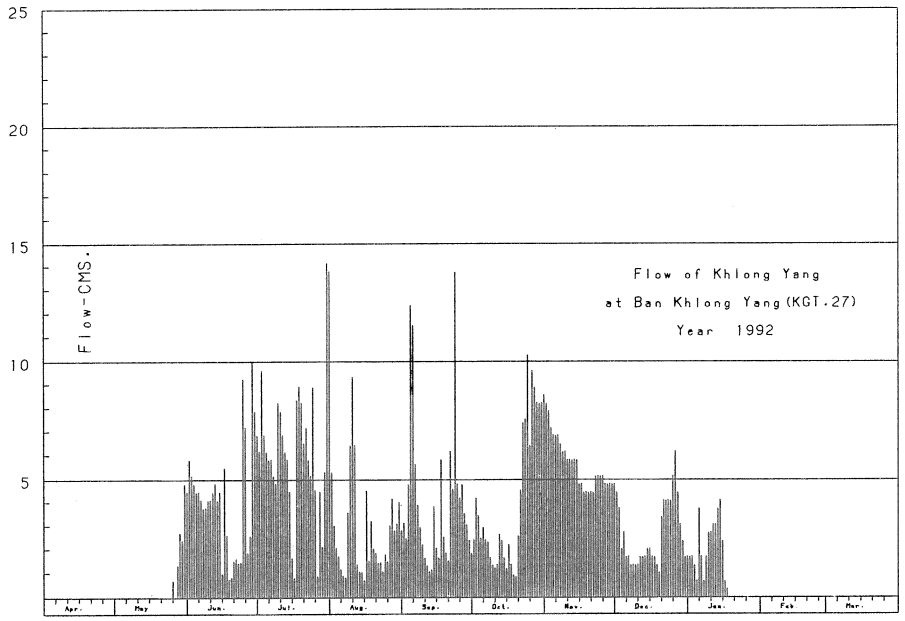
Khlong Yang at Ban Khlong Yang, Nakhon Nayok (Kgt.27)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.38	11.38	11.87	11.88	12.71	12.48	12.39	11.94	11.83	11.75	11.62	11.50	
2	11.38	11.38	11.85	11.98	12.47	12.40	12.60	11.93	11.81	11.75	11.62	11.50	
3	11.38	11.38	11.84	11.90	12.34	12.66	12.52	11.91	11.76	11.74	11.61	11.50	
4	11.38	11.38	11.83	11.88	12.29	13.21	12.40	11.90	11.78	11.72	11.61	11.50	
5	11.38	11.38	11.83	11.87	12.20	13.16	12.46	11.90	11.75	11.81	11.60	11.50	
6	11.38	11.38	11.82	11.87	12.14	12.74	12.39	11.90	11.75	11.75	11.60	11.50	
7	11.38	11.38	11.81	11.85	12.13	12.57	12.38	11.89	11.74	11.72	11.59	11.50	
8	11.38	11.38	11.81	11.84	12.07	12.46	12.28	11.88	11.74	11.75	11.59	11.50	
9	11.38	11.38	11.82	11.94	12.04	12.36	12.23	11.88	11.74	11.78	11.58	11.50	
10	11.38	11.38	11.82	11.93	12.01	12.28	12.21	11.87	11.74	11.78	11.58	11.50	
11	11.38	11.38	11.83	11.90	12.04	12.22	12.23	11.87	11.75	11.79	11.57	11.50	
12	11.38	11.38	11.84	11.88	12.23	12.18	12.42	11.87	11.75	11.79	11.57	11.50	
13	11.38	11.38	11.82	11.87	12.18	12.19	12.39	11.87	11.75	11.81	11.56	11.50	
14	11.38	11.38	11.83	12.63	12.17	12.56	12.28	11.87	11.76	11.82	11.56	11.50	
15	11.38	11.38	12.16	12.28	12.10	12.34	12.20	11.84	11.76	11.77	11.55	11.50	
16	11.38	11.38	12.05	12.12	12.06	12.28	12.36	11.84	11.75	11.72	11.55	11.50	
17	11.38	11.38	12.08	12.02	12.26	12.76	12.23	11.83	11.75	11.71	11.54	11.50	
18	11.38	11.38	12.11	11.96	12.49	12.41	12.15	11.83	11.74	11.68	11.54	11.50	
19	11.38	11.38	12.13	11.94	12.34	12.31	12.13	11.83	11.73	11.67	11.53	11.50	
20	11.38	11.38	12.26	11.89	12.31	12.26	12.08	11.83	11.80	11.67	11.53	11.50	
21	11.38	11.38	12.27	11.91	12.24	12.79	12.06	11.83	11.82	11.66	11.53	11.50	
22	11.38	11.38	12.24	11.87	12.25	12.64	12.03	11.85	11.82	11.66	11.52	11.50	
23	11.38	11.38	12.25	11.85	12.18	13.29	11.92	11.85	11.82	11.66	11.52	11.50	
24	11.38	11.38	11.97	11.96	12.30	12.66	12.00	11.85	11.82	11.66	11.50	11.50	
25	11.38	11.72	11.91	12.06	12.25	12.60	12.04	11.85	11.85	11.66	11.50	11.50	
26	11.38	11.70	12.31	12.14	12.47	12.66	11.98	11.84	11.88	11.65	11.50	11.50	
27	11.38	11.74	12.08	12.63	12.60	12.53	11.96	11.84	11.83	11.65	11.50	11.50	
28	11.38	11.78	11.99	12.35	12.44	12.47	11.94	11.84	11.79	11.65	11.50	11.50	
29	11.38	11.77	11.93	12.71	12.48	12.39	11.94	11.84	11.77	11.64		11.50	
30	11.38	11.84	11.90	13.31	12.58	12.31	11.94	11.84	11.75	11.63		11.50	
31		11.83		13.29	12.44		11.95		11.75	11.62		11.50	
Mean	11.38	11.47	11.98	12.11	12.28	12.54	12.20	11.86	11.78	11.71	11.56	11.50	
Max	11.38	11.84	12.31	13.31	12.71	13.29	12.60	11.94	11.88	11.82	11.62	11.50	13.31
Min	11.38	11.38	11.81	11.84	12.01	12.18	11.92	11.83	11.73	11.62	11.50	11.50	11.38

Annual Max Momentary Gage Height 13.92 M (MSL), at 3.00 Hours, on Sep 23, 1992
Zero Gage at Bottom Elevation 11.50 M (MSL), River Bed 10.97 M (MSL)
Left Bank Elevation 16.18 M (MSL)
Right Bank Elevation 15.06 M (MSL), Drainage Area 45 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	5.84	6.18	5.31	3.14	2.43	8.24	4.46	1.72	0.00	0.00	
2	0.00	0.00	5.15	9.61	3.06	2.50	4.20	7.90	3.78	1.72	0.00	0.00	
3	0.00	0.00	4.81	6.87	2.08	4.80	3.48	7.21	2.06	1.37	0.00	0.00	
4	0.00	0.00	4.46	6.18	1.74	12.38	2.50	6.87	2.75	0.69	0.00	0.00	
5	0.00	0.00	4.46	5.84	1.20	11.56	2.98	6.87	1.72	3.78	0.00	0.00	
6	0.00	0.00	4.12	5.84	0.90	5.64	2.43	6.87	1.72	1.72	0.00	0.00	
7	0.00	0.00	3.78	5.15	0.85	3.93	2.36	6.52	1.37	0.69	0.00	0.00	
8	0.00	0.00	3.78	4.81	3.58	2.98	1.68	6.18	1.37	1.72	0.00	0.00	
9	0.00	0.00	4.12	8.24	6.46	2.22	1.38	6.18	1.37	2.75	0.00	0.00	
10	0.00	0.00	4.12	7.90	9.34	1.68	1.26	5.84	1.37	2.75	0.00	0.00	
11	0.00	0.00	4.46	6.87	6.46	1.32	1.38	5.84	1.72	3.09	0.00	0.00	
12	0.00	0.00	4.81	6.18	1.38	1.10	2.66	5.84	1.72	3.09	0.00	0.00	
13	0.00	0.00	4.12	5.84	1.10	1.15	2.43	5.84	1.72	3.78	0.00	0.00	
14	0.00	0.00	4.46	4.50	1.05	3.84	1.68	5.84	2.06	4.12	0.00	0.00	
15	0.00	0.00	1.00	1.68	0.70	2.08	1.20	4.81	2.06	2.40	0.00	0.00	
16	0.00	0.00	5.50	0.80	4.54	1.68	2.22	4.81	1.72	0.69	0.00	0.00	
17	0.00	0.00	2.62	8.38	1.56	5.86	1.38	4.46	1.72	0.34	0.00	0.00	
18	0.00	0.00	0.75	8.93	3.22	2.58	0.95	4.46	1.37	0.00	0.00	0.00	
19	0.00	0.00	0.85	8.24	2.08	1.87	0.85	4.46	1.03	0.00	0.00	0.00	
20	0.00	0.00	1.56	6.52	1.87	1.56	2.62	4.46	3.43	0.00	0.00	0.00	
21	0.00	0.00	1.62	7.21	1.44	6.19	4.54	4.46	4.12	0.00	0.00	0.00	
22	0.00	0.00	1.44	5.84	1.50	4.60	7.42	5.15	4.12	0.00	0.00	0.00	
23	0.00	0.00	1.50	5.15	1.10	13.82	7.55	5.15	4.12	0.00	0.00	0.00	
24	0.00	0.00	9.27	8.93	1.80	4.80	10.30	5.15	4.12	0.00	0.00	0.00	
25	0.00	0.69	7.21	4.54	1.50	4.20	6.46	5.15	5.15	0.00	0.00	0.00	
26	0.00	0.00	1.87	0.90	3.06	4.80	9.61	4.81	6.18	0.00	0.00	0.00	
27	0.00	1.37	2.62	4.50	4.20	3.57	8.93	4.81	4.46	0.00	0.00	0.00	
28	0.00	2.75	9.96	2.15	2.82	3.06	8.24	4.81	3.09	0.00	0.00	0.00	
29	0.00	2.40	7.90	5.31	3.14	2.43	8.24	4.81	2.40	0.00		0.00	
30	0.00	4.81	6.87	14.20	4.02	1.87	8.24	4.81	1.72	0.00		0.00	
31		4.46		13.82	2.82		8.58		1.72	0.00		0.00	
Total	0.00	16.48	125.03	197.11	85.88	123.21	130.18	168.61	81.72	36.42	0.00	0.00	964.64 CMSDAY
Mean	0.00	0.53	4.17	6.36	2.77	4.11	4.20	5.62	2.64	1.17	0.00	0.00	2.64 CMS
Max	0.00	4.81	9.96	14.20	9.34	13.82	10.30	8.24	6.18	4.12	0.00	0.00	14.20 CMS
Min	0.00	0.00	0.75	0.80	0.70	1.10	0.85	4.46	1.03	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	1.424	10.803	17.030	7.420	10.645	11.248	14.568	7.061	3.147	0.000	0.000	83.345 MCM

Momentary Peak 28.08 CMS, at 13.92 M (MSL), at 3.00 Hours, on Sep 23, 1992
Runoff Yield 58.73 Liters/Second/Square KM, Momentary Peak Yield 624.00 Liters/Second/Square KM

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

Khlong Pratong at Ban Pratong, Chanthaburi (Kgt.29)

Location — Lat. 13°07'04" N., Long. 102°13'22" E., on right bank at the bridge of Chanthaburi-Sa Kaeo Highway, Ban Pratong, Amphoe Pong Nam Ron, Chanthaburi.

Drainage Area — 52 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On right bank about 80 meters from the top staff gage.

Elevation — +4.660 m.(A.D.)

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

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

Period of Available Gage Records — 1986 to date.

Rating Operation

Period of Rating — 1986 to date.

Rated by Float — -

Rated by Current Meter — 1986 to date.

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

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 21 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

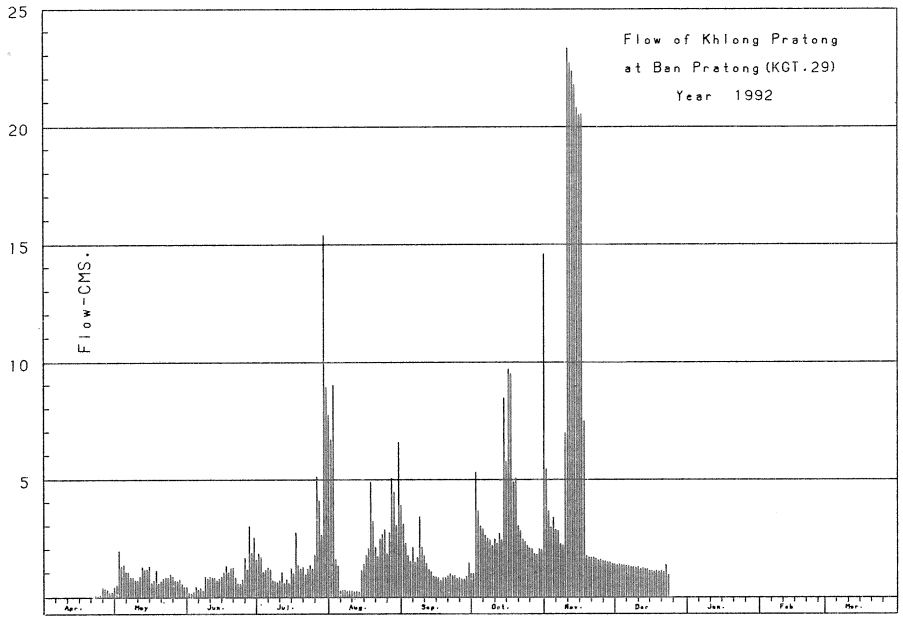
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.78	-0.59	-0.68	-0.32	0.23	0.58	0.20	0.77	0.30	1.16	0.91	0.12	
2	-0.78	-0.30	-0.68	-0.35	0.43	0.47	0.76	0.63	0.30	1.15	0.85	0.14	
3	-0.78	-0.42	-0.67	-0.46	0.35	0.40	0.63	0.56	0.30	1.10	0.78	0.20	
4	-0.78	-0.40	-0.61	-0.45	0.29	0.33	0.57	0.61	0.29	1.07	0.70	0.22	
5	-0.78	-0.46	-0.64	-0.43	0.20	0.45	0.55	0.55	0.29	1.02	0.63	0.17	
6	-0.78	-0.47	-0.63	-0.44	0.17	0.32	0.52	0.54	0.28	0.94	0.62	0.10	
7	-0.78	-0.51	-0.65	-0.54	0.16	0.38	0.50	0.47	0.28	0.93	0.62	0.06	
8	-0.78	-0.52	-0.51	-0.56	0.11	0.61	0.49	0.46	0.27	0.88	0.58	0.05	
9	-0.78	-0.54	-0.52	-0.56	0.10	0.45	0.46	0.86	0.27	0.88	0.55	0.56	
10	-0.78	-0.55	-0.51	-0.55	0.08	0.39	0.50	1.52	0.27	0.85	0.55	0.67	
11	-0.78	-0.51	-0.51	-0.47	0.06	0.31	0.47	1.50	0.26	0.85	0.56	0.69	
12	-0.78	-0.42	-0.52	-0.57	0.05	0.25	0.53	1.49	0.26	0.91	0.52	0.68	
13	-0.78	-0.45	-0.54	-0.54	0.04	0.22	0.49	1.47	0.26	1.15	0.43	0.54	
14	-0.78	-0.44	-0.53	-0.57	0.24	0.17	0.94	1.44	0.25	1.25	0.40	0.41	
15	-0.78	-0.42	-0.50	-0.43	0.30	0.16	0.79	1.43	0.24	1.26	0.42	0.30	
16	-0.78	-0.57	-0.47	-0.48	0.40	0.14	1.00	1.43	0.23	1.26	0.44	0.29	
17	-0.78	-0.55	-0.41	-0.19	0.44	0.11	0.99	0.89	0.23	1.25	0.40	0.27	
18	-0.78	-0.45	-0.47	-0.41	0.73	0.14	0.73	0.39	0.23	1.20	0.38	0.27	
19	-0.78	-0.58	-0.43	-0.44	0.59	0.15	0.74	0.38	0.23	1.20	0.36	0.24	
20	-0.78	-0.55	-0.43	-0.42	0.45	0.17	0.57	0.37	0.23	1.17	0.33	0.34	
21	-0.71	-0.53	-0.51	-0.48	0.38	0.20	0.54	0.38	0.22	1.11	0.26	0.33	
22	-0.72	-0.51	-0.58	-0.44	0.50	0.18	0.50	0.36	0.30	1.06	0.22	0.33	
23	-0.71	-0.52	-0.58	-0.41	0.52	0.17	0.48	0.35	0.19	1.00	0.19	0.37	
24	-0.71	-0.48	-0.54	-0.43	0.55	0.14	0.46	0.35	0.17	0.99	0.13	0.35	
25	-0.62	-0.51	-0.35	-0.33	0.41	0.14	0.44	0.34	0.30	1.00	0.06	0.30	
26	-0.64	-0.55	-0.44	0.08	0.53	0.13	0.44	0.33	1.16	1.00	0.07	0.28	
27	-0.64	-0.55	-0.16	-0.03	0.74	0.13	0.41	0.33	1.21	1.06	0.08	0.26	
28	-0.68	-0.54	-0.32	-0.21	0.70	0.16	0.40	0.32	1.18	1.06	0.06	0.24	
29	-0.67	-0.58	-0.22	0.91	0.57	0.32	0.44	0.31	1.08	1.09		0.24	
30	-0.62	-0.62	-0.37	0.42	0.84	0.20	0.43	0.30	1.05	1.05		0.23	
31		-0.61		0.32	0.65		1.22		1.04	0.95		0.22	
Mean	-0.74	-0.51	-0.50	-0.32	0.38	0.27	0.59	0.70	0.42	1.06	0.43	0.31	
Max	-0.62	-0.30	-0.16	0.91	0.84	0.61	1.22	1.52	1.21	1.26	0.91	0.69	1.52
Min	-0.78	-0.62	-0.68	-0.57	0.04	0.11	0.20	0.30	0.17	0.85	0.06	0.05	-0.78

Annual Max Momentary Gage Height — 1.57 M (A.D), at 12.00 Hours, on Oct 31, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — -0.67 M (A.D)

Left Bank Elevation — 4.76 M (A.D)

Right Bank Elevation — 4.70 M (A.D), Drainage Area — 52 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.54	0.18	1.88	6.73	3.14	1.00	5.48	1.40	0.00	0.00	0.00	
2	0.00	2.00	0.18	1.70	9.06	2.29	5.34	3.66	1.40	0.00	0.00	0.00	
3	0.00	1.30	0.22	1.10	1.60	1.80	3.66	2.98	1.40	0.00	0.00	0.00	
4	0.00	1.40	0.46	1.15	1.36	1.52	3.06	3.42	1.36	0.00	0.00	0.00	
5	0.00	1.10	0.34	1.25	0.30	2.15	2.90	2.90	1.36	0.00	0.00	0.00	
6	0.00	1.05	0.38	1.20	0.29	1.48	2.66	2.82	1.32	0.00	0.00	0.00	
7	0.00	0.86	0.30	0.74	0.29	1.72	2.50	2.29	1.32	0.00	0.00	0.00	
8	0.00	0.82	0.86	0.66	0.27	3.42	2.43	2.22	1.28	0.00	0.00	0.00	
9	0.00	0.74	0.82	0.66	0.27	2.15	2.22	6.98	1.28	0.00	0.00	0.00	
10	0.00	0.70	0.86	0.70	0.26	1.76	2.50	23.36	1.28	0.00	0.00	0.00	
11	0.00	0.86	0.86	1.05	0.26	1.44	2.29	22.70	1.24	0.00	0.00	0.00	
12	0.00	1.30	0.82	0.62	0.25	1.20	2.74	22.39	1.24	0.00	0.00	0.00	
13	0.00	1.15	0.74	0.74	0.25	1.08	2.43	21.77	1.24	0.00	0.00	0.00	
14	0.00	1.20	0.78	0.62	1.16	0.91	8.50	20.84	1.20	0.00	0.00	0.00	
15	0.00	1.30	0.90	1.25	1.40	0.88	5.76	20.53	1.16	0.00	0.00	0.00	
16	0.00	0.62	1.05	1.00	1.80	0.82	9.70	20.53	1.12	0.00	0.00	0.00	
17	0.00	0.70	1.35	2.78	2.08	0.73	9.50	7.52	1.12	0.00	0.00	0.00	
18	0.00	1.15	1.05	1.35	4.92	0.82	4.92	1.76	1.12	0.00	0.00	0.00	
19	0.00	0.58	1.25	1.20	3.22	0.85	5.06	1.72	1.12	0.00	0.00	0.00	
20	0.00	0.70	1.25	1.30	2.15	0.91	3.06	1.68	1.12	0.00	0.00	0.00	
21	0.08	0.78	0.86	1.00	1.72	1.00	2.82	1.72	1.08	0.00	0.00	0.00	
22	0.06	0.86	0.58	1.20	2.50	0.94	2.50	1.64	1.40	0.00	0.00	0.00	
23	0.08	0.82	0.58	1.35	2.66	0.91	2.36	1.60	0.97	0.00	0.00	0.00	
24	0.08	1.00	0.74	1.25	2.90	0.82	2.22	1.60	0.00	0.00	0.00	0.00	
25	0.42	0.86	1.70	1.82	1.87	0.82	2.08	1.56	0.00	0.00	0.00	0.00	
26	0.34	0.70	1.20	5.12	2.74	0.79	2.08	1.52	0.00	0.00	0.00	0.00	
27	0.34	0.70	3.02	4.13	5.06	0.79	1.87	1.52	0.00	0.00	0.00	0.00	
28	0.18	0.74	1.88	2.63	4.50	0.88	1.80	1.48	0.00	0.00	0.00	0.00	
29	0.22	0.58	2.56	15.44	3.06	1.48	2.08	1.44	0.00	0.00		0.00	
30	0.42	0.42	1.58	8.94	6.62	1.00	2.01	1.40	0.00	0.00		0.00	
31		0.46		7.74	3.90		14.64		0.00	0.00		0.00	
Total	2.22	27.99	29.35	73.57	75.45	40.50	118.69	213.03	28.53	0.00	0.00	0.00	609.33 CMSDAY
Mean	0.07	0.90	0.98	2.37	2.43	1.35	3.83	7.10	0.92	0.00	0.00	0.00	1.67 CMS
Max	0.42	2.00	3.02	15.44	9.06	3.42	14.64	23.36	1.40	0.00	0.00	0.00	23.36 CMS
Min	0.00	0.42	0.18	0.62	0.25	0.73	1.00	1.40	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.192	2.418	2.536	6.356	6.519	3.499	10.255	18.406	2.465	0.000	0.000	0.000	52.646 MCM

Momentary Peak 25.01 CMS, at 1.57 M (A.D), at 12.00 Hours, on Oct 31, 1992

Runoff Yield 32.10 Liters/Second/Square KM, Momentary Peak Yield 480.96 Liters/Second/Square KM

WATER YEAR 1992

EAST COAST-GULF BASIN

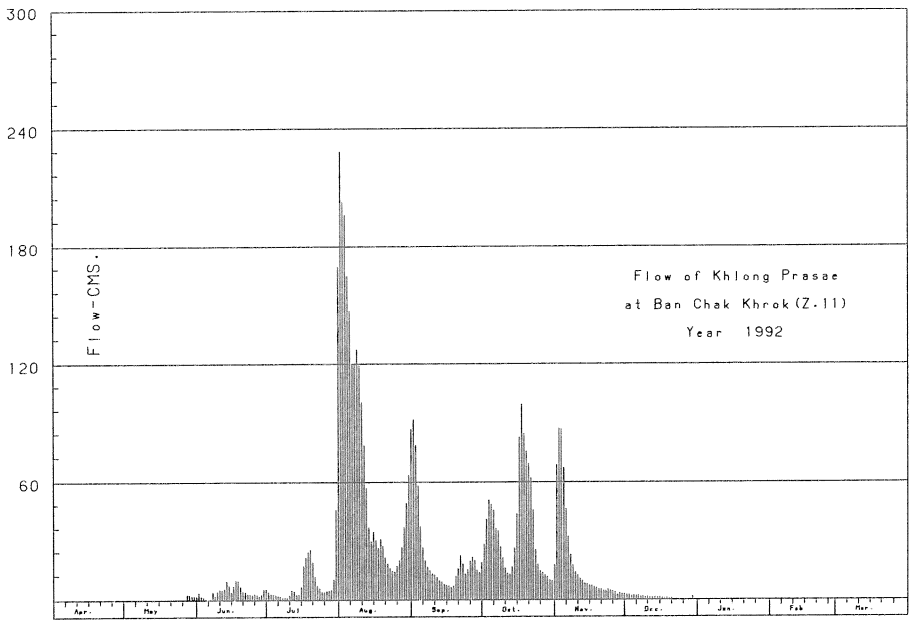
Khlong Prasae at Ban Chak Khrok, Rayong (Z.11)

Location	Lat. 12°-51'-20" N., Long. 101°-37'-10" E., on left bank near Khao Wang Sai at Ban Chak Khrok,Tambon Wang Ka Mo, Amphoe Klaeng, Rayong.
Drainage Area	1,280 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+2.63 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On right bank near the Meteorological Station.
Elevation	+13.420 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1965-1974, 1989 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 7.80 m.(M.S.L.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 71 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.57	2.58	3.32	3.36	8.95	8.20	5.66	7.71	3.22	3.53	3.56	3.07	
2	2.57	2.58	3.11	3.27	8.90	7.98	6.48	8.13	3.17	3.69	3.57	3.09	
3	2.57	2.58	2.99	3.20	8.88	7.35	7.03	8.12	3.16	3.47	3.56	3.11	
4	2.57	2.58	2.93	3.19	8.77	6.25	6.90	7.68	3.14	3.41	3.55	3.12	
5	2.57	2.58	2.88	3.12	8.68	5.50	6.76	6.80	3.14	3.42	3.52	3.13	
6	2.57	2.58	2.91	3.05	8.50	5.00	6.19	5.91	3.11	3.46	3.50	3.14	
7	2.57	2.58	3.40	3.00	8.50	4.70	6.11	5.25	3.07	3.49	3.49	3.15	
8	2.57	2.58	3.07	2.98	8.56	4.50	5.55	4.75	3.05	3.53	3.49	3.16	
9	2.57	2.58	3.38	2.97	8.49	4.39	5.08	4.47	3.03	3.55	3.48	3.15	
10	2.57	2.58	3.53	3.17	8.31	4.30	4.65	4.28	3.04	3.54	3.47	3.15	
11	2.57	2.58	3.47	3.47	7.97	4.18	4.37	4.14	3.02	3.46	3.38	3.15	
12	2.57	2.58	3.58	3.40	7.28	4.05	4.35	4.01	3.00	3.45	3.35	3.15	
13	2.57	2.58	3.98	3.23	6.24	3.94	4.67	3.89	3.00	3.36	3.33	3.18	
14	2.57	2.58	3.77	3.17	5.76	3.84	5.50	3.82	3.01	3.38	3.30	4.77	
15	2.57	2.58	3.38	3.69	6.07	3.78	6.65	3.78	3.00	3.40	3.28	3.67	
16	2.57	2.58	3.70	4.76	5.78	3.71	8.05	3.72	2.97	3.48	3.32	3.44	
17	2.57	2.58	4.07	5.10	5.51	3.66	8.30	3.69	2.96	3.48	3.23	3.34	
18	2.57	2.58	3.99	5.37	5.85	3.70	8.08	3.60	2.95	3.50	3.22	3.36	
19	2.57	2.58	3.70	5.41	5.55	4.27	7.91	3.56	2.94	3.54	3.21	3.31	
20	2.57	2.58	3.38	4.92	5.10	4.59	7.73	3.53	2.94	3.57	3.18	3.41	
21	2.57	2.58	3.36	4.21	4.86	5.19	7.50	3.48	2.93	3.61	3.16	3.72	
22	2.57	2.58	3.25	3.76	4.64	4.85	6.75	3.47	2.90	3.58	3.15	3.49	
23	2.57	2.58	3.19	3.56	4.47	4.37	5.44	3.52	2.73	3.55	3.13	3.34	
24	2.57	2.58	3.19	3.41	4.47	4.54	4.79	3.49	2.70	3.55	3.12	3.26	
25	2.57	2.58	3.23	3.34	4.72	4.98	4.53	3.42	2.85	3.57	3.10	3.19	
26	2.57	2.78	3.21	3.41	4.97	5.12	4.41	3.37	2.73	3.55	3.09	3.16	
27	2.57	3.21	3.10	3.49	5.53	5.01	4.32	3.21	2.82	3.58	3.08	3.12	
28	2.57	3.15	3.18	3.48	6.24	4.52	4.20	3.29	2.81	3.59	3.07	3.09	
29	2.57	3.12	3.55	4.11	6.93	4.45	4.07	3.28	3.08	3.58		3.06	
30	2.57	3.08	3.52	6.77	7.54	4.88	3.98	3.22	3.05	3.54		3.05	
31		3.09		8.79	8.12		4.81		3.31	3.52		3.11	
Mean	2.57	2.68	3.38	3.94	6.78	4.86	5.83	4.49	2.99	3.51	3.32	3.28	
Max	2.57	3.21	4.07	8.79	8.95	8.20	8.30	8.13	3.31	3.69	3.57	4.77	8.95
Min	2.57	2.58	2.88	2.97	4.47	3.66	3.98	3.21	2.70	3.36	3.07	3.05	2.57

Annual Max Momentary Gage Height 8.97 M (MSL), at 6.00 Hours, on Aug 1, 1992
Zero Gage at Bottom Elevation 2.63 M (MSL), River Bed
Left Bank Elevation 7.96 M (MSL) 2.16 M (MSL)
Right Bank Elevation 7.79 M (MSL), Drainage Area 1280 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	3.56	3.88	228.75	92.00	28.58	68.55	2.84	0.00	0.00	0.00	
2	0.00	0.00	2.07	3.19	202.50	79.10	40.96	87.45	2.49	0.00	0.00	0.00	
3	0.00	0.00	1.23	2.70	196.30	58.45	51.13	86.80	2.42	0.00	0.00	0.00	
4	0.00	0.00	0.81	2.63	165.20	37.20	48.50	67.58	2.28	0.00	0.00	0.00	
5	0.00	0.00	0.48	2.14	146.94	26.50	45.88	46.60	2.28	0.00	0.00	0.00	
6	0.00	0.00	0.67	1.65	120.20	20.20	36.25	32.05	2.07	0.00	0.00	0.00	
7	0.00	0.00	4.20	1.30	120.20	16.90	35.05	23.25	1.79	0.00	0.00	0.00	
8	0.00	0.00	1.79	1.16	127.70	14.70	27.15	17.45	1.65	0.00	0.00	0.00	
9	0.00	0.00	4.04	1.09	119.08	13.50	21.16	14.37	1.51	0.00	0.00	0.00	
10	0.00	0.00	5.37	2.49	100.72	12.60	16.35	12.40	1.58	0.00	0.00	0.00	
11	0.00	0.00	4.83	4.83	78.65	11.40	13.30	11.00	1.44	0.00	0.00	0.00	
12	0.00	0.00	5.82	4.20	56.74	10.10	13.10	9.70	1.30	0.00	0.00	0.00	
13	0.00	0.00	9.42	2.91	37.04	9.06	16.57	8.61	1.30	0.00	0.00	0.00	
14	0.00	0.00	7.53	2.49	29.94	8.16	26.50	7.98	1.37	0.00	0.00	0.00	
15	0.00	0.00	4.04	6.81	34.45	7.62	43.90	7.62	1.30	0.00	0.00	0.00	
16	0.00	0.00	6.90	17.56	30.22	6.99	82.75	7.08	1.09	0.00	0.00	0.00	
17	0.00	0.00	10.30	21.40	26.63	6.54	99.80	6.81	1.02	0.00	0.00	0.00	
18	0.00	0.00	9.51	24.81	31.20	6.90	84.40	6.00	0.95	0.00	0.00	0.00	
19	0.00	0.00	6.90	25.33	27.15	12.30	75.95	5.64	0.88	0.00	0.00	0.00	
20	0.00	0.00	4.04	19.32	21.40	15.69	69.25	5.37	0.88	0.00	0.00	0.00	
21	0.00	0.00	3.88	11.70	18.66	22.48	62.30	4.92	0.81	0.00	0.00	0.00	
22	0.00	0.00	3.05	7.44	16.24	18.55	45.70	4.83	0.60	0.00	0.00	0.00	
23	0.00	0.00	2.63	5.64	14.37	13.30	25.72	5.28	0.00	0.00	0.00	0.00	
24	0.00	0.00	2.63	4.29	14.37	15.14	17.89	5.01	0.00	0.00	0.00	0.00	
25	0.00	0.00	2.91	3.72	17.12	19.98	15.03	4.38	0.30	0.00	0.00	0.00	
26	0.00	0.00	2.77	4.29	19.87	21.64	13.71	3.96	0.00	0.00	0.00	0.00	
27	0.00	2.77	2.00	5.01	26.89	20.32	12.80	2.77	0.12	0.00	0.00	0.00	
28	0.00	2.35	2.56	4.92	37.04	14.92	11.60	3.33	0.06	0.00	0.00	0.00	
29	0.00	2.14	5.55	10.70	49.10	14.15	10.30	3.26	1.86	0.00		0.00	
30	0.00	1.86	5.28	46.06	63.42	18.88	9.42	2.84	0.00	0.00		0.00	
31		1.93		169.40	86.80		18.11		0.00	0.00		0.00	
Total	0.00	11.05	126.77	425.06	2264.89	645.27	1119.11	572.89	36.19	0.00	0.00	0.00	5201.23 CMSDAY
Mean	0.00	0.36	4.23	13.71	73.06	21.51	36.10	19.10	1.17	0.00	0.00	0.00	14.25 CMS
Max	0.00	2.77	10.30	169.40	228.75	92.00	99.80	87.45	2.84	0.00	0.00	0.00	228.75 CMS
Min	0.00	0.00	0.48	1.09	14.37	6.54	9.42	2.77	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.955	10.953	36.725	195.686	55.751	96.691	49.498	3.127	0.000	0.000	0.000	449.386 MCM

Momentary Peak 239.25 CMS, at 8.97 M (MSL), at 6.00 Hours, on Aug 1, 1992
Runoff Yield 11.13 Liters/Second/Square KM, Momentary Peak Yield 186.91 Liters/Second/Square KM

WATER YEAR 1992

EAST COAST-GULF BASIN

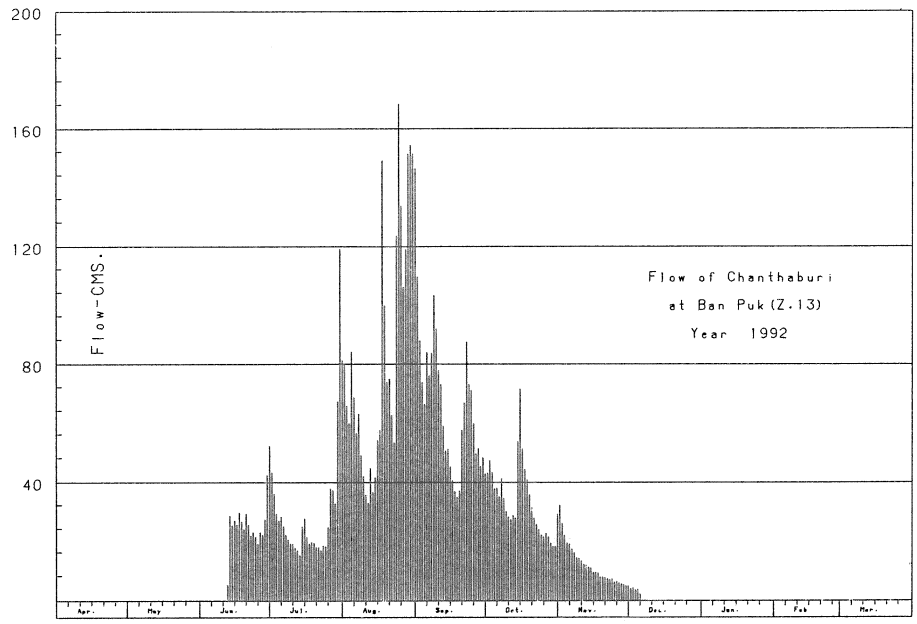
Chanthaburi River at Ban Puk, Chanthaburi (Z.13)

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. Stage-discharge relation defined by 25 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.30	6.30	6.30	7.94	8.80	9.43	7.93	7.64	6.61	8.21	7.94	7.27	
2	6.30	6.30	6.30	7.74	8.49	8.99	8.04	7.46	6.61	8.04	7.88	7.25	
3	6.30	6.30	6.30	7.55	8.36	8.67	7.94	7.33	6.59	8.04	7.88	7.24	
4	6.30	6.30	6.32	7.49	8.90	8.51	7.79	7.25	6.59	7.90	7.87	7.20	
5	6.30	6.30	6.38	7.52	8.56	8.90	7.80	7.23	6.52	7.86	7.86	7.16	
6	6.30	6.30	6.33	7.43	8.28	8.72	7.72	7.17	6.37	7.95	7.82	7.11	
7	6.30	6.30	6.33	7.34	8.43	8.89	7.88	7.13	6.33	8.06	7.79	7.08	
8	6.30	6.30	6.33	7.28	8.09	9.31	7.70	7.07	6.55	8.05	7.77	7.05	
9	6.30	6.30	6.32	7.24	7.90	9.07	7.58	7.05	6.86	8.03	7.74	7.04	
10	6.30	6.30	6.34	7.23	7.73	8.76	7.52	7.02	6.85	8.05	7.69	7.04	
11	6.30	6.30	6.34	7.19	7.66	8.66	7.50	6.98	6.87	8.08	7.67	7.04	
12	6.30	6.30	6.67	7.15	7.97	8.34	7.54	6.96	6.33	8.03	7.64	7.02	
13	6.30	6.30	7.53	7.10	7.76	8.13	7.51	6.94	6.36	8.04	7.60	7.04	
14	6.30	6.30	7.44	7.42	7.89	8.14	8.21	6.92	6.39	8.07	7.59	7.04	
15	6.30	6.30	7.49	7.51	8.22	7.99	8.62	6.86	6.41	8.18	7.57	7.03	
16	6.30	6.30	7.44	7.31	8.30	7.86	8.14	6.85	6.44	8.19	7.56	7.05	
17	6.30	6.30	7.57	7.24	10.21	7.77	7.97	6.85	6.50	8.10	7.54	7.05	
18	6.30	6.30	7.48	7.25	9.24	7.71	7.87	6.78	7.46	8.13	7.50	7.03	
19	6.30	6.30	7.40	7.25	8.67	7.77	7.74	6.79	7.34	8.26	7.46	7.03	
20	6.30	6.30	7.55	7.19	8.70	8.30	7.61	6.77	7.37	8.17	7.43	7.03	
21	6.30	6.30	7.44	7.19	8.42	8.52	7.51	6.76	7.44	8.14	7.41	7.04	
22	6.30	6.30	7.33	7.16	8.20	8.98	7.45	6.75	7.44	8.00	7.36	7.03	
23	6.30	6.30	7.36	7.21	9.71	8.66	7.39	6.75	7.44	8.02	7.33	7.03	
24	6.30	6.30	7.32	7.21	10.57	8.61	7.34	6.71	7.46	8.14	7.30	7.02	
25	6.30	6.30	7.23	7.42	9.91	8.36	7.31	6.71	7.51	8.12	7.30	6.99	
26	6.30	6.30	7.36	7.79	9.36	8.10	7.35	6.69	7.80	8.09	7.30	6.96	
27	6.30	6.30	7.34	7.78	9.62	8.15	7.32	6.68	7.92	8.09	7.31	6.94	
28	6.30	6.30	7.50	7.65	10.25	7.99	7.25	6.66	7.97	8.07	7.29	6.91	
29	6.30	6.30	7.91	8.53	10.31	8.07	7.20	6.65	7.74	8.01		6.86	
30	6.30	6.30	8.17	9.62	10.25	7.93	7.21	6.64	7.76	8.06		6.82	
31		6.30		8.84	10.16		7.55		8.12	7.98		6.79	
Mean	6.30	6.30	7.04	7.54	8.87	8.44	7.66	6.93	7.03	8.07	7.59	7.04	
Max	6.30	6.30	8.17	9.62	10.57	9.43	8.62	7.64	8.12	8.26	7.94	7.27	10.57
Min	6.30	6.30	6.30	7.10	7.66	7.71	7.20	6.64	6.33	7.86	7.29	6.79	6.30

Annual Max Momentary Gage Height 10.72 M (MSL), at 7.00 Hours, on Aug 24, 1992
Zero Gage at Bottom Elevation 6.30 M (MSL), River Bed 5.96 M (MSL)
Left Bank Elevation 14.11 M (MSL)
Right Bank Elevation 12.94 M (MSL), Drainage Area 671 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	43.52	79.70	109.60	43.14	32.50	4.12	0.00	0.00	0.00	
2	0.00	0.00	0.00	36.04	65.76	88.25	47.36	26.28	4.12	0.00	0.00	0.00	
3	0.00	0.00	0.00	29.35	60.12	73.85	43.52	22.06	3.69	0.00	0.00	0.00	
4	0.00	0.00	0.00	27.27	84.20	66.65	37.84	19.65	3.69	0.00	0.00	0.00	
5	0.00	0.00	0.00	28.30	68.90	84.20	38.20	19.07	2.22	0.00	0.00	0.00	
6	0.00	0.00	0.00	25.29	56.80	76.10	35.32	17.39	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	22.38	63.12	83.75	41.24	16.31	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	20.52	49.31	103.60	34.60	14.72	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	19.36	42.00	91.92	30.40	14.20	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	19.07	35.68	77.90	28.30	13.42	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	17.93	33.20	73.40	27.60	12.42	0.00	0.00	0.00	0.00	
12	0.00	0.00	5.44	16.85	44.66	59.28	29.00	11.94	0.00	0.00	0.00	0.00	
13	0.00	0.00	28.65	15.50	36.76	50.87	27.95	11.46	0.00	0.00	0.00	0.00	
14	0.00	0.00	25.62	24.96	41.62	51.26	54.00	10.98	0.00	0.00	0.00	0.00	
15	0.00	0.00	27.27	27.95	54.40	45.42	71.60	9.62	0.00	0.00	0.00	0.00	
16	0.00	0.00	25.62	21.42	57.60	40.48	51.26	9.40	0.00	0.00	0.00	0.00	
17	0.00	0.00	30.05	19.36	149.32	37.12	44.66	9.40	0.00	0.00	0.00	0.00	
18	0.00	0.00	26.94	19.65	100.10	34.96	40.86	7.86	0.00	0.00	0.00	0.00	
19	0.00	0.00	24.30	19.65	73.85	37.12	36.04	8.08	0.00	0.00	0.00	0.00	
20	0.00	0.00	29.35	17.93	75.20	57.60	31.45	7.64	0.00	0.00	0.00	0.00	
21	0.00	0.00	25.62	17.93	62.68	67.10	27.95	7.42	0.00	0.00	0.00	0.00	
22	0.00	0.00	22.06	17.12	53.60	87.80	25.95	7.20	0.00	0.00	0.00	0.00	
23	0.00	0.00	23.02	18.49	123.60	73.40	23.98	7.20	0.00	0.00	0.00	0.00	
24	0.00	0.00	21.74	18.49	168.65	71.15	22.38	6.32	0.00	0.00	0.00	0.00	
25	0.00	0.00	19.07	24.96	133.72	60.12	21.42	6.32	0.00	0.00	0.00	0.00	
26	0.00	0.00	23.02	37.84	106.10	49.70	22.70	5.88	0.00	0.00	0.00	0.00	
27	0.00	0.00	22.38	37.48	119.10	51.65	21.74	5.66	0.00	0.00	0.00	0.00	
28	0.00	0.00	27.60	32.85	151.40	45.42	19.65	5.22	0.00	0.00	0.00	0.00	
29	0.00	0.00	42.38	67.55	154.53	48.53	18.20	5.00	0.00	0.00		0.00	
30	0.00	0.00	52.43	119.10	151.40	43.14	18.49	4.78	0.00	0.00		0.00	
31		0.00		81.50	146.72		29.35		0.00	0.00		0.00	
Total	0.00	0.00	502.56	945.61	2643.80	1941.34	1046.15	355.40	17.84	0.00	0.00	0.00	7452.70 CMSDAY
Mean	0.00	0.00	16.75	30.50	85.28	64.71	33.75	11.85	0.58	0.00	0.00	0.00	20.42 CMS
Max	0.00	0.00	52.43	119.10	168.65	109.60	71.60	32.50	4.12	0.00	0.00	0.00	168.65 CMS
Min	0.00	0.00	0.00	15.50	33.20	34.96	18.20	4.78	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	43.421	81.701	228.424	167.732	90.387	30.707	1.541	0.000	0.000	0.000	643.913 MCM

Momentary Peak 177.38 CMS, at 10.72 M (MSL), at 7.00 Hours, on Aug 24, 1992

Runoff Yield 30.43 Liters/Second/Square KM, Momentary Peak Yield 264.35 Liters/Second/Square KM

WATER YEAR 1992

EAST COAST-GULF BASIN

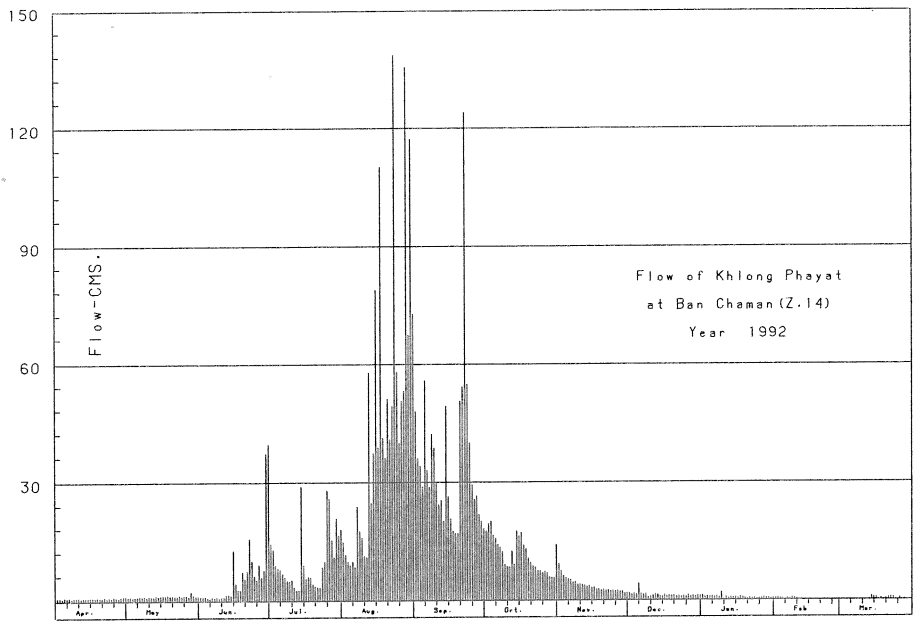
Khlong Phayat at Ban Chaman, Chanthaburi (Z.14)

Location	Lat. 12°-44'-25" N., Long. 102°-12'-39" E., on left bank at the bridge of Khlong Phayat near Wat Chaman, Amphoe Makham, Chanthaburi.
Drainage Area	245 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 30 meters from the top staff gage.
Elevation	+8.170 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1968 to date.
Rating Operation	
Period of Rating	1986 to date.
Rated by Float	-
Rated by Current Meter	1986 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.86	0.90	0.88	1.77	1.79	3.20	1.94	1.50	1.00	0.92	0.82	0.73	
2	0.84	0.88	0.90	1.70	1.63	2.73	2.02	1.39	0.97	0.88	0.81	0.72	
3	0.83	0.87	0.89	1.47	1.52	2.66	2.06	1.33	0.99	0.88	0.82	0.73	
4	0.86	0.87	0.87	1.44	1.47	2.44	1.88	1.29	0.98	0.89	0.79	0.71	
5	0.86	0.89	0.83	1.41	1.53	3.48	1.85	1.28	1.21	0.88	0.78	0.72	
6	0.85	0.90	0.86	1.36	1.45	2.61	1.77	1.26	0.98	0.88	0.80	0.70	
7	0.84	0.91	0.87	1.30	2.22	2.44	1.72	1.23	0.97	0.88	0.80	0.72	
8	0.84	0.90	0.87	1.26	1.94	2.97	1.66	1.23	0.98	0.86	0.82	0.72	
9	0.86	0.89	0.85	1.24	1.85	2.84	1.49	1.20	0.87	1.02	0.83	0.71	
10	0.85	0.90	0.85	1.27	1.60	2.49	1.46	1.19	0.87	0.77	0.80	0.71	
11	0.84	0.91	0.89	1.14	1.59	2.25	1.44	1.19	0.93	0.85	0.76	0.70	
12	0.86	0.90	0.95	1.10	3.54	2.29	1.68	1.17	0.96	0.82	0.77	0.70	
13	0.83	0.92	0.96	1.08	2.27	2.05	1.48	1.16	0.96	0.83	0.73	0.79	
14	0.84	0.92	0.95	2.45	2.78	3.25	1.94	1.16	0.89	0.83	0.73	0.90	
15	0.85	0.91	1.69	1.47	4.21	2.34	1.87	1.14	0.89	0.84	0.74	0.83	
16	0.85	0.92	1.22	1.28	2.84	2.08	1.91	1.13	0.94	0.83	0.73	0.83	
17	0.85	0.94	1.09	1.32	5.05	1.94	1.76	1.11	0.91	0.86	0.72	0.78	
18	0.85	0.94	1.10	1.30	2.94	1.90	1.70	1.10	0.91	0.86	0.73	0.79	
19	0.86	0.93	1.38	1.21	2.74	1.91	1.58	1.09	0.92	0.80	0.72	0.76	
20	0.86	0.93	1.29	1.16	3.31	3.29	1.51	1.09	0.91	0.80	0.71	0.77	
21	0.86	0.93	1.39	1.14	2.92	3.42	1.47	1.08	0.90	0.81	0.70	0.84	
22	0.84	0.92	1.84	1.15	3.25	5.39	1.44	1.08	0.89	0.81	0.71	0.84	
23	0.85	0.94	1.54	1.45	5.74	3.44	1.40	1.07	0.89	0.81	0.71	0.84	
24	0.86	0.92	1.33	1.52	3.55	2.89	1.39	1.07	0.89	0.80	0.70	0.78	
25	0.88	0.92	1.26	2.41	2.89	2.47	1.37	1.07	0.90	0.81	0.71	0.71	
26	0.85	0.92	1.48	2.31	3.29	2.31	1.38	1.06	0.92	0.82	0.70	0.80	
27	0.85	0.92	1.31	1.83	3.38	2.34	1.36	1.06	0.90	0.83	0.70	0.77	
28	0.88	1.05	1.41	1.59	5.67	2.14	1.31	1.04	0.90	0.83	0.70	0.74	
29	0.92	0.94	2.78	2.09	3.86	2.05	1.29	1.01	0.90	0.81		0.74	
30	0.90	0.93	2.88	1.88	5.22	1.96	1.30	1.00	0.91	0.80		0.73	
31		0.90		1.96	4.02		1.76		0.92	0.80		0.71	
Mean	0.86	0.92	1.25	1.52	2.97	2.65	1.62	1.16	0.93	0.84	0.75	0.76	
Max	0.92	1.05	2.88	2.45	5.74	5.39	2.06	1.50	1.21	1.02	0.83	0.90	5.74
Min	0.83	0.87	0.83	1.08	1.45	1.90	1.29	1.00	0.87	0.77	0.70	0.70	0.70

Annual Max Momentary Gage Height 6.67 M (A.D), at 6.00 Hours, on Aug 17, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.17 M (A.D)
Left Bank Elevation 6.78 M (A.D)
Right Bank Elevation 8.18 M (A.D), Drainage Area 245 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.86	1.10	0.98	14.43	14.81	48.20	17.84	9.50	1.80	1.24	0.62	0.15	
2	0.74	0.98	1.10	13.10	11.84	36.15	19.52	7.52	1.59	0.98	0.56	0.10	
3	0.68	0.92	1.04	8.96	9.86	34.40	20.36	6.44	1.73	0.98	0.62	0.15	
4	0.86	0.92	0.92	8.42	8.96	28.96	16.60	5.73	1.66	1.04	0.45	0.05	
5	0.86	1.04	0.68	7.88	10.04	56.02	16.00	5.56	4.37	0.98	0.40	0.10	
6	0.80	1.10	0.86	6.98	8.60	33.15	14.43	5.22	1.66	0.98	0.50	0.00	
7	0.74	1.17	0.92	5.90	23.86	28.96	13.48	4.71	1.59	0.98	0.50	0.10	
8	0.74	1.10	0.92	5.22	17.84	42.22	12.38	4.71	1.66	0.86	0.62	0.10	
9	0.86	1.04	0.80	4.88	16.00	38.90	9.32	4.20	0.92	2.00	0.68	0.05	
10	0.80	1.10	0.80	5.39	11.30	30.16	8.78	4.06	0.92	0.35	0.50	0.05	
11	0.74	1.17	1.04	3.36	11.12	24.55	8.42	4.06	1.31	0.80	0.30	0.00	
12	0.86	1.10	1.45	2.80	57.85	25.47	12.74	3.78	1.52	0.62	0.35	0.00	
13	0.68	1.24	1.52	2.60	25.01	20.15	9.14	3.64	1.52	0.68	0.15	0.45	
14	0.74	1.24	1.45	29.20	37.40	49.55	17.84	3.64	1.04	0.68	0.15	1.10	
15	0.80	1.17	12.92	8.96	79.05	26.62	16.40	3.36	1.04	0.74	0.20	0.68	
16	0.80	1.24	4.54	5.56	38.90	20.78	17.21	3.22	1.38	0.68	0.15	0.68	
17	0.80	1.38	2.70	6.26	110.30	17.84	14.24	2.94	1.17	0.86	0.10	0.40	
18	0.80	1.38	2.80	5.90	41.44	17.00	13.10	2.80	1.17	0.86	0.15	0.45	
19	0.86	1.31	7.34	4.37	36.40	17.21	10.94	2.70	1.24	0.50	0.10	0.30	
20	0.86	1.31	5.73	3.64	51.18	50.63	9.68	2.70	1.17	0.50	0.05	0.35	
21	0.86	1.31	7.52	3.36	40.92	54.28	8.96	2.60	1.10	0.56	0.00	0.74	
22	0.74	1.24	15.80	3.50	49.55	124.19	8.42	2.60	1.04	0.56	0.05	0.74	
23	0.80	1.38	10.22	8.60	138.58	54.86	7.70	2.50	1.04	0.56	0.05	0.74	
24	0.86	1.24	6.44	9.86	58.17	40.15	7.52	2.50	1.04	0.50	0.00	0.40	
25	0.98	1.24	5.22	28.24	40.15	29.68	7.16	2.50	1.10	0.56	0.05	0.05	
26	0.80	1.24	9.14	25.93	50.63	25.93	7.34	2.40	1.24	0.62	0.00	0.50	
27	0.80	1.24	6.08	15.60	53.14	26.62	6.98	2.40	1.10	0.68	0.00	0.35	
28	0.98	2.30	7.88	11.12	135.67	22.08	6.08	2.20	1.10	0.68	0.00	0.20	
29	1.24	1.38	37.40	20.99	67.62	20.15	5.73	1.90	1.10	0.56		0.20	
30	1.10	1.31	39.90	16.60	117.22	18.26	5.90	1.80	1.17	0.50		0.15	
31		1.10		18.26	72.66		14.24		1.24	0.50		0.05	
Total	25.04	37.99	196.11	315.87	1446.07	1063.12	364.45	113.89	42.73	23.59	7.30	9.38	3645.54 CMSDAY
Mean	0.83	1.23	6.54	10.19	46.65	35.44	11.76	3.80	1.38	0.76	0.26	0.30	9.99 CMS
Max	1.24	2.30	39.90	29.20	138.58	124.19	20.36	9.50	4.37	2.00	0.68	1.10	138.58 CMS
Min	0.68	0.92	0.68	2.60	8.60	17.00	5.73	1.80	0.92	0.35	0.00	0.00	0.00 CMS
Runoff	2.163	3.282	16.944	27.291	124.940	91.854	31.488	9.840	3.692	2.038	0.631	0.810	314.975 MCM

Momentary Peak 178.52 CMS, at 6.67 M (A.D), at 6.00 Hours, on Aug 17, 1992
Runoff Yield 40.77 Liters/Second/Square KM, Momentary Peak Yield 728.65 Liters/Second/Square KM

WATER YEAR 1992

EAST COAST-GULF BASIN

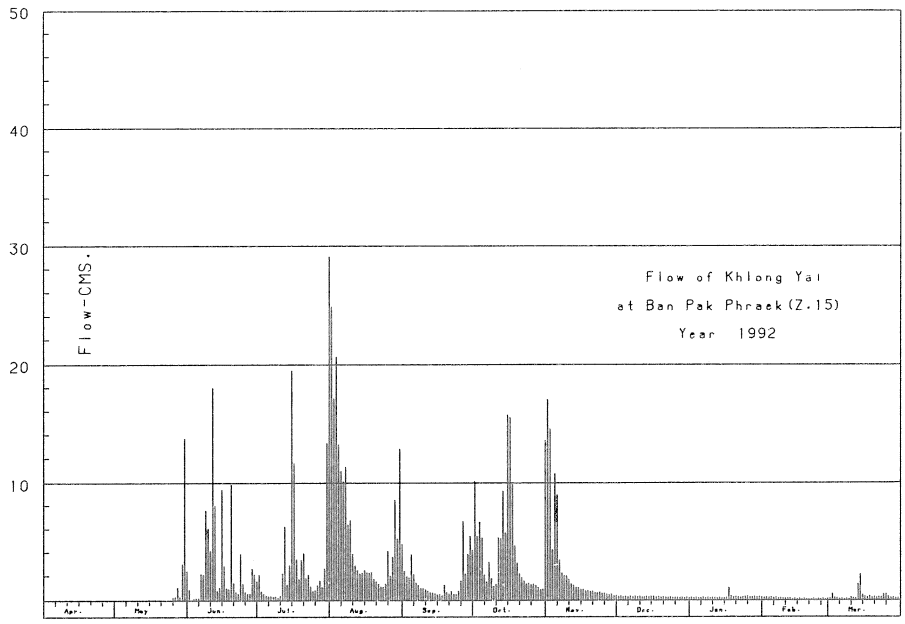
Khlong Yai at Ban Pak Phraek, Rayong (Z.15)

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 +30.46 m.(M.S.L.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 133 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.85	28.87	29.55	29.97	31.94	30.05	31.19	31.60	29.28	29.15	29.18	29.05	
2	28.85	28.87	28.94	29.50	31.60	29.90	30.72	31.47	29.27	29.15	29.18	29.40	
3	28.85	28.87	29.06	29.37	31.77	29.87	30.89	30.53	29.26	29.15	29.17	29.17	
4	28.85	28.91	29.06	29.33	31.39	30.43	30.71	31.23	29.24	29.15	29.17	29.09	
5	28.85	28.91	29.10	29.27	31.25	29.98	29.94	31.10	29.24	29.15	29.16	29.07	
6	28.85	28.90	29.98	29.24	31.19	29.74	29.75	30.30	29.24	29.15	29.15	29.06	
7	28.85	28.90	29.95	29.24	31.27	29.66	30.27	30.02	29.24	29.14	29.13	29.06	
8	28.85	28.90	30.99	29.20	30.86	29.59	29.87	29.92	29.24	29.14	29.12	29.06	
9	28.85	28.88	30.82	29.15	30.90	29.57	29.62	29.94	29.24	29.13	29.11	29.05	
10	28.85	28.88	30.51	29.26	30.43	29.55	29.70	29.82	29.23	29.13	29.10	29.19	
11	28.85	28.88	31.65	29.99	30.20	29.50	30.71	29.71	29.23	29.13	29.09	29.07	
12	28.85	28.88	31.02	30.84	30.08	29.45	30.69	29.65	29.23	29.13	29.09	29.07	
13	28.85	28.88	29.51	29.69	30.00	29.42	31.12	29.61	29.22	29.13	29.07	29.70	
14	28.85	28.88	29.58	30.19	30.01	29.38	30.77	29.59	29.24	29.13	29.07	29.96	
15	28.85	28.87	31.13	31.72	30.10	29.36	31.53	29.56	29.22	29.13	29.06	29.35	
16	28.85	28.87	30.17	31.29	30.01	29.35	31.52	29.53	29.21	29.13	29.06	29.23	
17	28.85	28.87	29.59	30.33	30.02	29.33	31.17	29.51	29.21	29.60	29.05	29.21	
18	28.85	28.86	29.54	29.84	30.02	29.68	30.58	29.50	29.21	29.25	29.05	29.26	
19	28.85	28.86	31.17	30.30	29.85	29.44	30.25	29.49	29.20	29.22	29.05	29.17	
20	28.85	28.86	29.74	30.46	29.76	29.39	29.98	29.48	29.20	29.19	29.05	29.18	
21	28.85	28.87	29.45	29.85	29.69	29.48	29.87	29.45	29.20	29.17	29.05	29.16	
22	28.85	28.87	29.40	29.97	29.63	29.39	29.79	29.44	29.19	29.17	29.05	29.17	
23	28.85	28.87	30.43	29.62	29.60	29.35	29.71	29.44	29.17	29.17	29.05	29.23	
24	28.85	28.88	29.71	29.51	29.71	29.51	29.71	29.42	29.16	29.23	29.05	29.35	
25	28.85	29.20	29.45	29.51	30.49	29.80	29.69	29.39	29.16	29.24	29.05	29.40	
26	28.86	29.18	29.37	29.65	29.94	30.89	29.68	29.36	29.16	29.24	29.05	29.22	
27	28.86	29.61	29.40	29.80	30.38	29.98	29.67	29.35	29.16	29.23	29.05	29.16	
28	28.86	29.16	30.13	29.62	31.06	30.44	29.59	29.35	29.15	29.21	29.05	29.13	
29	28.87	30.23	29.96	30.12	30.70	30.72	29.55	29.31	29.15	29.20		29.12	
30	28.87	31.42	29.77	31.40	31.37	30.51	29.54	29.29	29.15	29.19		29.09	
31		30.05		32.09	30.61		31.41		29.15	29.18		29.08	
Mean	28.85	29.09	29.94	29.98	30.51	29.76	30.30	29.85	29.21	29.18	29.09	29.21	
Max	28.87	31.42	31.65	32.09	31.94	30.89	31.53	31.60	29.28	29.60	29.18	29.96	32.09
Min	28.85	28.86	28.94	29.15	29.60	29.33	29.54	29.29	29.15	29.13	29.05	29.05	28.85

Annual Max Momentary Gage Height 32.56 M (MSL), at 18.00 Hours, on Jul 31, 1992
Zero Gage at Bottom Elevation 29.00 M (MSL), River Bed 28.78 M (MSL)
Left Bank Elevation 30.67 M (MSL)
Right Bank Elevation 31.94 M (MSL), Drainage Area 244 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.95	2.21	24.88	2.45	10.17	17.10	0.38	0.25	0.28	0.15	
2	0.00	0.00	0.04	0.80	17.10	2.00	5.44	14.59	0.37	0.25	0.28	0.60	
3	0.00	0.00	0.16	0.54	20.71	1.91	6.72	4.35	0.36	0.25	0.27	0.27	
4	0.00	0.01	0.16	0.46	13.24	3.92	5.37	10.75	0.34	0.25	0.27	0.19	
5	0.00	0.01	0.20	0.37	11.05	2.24	2.12	9.00	0.34	0.25	0.26	0.17	
6	0.00	0.00	2.24	0.34	10.17	1.52	1.55	3.40	0.34	0.25	0.25	0.16	
7	0.00	0.00	2.15	0.34	11.35	1.28	3.28	2.36	0.34	0.24	0.23	0.16	
8	0.00	0.00	7.70	0.30	6.48	1.07	1.91	2.06	0.34	0.24	0.22	0.16	
9	0.00	0.00	6.16	0.25	6.80	1.01	1.16	2.12	0.34	0.23	0.21	0.15	
10	0.00	0.00	4.25	0.36	3.92	0.95	1.40	1.76	0.33	0.23	0.20	0.29	
11	0.00	0.00	18.10	2.27	3.00	0.80	5.37	1.43	0.33	0.23	0.19	0.17	
12	0.00	0.00	8.04	6.32	2.54	0.70	5.24	1.25	0.33	0.23	0.19	0.17	
13	0.00	0.00	0.83	1.37	2.30	0.64	9.26	1.13	0.32	0.23	0.17	1.40	
14	0.00	0.00	1.04	2.96	2.33	0.56	5.79	1.07	0.34	0.23	0.17	2.18	
15	0.00	0.00	9.39	19.56	2.60	0.52	15.70	0.98	0.32	0.23	0.16	0.50	
16	0.00	0.00	2.88	11.65	2.33	0.50	15.50	0.89	0.31	0.23	0.16	0.33	
17	0.00	0.00	1.07	3.52	2.36	0.46	9.91	0.83	0.31	1.10	0.15	0.31	
18	0.00	0.00	0.92	1.82	2.36	1.34	4.60	0.80	0.31	0.35	0.15	0.36	
19	0.00	0.00	9.91	3.40	1.85	0.68	3.20	0.78	0.30	0.32	0.15	0.27	
20	0.00	0.00	1.52	4.04	1.58	0.58	2.24	0.76	0.30	0.29	0.15	0.28	
21	0.00	0.00	0.70	1.85	1.37	0.76	1.91	0.70	0.30	0.27	0.15	0.26	
22	0.00	0.00	0.60	2.21	1.19	0.58	1.67	0.68	0.29	0.27	0.15	0.27	
23	0.00	0.00	3.92	1.16	1.10	0.50	1.43	0.68	0.27	0.27	0.15	0.33	
24	0.00	0.00	1.43	0.83	1.43	0.83	1.43	0.64	0.26	0.33	0.15	0.50	
25	0.00	0.30	0.70	0.83	4.16	1.70	1.37	0.58	0.26	0.34	0.15	0.60	
26	0.00	0.28	0.54	1.25	2.12	6.72	1.34	0.52	0.26	0.34	0.15	0.32	
27	0.00	1.13	0.60	1.70	3.72	2.24	1.31	0.50	0.26	0.33	0.15	0.26	
28	0.00	0.26	2.72	1.16	8.52	3.96	1.07	0.50	0.25	0.31	0.15	0.23	
29	0.00	3.12	2.18	2.68	5.30	5.44	0.95	0.42	0.25	0.30		0.22	
30	0.00	13.74	1.61	13.40	12.92	4.25	0.92	0.39	0.25	0.29		0.19	
31		2.45		29.20	4.76		13.57		0.25	0.28		0.18	
Total	0.00	21.30	92.71	119.15	195.54	52.11	142.90	83.02	9.55	9.21	5.31	11.63	742.43 CMSDAY
Mean	0.00	0.69	3.09	3.84	6.31	1.74	4.61	2.77	0.31	0.30	0.19	0.38	2.03 CMS
Max	0.00	13.74	18.10	29.20	24.88	6.72	15.70	17.10	0.38	1.10	0.28	2.18	29.20 CMS
Min	0.00	0.00	0.04	0.25	1.10	0.46	0.92	0.39	0.25	0.23	0.15	0.15	0.00 CMS
Runoff	0.000	1.840	8.010	10.295	16.895	4.502	12.347	7.173	0.825	0.796	0.459	1.005	64.146 MCM

Momentary Peak 46.60 CMS, at 32.56 M (MSL), at 18.00 Hours, on Jul 31, 1992
Runoff Yield 8.34 Liters/Second/Square KM, Momentary Peak Yield 190.98 Liters/Second/Square KM

WATER YEAR 1992

EAST COAST-GULF BASIN

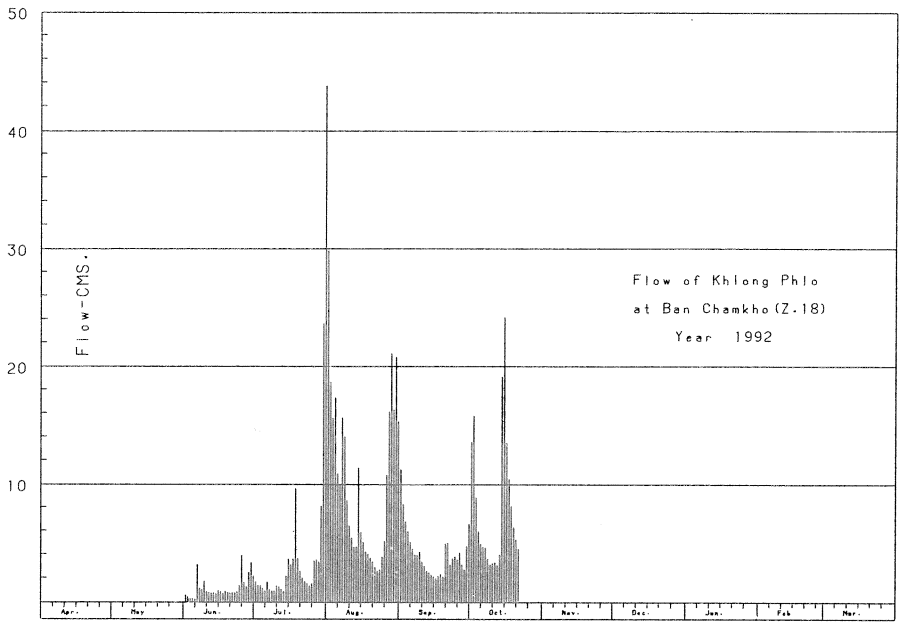
Khlong Phlo at Ban Chamkho, Rayong (Z.18)

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. Stage-discharge relation defined by 49 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.83	27.83	28.85	29.14	32.23	30.50	30.76	30.42	30.64	30.73	30.82	30.22	
2	27.83	27.83	28.78	29.07	31.27	30.17	30.99	30.41	30.76	30.77	30.81	30.22	
3	27.83	27.83	28.74	29.09	30.97	29.96	30.23	30.32	30.85	30.82	30.79	30.22	
4	27.83	27.83	28.73	29.01	31.15	29.84	29.85	30.32	30.89	30.81	30.77	30.21	
5	27.83	27.83	28.73	28.96	30.46	29.72	29.70	30.32	30.87	30.79	30.74	30.18	
6	27.83	27.83	29.42	29.15	30.35	29.63	29.65	30.27	30.79	30.77	30.69	30.16	
7	27.83	27.83	29.03	28.98	30.98	29.56	29.65	30.23	30.81	30.77	30.67	30.11	
8	27.83	27.83	28.98	28.96	30.81	29.54	29.49	30.18	30.81	30.79	30.67	30.10	
9	27.83	27.83	29.15	28.94	30.20	29.60	29.42	30.18	30.84	30.80	30.65	30.10	
10	27.83	27.83	28.94	29.07	29.92	29.46	29.43	30.14	30.87	30.79	30.63	30.11	
11	27.83	27.83	28.90	29.06	29.77	29.39	29.44	30.12	30.91	30.79	30.61	30.10	
12	27.83	27.83	28.90	28.99	29.65	29.33	29.41	30.11	30.87	30.76	30.59	30.08	
13	27.83	27.83	28.89	28.95	29.66	29.30	29.56	30.09	30.86	30.82	30.57	30.10	
14	27.83	27.83	28.88	29.25	30.51	29.27	31.31	30.05	30.68	30.70	30.55	30.86	
15	27.83	27.83	28.97	29.50	29.83	29.23	31.76	30.04	30.65	30.68	30.54	30.80	
16	27.83	27.83	28.92	29.41	29.71	29.21	30.75	30.13	30.65	30.66	30.50	30.81	
17	27.83	27.83	28.89	29.49	29.60	29.24	30.41	30.28	30.69	30.63	30.49	30.80	
18	27.83	27.83	28.93	30.32	29.56	29.27	30.14	30.27	30.74	30.60	30.46	30.78	
19	27.83	27.83	28.92	29.51	29.51	29.24	29.90	30.21	30.75	30.57	30.44	30.77	
20	27.83	27.83	28.88	29.32	29.45	29.70	29.74	30.19	30.74	30.56	30.41	30.75	
21	27.83	27.83	28.89	29.22	29.37	29.70	29.64	30.27	30.78	30.54	30.39	30.75	
22	27.83	27.83	28.91	29.16	29.33	29.42	29.82	30.19	30.76	30.51	30.37	30.76	
23	27.83	27.83	28.92	29.11	29.34	29.50	30.02	30.20	30.77	30.50	30.36	30.73	
24	27.83	27.83	29.09	29.08	29.53	29.52	30.32	30.19	30.77	30.51	30.34	30.70	
25	27.83	27.83	29.54	29.11	29.73	29.49	30.36	30.18	30.79	30.52	30.31	30.67	
26	27.83	27.83	29.13	29.47	30.44	29.59	30.32	30.44	30.87	30.57	30.30	30.64	
27	27.83	27.83	29.06	29.48	31.03	29.41	30.28	30.48	30.70	30.90	30.29	30.62	
28	27.83	27.83	29.30	29.46	31.49	29.35	30.22	30.46	30.67	30.87	30.27	30.60	
29	27.83	27.83	29.45	30.14	31.04	29.66	30.22	30.48	30.64	30.85		30.56	
30	27.83	27.83	29.25	31.71	31.47	29.93	30.22	30.47	30.62	30.86		30.53	
31		27.83		33.19	30.94		30.20		30.66	30.85		30.50	
Mean	27.83	27.83	29.00	29.46	30.30	29.56	30.10	30.25	30.76	30.71	30.54	30.47	
Max	27.83	27.83	29.54	33.19	32.23	30.50	31.76	30.48	30.91	30.90	30.82	30.86	33.19
Min	27.83	27.83	28.73	28.94	29.33	29.21	29.41	30.04	30.62	30.50	30.27	30.08	27.83

Annual Max Momentary Gage Height 33.22 M (MSL), at 12.00 Hours, on Jul 31, 1992
Zero Gage at Bottom Elevation 28.15 M (MSL), River Bed 27.77 M (MSL)
Left Bank Elevation 34.46 M (MSL)
Right Bank Elevation 34.53 M (MSL), Drainage Area 167 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.65	1.70	29.89	11.30	13.64	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.44	1.38	18.67	8.36	15.80	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.32	1.46	15.60	6.82	8.87	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.29	1.14	17.40	5.98	6.05	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.29	0.98	10.94	5.14	5.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	3.22	1.75	9.95	4.51	4.65	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	1.22	1.04	15.70	4.06	4.65	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	1.04	0.98	14.09	3.94	3.64	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	1.75	0.92	8.60	4.30	3.22	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.92	1.38	6.54	3.46	3.28	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.80	1.34	5.49	3.04	3.34	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.80	1.07	4.65	2.68	3.16	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.77	0.95	4.72	2.50	4.06	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.74	2.25	11.39	2.35	19.11	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	1.01	3.70	5.91	2.15	24.22	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.86	3.16	5.07	2.05	13.55	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.77	3.64	4.30	2.20	10.49	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.89	9.68	4.06	2.35	8.12	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.86	3.76	3.76	2.20	6.40	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.74	2.62	3.40	5.00	5.28	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.77	2.10	2.92	5.00	4.58	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.83	1.80	2.68	3.22	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.86	1.55	2.74	3.70	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	1.46	1.42	3.88	3.82	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	3.94	1.55	5.21	3.64	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	1.65	3.52	10.76	4.24	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	1.34	3.58	16.20	3.16	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	2.50	3.46	21.09	2.80	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	3.40	8.12	16.30	4.72	0.00	0.00	0.00	0.00		0.00	
30	0.00	0.00	2.25	23.62	20.87	6.61	0.00	0.00	0.00	0.00		0.00	
31		0.00		43.85	15.30		0.00		0.00	0.00		0.00	
Total	0.00	0.00	37.38	139.47	318.08	125.30	171.11	0.00	0.00	0.00	0.00	0.00	791.34 CMSDAY
Mean	0.00	0.00	1.25	4.50	10.26	4.18	5.52	0.00	0.00	0.00	0.00	0.00	2.17 CMS
Max	0.00	0.00	3.94	43.85	29.89	11.30	24.22	0.00	0.00	0.00	0.00	0.00	43.85 CMS
Min	0.00	0.00	0.29	0.92	2.68	2.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	3.230	12.050	27.482	10.826	14.784	0.000	0.000	0.000	0.000	0.000	68.372 MCM

Momentary Peak 44.30 CMS, at 33.22 M (MSL), at 12.00 Hours, on Jul 31, 1992
Runoff Yield 12.98 Liters/Second/Square KM, Momentary Peak Yield 265.27 Liters/Second/Square KM

WATER YEAR 1992

CHANTHABURI RIVER BASIN

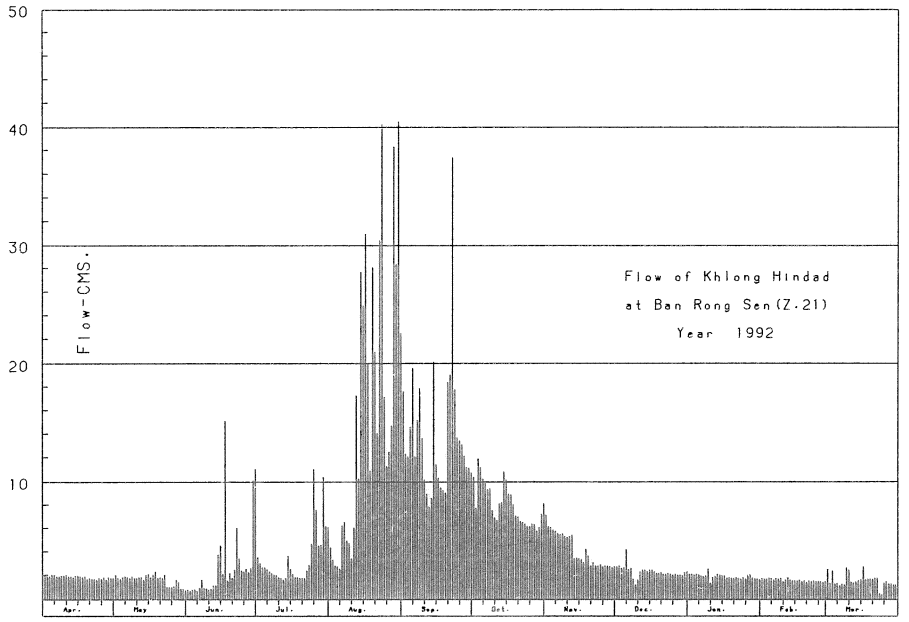
Khlong Hin Dat at Ban Rong Sen, Chanthaburi (Z.21)

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 82 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.97	21.99	21.80	22.16	22.23	23.04	22.63	22.41	22.08	22.00	21.94	22.05	
2	21.97	21.94	21.79	22.12	22.14	22.75	22.45	22.35	22.09	21.99	21.94	21.88	
3	21.96	21.94	21.80	22.07	22.10	22.74	22.73	22.34	22.07	21.99	21.93	22.04	
4	21.99	21.95	21.79	22.08	22.08	22.88	22.68	22.33	22.07	21.99	21.95	21.88	
5	21.98	21.97	21.78	22.05	22.06	23.14	22.62	22.32	22.22	21.99	21.94	21.88	
6	21.97	21.95	21.83	22.03	22.35	22.74	22.59	22.31	22.05	21.97	21.93	21.86	
7	21.97	21.95	21.92	22.00	22.37	22.91	22.56	22.30	22.07	21.97	21.94	21.87	
8	21.97	21.96	21.82	21.99	22.27	23.05	22.56	22.31	21.93	21.97	21.94	21.87	
9	21.98	21.95	21.82	21.98	22.25	22.83	22.44	22.29	21.87	22.06	21.94	22.07	
10	21.98	21.94	21.80	21.96	22.15	22.61	22.40	22.29	21.93	21.89	21.91	22.05	
11	21.97	21.96	21.82	21.94	22.34	22.53	22.38	22.29	22.02	21.95	21.92	21.90	
12	21.96	21.95	21.85	21.93	23.02	22.46	22.48	22.30	22.05	21.97	21.96	21.88	
13	21.96	21.93	21.86	21.94	22.62	22.51	22.48	22.15	22.04	21.99	21.92	21.90	
14	21.97	21.98	22.18	22.17	23.48	23.16	22.66	22.16	22.03	21.99	21.92	21.91	
15	21.98	22.00	22.24	22.06	23.37	22.70	22.61	22.15	22.04	21.97	21.91	21.92	
16	21.96	21.95	21.99	21.99	23.61	22.62	22.53	22.15	22.05	21.97	21.92	22.09	
17	21.96	21.99	22.91	21.96	23.16	22.57	22.53	22.12	22.02	21.95	21.92	21.92	
18	21.96	22.02	21.92	21.95	22.66	22.55	22.47	22.22	22.01	21.95	21.91	21.94	
19	21.94	21.95	22.00	21.95	23.50	22.54	22.41	22.17	22.00	21.95	21.91	21.93	
20	21.94	21.95	21.95	21.94	23.20	23.08	22.40	22.10	22.02	21.94	21.90	21.94	
21	21.94	21.95	22.04	21.95	22.85	23.11	22.38	22.12	21.99	21.96	21.91	21.94	
22	21.93	21.98	22.34	22.04	23.59	23.86	22.37	22.10	22.00	21.94	21.91	21.95	
23	21.93	21.84	22.15	22.10	23.95	23.05	22.36	22.09	22.00	21.94	21.91	21.75	
24	21.94	21.83	22.04	22.25	23.01	22.83	22.35	22.11	22.00	21.95	21.91	21.72	
25	21.94	21.84	22.03	22.67	22.69	22.82	22.35	22.09	21.99	21.94	21.91	21.89	
26	21.95	21.84	22.05	22.44	22.76	22.80	22.36	22.09	21.99	21.98	21.90	21.90	
27	21.93	21.93	22.02	22.24	22.89	22.74	22.36	22.10	21.99	21.99	21.90	21.88	
28	21.95	21.89	22.06	22.24	23.89	22.68	22.32	22.08	21.98	21.94	21.90	21.87	
29	21.95	21.82	22.61	22.63	23.51	22.68	22.34	22.08	21.98	21.94		21.87	
30	21.94	21.81	22.67	22.35	23.96	22.65	22.42	22.08	22.01	21.93		21.86	
31		21.80		22.34	23.27		22.48		22.02	21.93		21.87	
Mean	21.96	21.93	22.03	22.11	22.88	22.82	22.47	22.20	22.02	21.96	21.92	21.91	
Max	21.99	22.02	22.91	22.67	23.96	23.86	22.73	22.41	22.22	22.06	21.96	22.09	23.96
Min	21.93	21.80	21.78	21.93	22.06	22.46	22.32	22.08	21.87	21.89	21.90	21.72	21.72

Annual Max Momentary Gage Height 26.00 M (MSL), at 20.00 Hours, on Aug 16, 1992
Zero Gage at Bottom Elevation 21.20 M (MSL), River Bed 20.86 M (MSL)
Left Bank Elevation 28.78 M (MSL)
Right Bank Elevation 28.69 M (MSL), Drainage Area 66 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.99	2.13	0.80	3.56	4.45	17.72	10.45	7.15	2.76	2.20	1.78	2.55	
2	1.99	1.78	0.75	3.12	3.34	12.35	7.75	6.25	2.83	2.13	1.78	1.36	
3	1.92	1.78	0.80	2.69	2.90	12.18	12.01	6.10	2.69	2.13	1.71	2.48	
4	2.13	1.85	0.75	2.76	2.76	14.64	11.20	5.95	2.69	2.13	1.85	1.36	
5	2.06	1.99	0.70	2.55	2.62	19.68	10.30	5.80	4.30	2.13	1.78	1.36	
6	1.99	1.85	1.01	2.41	6.25	12.18	9.85	5.65	2.55	1.99	1.71	1.22	
7	1.99	1.85	1.64	2.20	6.55	15.20	9.40	5.50	2.69	1.99	1.78	1.29	
8	1.99	1.92	0.94	2.13	5.05	17.90	9.40	5.65	1.71	1.99	1.78	1.29	
9	2.06	1.85	0.94	2.06	4.75	13.74	7.60	5.35	1.29	2.62	1.78	2.69	
10	2.06	1.78	0.80	1.92	3.45	10.15	7.00	5.35	1.71	1.43	1.57	2.55	
11	1.99	1.92	0.94	1.78	6.10	8.95	6.70	5.35	2.34	1.85	1.64	1.50	
12	1.92	1.85	1.15	1.71	17.36	7.90	8.20	5.50	2.55	1.99	1.92	1.36	
13	1.92	1.71	1.22	1.78	10.30	8.65	8.20	3.45	2.48	2.13	1.64	1.50	
14	1.99	2.06	3.78	3.67	27.70	20.12	10.90	3.56	2.41	2.13	1.64	1.57	
15	2.06	2.20	4.60	2.62	24.95	11.50	10.15	3.45	2.48	1.99	1.57	1.64	
16	1.92	1.85	2.13	2.13	30.95	10.30	8.95	3.45	2.55	1.99	1.64	2.83	
17	1.92	2.13	15.20	1.92	20.12	9.55	8.95	3.12	2.34	1.85	1.64	1.64	
18	1.92	2.34	1.64	1.85	10.90	9.25	8.05	4.30	2.27	1.85	1.57	1.78	
19	1.78	1.85	2.20	1.85	28.20	9.10	7.15	3.67	2.20	1.85	1.57	1.71	
20	1.78	1.85	1.85	1.78	21.00	18.44	7.00	2.90	2.34	1.78	1.50	1.78	
21	1.78	1.85	2.48	1.85	14.10	19.02	6.70	3.12	2.13	1.92	1.57	1.78	
22	1.71	2.06	6.10	2.48	30.45	37.50	6.55	2.90	2.20	1.78	1.57	1.85	
23	1.71	1.08	3.45	2.90	40.20	17.90	6.40	2.83	2.20	1.78	1.57	0.55	
24	1.78	1.01	2.48	4.75	17.18	13.74	6.25	3.01	2.20	1.85	1.57	0.40	
25	1.78	1.08	2.41	11.05	11.35	13.56	6.25	2.83	2.13	1.78	1.57	1.43	
26	1.85	1.08	2.55	7.60	12.52	13.20	6.40	2.83	2.13	2.06	1.50	1.50	
27	1.71	1.71	2.34	4.60	14.82	12.18	6.40	2.90	2.13	2.13	1.50	1.36	
28	1.85	1.43	2.62	4.60	38.40	11.20	5.80	2.76	2.06	1.78	1.50	1.29	
29	1.85	0.94	10.15	10.45	28.45	11.20	6.10	2.76	2.06	1.78		1.29	
30	1.78	0.87	11.05	6.25	40.50	10.75	7.30	2.76	2.27	1.71		1.22	
31		0.80		6.10	22.54		8.20		2.34	1.71		1.29	
Total	57.18	52.45	89.47	109.12	510.21	419.75	251.56	126.20	73.03	60.43	46.20	49.42	1845.02 CMSDAY
Mean	1.91	1.69	2.98	3.52	16.46	13.99	8.11	4.21	2.36	1.95	1.65	1.59	5.05 CMS
Max	2.13	2.34	15.20	11.05	40.50	37.50	12.01	7.15	4.30	2.62	1.92	2.83	40.50 CMS
Min	1.71	0.80	0.70	1.71	2.62	7.90	5.80	2.76	1.29	1.43	1.50	0.40	0.40 CMS
Runoff	4.940	4.532	7.730	9.428	44.082	36.266	21.735	10.904	6.310	5.221	3.992	4.270	159.410 MCM

Momentary Peak 116.30 CMS, at 26.00 M (MSL), at 20.00 Hours, on Aug 16, 1992
Runoff Yield 76.59 Liters/Second/Square KM, Momentary Peak Yield 1762.12 Liters/Second/Square KM

WATER YEAR 1992

EAST COAST-GULF BASIN

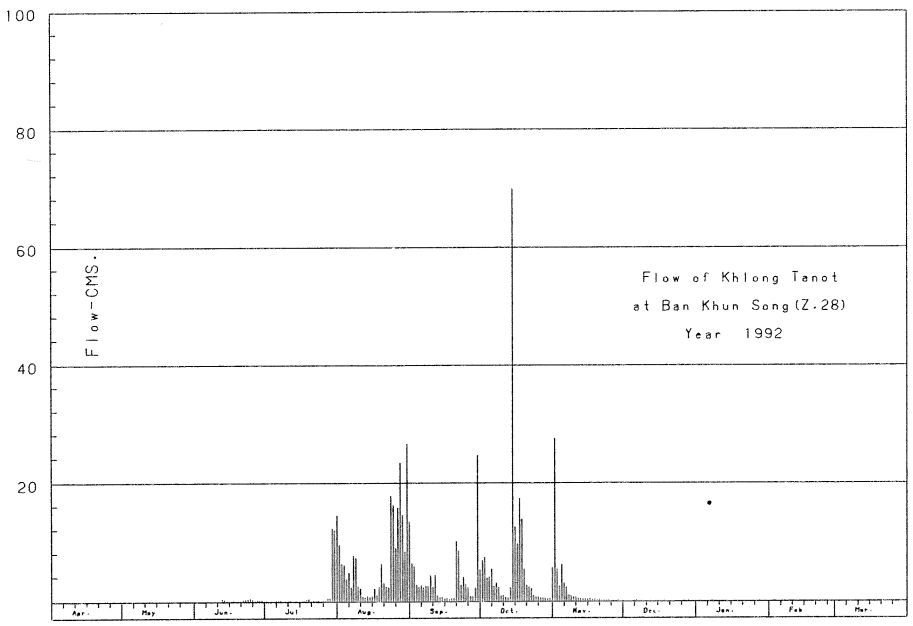
Khlong Tanot at Ban Khun Song, Chanthaburi (Z.28)

Location	Lat. 13°-04'-25" N., Long. 101°-56'-55" E., on right bank near Wat Khun Song, Tambon Kaeng Hang Maeo, Amphoe Tha Mai, Chanthaburi.
Drainage Area	267 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 10 meters from the top staff gage.
Elevation	+7.655 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1986 to date.
Rating Operation	
Period of Rating	1986 to date.
Rated by Float	-
Rated by Current Meter	1986 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	0.00	0.42	0.48	2.01	1.65	1.72	3.44	0.49	0.44	0.40	0.40	
2	0.21	0.00	0.42	0.48	1.62	1.57	1.77	1.51	0.48	0.44	0.40	0.40	
3	0.21	0.00	0.43	0.48	1.61	1.16	1.34	1.08	0.48	0.44	0.40	0.40	
4	0.20	0.00	0.43	0.48	1.30	0.94	1.35	1.63	0.48	0.43	0.40	0.40	
5	0.19	0.00	0.43	0.50	1.45	1.15	1.53	1.21	0.48	0.43	0.40	0.40	
6	0.18	0.00	0.43	0.49	1.02	0.86	1.08	0.95	0.47	0.43	0.40	0.40	
7	0.17	0.00	0.43	0.48	1.80	1.13	1.21	0.80	0.47	0.46	0.40	0.40	
8	0.17	0.00	0.43	0.48	1.77	1.09	0.89	0.73	0.47	0.45	0.40	0.40	
9	0.15	0.00	0.43	0.47	1.08	1.39	0.75	0.69	0.47	0.43	0.40	0.40	
10	0.14	0.01	0.43	0.47	0.85	1.05	0.75	0.65	0.46	0.43	0.40	0.40	
11	0.10	0.14	0.43	0.46	0.72	1.38	0.64	0.62	0.46	0.43	0.40	0.40	
12	0.10	0.25	0.58	0.46	0.65	0.74	0.64	0.59	0.46	0.43	0.40	0.41	
13	0.09	0.34	0.52	0.46	0.71	0.67	0.92	0.58	0.46	0.42	0.40	0.42	
14	0.09	0.40	0.50	0.46	0.70	0.63	5.67	0.57	0.46	0.42	0.40	0.43	
15	0.09	0.47	0.48	0.46	0.71	0.60	2.27	0.56	0.46	0.42	0.40	0.43	
16	0.08	0.45	0.48	0.46	0.84	0.58	2.02	0.56	0.46	0.41	0.40	0.42	
17	0.08	0.43	0.47	0.46	0.80	0.57	2.68	0.55	0.46	0.41	0.40	0.41	
18	0.07	0.43	0.49	0.56	0.98	0.57	2.40	0.54	0.45	0.40	0.40	0.40	
19	0.07	0.42	0.47	0.56	1.62	0.64	1.51	0.54	0.45	0.40	0.40	0.40	
20	0.06	0.41	0.47	0.49	1.21	2.06	1.15	0.53	0.45	0.40	0.40	0.40	
21	0.04	0.41	0.51	0.47	1.03	1.89	0.94	0.52	0.45	0.40	0.40	0.39	
22	0.04	0.43	0.57	0.46	1.03	1.16	0.83	0.52	0.44	0.40	0.40	0.39	
23	0.03	0.44	0.55	0.46	2.72	1.36	0.74	0.51	0.44	0.40	0.40	0.38	
24	0.03	0.43	0.62	0.46	2.60	1.15	0.69	0.51	0.44	0.40	0.40	0.38	
25	0.01	0.43	0.52	0.46	1.95	0.86	0.65	0.50	0.44	0.40	0.40	0.37	
26	0.00	0.43	0.50	0.52	2.55	0.74	0.64	0.50	0.44	0.40	0.40	0.37	
27	0.00	0.43	0.52	0.63	3.15	0.68	0.63	0.49	0.45	0.40	0.40	0.36	
28	0.00	0.43	0.53	0.60	2.46	0.93	0.60	0.49	0.45	0.40	0.40	0.36	
29	0.00	0.42	0.49	2.26	1.87	3.24	0.58	0.49	0.45	0.40		0.35	
30	0.00	0.42	0.48	2.22	3.37	1.50	0.57	0.49	0.45	0.40		0.35	
31		0.42		2.46	2.35		1.56		0.54	0.40		0.34	
Mean	0.09	0.27	0.48	0.67	1.57	1.13	1.31	0.78	0.46	0.42	0.40	0.39	
Max	0.21	0.47	0.62	2.46	3.37	3.24	5.67	3.44	0.54	0.46	0.40	0.43	5.67
Min	0.00	0.00	0.42	0.46	0.65	0.57	0.57	0.49	0.44	0.40	0.40	0.34	0.00

Annual Max Momentary Gage Height 5.91 M (A.D), at 12.00 Hours, on Oct 14, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.28 M (A.D)
Left Bank Elevation 8.15 M (A.D)
Right Bank Elevation 6.70 M (A.D), Drainage Area 267 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.04	0.16	9.71	6.50	7.06	27.70	0.18	0.08	0.00	0.00	
2	0.00	0.00	0.04	0.16	6.26	5.86	7.46	5.38	0.16	0.08	0.00	0.00	
3	0.00	0.00	0.06	0.16	6.18	2.86	4.02	2.48	0.16	0.08	0.00	0.00	
4	0.00	0.00	0.06	0.16	3.70	2.34	4.10	6.34	0.16	0.06	0.00	0.00	
5	0.00	0.00	0.06	0.20	4.90	2.80	5.54	3.16	0.16	0.06	0.00	0.00	
6	0.00	0.00	0.06	0.18	2.42	2.26	2.48	2.35	0.14	0.06	0.00	0.00	
7	0.00	0.00	0.06	0.16	7.70	2.68	3.16	1.10	0.14	0.12	0.00	0.00	
8	0.00	0.00	0.06	0.16	7.46	2.49	2.29	0.89	0.14	0.10	0.00	0.00	
9	0.00	0.00	0.06	0.14	2.48	4.42	0.95	0.77	0.14	0.06	0.00	0.00	
10	0.00	0.00	0.06	0.14	2.25	2.45	0.95	0.65	0.12	0.06	0.00	0.00	
11	0.00	0.00	0.06	0.12	0.86	4.34	0.62	0.56	0.12	0.06	0.00	0.00	
12	0.00	0.00	0.44	0.12	0.65	0.92	0.62	0.47	0.12	0.06	0.00	0.02	
13	0.00	0.00	0.26	0.12	0.83	0.71	2.32	0.44	0.12	0.04	0.00	0.04	
14	0.00	0.00	0.20	0.12	0.80	0.59	69.94	0.41	0.12	0.04	0.00	0.06	
15	0.00	0.14	0.16	0.12	0.83	0.50	12.57	0.38	0.12	0.04	0.00	0.06	
16	0.00	0.10	0.16	0.12	2.24	0.44	9.82	0.38	0.12	0.02	0.00	0.04	
17	0.00	0.06	0.14	0.12	1.10	0.41	17.36	0.35	0.12	0.02	0.00	0.02	
18	0.00	0.06	0.18	0.38	2.38	0.41	14.00	0.32	0.10	0.00	0.00	0.00	
19	0.00	0.04	0.14	0.38	6.26	0.62	5.38	0.32	0.10	0.00	0.00	0.00	
20	0.00	0.02	0.14	0.18	3.16	10.26	2.80	0.29	0.10	0.00	0.00	0.00	
21	0.00	0.02	0.23	0.14	2.43	8.51	2.34	0.26	0.10	0.00	0.00	0.00	
22	0.00	0.06	0.41	0.12	2.43	2.86	2.23	0.26	0.08	0.00	0.00	0.00	
23	0.00	0.08	0.35	0.12	17.86	4.18	0.92	0.23	0.08	0.00	0.00	0.00	
24	0.00	0.06	0.56	0.12	16.40	2.80	0.77	0.23	0.08	0.00	0.00	0.00	
25	0.00	0.06	0.26	0.12	9.10	2.26	0.65	0.20	0.08	0.00	0.00	0.00	
26	0.00	0.06	0.20	0.26	15.80	0.92	0.62	0.20	0.08	0.00	0.00	0.00	
27	0.00	0.06	0.26	0.59	23.60	0.74	0.59	0.18	0.10	0.00	0.00	0.00	
28	0.00	0.06	0.29	0.50	14.72	2.33	0.50	0.18	0.10	0.00	0.00	0.00	
29	0.00	0.04	0.18	12.46	8.33	24.86	0.44	0.18	0.10	0.00		0.00	
30	0.00	0.04	0.16	12.02	26.68	5.30	0.41	0.18	0.10	0.00		0.00	
31		0.04		14.72	13.45		5.78		0.32	0.00		0.00	
Total	0.00	1.00	5.34	44.57	222.97	108.62	188.69	56.84	3.86	1.04	0.00	0.24	633.17 CMSDAY
Mean	0.00	0.03	0.18	1.44	7.19	3.62	6.09	1.89	0.12	0.03	0.00	0.01	1.73 CMS
Max	0.00	0.14	0.56	14.72	26.68	24.86	69.94	27.70	0.32	0.12	0.00	0.06	69.94 CMS
Min	0.00	0.00	0.04	0.12	0.65	0.41	0.41	0.18	0.08	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.086	0.461	3.851	19.265	9.385	16.303	4.911	0.334	0.090	0.000	0.021	54.706 MCM

Momentary Peak 75.22 CMS, at 5.91 M (A.D), at 12.00 Hours, on Oct 14, 1992
Runoff Yield 6.50 Liters/Second/Square KM, Momentary Peak Yield 281.72 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

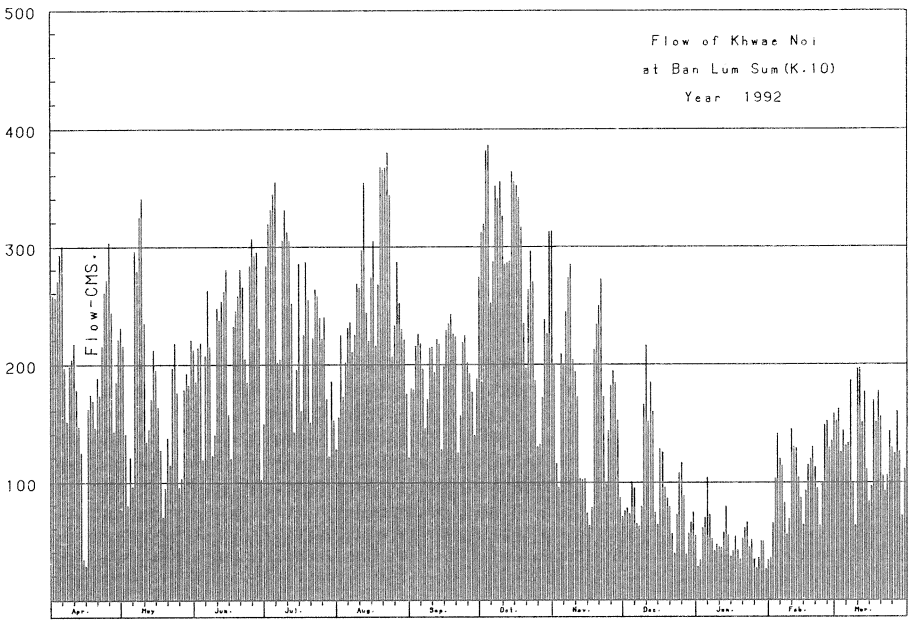
Khwae Noi River at Ban Lum Sum, Kanchanaburi (K.10)

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	Staff gage.
Zero Gage at Bottom	+30.40 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the gage site.
Elevation	+52.057 m. (M.S.L.)
Gage Reading Frequency	16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 16 readings.
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965 to date.
Rated by Float	-
Rated by Current Meter	1965 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 137 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.90	33.43	33.09	34.19	32.72	33.02	34.51	33.25	31.71	31.04	31.14	32.68	
2	33.89	32.54	33.41	34.58	33.53	33.01	34.58	32.23	31.75	31.11	31.56	32.80	
3	34.05	31.77	33.46	34.72	32.93	33.43	35.27	31.97	31.68	31.51	32.07	32.35	
4	34.29	32.29	32.26	34.86	33.28	33.55	35.33	33.36	32.03	31.63	32.54	32.57	
5	34.38	31.98	33.34	34.98	33.60	33.46	33.84	33.25	31.97	32.08	32.28	32.42	
6	33.22	34.32	33.96	33.27	33.66	33.22	34.23	33.75	31.56	31.67	32.20	32.44	
7	32.67	34.14	33.42	33.30	33.37	32.60	34.94	34.08	31.52	31.37	31.81	33.11	
8	33.24	34.65	32.31	34.43	33.54	32.91	34.82	34.20	31.77	31.23	31.43	32.02	
9	33.30	34.82	32.53	34.71	34.02	33.42	34.99	33.30	32.85	31.30	31.61	31.54	
10	33.45	33.65	33.79	34.51	33.98	33.42	34.66	33.19	33.44	31.28	32.59	33.22	
11	33.01	32.45	33.67	34.42	34.34	33.18	34.20	32.93	32.67	31.26	32.40	33.22	
12	32.61	32.59	33.85	33.83	34.97	33.50	34.22	32.07	33.09	31.46	32.39	32.66	
13	32.34	32.91	33.95	32.56	33.75	33.45	34.23	32.05	32.78	31.77	32.08	32.99	
14	31.12	33.39	34.15	33.21	33.48	32.38	35.08	32.07	31.69	31.41	31.86	32.16	
15	31.05	33.20	32.74	34.21	34.08	33.24	34.98	31.69	31.55	31.16	31.55	31.82	
16	32.80	32.82	32.28	32.78	34.42	33.58	34.95	31.53	32.38	31.22	31.94	31.99	
17	32.95	32.37	33.62	33.54	33.44	33.65	34.83	31.75	32.35	31.40	32.21	32.89	
18	32.89	31.64	33.76	34.22	34.01	33.73	34.55	33.40	31.97	31.24	32.28	32.67	
19	32.60	31.96	33.90	33.87	35.12	33.55	33.65	33.64	31.86	31.12	32.40	32.99	
20	33.13	32.49	34.15	32.66	35.09	33.52	33.22	33.81	31.76	31.38	32.19	32.72	
21	32.94	32.21	33.99	33.50	35.11	32.34	33.96	34.06	31.43	31.50	31.96	32.10	
22	33.43	33.22	33.31	33.97	35.26	32.74	34.33	32.94	31.20	31.58	31.53	31.93	
23	33.94	33.46	33.08	33.90	34.86	33.47	34.04	32.01	31.67	31.28	32.01	32.10	
24	34.05	32.98	34.19	33.70	33.33	33.53	33.10	32.57	32.12	31.36	32.63	32.57	
25	34.41	31.97	34.44	33.50	33.63	33.28	32.41	33.05	32.24	31.13	32.68	32.39	
26	33.75	32.06	34.28	33.70	34.23	33.17	32.43	33.20	31.88	31.02	32.39	32.34	
27	32.56	33.01	34.32	32.91	33.84	32.99	32.93	33.08	31.18	31.14	32.47	32.78	
28	33.09	33.18	33.60	32.30	33.59	32.53	33.68	32.69	31.44	31.35	32.75	32.35	
29	33.49	33.05	32.05	33.10	33.49	33.12	33.55	31.86	31.57	31.34		31.66	
30	33.60	33.49	32.65	32.68	32.97	34.08	34.51	31.64	31.70	31.01		32.17	
31		33.39		32.38	32.29		34.52		31.41	31.11		32.59	
Mean	33.20	32.95	33.45	33.69	33.87	33.24	34.21	32.82	31.94	31.34	32.11	32.46	
Max	34.41	34.82	34.44	34.98	35.26	34.08	35.33	34.20	33.44	32.08	32.75	33.22	35.33
Min	31.05	31.64	32.05	32.30	32.29	32.34	32.41	31.53	31.18	31.01	31.14	31.54	31.01

Annual Max Momentary Gage Height 35.73 M (MSL), at 21.00 Hours, on Aug 13, 1992
Zero Gage at Bottom Elevation 30.40 M (MSL), River Bed 29.59 M (MSL)
Left Bank Elevation 51.81 M (MSL)
Right Bank Elevation 46.49 M (MSL), Drainage Area 7008 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	258.00	215.70	185.20	284.10	155.60	179.60	312.90	199.50	75.70	28.80	35.80	152.40	
2	257.10	141.20	213.90	319.20	224.70	178.80	319.20	116.40	78.50	33.70	65.20	162.00	
3	271.50	79.90	218.40	331.80	172.40	215.70	381.30	95.60	73.60	61.70	103.60	126.00	
4	293.10	121.20	118.80	344.40	202.20	226.50	386.70	209.40	100.40	70.10	141.20	143.60	
5	301.20	96.40	207.60	355.20	231.00	218.40	252.60	199.50	95.60	104.40	120.40	131.60	
6	196.80	295.80	263.40	201.30	236.40	196.80	287.70	244.50	65.20	72.90	114.00	133.20	
7	151.60	279.60	214.80	204.00	210.30	146.00	351.60	274.20	62.40	51.90	82.80	186.90	
8	198.60	325.50	122.80	305.70	225.60	170.80	340.80	285.00	79.90	42.10	56.10	99.60	
9	204.00	340.80	140.40	330.90	268.80	214.80	356.10	204.00	166.00	47.00	68.70	63.80	
10	217.50	235.50	248.10	312.90	265.20	214.80	326.40	194.10	216.60	45.60	145.20	196.80	
11	178.80	134.00	237.30	304.80	297.60	193.20	285.00	172.40	151.60	44.20	130.00	196.80	
12	146.80	145.20	253.50	251.70	354.30	222.00	286.80	103.60	185.20	58.20	129.20	150.80	
13	125.20	170.80	262.50	142.80	244.50	217.50	287.70	102.00	160.40	79.90	104.40	177.20	
14	34.40	212.10	280.50	195.90	220.20	128.40	364.20	103.60	74.30	54.70	86.80	110.80	
15	29.50	195.00	157.20	285.90	274.20	198.60	355.20	74.30	64.50	37.20	64.50	83.60	
16	162.00	163.60	120.40	160.40	304.80	229.20	352.50	63.10	128.40	41.40	93.20	97.20	
17	174.00	127.60	232.80	225.60	216.60	235.50	341.70	78.50	126.00	54.00	114.80	169.20	
18	169.20	70.80	245.40	286.80	267.90	242.70	316.50	213.00	95.60	42.80	120.40	151.60	
19	146.00	94.80	258.00	255.30	367.80	226.50	235.50	234.60	86.80	34.40	130.00	177.20	
20	188.70	137.20	280.50	150.80	365.10	223.80	196.80	249.90	79.20	52.60	113.20	155.60	
21	173.20	114.80	266.10	222.00	366.90	125.20	263.40	272.40	56.10	61.00	94.80	106.00	
22	215.70	196.80	204.90	264.30	380.40	157.20	296.70	173.20	40.00	66.60	63.10	92.40	
23	261.60	218.40	184.40	258.00	344.40	219.30	270.60	98.80	72.90	45.60	98.80	106.00	
24	271.50	176.40	284.10	240.00	206.70	224.70	186.00	143.60	107.60	51.20	148.40	143.60	
25	303.90	95.60	306.60	222.00	233.70	202.20	130.80	182.00	117.20	35.10	152.40	129.20	
26	244.50	102.80	292.20	240.00	287.70	192.30	132.40	195.00	88.40	27.40	129.20	125.20	
27	142.80	178.80	295.80	170.80	252.60	177.20	172.40	184.40	38.60	35.80	135.60	160.40	
28	185.20	193.20	231.00	122.00	230.10	140.40	238.20	153.20	56.80	50.50	158.00	126.00	
29	221.10	182.00	102.00	186.00	221.10	187.80	226.50	86.80	65.90	49.80		72.20	
30	231.00	221.10	150.00	152.40	175.60	274.20	312.90	70.80	75.00	26.70		111.60	
31		212.10		128.40	121.20		313.80		54.70	33.70		145.20	
Total	5954.50	5474.70	6578.60	7455.40	7925.60	5980.10	8880.90	4977.40	2939.10	1541.00	2999.80	4183.70	64890.80 CMSDAY
Mean	198.48	176.60	219.29	240.50	255.66	199.34	286.48	165.91	94.81	49.71	107.14	134.96	177.78 CMS
Max	303.90	340.80	306.60	355.20	380.40	274.20	386.70	285.00	216.60	104.40	158.00	196.80	386.70 CMS
Min	29.50	70.80	102.00	122.00	121.20	125.20	130.80	63.10	38.60	26.70	35.80	63.80	26.70 CMS
Runoff	514.469	473.014	568.391	644.146	684.772	516.681	767.310	430.047	253.938	133.142	259.183	361.472	5606.565 MCM

Momentary Peak 425.90 CMS, at 35.73 M (MSL), at 21.00 Hours, on Aug 13, 1992
Runoff Yield 25.37 Liters/Second/Square KM, Momentary Peak Yield 60.77 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

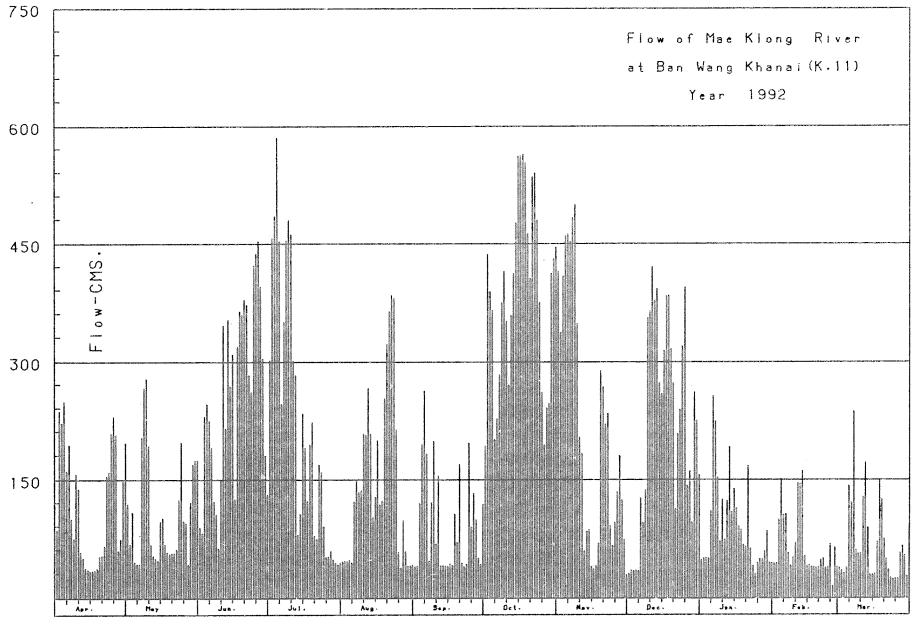
Mae Klong River at Ban Wang Khanai, Kanchanaburi (K.11)

Location	Lat. 13°-56'-55" N., Long. 99°-38'-42" E., on left bank about 3 kilometers downstream from Amphoe Tha Muang Office, Amphoe Tha Muang, Kanchanaburi.
Drainage Area	26,449 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+11.93 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 for irrigation of about 419,520 hectares above gage site. Stage-discharge relation defined by 67 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.56	11.74	11.58	12.54	11.29	11.24	12.09	12.96	11.17	11.30	11.27	11.23	
2	12.28	11.44	11.53	13.11	11.29	11.24	13.04	12.68	11.20	11.32	11.27	11.20	
3	12.22	11.69	12.25	13.21	11.29	11.75	12.87	12.94	11.20	11.32	11.64	11.17	
4	12.33	11.28	12.32	13.55	11.30	12.10	12.78	13.12	11.20	11.32	11.90	11.23	
5	11.95	11.26	12.23	13.10	11.28	12.39	12.13	13.13	11.20	11.70	11.67	11.86	
6	12.10	11.26	12.08	12.32	11.76	12.05	12.24	13.10	11.78	12.36	11.68	11.75	
7	11.64	12.14	11.76	12.73	11.89	11.29	12.47	13.20	11.62	12.23	11.37	12.28	
8	11.49	12.40	11.67	13.10	11.82	11.75	12.82	13.26	11.83	11.91	11.25	11.39	
9	11.93	12.45	11.41	13.19	11.82	12.12	12.96	12.72	12.75	11.47	11.32	11.36	
10	11.84	12.09	11.90	13.13	12.16	11.45	12.73	12.14	12.78	11.77	11.45	11.36	
11	11.37	11.44	12.71	12.54	12.15	11.92	12.42	12.05	12.98	11.48	11.88	11.79	
12	11.32	11.34	12.19	12.47	12.40	11.24	12.76	11.38	12.83	11.76	11.87	12.00	
13	11.22	11.31	12.74	11.52	12.16	11.25	12.95	11.55	12.88	12.09	11.95	11.58	
14	11.21	11.30	12.41	11.68	11.65	11.24	13.18	11.56	12.43	11.69	11.34	11.16	
15	11.19	11.62	12.57	12.27	11.79	11.24	13.47	11.24	12.37	11.84	11.25	11.16	
16	11.20	11.65	11.77	12.08	12.12	11.26	13.47	11.21	12.59	11.72	11.25	11.16	
17	11.20	11.44	12.61	11.76	11.74	11.25	13.48	11.25	12.85	11.59	11.24	11.46	
18	11.22	11.37	12.78	12.10	11.76	11.68	13.44	11.45	12.85	11.56	11.23	11.90	
19	11.33	11.36	12.76	12.22	12.35	11.46	13.13	12.49	12.60	11.44	11.23	11.77	
20	11.34	11.36	12.83	11.51	12.62	11.99	12.93	12.41	12.43	11.42	11.23	11.49	
21	11.43	11.36	12.81	11.49	12.78	11.27	13.38	12.21	11.71	11.98	11.30	11.31	
22	11.92	11.40	12.47	11.99	12.85	11.24	13.40	12.27	12.16	11.41	11.32	11.21	
23	11.94	11.77	12.38	11.94	12.84	11.26	13.19	11.59	12.29	11.25	11.23	11.12	
24	12.16	12.11	12.99	11.59	12.18	12.11	12.82	11.43	12.61	11.16	11.23	11.11	
25	12.25	11.63	13.04	11.33	11.37	11.58	12.38	11.62	12.89	11.28	11.44	11.11	
26	12.15	11.61	13.10	11.33	11.23	11.81	12.10	11.82	11.86	11.31	11.04	11.11	
27	11.39	11.26	12.89	11.38	11.63	11.64	12.30	12.04	11.95	11.31	11.42	11.37	
28	11.48	11.75	12.55	11.31	11.38	11.32	12.32	11.77	11.62	11.38	11.23	11.43	
29	11.89	11.99	12.04	11.27	11.24	11.26	12.95	11.48	12.38	11.55		11.34	
30	12.11	12.01	11.80	11.26	11.25	11.74	13.02	11.15	12.23	11.28		11.14	
31		12.01		11.27	11.25		13.07		11.93	11.27		11.59	
Mean	11.69	11.64	12.34	12.14	11.83	11.57	12.85	12.11	12.17	11.56	11.41	11.42	
Max	12.33	12.45	13.10	13.55	12.85	12.39	13.48	13.26	12.98	12.36	11.95	12.28	13.55
Min	11.19	11.26	11.41	11.26	11.23	11.24	12.09	11.15	11.17	11.16	11.04	11.11	11.04

Annual Max Momentary Gage Height 13.60 M (MSL), at 7.00 Hours, on Jul 4, 1992
Zero Gage at Bottom Elevation 11.93 M (MSL), River Bed 10.70 M (MSL)
Left Bank Elevation 22.10 M (MSL)
Right Bank Elevation 22.84 M (MSL), Drainage Area 26449 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	86.6	119.0	89.8	301.4	46.7	40.2	192.7	414.8	31.4	48.0	44.1	38.9	
2	237.2	68.0	81.8	456.9	46.7	40.2	437.2	337.8	35.0	50.8	44.1	35.0	
3	222.8	109.2	230.0	485.9	46.7	121.0	389.6	409.2	35.0	50.8	100.2	31.4	
4	249.2	45.4	246.8	586.0	48.0	195.0	364.6	459.8	35.0	50.8	151.0	38.9	
5	161.5	42.8	225.2	454.0	45.4	263.6	201.9	462.7	35.0	111.0	105.6	143.0	
6	195.0	42.8	190.4	246.8	123.0	183.5	227.6	454.0	127.0	256.4	107.4	121.0	
7	100.2	204.2	123.0	351.1	149.0	46.7	283.5	483.0	96.6	225.2	57.8	237.2	
8	75.5	266.0	105.6	454.0	135.0	121.0	375.6	500.4	137.0	153.1	41.5	60.6	
9	157.3	278.5	63.5	480.1	135.0	199.6	414.8	348.4	356.5	72.5	50.8	56.4	
10	139.0	192.7	151.0	462.7	208.8	69.5	351.1	204.2	364.6	125.0	69.5	56.4	
11	57.8	68.0	345.7	301.4	206.5	155.2	271.0	183.5	420.4	74.0	147.0	129.0	
12	50.8	53.6	215.7	283.5	266.0	40.2	359.2	59.2	378.4	123.0	145.0	172.0	
13	37.6	49.4	353.8	80.2	208.8	41.5	412.0	85.0	392.4	192.7	161.5	89.8	
14	36.3	48.0	268.5	107.4	102.0	40.2	477.2	86.6	273.5	109.2	53.6	30.2	
15	33.8	96.6	309.2	234.8	129.0	40.2	562.0	40.2	258.8	139.0	41.5	30.2	
16	35.0	102.0	125.0	190.4	199.6	42.8	562.0	36.3	314.4	115.0	41.5	30.2	
17	35.0	68.0	319.6	123.0	119.0	41.5	565.0	41.5	384.0	91.4	40.2	71.0	
18	37.6	57.8	364.6	195.0	123.0	107.4	553.0	69.5	384.0	86.6	38.9	151.0	
19	52.2	56.4	359.2	222.8	254.0	71.0	462.7	288.5	317.0	68.0	38.9	125.0	
20	53.6	56.4	378.4	78.6	322.2	169.9	406.4	268.5	273.5	65.0	38.9	75.5	
21	66.5	56.4	372.8	75.5	364.6	44.1	535.2	220.4	113.0	167.8	48.0	49.4	
22	155.2	62.0	283.5	169.9	384.0	40.2	541.0	234.8	208.8	63.5	50.8	36.3	
23	159.4	125.0	261.2	159.4	381.2	42.8	480.1	91.4	239.6	41.5	38.9	25.4	
24	208.8	197.3	423.2	91.4	213.4	197.3	375.6	66.5	319.6	30.2	38.9	24.2	
25	230.0	98.4	437.2	52.2	57.8	89.8	261.2	96.6	395.2	45.4	68.0	24.2	
26	206.5	94.8	454.0	52.2	38.9	133.0	195.0	135.0	143.0	49.4	15.8	24.2	
27	60.6	42.8	395.2	59.2	98.4	100.2	242.0	181.2	161.5	49.4	65.0	57.8	
28	74.0	121.0	304.0	49.4	59.2	50.8	246.8	125.0	96.6	59.2	38.9	66.5	
29	149.0	169.9	181.2	44.1	40.2	42.8	412.0	74.0	261.2	85.0		53.6	
30	197.3	174.3	131.0	42.8	41.5	119.0	431.6	29.0	225.2	45.4		27.8	
31		174.3		44.1	41.5		445.6		157.3	44.1		91.4	
Total	3561.3	3341.0	7790.1	6936.2	4635.1	2890.2	12035.2	6487.0	6970.5	2888.4	1883.3	2203.5	61621.8 CMSDAY
Mean	118.7	107.8	259.7	223.7	149.5	96.3	388.2	216.2	224.9	93.2	67.3	71.1	168.8 CMS
Max	249.2	278.5	454.0	586.0	384.0	263.6	565.0	500.4	420.4	256.4	161.5	237.2	586.0 CMS
Min	33.8	42.8	63.5	42.8	38.9	40.2	192.7	29.0	31.4	30.2	15.8	24.2	15.8 CMS
Runoff	307.70	288.66	673.06	599.29	400.47	249.71	1039.84	560.48	602.25	249.56	162.72	190.38	5324.12 MCM

Momentary Peak 601.00 CMS, at 13.60 M (MSL), at 7.00 Hours, on Jul 4, 1992

Runoff Yield 6.38 Liters/Second/Square KM, Momentary Peak Yield 22.72 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

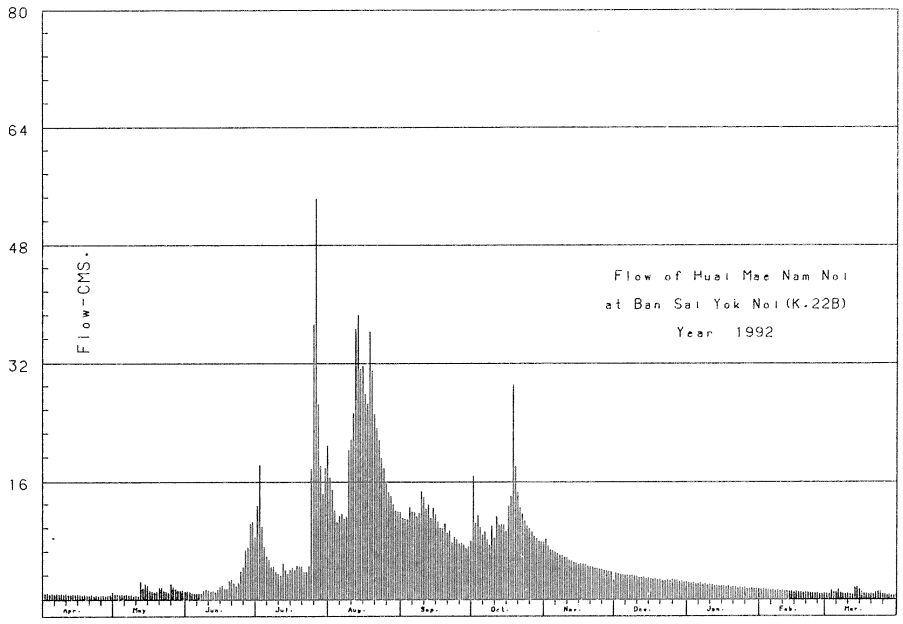
Huai Mae Nam Noi at Ban Sai Yok Noi, Kanchanaburi (K.22B)

Location	Lat. 14°-26'-59" N., Long. 98°-48'-08" E., on right bank about 640 meters upstream from station K.22A, Amphoe Sai Yok, Kanchanaburi.
Drainage Area	320 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+67.00 m.(M.S.L)
Bench Mark	B.M.-H.D.
Location	On right bank about 10 meters from the top staff gage.
Elevation	+73.578 m.(M.S.L)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1989 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 95 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.01	68.00	68.04	68.85	69.04	68.77	69.05	68.61	68.28	68.16	68.07	68.00	
2	68.01	67.99	68.03	69.12	68.96	68.76	68.73	68.55	68.27	68.16	68.07	68.00	
3	68.00	67.99	68.01	68.71	68.82	68.76	68.79	68.52	68.27	68.16	68.07	68.05	
4	68.00	67.99	68.01	68.54	68.74	68.84	68.70	68.51	68.26	68.15	68.06	68.03	
5	68.00	67.98	68.01	68.46	68.78	68.81	68.64	68.50	68.26	68.15	68.06	68.03	
6	68.00	67.99	68.00	68.42	68.80	68.81	68.67	68.48	68.25	68.15	68.06	68.06	
7	68.00	67.99	68.01	68.35	68.76	68.78	68.60	68.47	68.25	68.14	68.05	68.02	
8	68.00	67.98	68.04	68.35	68.78	68.80	68.56	68.46	68.25	68.14	68.05	68.00	
9	68.00	67.97	68.07	68.30	69.21	68.95	68.71	68.45	68.25	68.13	68.05	68.00	
10	68.00	67.97	68.05	68.27	69.28	68.91	68.62	68.44	68.24	68.13	68.05	68.00	
11	67.99	67.97	68.04	68.25	69.44	68.83	68.78	68.42	68.23	68.13	68.04	67.99	
12	67.99	68.18	68.04	68.39	69.92	68.86	68.72	68.41	68.23	68.12	68.04	67.99	
13	67.99	68.09	68.03	68.32	70.00	68.77	68.72	68.40	68.23	68.12	68.04	68.10	
14	67.99	68.14	68.06	68.27	69.70	68.84	68.72	68.39	68.22	68.12	68.04	68.10	
15	67.99	68.12	68.11	68.32	69.72	68.79	68.67	68.38	68.22	68.12	68.03	68.07	
16	67.98	68.05	68.12	68.34	69.56	68.74	68.85	68.38	68.21	68.11	68.03	68.03	
17	67.98	68.03	68.08	68.32	69.50	68.70	68.92	68.38	68.21	68.11	68.03	68.01	
18	67.98	68.03	68.07	68.36	69.91	68.69	69.61	68.37	68.21	68.11	68.02	68.00	
19	67.98	68.03	68.19	68.36	69.69	68.73	69.11	68.36	68.20	68.10	68.02	68.00	
20	67.98	68.10	68.20	68.35	69.44	68.66	68.94	68.35	68.20	68.10	68.02	68.00	
21	67.98	68.09	68.15	68.29	69.35	68.67	68.84	68.35	68.19	68.10	68.02	68.00	
22	67.97	68.05	68.12	68.30	69.28	68.58	68.80	68.34	68.19	68.09	68.02	68.02	
23	67.97	68.03	68.16	68.36	69.16	68.62	68.75	68.33	68.19	68.09	68.01	68.04	
24	67.97	68.02	68.30	69.09	69.10	68.60	68.71	68.33	68.19	68.09	68.01	68.03	
25	67.97	68.15	68.35	69.95	69.00	68.57	68.69	68.32	68.20	68.09	68.01	68.00	
26	67.97	68.10	68.51	70.60	68.94	68.57	68.67	68.31	68.20	68.08	68.00	67.99	
27	67.97	68.08	68.54	69.50	68.92	68.56	68.63	68.31	68.19	68.08	68.00	67.98	
28	67.97	68.05	68.73	69.11	68.86	68.53	68.61	68.30	68.18	68.08	68.00	67.98	
29	67.99	68.05	68.74	68.93	68.82	68.54	68.59	68.30	68.18	68.08		67.97	
30	68.02	68.05	68.62	69.10	68.81	68.59	68.58	68.20	68.17	68.07		67.97	
31		68.04		69.24	68.81		68.58		68.17	68.07		67.99	
Mean	67.99	68.04	68.18	68.68	69.20	68.72	68.76	68.40	68.22	68.11	68.03	68.01	
Max	68.02	68.18	68.74	70.60	70.00	68.95	69.61	68.61	68.28	68.16	68.07	68.10	70.60
Min	67.97	67.97	68.00	68.25	68.74	68.53	68.56	68.20	68.17	68.07	68.00	67.97	67.97

Annual Max Momentary Gage Height 71.38 M (MSL), at 12.00 Hours, on Jul 26, 1992
Zero Gage at Bottom Elevation 67.00 M (MSL), River Bed 67.09 M (MSL)
Left Bank Elevation 75.47 M (MSL)
Right Bank Elevation 73.44 M (MSL), Drainage Area 320 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.89	0.80	1.16	12.70	16.64	11.13	16.85	8.27	3.58	2.30	1.43	0.80	
2	0.89	0.72	1.07	18.32	14.96	10.94	10.37	7.30	3.47	2.30	1.43	0.80	
3	0.80	0.72	0.89	9.99	12.10	10.94	11.51	6.82	3.47	2.30	1.43	1.25	
4	0.80	0.72	0.89	7.14	10.56	12.50	9.80	6.66	3.36	2.20	1.34	1.07	
5	0.80	0.64	0.89	5.94	11.32	11.90	8.78	6.50	3.36	2.20	1.34	1.07	
6	0.80	0.72	0.80	5.38	11.70	11.90	9.29	6.22	3.25	2.20	1.34	1.34	
7	0.80	0.72	0.89	4.45	10.94	11.32	8.10	6.08	3.25	2.10	1.25	0.98	
8	0.80	0.64	1.16	4.45	11.32	11.70	7.46	5.94	3.25	2.10	1.25	0.80	
9	0.80	0.56	1.43	3.80	20.21	14.75	9.99	5.80	3.25	2.00	1.25	0.80	
10	0.80	0.56	1.25	3.47	21.68	13.91	8.44	5.66	3.14	2.00	1.25	0.80	
11	0.72	0.56	1.16	3.25	25.18	12.30	11.32	5.38	3.03	2.00	1.16	0.72	
12	0.72	2.50	1.16	4.97	36.60	12.90	10.18	5.24	3.03	1.90	1.16	0.72	
13	0.72	1.61	1.07	4.06	38.60	11.13	10.18	5.10	3.03	1.90	1.16	1.70	
14	0.72	2.10	1.34	3.47	31.20	12.50	10.18	4.97	2.92	1.90	1.16	1.70	
15	0.72	1.90	1.80	4.06	31.68	11.51	9.29	4.84	2.92	1.90	1.07	1.43	
16	0.64	1.25	1.90	4.32	27.88	10.56	12.70	4.84	2.81	1.80	1.07	1.07	
17	0.64	1.07	1.52	4.06	26.50	9.80	14.12	4.84	2.81	1.80	1.07	0.89	
18	0.64	1.07	1.43	4.58	36.35	9.63	29.04	4.71	2.81	1.80	0.98	0.80	
19	0.64	1.07	2.60	4.58	30.96	10.37	18.11	4.58	2.70	1.70	0.98	0.80	
20	0.64	1.70	2.70	4.45	25.18	9.12	14.54	4.45	2.70	1.70	0.98	0.80	
21	0.64	1.61	2.20	3.69	23.20	9.29	12.50	4.45	2.60	1.70	0.98	0.80	
22	0.56	1.25	1.90	3.80	21.68	7.78	11.70	4.32	2.60	1.61	0.98	0.98	
23	0.56	1.07	2.30	4.58	19.16	8.44	10.75	4.19	2.60	1.61	0.89	1.16	
24	0.56	0.98	3.80	17.69	17.90	8.10	9.99	4.19	2.60	1.61	0.89	1.07	
25	0.56	2.20	4.45	37.35	15.80	7.62	9.63	4.06	2.70	1.61	0.89	0.80	
26	0.56	1.70	6.66	54.40	14.54	7.62	9.29	3.93	2.70	1.52	0.80	0.72	
27	0.56	1.52	7.14	26.50	14.12	7.46	8.61	3.93	2.60	1.52	0.80	0.64	
28	0.56	1.25	10.37	18.11	12.90	6.98	8.27	3.80	2.50	1.52	0.80	0.64	
29	0.72	1.25	10.56	14.33	12.10	7.14	7.94	3.80	2.50	1.52		0.56	
30	0.98	1.25	8.44	17.90	11.90	7.94	7.78	2.70	2.40	1.43		0.56	
31		1.16		20.84	11.90		7.78		2.40	1.43		0.72	
Total	21.24	36.87	84.93	336.63	626.76	309.18	344.49	153.57	90.34	57.18	31.13	28.99	2121.31 CMSDAY
Mean	0.71	1.19	2.83	10.86	20.22	10.31	11.11	5.12	2.91	1.84	1.11	0.94	5.81 CMS
Max	0.98	2.50	10.56	54.40	38.60	14.75	29.04	8.27	3.58	2.30	1.43	1.70	54.40 CMS
Min	0.56	0.56	0.80	3.25	10.56	6.98	7.46	2.70	2.40	1.43	0.80	0.56	0.56 CMS
Runoff	1.835	3.186	7.338	29.085	54.152	26.713	29.764	13.268	7.805	4.940	2.690	2.505	183.281 MCM

Momentary Peak 76.42 CMS, at 71.38 M (MSL), at 12.00 Hours, on Jul 26, 1992

Runoff Yield 18.16 Liters/Second/Square KM, Momentary Peak Yield 238.81 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

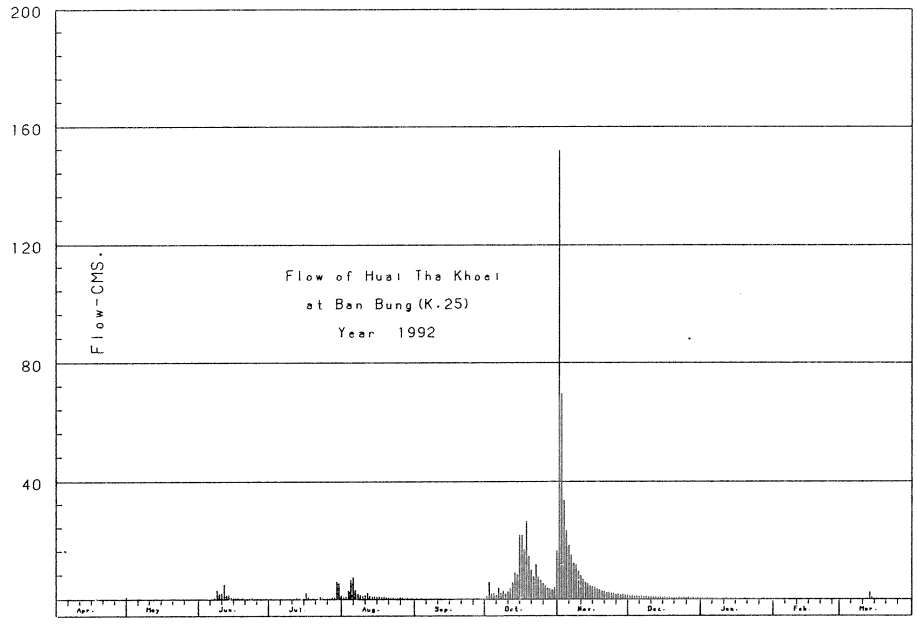
Huai Tha Khaei at Ban Bung, Ratchaburi (K.25)

Location	Lat. 13°25′42″ N., Long. 99°24′25″ E., on left bank at Ban Bung, Tambon Suan Phung, Amphoe Suan Phung, Ratchaburi.
Drainage Area	482 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank near the abutment of the bridge.
Elevation	+7.411 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1968 - 1970, 1982 to date.
Rating Operation	
Period of Rating	1982 to date.
Rated by Float	-
Rated by Current Meter	1982 to date.
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 234 discharge measurements made in 1992.

Gage Height in Meter (AD.), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	1.10	1.06	1.17	1.35	1.21	1.37	5.16	1.46	1.25	1.17	1.12	
2	1.05	1.09	1.06	1.16	1.35	1.21	2.20	4.47	1.45	1.25	1.17	1.12	
3	1.05	1.07	1.06	1.16	1.79	1.21	1.55	3.93	1.43	1.24	1.17	1.12	
4	1.05	1.07	1.06	1.15	2.27	1.20	1.58	3.60	1.42	1.24	1.16	1.12	
5	1.05	1.18	1.08	1.13	2.42	1.20	1.49	3.35	1.41	1.23	1.16	1.12	
6	1.05	1.12	1.11	1.13	1.82	1.20	1.93	3.12	1.40	1.23	1.16	1.12	
7	1.05	1.09	1.26	1.13	1.61	1.20	1.60	2.91	1.39	1.23	1.16	1.12	
8	1.05	1.07	1.82	1.14	1.51	1.19	1.74	2.84	1.38	1.22	1.15	1.11	
9	1.04	1.07	1.57	1.15	1.44	1.19	1.57	2.65	1.36	1.22	1.15	1.11	
10	1.04	1.06	1.61	1.13	1.46	1.19	1.74	2.48	1.36	1.22	1.14	1.11	
11	1.04	1.06	2.12	1.13	1.67	1.18	1.88	2.30	1.34	1.21	1.14	1.11	
12	1.04	1.06	1.51	1.28	1.43	1.17	2.18	2.20	1.33	1.21	1.14	1.21	
13	1.04	1.07	1.50	1.24	1.41	1.16	2.58	2.12	1.32	1.21	1.14	1.70	
14	1.04	1.06	1.35	1.18	1.38	1.16	2.50	2.04	1.32	1.21	1.14	1.30	
15	1.04	1.06	1.28	1.21	1.37	1.15	3.53	1.97	1.31	1.21	1.14	1.23	
16	1.04	1.07	1.25	1.66	1.36	1.15	3.54	1.94	1.31	1.20	1.14	1.19	
17	1.24	1.11	1.24	1.28	1.38	1.15	3.25	1.89	1.30	1.19	1.14	1.18	
18	1.10	1.08	1.23	1.21	1.38	1.15	3.72	1.81	1.30	1.19	1.14	1.17	
19	1.07	1.08	1.23	1.18	1.33	1.15	3.10	1.76	1.29	1.19	1.14	1.16	
20	1.06	1.07	1.22	1.17	1.30	1.14	2.67	1.72	1.29	1.19	1.14	1.16	
21	1.05	1.10	1.21	1.18	1.29	1.13	2.43	1.69	1.28	1.19	1.14	1.17	
22	1.05	1.10	1.25	1.40	1.27	1.13	2.86	1.66	1.28	1.19	1.13	1.16	
23	1.05	1.08	1.21	1.20	1.25	1.12	2.40	1.63	1.28	1.19	1.13	1.16	
24	1.05	1.07	1.19	1.20	1.24	1.12	2.28	1.60	1.27	1.19	1.13	1.16	
25	1.05	1.07	1.18	1.18	1.31	1.12	2.15	1.56	1.27	1.18	1.13	1.15	
26	1.05	1.06	1.17	1.22	1.25	1.14	2.02	1.55	1.27	1.18	1.13	1.15	
27	1.04	1.06	1.19	1.32	1.24	1.18	1.94	1.53	1.28	1.17	1.13	1.15	
28	1.04	1.11	1.23	1.31	1.23	1.15	1.86	1.51	1.27	1.17	1.12	1.15	
29	1.06	1.10	1.19	2.24	1.22	1.15	1.83	1.49	1.26	1.17		1.14	
30	1.40	1.07	1.18	2.14	1.22	1.18	1.92	1.48	1.26	1.17		1.14	
31		1.07		1.46	1.21		3.22		1.26	1.17		1.16	
Mean	1.07	1.08	1.29	1.29	1.44	1.17	2.28	2.33	1.33	1.20	1.14	1.17	
Max	1.40	1.18	2.12	2.24	2.42	1.21	3.72	5.16	1.46	1.25	1.17	1.70	5.16
Min	1.04	1.06	1.06	1.13	1.21	1.12	1.37	1.48	1.26	1.17	1.12	1.11	1.04

Annual Max Momentary Gage Height 5.33 M (AD.), at 7.00 Hours, on Nov 1, 1992
Zero Gage at Bottom Elevation 0.00 M (AD.), River Bed 0.71 M (AD.)
Left Bank Elevation 5.87 M (AD.)
Right Bank Elevation 5.72 M (AD.), Drainage Area 482 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.050	0.100	0.060	0.310	0.850	0.430	0.910	152.120	1.300	0.550	0.310	0.160	
2	0.050	0.090	0.060	0.280	0.850	0.430	5.900	69.440	1.250	0.550	0.310	0.160	
3	0.050	0.070	0.060	0.280	3.040	0.430	1.750	33.650	1.150	0.520	0.310	0.160	
4	0.050	0.070	0.060	0.250	6.460	0.400	1.900	23.200	1.100	0.520	0.280	0.160	
5	0.050	0.340	0.080	0.190	7.660	0.400	1.450	18.350	1.050	0.490	0.280	0.160	
6	0.050	0.160	0.130	0.190	3.220	0.400	3.910	14.960	1.000	0.490	0.280	0.160	
7	0.050	0.090	0.580	0.190	2.050	0.400	2.000	12.410	0.970	0.490	0.280	0.160	
8	0.050	0.070	3.220	0.220	1.550	0.370	2.740	11.640	0.940	0.460	0.250	0.130	
9	0.040	0.070	1.850	0.250	1.200	0.370	1.850	9.700	0.880	0.460	0.250	0.130	
10	0.040	0.060	2.050	0.190	1.300	0.370	2.740	8.140	0.880	0.460	0.220	0.130	
11	0.040	0.060	5.260	0.190	2.350	0.340	3.580	6.700	0.820	0.430	0.220	0.130	
12	0.040	0.060	1.550	0.640	1.150	0.310	5.740	5.900	0.790	0.430	0.220	0.430	
13	0.040	0.070	1.500	0.520	1.050	0.280	9.020	5.260	0.760	0.430	0.220	2.500	
14	0.040	0.060	0.850	0.340	0.940	0.280	8.300	4.680	0.760	0.430	0.220	0.700	
15	0.040	0.060	0.640	0.430	0.910	0.250	21.660	4.190	0.730	0.430	0.220	0.490	
16	0.040	0.070	0.550	2.300	0.880	0.250	21.880	3.980	0.730	0.400	0.220	0.370	
17	0.520	0.130	0.520	0.640	0.940	0.250	16.750	3.640	0.700	0.370	0.220	0.340	
18	0.100	0.080	0.490	0.430	0.940	0.250	26.300	3.160	0.700	0.370	0.220	0.310	
19	0.070	0.080	0.490	0.340	0.790	0.250	14.700	2.860	0.670	0.370	0.220	0.280	
20	0.060	0.070	0.460	0.310	0.700	0.220	9.900	2.620	0.670	0.370	0.220	0.280	
21	0.050	0.100	0.430	0.340	0.670	0.190	7.740	2.450	0.640	0.370	0.220	0.310	
22	0.050	0.100	0.550	1.000	0.610	0.190	11.860	2.300	0.640	0.370	0.190	0.280	
23	0.050	0.080	0.430	0.400	0.550	0.160	7.500	2.150	0.640	0.370	0.190	0.280	
24	0.050	0.070	0.370	0.400	0.520	0.160	6.540	2.000	0.610	0.370	0.190	0.280	
25	0.050	0.070	0.340	0.340	0.730	0.160	5.500	1.800	0.610	0.340	0.190	0.250	
26	0.050	0.060	0.310	0.460	0.550	0.220	4.540	1.750	0.610	0.340	0.190	0.250	
27	0.040	0.060	0.370	0.760	0.520	0.340	3.980	1.650	0.640	0.310	0.190	0.250	
28	0.040	0.130	0.490	0.730	0.490	0.250	3.460	1.550	0.610	0.310	0.160	0.250	
29	0.060	0.100	0.370	6.220	0.460	0.250	3.280	1.450	0.580	0.310		0.220	
30	1.000	0.070	0.340	5.420	0.460	0.340	3.840	1.400	0.580	0.310		0.220	
31		0.070		1.300	0.430		16.300		0.580	0.310		0.280	
Total	2.910	2.770	24.460	25.860	44.820	8.940	237.520	415.100	24.590	12.730	6.490	10.210	816.400 CMSDAY
Mean	0.097	0.089	0.815	0.834	1.446	0.298	7.662	13.837	0.793	0.411	0.232	0.329	2.237 CMS
Max	1.000	0.340	5.260	6.220	7.660	0.430	26.300	152.120	1.300	0.550	0.310	2.500	152.120 CMS
Min	0.040	0.060	0.060	0.190	0.430	0.160	0.910	1.400	0.580	0.310	0.160	0.130	0.040 CMS
Runoff	0.251	0.239	2.113	2.234	3.872	0.772	20.522	35.865	2.125	1.100	0.561	0.882	70.537 MCM

Momentary Peak 178.03 CMS, at 5.33 M (AD.), at 7.00 Hours, on Nov 1, 1992

Runoff Yield 4.64 Liters/Second/Square KM, Momentary Peak Yield 369.36 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

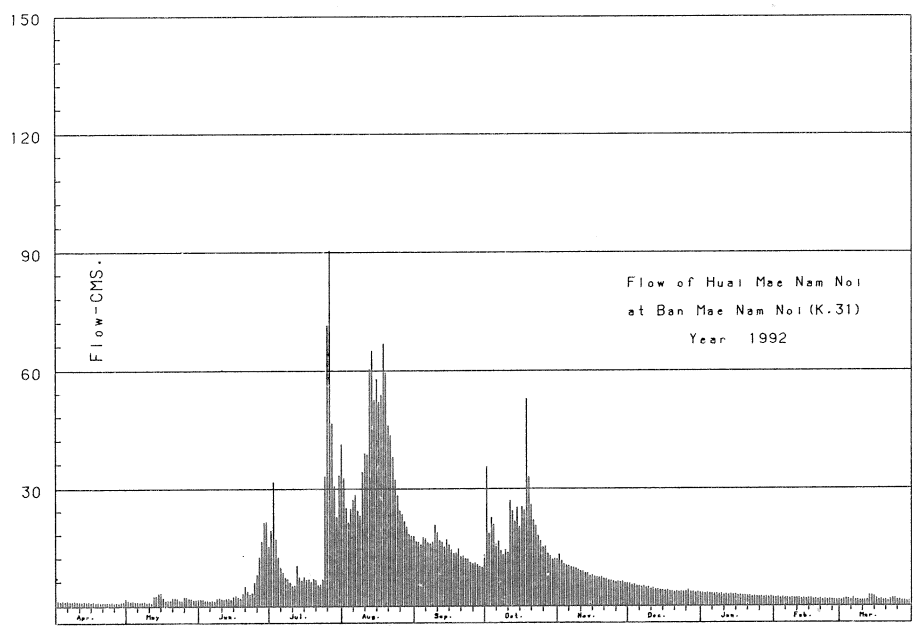
Huai Mae Nam Noi at Ban Mae Nam Noi, Kanchanaburi (K.31)

Location	Lat. 14°-26'-01" N., Long. 98°-48'-40" E., on right bank about 2 kilometers downstream from station K.22A, Amphoe Sai Yok, Kanchanaburi.
Drainage Area	777 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+62.72 m.(M.S.L)
Bench Mark	B.M.-H.D.
Location	On right bank about 5 meters from the top staff gage.
Elevation	+70.537 m.(M.S.L)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 106 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	63.29	63.29	63.33	64.07	64.45	63.98	64.52	63.86	63.55	63.43	63.36	63.31	
2	63.29	63.30	63.32	64.43	64.25	63.97	64.05	63.80	63.54	63.43	63.36	63.32	
3	63.29	63.28	63.31	64.00	64.14	63.95	64.18	63.76	63.54	63.43	63.36	63.35	
4	63.29	63.28	63.31	63.83	64.24	64.01	64.12	63.75	63.53	63.43	63.36	63.33	
5	63.29	63.27	63.30	63.73	64.31	64.00	63.95	63.74	63.52	63.42	63.35	63.32	
6	63.28	63.27	63.30	63.67	64.34	63.97	63.98	63.73	63.52	63.42	63.35	63.35	
7	63.28	63.27	63.30	63.62	64.23	63.96	63.90	63.72	63.52	63.42	63.35	63.32	
8	63.28	63.27	63.34	63.60	64.19	63.97	63.85	63.72	63.51	63.42	63.35	63.31	
9	63.28	63.26	63.36	63.57	64.49	64.12	63.90	63.70	63.51	63.42	63.35	63.31	
10	63.27	63.25	63.34	63.53	64.60	64.05	63.88	63.69	63.50	63.41	63.35	63.31	
11	63.27	63.25	63.32	63.53	64.59	63.99	64.30	63.68	63.50	63.41	63.35	63.30	
12	63.27	63.39	63.34	63.75	65.05	63.97	64.23	63.67	63.49	63.41	63.34	63.32	
13	63.27	63.38	63.34	63.62	65.14	63.93	64.15	63.66	63.48	63.41	63.34	63.39	
14	63.27	63.43	63.33	63.59	64.89	63.99	64.25	63.64	63.48	63.41	63.34	63.40	
15	63.26	63.43	63.37	63.62	65.00	63.95	64.10	63.64	63.47	63.41	63.34	63.37	
16	63.26	63.35	63.39	63.59	64.88	63.90	64.26	63.63	63.47	63.40	63.34	63.34	
17	63.26	63.31	63.36	63.60	64.92	63.87	64.23	63.62	63.47	63.40	63.33	63.32	
18	63.25	63.31	63.35	63.57	65.18	63.87	64.90	63.62	63.46	63.40	63.33	63.32	
19	63.25	63.31	63.43	63.61	65.03	63.91	64.46	63.62	63.45	63.39	63.33	63.31	
20	63.25	63.35	63.52	63.59	64.76	63.84	64.27	63.61	63.45	63.39	63.33	63.31	
21	63.25	63.36	63.46	63.54	64.70	63.84	64.16	63.60	63.45	63.39	63.32	63.30	
22	63.25	63.34	63.41	63.54	64.58	63.82	64.11	63.59	63.45	63.38	63.32	63.32	
23	63.25	63.31	63.44	63.60	64.44	63.81	64.03	63.58	63.45	63.38	63.32	63.35	
24	63.25	63.30	63.56	64.46	64.34	63.78	63.98	63.58	63.45	63.38	63.32	63.34	
25	63.24	63.38	63.65	65.27	64.23	63.77	63.93	63.57	63.46	63.38	63.32	63.32	
26	63.24	63.36	63.83	65.61	64.20	63.77	63.93	63.57	63.47	63.37	63.31	63.31	
27	63.24	63.35	63.98	64.77	64.15	63.76	63.87	63.57	63.45	63.37	63.31	63.30	
28	63.25	63.33	64.14	64.40	64.10	63.73	63.84	63.57	63.44	63.37	63.31	63.29	
29	63.28	63.32	64.14	64.18	64.04	63.73	63.81	63.56	63.44	63.37		63.29	
30	63.33	63.31	63.93	64.47	64.02	63.85	63.81	63.55	63.44	63.37		63.29	
31		63.32		64.65	64.02		63.81		63.44	63.36		63.29	
Mean	63.27	63.32	63.48	63.96	64.50	63.90	64.09	63.65	63.48	63.40	63.34	63.32	
Max	63.33	63.43	64.14	65.61	65.18	64.12	64.90	63.86	63.55	63.43	63.36	63.40	65.61
Min	63.24	63.25	63.30	63.53	64.02	63.73	63.81	63.55	63.44	63.36	63.31	63.29	63.24

Annual Max Momentary Gage Height 65.55 M (MSL), at 18.00 Hours, on Aug 18, 1992
Zero Gage at Bottom Elevation 62.72 M (MSL), River Bed 62.87 M (MSL)
Left Bank Elevation 71.21 M (MSL)
Right Bank Elevation 71.24 M (MSL), Drainage Area 777 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.31	1.31	1.82	19.30	32.65	16.62	35.56	13.26	5.75	3.34	2.24	1.54	
2	1.31	1.40	1.68	31.83	25.15	16.33	18.70	11.70	5.52	3.34	2.24	1.68	
3	1.31	1.22	1.54	17.20	21.48	15.75	22.76	10.74	5.52	3.34	2.24	2.10	
4	1.31	1.22	1.54	12.48	24.80	17.50	20.84	10.50	5.29	3.34	2.24	1.82	
5	1.31	1.13	1.40	10.02	27.27	17.20	15.75	10.26	5.06	3.16	2.10	1.68	
6	1.22	1.13	1.40	8.58	28.38	16.33	16.62	10.02	5.06	3.16	2.10	2.10	
7	1.22	1.13	1.40	7.38	24.45	16.04	14.30	9.78	5.06	3.16	2.10	1.68	
8	1.22	1.13	1.96	6.90	23.08	16.33	13.00	9.78	4.83	3.16	2.10	1.54	
9	1.22	1.04	2.24	6.21	34.29	20.84	14.30	9.30	4.83	3.16	2.10	1.54	
10	1.13	0.95	1.96	5.29	39.00	18.70	13.78	9.06	4.60	2.98	2.10	1.54	
11	1.13	0.95	1.68	5.29	38.57	16.91	26.90	8.82	4.60	2.98	2.10	1.40	
12	1.13	2.66	1.96	10.50	60.50	16.33	24.45	8.58	4.42	2.98	1.96	1.68	
13	1.13	2.52	1.96	7.38	65.00	15.17	21.80	8.34	4.24	2.98	1.96	2.66	
14	1.13	3.34	1.82	6.67	52.50	16.91	25.15	7.86	4.24	2.98	1.96	2.80	
15	1.04	3.34	2.38	7.38	58.00	15.75	20.20	7.86	4.06	2.98	1.96	2.38	
16	1.04	2.10	2.66	6.67	52.00	14.30	25.50	7.62	4.06	2.80	1.96	1.96	
17	1.04	1.54	2.24	6.90	54.00	13.52	24.45	7.38	4.06	2.80	1.82	1.68	
18	0.95	1.54	2.10	6.21	67.00	13.52	53.00	7.38	3.88	2.80	1.82	1.68	
19	0.95	1.54	3.34	7.14	59.50	14.59	33.06	7.38	3.70	2.66	1.82	1.54	
20	0.95	2.10	5.06	6.67	46.20	12.74	25.85	7.14	3.70	2.66	1.82	1.54	
21	0.95	2.24	3.88	5.52	43.50	12.74	22.12	6.90	3.70	2.66	1.68	1.40	
22	0.95	1.96	2.98	5.52	38.14	12.22	20.52	6.67	3.70	2.52	1.68	1.68	
23	0.95	1.54	3.52	6.90	32.24	11.96	18.10	6.44	3.70	2.52	1.68	2.10	
24	0.95	1.40	5.98	33.06	28.38	11.22	16.62	6.44	3.70	2.52	1.68	1.96	
25	0.86	2.52	8.10	71.50	24.45	10.98	15.17	6.21	3.88	2.52	1.68	1.68	
26	0.86	2.24	12.48	90.60	23.40	10.98	15.17	6.21	4.06	2.38	1.54	1.54	
27	0.86	2.10	16.62	46.65	21.80	10.74	13.52	6.21	3.70	2.38	1.54	1.40	
28	0.95	1.82	21.48	30.60	20.20	10.02	12.74	6.21	3.52	2.38	1.54	1.31	
29	1.22	1.68	21.48	22.76	18.40	10.02	11.96	5.98	3.52	2.38		1.31	
30	1.82	1.54	15.17	33.47	17.80	13.00	11.96	5.75	3.52	2.38		1.31	
31		1.68		41.25	17.80		11.96		3.52	2.24		1.31	
Total	33.42	54.01	153.83	583.83	1119.93	435.26	635.81	245.78	133.00	87.64	53.76	53.54	3589.81 CMSDAY
Mean	1.11	1.74	5.13	18.83	36.13	14.51	20.51	8.19	4.29	2.83	1.92	1.73	9.84 CMS
Max	1.82	3.34	21.48	90.60	67.00	20.84	53.00	13.26	5.75	3.34	2.24	2.80	90.60 CMS
Min	0.86	0.95	1.40	5.29	17.80	10.02	11.96	5.75	3.52	2.24	1.54	1.31	0.86 CMS
Runoff	2.887	4.666	13.291	50.443	96.762	37.606	54.934	21.235	11.491	7.572	4.645	4.626	310.160 MCM

Momentary Peak 87.00 CMS, at 65.55 M (MSL), at 18.00 Hours, on Aug 18, 1992
Runoff Yield 12.66 Liters/Second/Square KM, Momentary Peak Yield 111.97 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

Huai Bong Ti at Ban Bong Ti Noi, Kanchanaburi (K.32A)

Location — Lat. 14°-16'-25" N., Long. 98°-56'-04" E., on right bank at Ban Bong Ti Noi, Amphoe Sai Yok, Kanchanaburi.

Drainage Area — 512 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On right bank about 8.50 meters from the top staff gage.

Elevation — +4.238 m.(A.D.)

Gage Reading Frequency — 16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height — Arithmetic mean of 16 readings.

Period of Available Gage Records — 1984 to date

Rating Operation

Period of Rating — 1984 to date

Rated by Float — -

Rated by Current Meter — 1984 to date

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 145 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

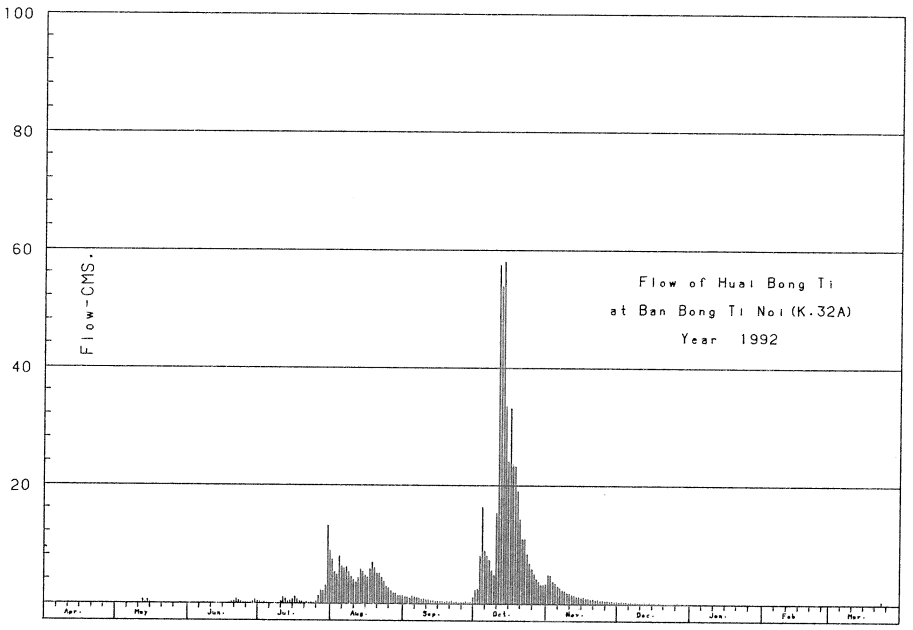
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.74	0.74	0.78	1.03	1.97	1.27	1.44	1.75	1.06	0.92	0.83	0.78	
2	0.74	0.74	0.78	1.00	1.79	1.24	1.48	1.73	1.05	0.90	0.83	0.78	
3	0.74	0.74	0.78	1.00	1.74	1.22	2.02	1.63	1.05	0.90	0.83	0.78	
4	0.74	0.74	0.77	0.97	2.02	1.27	2.55	1.58	1.03	0.90	0.83	0.78	
5	0.74	0.74	0.91	0.94	1.88	1.27	2.09	1.54	1.02	0.90	0.83	0.78	
6	0.73	0.74	0.94	0.91	1.84	1.24	2.02	1.49	1.01	0.90	0.83	0.78	
7	0.73	0.74	0.91	0.89	1.87	1.21	1.97	1.45	1.01	0.90	0.82	0.78	
8	0.73	0.74	0.87	0.87	1.78	1.18	1.81	1.42	1.01	0.89	0.82	0.78	
9	0.73	0.73	0.98	0.86	1.71	1.18	1.74	1.39	1.00	0.89	0.82	0.78	
10	0.73	0.73	0.92	1.07	1.64	1.15	2.49	1.36	1.00	0.88	0.82	0.78	
11	0.73	0.73	0.88	1.23	1.61	1.13	4.02	1.32	1.00	0.87	0.82	0.78	
12	0.73	1.16	0.86	1.20	1.68	1.11	3.92	1.30	1.00	0.87	0.82	0.78	
13	0.73	0.90	0.86	1.06	1.83	1.10	4.04	1.28	1.00	0.87	0.82	0.78	
14	0.73	1.14	0.85	1.07	1.79	1.08	3.27	1.26	0.99	0.86	0.81	0.78	
15	0.73	0.89	0.85	1.18	1.73	1.06	2.91	1.24	0.99	0.86	0.81	0.78	
16	0.73	0.82	0.84	1.27	1.69	1.09	3.26	1.24	0.98	0.86	0.81	0.78	
17	0.73	0.79	0.84	1.15	1.84	1.06	2.89	1.22	0.97	0.86	0.81	0.78	
18	0.73	0.78	0.97	1.08	1.94	1.04	2.88	1.20	0.97	0.86	0.80	0.78	
19	0.73	0.78	1.00	1.03	1.85	1.05	2.69	1.19	0.97	0.85	0.80	0.78	
20	0.73	0.77	1.06	1.00	1.77	1.05	2.43	1.17	0.96	0.85	0.80	0.78	
21	0.73	0.78	1.18	0.99	1.76	1.08	2.23	1.16	0.96	0.85	0.80	0.78	
22	0.73	0.77	1.11	0.97	1.70	1.04	2.22	1.15	0.94	0.85	0.80	0.82	
23	0.73	0.82	1.01	0.97	1.61	1.02	2.05	1.13	0.94	0.85	0.79	1.14	
24	0.73	0.85	0.99	1.01	1.53	1.01	1.92	1.12	0.93	0.84	0.79	0.94	
25	0.73	0.83	0.96	1.07	1.48	1.01	1.84	1.11	0.93	0.84	0.79	0.86	
26	0.73	0.82	0.95	1.27	1.43	1.03	1.75	1.10	0.93	0.84	0.79	0.85	
27	0.73	0.85	0.97	1.44	1.38	1.04	1.67	1.09	0.93	0.84	0.78	0.83	
28	0.73	0.82	1.05	1.41	1.35	1.02	1.61	1.08	0.93	0.83	0.78	0.82	
29	0.72	0.80	1.12	1.55	1.31	1.01	1.56	1.07	0.92	0.83		0.81	
30	0.72	0.79	1.08	2.37	1.29	1.25	1.55	1.06	0.92	0.83		0.81	
31		0.78		2.08	1.29		1.57		0.92	0.83		0.80	
Mean	0.73	0.81	0.94	1.16	1.68	1.12	2.32	1.29	0.98	0.87	0.81	0.81	
Max	0.74	1.16	1.18	2.37	2.02	1.27	4.04	1.75	1.06	0.92	0.83	1.14	4.04
Min	0.72	0.73	0.77	0.86	1.29	1.01	1.44	1.06	0.92	0.83	0.78	0.78	0.72

Annual Max Momentary Gage Height — 4.72 M (A.D), at 3.00 Hours, on Oct 13, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.24 M (A.D)

Left Bank Elevation — 9.03 M (A.D)

Right Bank Elevation — 10.19 M (A.D), Drainage Area — 512 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.02	0.34	7.44	1.25	2.28	5.00	0.42	0.14	0.05	0.02	
2	0.01	0.01	0.02	0.26	5.40	1.10	2.56	4.80	0.39	0.11	0.05	0.02	
3	0.01	0.01	0.02	0.26	4.90	1.00	8.08	3.87	0.39	0.11	0.05	0.02	
4	0.01	0.01	0.01	0.22	8.08	1.25	16.40	3.42	0.34	0.11	0.05	0.02	
5	0.01	0.01	0.13	0.17	6.38	1.25	9.06	3.06	0.31	0.11	0.05	0.02	
6	0.01	0.01	0.17	0.13	5.94	1.10	8.08	2.63	0.29	0.11	0.05	0.02	
7	0.01	0.01	0.13	0.10	6.27	0.95	7.44	2.35	0.29	0.11	0.04	0.02	
8	0.01	0.01	0.08	0.08	5.30	0.82	5.61	2.14	0.29	0.10	0.04	0.02	
9	0.01	0.01	0.23	0.07	4.60	0.82	4.90	1.94	0.26	0.10	0.04	0.02	
10	0.01	0.01	0.14	0.44	3.96	0.71	15.33	1.76	0.26	0.09	0.04	0.02	
11	0.01	0.01	0.09	1.05	3.69	0.63	57.40	1.52	0.26	0.08	0.04	0.02	
12	0.01	0.75	0.07	0.90	4.32	0.56	53.90	1.40	0.26	0.08	0.04	0.02	
13	0.01	0.11	0.07	0.42	5.83	0.52	58.10	1.30	0.26	0.08	0.04	0.02	
14	0.01	0.67	0.07	0.44	5.40	0.47	33.46	1.20	0.25	0.07	0.03	0.02	
15	0.01	0.10	0.07	0.82	4.80	0.42	24.05	1.10	0.25	0.07	0.03	0.02	
16	0.01	0.04	0.06	1.25	4.41	0.49	33.18	1.10	0.23	0.07	0.03	0.02	
17	0.01	0.02	0.06	0.71	5.94	0.42	23.58	1.00	0.22	0.07	0.03	0.02	
18	0.01	0.02	0.22	0.47	7.08	0.36	23.36	0.90	0.22	0.07	0.02	0.02	
19	0.01	0.02	0.26	0.34	6.05	0.39	19.19	0.86	0.22	0.07	0.02	0.02	
20	0.01	0.01	0.42	0.26	5.20	0.39	14.31	0.79	0.20	0.07	0.02	0.02	
21	0.01	0.02	0.82	0.25	5.10	0.47	11.05	0.75	0.20	0.07	0.02	0.02	
22	0.01	0.01	0.56	0.22	4.50	0.36	10.90	0.71	0.17	0.07	0.02	0.04	
23	0.01	0.04	0.29	0.22	3.69	0.31	8.50	0.63	0.17	0.07	0.02	0.67	
24	0.01	0.07	0.25	0.29	2.97	0.29	6.84	0.60	0.16	0.06	0.02	0.17	
25	0.01	0.05	0.20	0.44	2.56	0.29	5.94	0.56	0.16	0.06	0.02	0.07	
26	0.01	0.04	0.19	1.25	2.21	0.34	5.00	0.52	0.16	0.06	0.02	0.07	
27	0.01	0.07	0.22	2.28	1.88	0.36	4.23	0.49	0.16	0.06	0.02	0.05	
28	0.01	0.04	0.39	2.07	1.70	0.31	3.69	0.47	0.16	0.05	0.02	0.04	
29	0.00	0.02	0.60	3.15	1.46	0.29	3.24	0.44	0.14	0.05		0.03	
30	0.00	0.02	0.47	13.29	1.35	1.15	3.15	0.42	0.14	0.05		0.03	
31		0.02		8.92	1.35		3.33		0.14	0.05		0.02	
Total	0.28	2.25	6.33	41.11	139.76	19.07	486.14	47.73	7.37	2.47	0.92	1.61	755.04 CMSDAY
Mean	0.01	0.07	0.21	1.33	4.51	0.64	15.68	1.59	0.24	0.08	0.03	0.05	2.07 CMS
Max	0.01	0.75	0.82	13.29	8.08	1.25	58.10	5.00	0.42	0.14	0.05	0.67	58.10 CMS
Min	0.00	0.01	0.01	0.07	1.35	0.29	2.28	0.42	0.14	0.05	0.02	0.02	0.00 CMS
Runoff	0.024	0.194	0.547	3.552	12.075	1.648	42.002	4.124	0.637	0.213	0.079	0.139	65.235 MCM

Momentary Peak 83.16 CMS, at 4.72 M (A.D), at 3.00 Hours, on Oct 13, 1992

Runoff Yield 4.04 Liters/Second/Square KM, Momentary Peak Yield 162.42 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

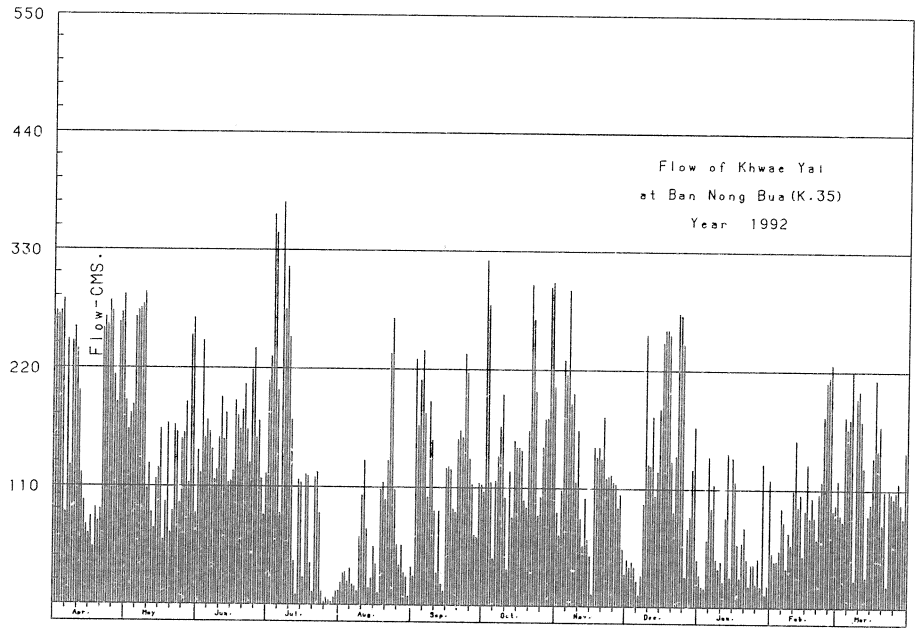
Khwae Yai River at Ban Nong Bua, Kanchanaburi (K.35)

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 5 meters from the third staff gage.
Elevation	+7.667 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 - 1985, 1987 to date
Rated by Float	-
Rated by Current Meter	1984 - 1985, 1987 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.26	3.66	3.27	3.80	1.81	1.93	2.92	2.73	2.19	1.97	2.27	3.04	
2	4.24	3.44	3.08	3.96	1.98	3.95	4.57	2.48	2.09	1.77	2.18	2.71	
3	4.26	3.56	4.07	4.82	1.99	3.48	4.31	2.93	2.17	1.75	2.18	2.65	
4	4.34	3.63	3.37	4.72	1.83	3.81	3.01	3.95	2.10	2.43	2.31	3.56	
5	2.71	4.22	3.51	3.74	2.05	4.01	2.20	3.85	1.88	3.23	2.78	3.47	
6	4.07	4.27	3.42	2.70	1.79	3.57	3.02	4.41	1.60	2.77	2.63	3.54	
7	3.14	4.28	3.28	4.88	1.74	2.87	3.23	3.65	1.96	3.00	2.09	3.88	
8	4.06	4.31	3.02	4.28	1.65	3.67	3.47	3.73	2.82	2.20	2.52	1.91	
9	4.16	4.38	3.10	4.53	2.44	3.36	3.72	3.01	4.12	2.08	2.37	3.70	
10	4.01	2.94	3.37	4.09	2.88	2.73	2.87	3.45	3.17	2.18	2.94	3.75	
11	3.73	3.15	3.69	3.52	3.19	1.99	2.04	2.66	3.15	1.86	3.38	3.53	
12	3.07	2.71	3.36	2.15	2.54	2.73	3.10	2.35	3.56	2.68	2.79	3.15	
13	2.83	2.54	3.57	1.55	1.71	1.80	2.67	2.87	2.89	3.26	2.91	1.95	
14	2.57	3.02	2.99	3.02	1.90	1.65	3.36	2.42	3.11	1.94	2.24	2.71	
15	2.48	3.12	3.01	3.00	2.33	3.13	3.30	2.24	3.61	3.23	2.76	2.82	
16	2.66	3.44	3.09	1.90	2.11	3.14	3.30	1.61	4.07	3.02	3.17	3.23	
17	2.31	2.40	3.66	3.07	1.61	3.12	3.28	3.31	4.15	2.38	2.68	3.83	
18	2.75	2.81	3.55	3.05	2.94	2.76	2.84	3.23	4.15	1.93	2.88	3.29	
19	2.62	3.49	3.44	2.13	3.00	2.72	2.77	3.31	4.12	2.39	2.68	3.49	
20	2.74	2.49	3.59	1.63	2.84	3.37	3.44	3.21	3.19	2.58	2.44	2.62	
21	4.15	2.72	3.78	3.04	3.19	3.44	4.44	3.55	2.73	2.21	2.91	2.94	
22	4.22	3.47	3.44	3.09	3.99	3.39	4.22	3.05	3.24	1.80	3.03	1.81	
23	4.17	3.42	3.16	2.71	4.22	3.99	3.74	3.06	4.26	2.13	3.56	2.96	
24	4.33	2.81	3.87	1.68	2.94	3.86	2.69	3.08	4.25	2.14	3.81	2.92	
25	4.26	3.36	4.02	1.25	2.35	3.21	2.88	3.01	4.06	1.82	3.84	2.88	
26	3.84	3.41	3.37	1.45	2.10	2.99	3.31	3.00	1.95	2.21	3.93	2.93	
27	3.65	3.65	3.51	1.30	2.35	2.47	3.53	2.78	2.56	1.79	2.75	3.02	
28	4.19	2.99	3.03	1.25	1.98	2.45	3.54	2.90	2.69	3.18	2.81	2.82	
29	4.25	4.10	2.69	1.46	1.92	3.00	4.42	2.32	3.12	1.62		2.68	
30	4.37	4.22	3.07	1.63	1.51	2.99	4.45	1.98	3.48	1.79		3.28	
31		2.70		1.66	2.08		3.77		2.20	3.04		3.85	
Mean	3.61	3.38	3.38	2.81	2.35	3.05	3.37	3.00	3.05	2.33	2.82	3.06	
Max	4.37	4.38	4.07	4.88	4.22	4.01	4.57	4.41	4.26	3.26	3.93	3.88	4.88
Min	2.31	2.40	2.69	1.25	1.51	1.65	2.04	1.61	1.60	1.62	2.09	1.81	1.25

Annual Max Momentary Gage Height 5.38 M (A.D), at 6.00 Hours, on Jul 4, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.20 M (A.D)
Left Bank Elevation 10.52 M (A.D)
Right Bank Elevation 10.56 M (A.D), Drainage Area 14528 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	272.40	189.20	143.70	208.00	20.50	26.80	106.00	87.70	43.30	29.20	49.60	118.40	
2	269.60	162.80	122.80	230.40	29.80	229.00	320.90	66.40	36.40	18.50	42.60	85.90	
3	272.40	177.20	245.80	363.60	30.40	167.60	279.50	107.00	41.90	17.50	42.60	80.50	
4	284.00	185.60	154.70	346.40	21.50	209.40	115.10	229.00	37.00	62.40	52.80	177.20	
5	85.90	266.80	171.20	199.60	34.00	237.40	44.00	215.00	24.00	139.30	92.20	166.40	
6	245.80	273.80	160.40	85.00	19.50	178.40	116.20	294.60	11.00	91.30	78.70	174.80	
7	129.40	275.20	144.80	374.40	17.00	101.00	139.30	188.00	28.60	114.00	36.40	219.20	
8	244.40	279.50	116.20	275.20	13.00	190.40	166.40	198.20	96.00	44.00	69.60	25.60	
9	258.40	290.00	125.00	314.10	63.20	153.60	196.80	115.10	252.80	35.80	57.60	194.00	
10	237.40	108.00	154.70	248.60	102.00	87.70	101.00	164.00	132.70	42.60	108.00	201.00	
11	198.20	130.50	192.80	172.40	134.90	30.40	33.40	81.40	130.50	23.00	155.80	173.60	
12	121.70	85.90	153.60	40.50	71.20	87.70	125.00	56.00	177.20	83.20	93.10	130.50	
13	97.00	71.20	178.40	9.50	15.50	20.00	82.30	101.00	103.00	142.60	105.00	28.00	
14	73.60	116.20	113.00	116.20	25.00	13.00	153.60	61.60	126.10	27.40	47.20	85.90	
15	66.40	127.20	115.10	114.00	54.40	128.30	147.00	47.20	183.20	139.30	90.40	96.00	
16	81.40	162.80	123.90	25.00	37.70	129.40	147.00	11.40	245.80	116.20	132.70	139.30	
17	52.80	60.00	189.20	121.70	11.40	127.20	144.80	148.10	257.00	58.40	83.20	212.20	
18	89.50	95.00	176.00	119.50	108.00	90.40	98.00	139.30	257.00	26.80	102.00	145.90	
19	77.80	168.80	162.80	39.10	114.00	86.80	91.30	148.10	252.80	59.20	83.20	168.80	
20	88.60	67.20	180.80	12.20	98.00	154.70	162.80	137.10	134.90	74.40	63.20	77.80	
21	257.00	86.80	205.20	118.40	134.90	162.80	299.40	176.00	87.70	44.80	105.00	108.00	
22	266.80	166.40	162.80	123.90	234.60	156.90	266.80	119.50	140.40	20.00	117.30	20.50	
23	259.80	160.40	131.60	85.90	266.80	234.60	199.60	120.60	272.40	39.10	177.20	110.00	
24	282.50	95.00	217.80	14.20	108.00	216.40	84.10	122.80	271.00	39.80	209.40	106.00	
25	272.40	153.60	238.80	3.00	56.00	137.10	102.00	115.10	244.40	21.00	213.60	102.00	
26	213.60	159.20	154.70	7.00	37.00	113.00	148.10	114.00	28.00	44.80	226.20	107.00	
27	188.00	188.00	171.20	4.00	56.00	65.60	173.60	92.20	72.80	19.50	89.50	116.20	
28	262.60	113.00	117.30	3.00	29.80	64.00	174.80	104.00	84.10	133.80	95.00	96.00	
29	271.00	250.00	84.10	7.20	26.20	114.00	296.20	53.60	127.20	11.80		83.20	
30	288.50	266.80	121.70	12.20	8.30	113.00	301.00	29.80	167.60	19.50		144.80	
31		85.00		13.40	35.80		203.80		44.00	118.40		215.00	
Total	5808.90	5017.10	4730.10	3807.60	2014.40	3826.60	5019.80	3643.80	4110.80	1857.60	2819.10	3909.70	46565.50 CMSDAY
Mean	193.63	161.84	157.67	122.83	64.98	127.55	161.93	121.46	132.61	59.92	100.68	126.12	127.58 CMS
Max	288.50	290.00	245.80	374.40	266.80	237.40	320.90	294.60	272.40	142.60	226.20	219.20	374.40 CMS
Min	52.80	60.00	84.10	3.00	8.30	13.00	33.40	11.40	11.00	11.80	36.40	20.50	3.00 CMS
Runoff	501.889	433.477	408.681	328.977	174.044	330.618	433.711	314.824	355.173	160.497	243.570	337.798	4023.260 MCM

Momentary Peak 470.00 CMS, at 5.38 M (A.D), at 6.00 Hours, on Jul 4, 1992
Runoff Yield 8.78 Liters/Second/Square KM, Momentary Peak Yield 32.35 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

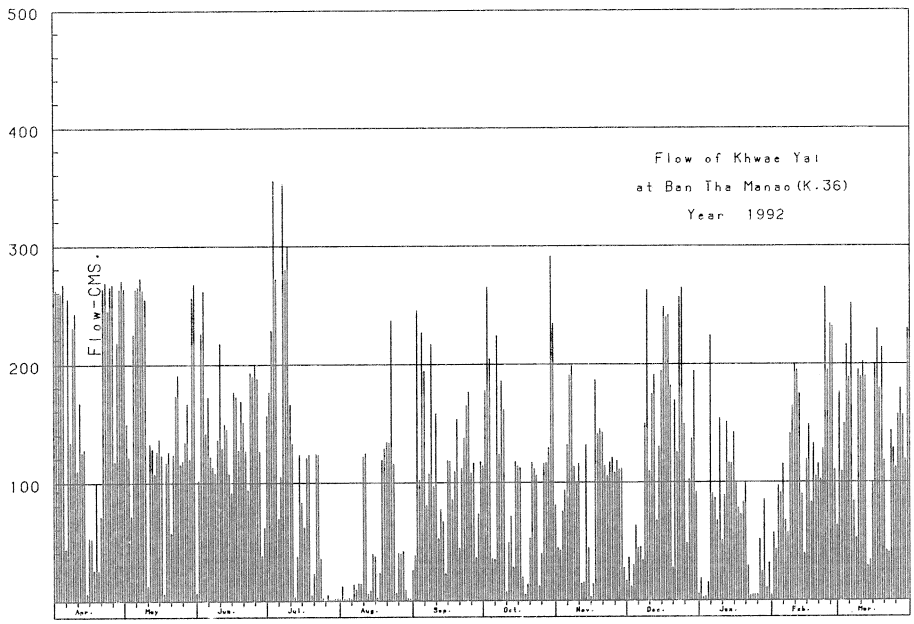
Khwae Yai River at Ban Tha Manao, Kanchanaburi (K.36)

Location	Lat. 14°-09'-48" N., Long. 99°-16'-38" E., on left bank at Ban Tha Manao, Amphoe Muang, Kanchanaburi.
Drainage Area	11,787 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 10 meters from the top staff gage.
Elevation	+6.888 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Float	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.36	3.50	3.06	3.72	1.87	2.30	3.73	2.40	2.28	1.99	2.55	3.72	
2	4.34	3.25	4.10	4.12	1.52	4.24	4.38	2.36	1.86	1.58	2.37	3.13	
3	4.34	2.73	4.36	5.00	1.52	3.06	3.94	2.78	2.18	1.60	3.01	3.50	
4	4.40	4.10	3.43	4.43	1.56	4.11	2.26	2.97	2.63	1.93	2.95	4.03	
5	2.39	4.37	3.69	2.71	1.53	3.86	2.26	3.35	2.39	4.09	3.20	3.81	
6	4.31	4.38	3.26	3.09	1.89	2.83	4.09	3.83	2.41	2.94	2.69	4.28	
7	3.37	4.44	3.17	4.98	1.81	3.12	3.27	3.89	2.25	2.90	2.55	2.87	
8	4.14	4.36	3.12	4.49	1.92	4.03	3.79	3.18	3.50	2.68	3.43	2.50	
9	4.22	4.31	3.39	4.62	1.90	3.01	3.60	3.03	4.36	3.54	3.62	3.86	
10	3.14	1.87	4.04	3.64	3.26	3.57	1.75	3.20	3.14	2.47	3.90	3.82	
11	3.65	3.35	3.32	3.36	3.28	2.50	2.45	1.91	3.71	2.92	3.86	3.92	
12	3.29	3.32	3.50	1.59	1.68	2.79	2.73	1.92	3.83	3.51	3.71	3.82	
13	3.31	3.12	3.46	2.30	1.78	2.68	2.16	3.34	2.69	3.21	2.93	2.17	
14	1.71	3.29	3.12	3.27	2.32	2.07	3.22	2.40	3.33	3.20	2.33	2.24	
15	2.50	3.39	2.95	2.86	2.30	3.23	3.18	1.61	3.86	3.44	3.23	3.03	
16	2.49	3.27	3.72	2.62	1.56	3.22	3.17	1.90	4.26	3.04	3.49	3.89	
17	2.12	1.71	3.69	3.25	2.08	2.89	2.01	3.80	4.20	2.80	2.86	4.13	
18	3.04	3.21	3.31	3.27	3.23	3.14	1.68	3.43	4.21	2.75	3.35	3.74	
19	2.10	3.29	3.66	1.66	3.32	3.53	1.89	3.46	3.76	2.86	3.09	4.01	
20	2.73	2.56	3.51	2.06	3.37	2.39	2.50	3.44	2.15	3.03	3.20	3.22	
21	4.37	3.27	3.30	3.28	3.36	3.16	3.21	3.18	3.66	2.18	3.07	2.36	
22	4.41	3.70	2.98	3.27	4.18	3.40	3.16	3.10	3.29	1.63	3.31	2.33	
23	4.24	3.83	3.85	2.27	3.20	3.63	3.10	3.21	4.32	1.66	4.38	3.45	
24	4.38	3.20	3.82	1.54	1.72	3.72	1.87	3.25	4.38	1.65	3.86	3.32	
25	4.40	3.22	3.90	1.43	2.33	3.12	2.32	3.13	3.50	1.67	4.16	3.17	
26	3.22	3.37	3.81	1.67	2.32	3.21	3.20	3.22	2.44	2.49	4.14	3.56	
27	4.04	3.64	3.30	1.43	2.36	2.28	3.21	3.15	3.07	2.09	3.15	3.74	
28	4.37	3.24	2.30	1.50	1.79	2.75	3.32	3.16	3.39	2.88	2.63	3.56	
29	4.42	4.32	2.61	1.52	1.55	3.22	4.57	2.14	3.86	1.84		3.23	
30	4.37	4.40	3.56	1.53	1.51	3.18	4.16	1.95	2.95	2.21		4.13	
31		1.73		1.51	2.11		2.83		1.69	1.64		4.28	
Mean	3.61	3.41	3.44	2.84	2.26	3.14	3.00	2.92	3.21	2.53	3.25	3.45	
Max	4.42	4.44	4.36	5.00	4.18	4.24	4.57	3.89	4.38	4.09	4.38	4.28	5.00
Min	1.71	1.71	2.30	1.43	1.51	2.07	1.68	1.61	1.69	1.58	2.33	2.17	1.43

Annual Max Momentary Gage Height 5.65 M (A.D), at 20.00 Hours, on Jun 2, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.51 M (A.D)
Left Bank Elevation 8.89 M (A.D)
Right Bank Elevation 7.74 M (A.D), Drainage Area 11787 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	262.40	150.00	102.00	176.60	12.50	38.00	177.90	45.00	36.60	18.50	57.00	176.60	
2	259.60	121.50	226.00	228.80	1.40	245.60	265.20	42.20	12.00	2.60	42.90	109.00	
3	259.60	71.70	262.40	356.00	1.40	102.00	205.20	76.20	29.80	3.00	97.00	150.00	
4	268.00	226.00	141.60	272.20	2.20	227.40	35.20	93.30	63.40	15.50	91.50	216.90	
5	44.30	263.80	172.80	69.90	1.60	194.80	35.20	132.50	44.30	224.70	116.00	188.30	
6	255.40	265.20	122.60	105.00	13.50	80.70	224.70	190.90	45.80	90.60	68.20	251.20	
7	134.70	273.60	113.00	353.00	9.50	108.00	123.70	198.70	34.50	87.00	57.00	84.30	
8	231.60	262.40	108.00	280.60	15.00	216.90	185.70	114.00	150.00	67.40	141.60	53.00	
9	242.80	255.40	136.90	299.00	14.00	97.00	162.00	99.00	262.40	154.80	164.40	194.80	
10	110.00	12.50	218.20	166.80	122.60	158.40	7.50	116.00	110.00	50.60	200.00	189.60	
11	168.00	132.50	129.20	133.60	124.80	53.00	49.00	14.50	175.30	88.80	194.80	202.60	
12	125.90	129.20	150.00	2.80	5.40	77.10	71.70	15.00	190.90	151.20	175.30	189.60	
13	128.10	108.00	145.20	38.00	8.40	67.40	28.60	131.40	68.20	117.10	89.70	29.20	
14	6.30	125.90	108.00	123.70	39.40	23.20	118.20	45.00	130.30	116.00	40.10	33.80	
15	53.00	136.90	91.50	83.40	38.00	119.30	114.00	3.30	194.80	142.80	119.30	99.00	
16	52.20	123.70	176.60	62.60	2.20	118.20	113.00	14.00	248.40	100.00	148.80	198.70	
17	26.20	6.30	172.80	121.50	23.80	86.10	19.60	187.00	240.00	78.00	83.40	230.20	
18	100.00	117.10	128.10	123.70	119.30	110.00	5.40	141.60	241.40	73.50	132.50	179.20	
19	25.00	125.90	169.20	4.80	129.20	153.60	13.50	145.20	181.80	83.40	105.00	214.30	
20	71.70	57.80	151.20	22.60	134.70	44.30	53.00	142.80	28.00	99.00	116.00	118.20	
21	263.80	123.70	127.00	124.80	133.60	112.00	117.10	114.00	169.20	29.80	103.00	42.20	
22	269.40	174.00	94.20	123.70	237.20	138.00	112.00	106.00	125.90	3.90	128.10	40.10	
23	245.60	190.90	193.50	35.90	116.00	165.60	106.00	117.10	256.80	4.80	265.20	144.00	
24	265.20	116.00	189.60	1.80	6.60	176.60	12.50	121.50	265.20	4.50	194.80	129.20	
25	268.00	118.20	200.00	0.30	40.10	108.00	39.40	109.00	150.00	5.10	234.40	113.00	
26	118.20	134.70	188.30	5.10	39.40	117.10	116.00	118.20	48.20	52.20	231.60	157.20	
27	218.20	166.80	127.00	0.30	42.20	36.60	117.10	111.00	103.00	24.40	111.00	179.20	
28	263.80	120.40	38.00	1.00	8.70	73.50	129.20	112.00	136.90	85.20	63.40	157.20	
29	270.80	256.80	61.80	1.40	2.00	118.20	291.80	27.40	194.80	11.00		119.30	
30	263.80	268.00	157.20	1.60	1.20	114.00	234.40	16.50	91.50	31.70		230.20	
31		6.90		1.20	25.60		80.70		5.70	4.20		251.20	
Total	5271.60	4641.80	4401.90	3321.70	1471.50	3480.60	3364.50	2900.30	4035.10	2021.30	3572.00	4671.30	43153.61 CMSDAY
Mean	175.72	149.74	146.73	107.15	47.47	116.02	108.53	96.68	130.16	65.20	127.57	150.69	118.23 CMS
Max	270.80	273.60	262.40	356.00	237.20	245.60	291.80	198.70	265.20	224.70	265.20	251.20	356.00 CMS
Min	6.30	6.30	38.00	0.30	1.20	23.20	5.40	3.30	5.70	2.60	40.10	29.20	0.30 CMS
Runoff	455.466	401.051	380.324	286.995	127.138	300.724	290.693	250.586	348.633	174.640	308.621	403.600	3728.472 MCM

Momentary Peak 459.50 CMS, at 5.65 M (A.D), at 20.00 Hours, on Jun 2, 1992

Runoff Yield 10.03 Liters/Second/Square KM, Momentary Peak Yield 38.98 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

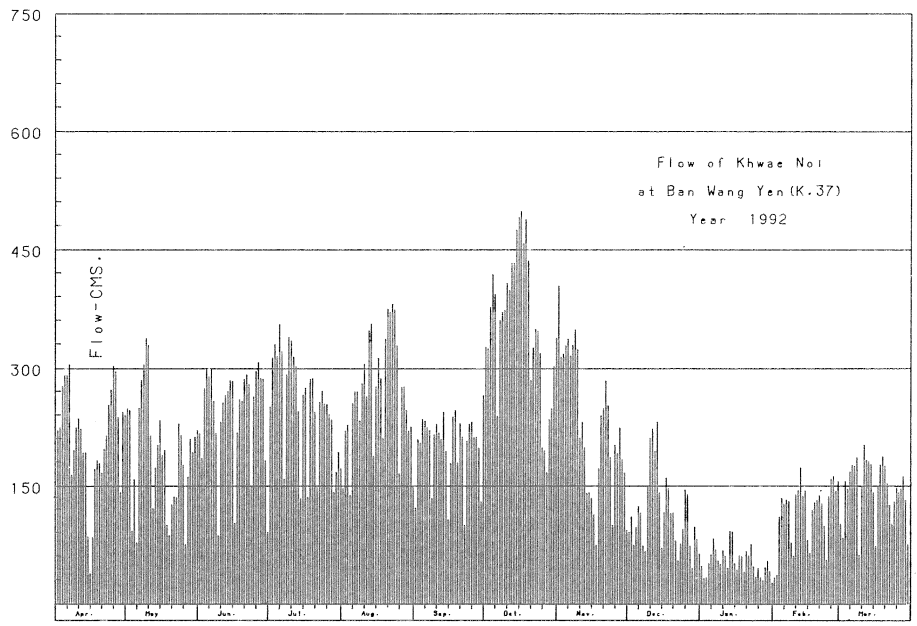
Khwae Noi River at Ban Wang Yen, Kanchanaburi (K.37)

Location	Lat. 13°-55'-57" N., Long. 99°-25'-37" E., on left bank at Ban Wang Yen, Amphoe Muang, Kanchanaburi.
Drainage Area	10,603 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 10 meters from the top staff gage.
Elevation	+9.150 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Float	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 41 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.13	4.31	4.10	4.33	3.59	3.40	4.81	5.29	3.16	2.77	2.62	3.24	
2	4.15	4.30	3.88	4.72	4.12	4.05	4.79	4.73	3.32	2.62	2.66	3.10	
3	4.50	3.17	4.48	4.83	4.17	4.02	5.12	4.75	3.02	2.62	3.31	3.66	
4	4.58	3.68	4.64	4.73	3.53	4.22	5.38	4.82	3.21	2.81	3.50	3.59	
5	4.58	3.05	4.57	4.99	4.36	4.21	5.22	4.87	3.42	2.91	3.44	3.76	
6	4.67	4.32	4.64	4.77	4.45	4.15	4.25	4.74	3.35	3.09	3.48	3.82	
7	3.73	4.54	4.38	3.69	4.45	4.13	5.02	4.82	3.01	2.96	3.47	3.81	
8	3.96	4.67	4.10	4.59	4.21	3.50	5.08	4.94	2.94	2.84	3.05	3.89	
9	4.15	4.88	3.13	4.88	4.52	4.09	5.10	4.79	3.61	2.79	2.89	2.90	
10	4.23	4.82	4.20	4.86	4.67	4.18	5.31	4.06	4.06	2.96	3.53	3.62	
11	4.14	4.08	4.36	4.73	4.41	4.11	5.26	4.20	4.14	2.89	3.57	4.01	
12	3.93	3.40	4.42	4.65	4.94	4.05	5.46	3.98	3.95	2.75	3.80	3.87	
13	3.94	3.80	4.46	4.29	4.99	4.28	5.46	3.55	4.20	3.17	3.52	3.85	
14	3.11	4.00	4.54	3.49	3.90	3.95	5.71	3.55	3.55	3.17	3.57	3.83	
15	2.68	4.21	4.54	4.43	4.49	3.29	5.80	3.50	2.98	2.81	3.08	3.55	
16	3.11	3.91	3.25	4.48	4.72	3.84	5.84	3.33	3.36	2.72	2.92	3.00	
17	3.78	3.96	4.11	3.51	4.56	4.24	5.61	3.02	3.70	2.89	3.38	3.61	
18	3.86	3.23	4.39	4.55	4.06	4.30	5.78	3.79	3.59	2.89	3.45	3.82	
19	3.84	3.13	4.38	4.56	4.87	3.84	5.48	4.25	3.35	2.70	3.48	3.90	
20	3.75	3.44	4.55	4.28	5.11	4.19	4.54	4.31	3.35	2.94	3.52	3.81	
21	3.97	3.51	4.59	3.60	5.08	4.07	4.80	4.54	3.07	2.89	3.44	3.64	
22	4.08	3.51	4.51	4.37	5.15	3.23	4.95	4.34	2.84	3.03	3.23	3.43	
23	4.34	4.19	3.62	4.46	5.10	4.04	4.93	3.89	3.03	2.77	2.85	3.24	
24	4.47	4.09	4.41	4.35	4.82	4.18	4.76	3.23	3.19	2.63	3.51	3.46	
25	4.66	3.82	4.61	4.35	3.74	4.20	3.98	4.00	3.58	2.74	3.69	3.60	
26	4.61	3.02	4.69	4.26	4.49	4.07	3.95	3.93	3.53	2.62	3.71	3.55	
27	4.24	3.71	4.56	4.22	4.49	4.07	3.75	4.15	3.01	2.59	3.57	3.59	
28	3.56	4.05	4.55	3.56	4.30	3.98	4.22	3.87	2.74	2.76	3.66	3.71	
29	4.28	3.94	3.86	3.75	4.12	3.46	4.31	3.75	3.22	2.83		3.48	
30	4.26	4.07	3.16	3.94	4.16	4.42	4.65	3.18	3.08	2.70		3.02	
31		4.13		3.79	3.60		4.88		2.92	2.56		3.68	
Mean	4.04	3.90	4.26	4.32	4.42	3.99	4.97	4.14	3.34	2.82	3.35	3.58	
Max	4.67	4.88	4.69	4.99	5.15	4.42	5.84	5.29	4.20	3.17	3.80	4.01	5.84
Min	2.68	3.02	3.13	3.49	3.53	3.23	3.75	3.02	2.74	2.56	2.62	2.90	2.56

Annual Max Momentary Gage Height 5.92 M (A.D), at 6.00 Hours, on Oct 16, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.08 M (A.D)
Left Bank Elevation 7.76 M (A.D)
Right Bank Elevation 9.51 M (A.D), Drainage Area 10603 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	221.5	248.5	217.0	251.5	146.7	122.0	327.6	404.4	91.2	48.0	33.0	101.2	
2	224.5	247.0	185.2	313.2	220.0	209.5	324.4	314.8	111.6	33.0	37.0	84.0	
3	278.0	92.4	274.8	330.8	227.5	205.0	377.2	318.0	75.2	33.0	110.3	155.8	
4	290.8	158.4	300.4	314.8	138.9	235.0	419.6	329.2	97.3	52.1	135.0	146.7	
5	290.8	78.5	289.2	356.4	256.0	233.5	393.2	337.2	124.6	63.1	127.2	168.8	
6	305.2	250.0	300.4	321.2	270.0	224.5	239.5	316.4	115.5	82.9	132.4	176.8	
7	164.9	284.4	259.0	159.7	270.0	221.5	361.2	329.2	74.1	68.6	131.1	175.4	
8	196.4	305.2	217.0	292.4	233.5	135.0	370.8	348.4	66.4	55.4	78.5	186.6	
9	224.5	338.8	87.6	338.8	281.2	215.5	374.0	324.4	149.3	50.0	60.9	62.0	
10	236.5	329.2	232.0	335.6	305.2	229.0	407.7	211.0	211.0	68.6	138.9	150.6	
11	223.0	214.0	256.0	314.8	263.6	218.5	399.6	232.0	223.0	60.9	144.1	203.5	
12	192.2	122.0	265.2	302.0	348.4	209.5	433.2	199.2	195.0	46.0	174.0	183.8	
13	193.6	174.0	271.6	245.5	356.4	244.0	433.2	141.5	232.0	92.4	137.6	181.0	
14	85.2	202.0	284.4	133.7	188.0	195.0	475.8	141.5	141.5	92.4	144.1	178.2	
15	39.0	233.5	284.4	266.8	276.4	107.7	492.0	135.0	70.8	52.1	81.8	141.5	
16	85.2	189.4	102.5	274.8	313.2	179.6	499.2	112.9	116.8	43.0	64.2	73.0	
17	171.4	196.4	218.5	136.3	287.6	238.0	458.7	75.2	161.0	60.9	119.4	149.3	
18	182.4	99.9	260.5	286.0	211.0	247.0	488.4	172.7	146.7	60.9	128.5	176.8	
19	179.6	87.6	259.0	287.6	337.2	179.6	436.6	239.5	115.5	41.0	132.4	188.0	
20	167.5	127.2	286.0	244.0	375.6	230.5	284.4	248.5	115.5	66.4	137.6	175.4	
21	197.8	136.3	292.4	148.0	370.8	212.5	326.0	284.4	80.7	60.9	127.2	153.2	
22	214.0	136.3	279.6	257.5	382.0	99.9	350.0	253.0	55.4	76.3	99.9	125.9	
23	253.0	230.5	150.6	271.6	374.0	208.0	346.8	186.6	76.3	48.0	56.5	101.2	
24	273.2	215.5	263.6	254.5	329.2	229.0	319.6	99.9	94.8	34.0	136.3	129.8	
25	303.6	176.8	295.6	254.5	166.2	232.0	199.2	202.0	145.4	45.0	159.7	148.0	
26	295.6	75.2	308.4	241.0	276.4	212.5	195.0	192.2	138.9	33.0	162.3	141.5	
27	238.0	162.3	287.6	235.0	276.4	212.5	167.5	224.5	74.1	30.1	144.1	146.7	
28	142.8	209.5	286.0	142.8	247.0	199.2	235.0	183.8	45.0	47.0	155.8	162.3	
29	244.0	193.6	182.4	167.5	220.0	129.8	248.5	167.5	98.6	54.3		132.4	
30	241.0	212.5	91.2	193.6	226.0	265.2	302.0	93.6	81.8	41.0		75.2	
31		221.5		172.7	148.0		338.8		64.2	27.4		158.4	
Total	6355.2	5948.4	7288.1	7844.6	8322.4	6080.5	11024.7	6818.5	3589.2	1667.7	3289.8	4533.0	72762.1 CMSDAY
Mean	211.8	191.9	242.9	253.1	268.5	202.7	355.6	227.3	115.8	53.8	117.5	146.2	199.3 CMS
Max	305.2	338.8	308.4	356.4	382.0	265.2	499.2	404.4	232.0	92.4	174.0	203.5	499.2 CMS
Min	39.0	75.2	87.6	133.7	138.9	99.9	167.5	75.2	45.0	27.4	33.0	62.0	27.4 CMS
Runoff	549.09	513.94	629.69	677.77	719.06	525.36	952.53	589.12	310.11	144.09	284.24	391.65	6286.65 MCM

Momentary Peak 513.60 CMS, at 5.92 M (A.D), at 6.00 Hours, on Oct 16, 1992
Runoff Yield 18.80 Liters/Second/Square KM, Momentary Peak Yield 48.44 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

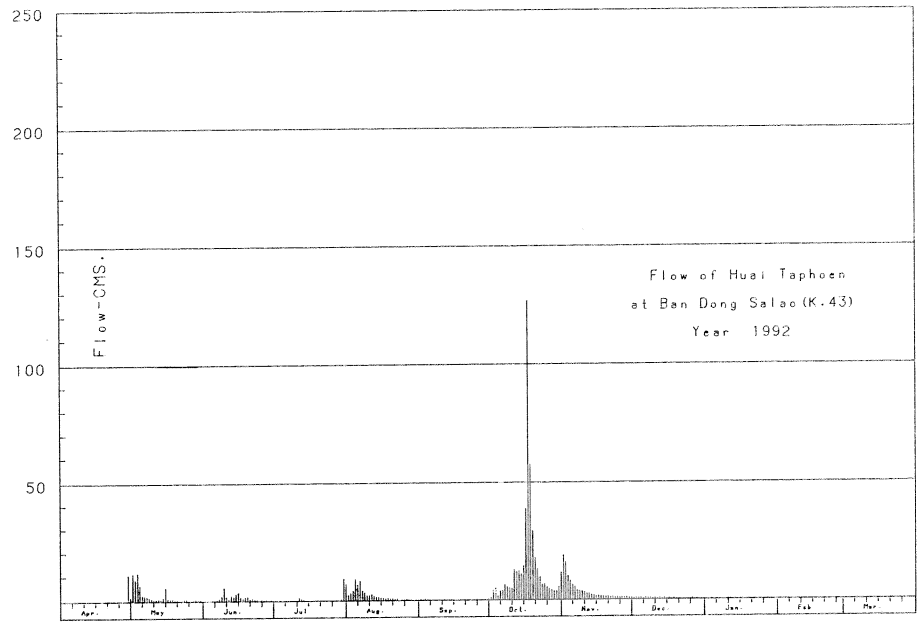
Huai Taphoen at Ban Dong Salao, Suphan Buri (K.43)

Location	Lat. 14°-44'-32" N., Long. 99°-27'-27" E., on right bank at the bridge on road, Ban Dong Saloa, Tambon Ong Phra, Amphoe Dan Chang, Suphan Buri.
Drainage Area	640 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank at the abutment of the bridge.
Elevation	+5.923 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 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	1992 to date.
Rated by Float	-
Rated by Current Meter	1992 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 4.88 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage- discharge relation defined by 36 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.03	2.40	1.16	1.12	1.56	1.19	1.34	2.80	1.28	1.18	1.08	1.05	
2	1.03	2.25	1.12	1.12	1.63	1.17	1.73	2.67	1.28	1.17	1.08	1.06	
3	1.03	2.44	1.10	1.12	1.77	1.20	1.88	2.32	1.28	1.16	1.08	1.17	
4	1.03	2.00	1.10	1.11	2.24	1.20	1.46	2.16	1.27	1.15	1.08	1.09	
5	1.03	1.56	1.09	1.10	2.02	1.17	1.70	2.01	1.27	1.15	1.08	1.07	
6	1.03	1.53	1.17	1.10	2.21	1.17	1.75	1.90	1.27	1.15	1.08	1.07	
7	1.03	1.48	1.30	1.10	1.79	1.17	1.99	1.76	1.27	1.14	1.07	1.07	
8	1.03	1.37	1.51	1.09	1.66	1.16	1.93	1.71	1.26	1.14	1.07	1.07	
9	1.03	1.34	1.94	1.09	1.53	1.17	1.85	1.70	1.26	1.14	1.07	1.07	
10	1.03	1.21	1.42	1.13	1.49	1.17	1.85	1.66	1.26	1.14	1.06	1.06	
11	1.03	1.24	1.20	1.38	1.59	1.17	2.48	1.59	1.25	1.13	1.06	1.06	
12	1.03	1.26	1.50	1.24	1.47	1.17	2.44	1.56	1.25	1.13	1.06	1.05	
13	1.03	1.27	1.47	1.16	1.42	1.17	2.44	1.52	1.25	1.13	1.06	1.05	
14	1.03	1.38	1.60	1.06	1.39	1.16	2.37	1.45	1.23	1.12	1.06	1.05	
15	1.02	1.94	1.72	1.10	1.37	1.15	2.58	1.43	1.22	1.11	1.06	1.05	
16	1.02	1.30	1.40	1.14	1.32	1.13	3.39	1.42	1.22	1.11	1.06	1.05	
17	1.02	1.28	1.32	1.11	1.30	1.12	4.59	1.41	1.21	1.11	1.06	1.05	
18	1.02	1.25	1.39	1.10	1.30	1.11	3.74	1.40	1.21	1.10	1.05	1.05	
19	1.02	1.23	1.47	1.10	1.30	1.11	3.16	1.39	1.21	1.10	1.05	1.05	
20	1.02	1.19	1.28	1.10	1.30	1.11	2.76	1.37	1.20	1.10	1.05	1.05	
21	1.02	1.18	1.29	1.10	1.28	1.11	2.50	1.36	1.19	1.10	1.05	1.05	
22	1.02	1.18	1.27	1.09	1.24	1.11	2.29	1.34	1.18	1.10	1.05	1.05	
23	1.02	1.26	1.21	1.09	1.21	1.10	2.03	1.34	1.18	1.10	1.05	1.05	
24	1.02	1.24	1.20	1.10	1.20	1.10	2.03	1.34	1.20	1.10	1.05	1.05	
25	1.02	1.19	1.19	1.10	1.20	1.17	1.92	1.32	1.20	1.10	1.05	1.05	
26	1.02	1.20	1.17	1.10	1.19	1.11	1.80	1.32	1.20	1.09	1.05	1.05	
27	1.02	1.20	1.18	1.09	1.19	1.10	1.78	1.32	1.19	1.09	1.05	1.05	
28	1.02	1.20	1.18	1.18	1.18	1.10	1.68	1.31	1.19	1.09	1.05	1.05	
29	2.38	1.20	1.18	1.20	1.19	1.25	1.72	1.30	1.19	1.09		1.05	
30	1.40	1.17	1.12	2.27	1.24	1.18	1.89	1.29	1.19	1.09		1.05	
31		1.16		2.05	1.20		2.40		1.18	1.09		1.05	
Mean	1.08	1.42	1.31	1.19	1.45	1.15	2.24	1.62	1.23	1.12	1.06	1.06	
Max	2.38	2.44	1.94	2.27	2.24	1.25	4.59	2.80	1.28	1.18	1.08	1.17	4.59
Min	1.02	1.16	1.09	1.06	1.18	1.10	1.34	1.29	1.18	1.09	1.05	1.05	1.02

Annual Max Momentary Gage Height 5.15 M (A.D), at 2.00 Hours, on Oct 17, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.91 M (A.D)
Left Bank Elevation 4.87 M (A.D)
Right Bank Elevation 4.87 M (A.D), Drainage Area 640 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	11.50	0.46	0.32	2.62	0.57	1.22	19.00	0.92	0.53	0.20	0.12	
2	0.07	9.25	0.32	0.32	3.14	0.49	3.97	15.90	0.92	0.49	0.20	0.15	
3	0.07	12.10	0.25	0.32	4.33	0.60	5.32	10.30	0.92	0.46	0.20	0.49	
4	0.07	6.50	0.25	0.28	9.10	0.60	1.94	8.10	0.88	0.42	0.20	0.23	
5	0.07	2.62	0.23	0.25	6.70	0.49	3.70	6.60	0.88	0.42	0.20	0.18	
6	0.07	2.41	0.49	0.25	8.65	0.49	4.15	5.50	0.88	0.42	0.20	0.18	
7	0.07	2.07	1.00	0.25	4.51	0.49	6.40	4.24	0.88	0.39	0.18	0.18	
8	0.07	1.39	2.27	0.23	3.38	0.46	5.80	3.79	0.84	0.39	0.18	0.18	
9	0.07	1.22	5.90	0.23	2.41	0.49	5.05	3.70	0.84	0.39	0.18	0.18	
10	0.07	0.64	1.68	0.35	2.14	0.49	5.05	3.38	0.84	0.39	0.15	0.15	
11	0.07	0.76	0.60	1.44	2.83	0.49	12.70	2.83	0.80	0.35	0.15	0.15	
12	0.07	0.84	2.20	0.76	2.01	0.49	12.10	2.62	0.80	0.35	0.15	0.12	
13	0.07	0.88	2.01	0.46	1.68	0.49	12.10	2.34	0.80	0.35	0.15	0.12	
14	0.07	1.44	2.90	0.15	1.50	0.46	11.05	1.88	0.72	0.32	0.15	0.12	
15	0.05	5.90	3.88	0.25	1.39	0.42	14.20	1.74	0.68	0.28	0.15	0.12	
16	0.05	1.00	1.55	0.39	1.11	0.35	38.60	1.68	0.68	0.28	0.15	0.12	
17	0.05	0.92	1.11	0.28	1.00	0.32	127.00	1.61	0.64	0.28	0.15	0.12	
18	0.05	0.80	1.50	0.25	1.00	0.28	57.40	1.55	0.64	0.25	0.12	0.12	
19	0.05	0.72	2.01	0.25	1.00	0.28	29.60	1.50	0.64	0.25	0.12	0.12	
20	0.05	0.57	0.92	0.25	1.00	0.28	18.00	1.39	0.60	0.25	0.12	0.12	
21	0.05	0.53	0.96	0.25	0.92	0.28	13.00	1.33	0.57	0.25	0.12	0.12	
22	0.05	0.53	0.88	0.23	0.76	0.28	9.85	1.22	0.53	0.25	0.12	0.12	
23	0.05	0.84	0.64	0.23	0.64	0.25	6.80	1.22	0.53	0.25	0.12	0.12	
24	0.05	0.76	0.60	0.25	0.60	0.25	6.80	1.22	0.60	0.25	0.12	0.12	
25	0.05	0.57	0.57	0.25	0.60	0.49	5.70	1.11	0.60	0.25	0.12	0.12	
26	0.05	0.60	0.49	0.25	0.57	0.28	4.60	1.11	0.60	0.23	0.12	0.12	
27	0.05	0.60	0.53	0.23	0.57	0.25	4.42	1.11	0.57	0.23	0.12	0.12	
28	0.05	0.60	0.53	0.53	0.53	0.25	3.54	1.05	0.57	0.23	0.12	0.12	
29	11.20	0.60	0.53	0.60	0.57	0.80	3.88	1.00	0.57	0.23		0.12	
30	1.55	0.49	0.32	9.55	0.76	0.53	5.41	0.96	0.57	0.23		0.12	
31		0.46		7.00	0.60		11.50		0.53	0.23		0.12	
Total	14.43	70.11	37.58	26.65	68.62	12.69	450.85	110.98	22.04	9.89	4.26	4.59	832.69 CMSDAY
Mean	0.48	2.26	1.25	0.86	2.21	0.42	14.54	3.70	0.71	0.32	0.15	0.15	2.28 CMS
Max	11.20	12.10	5.90	9.55	9.10	0.80	127.00	19.00	0.92	0.53	0.20	0.49	127.00 CMS
Min	0.05	0.46	0.23	0.15	0.53	0.25	1.22	0.96	0.53	0.23	0.12	0.12	0.05 CMS
Runoff	1.247	6.058	3.247	2.303	5.929	1.096	38.953	9.589	1.904	0.854	0.368	0.397	71.944 MCM

Momentary Peak 188.00 CMS, at 5.15 M (A.D), at 2.00 Hours, on Oct 17, 1992
Runoff Yield 3.56 Liters/Second/Square KM, Momentary Peak Yield 293.75 Liters/Second/Square KM

WATER YEAR 1992

MAE KLONG RIVER BASIN

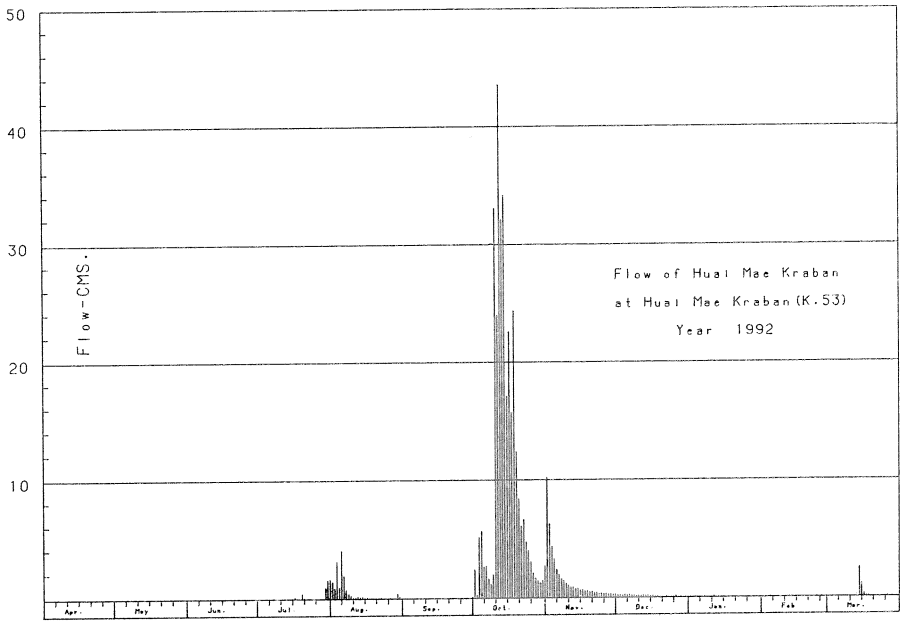
Huai Mae Kraban at Ban Nong Chik, Kanchanaburi (K.53)

Location	Lat. 14°-01'-39" N., Long. 99°-13'-31" E., on right bank at the bridge on road, Ban Nong Chik, Tambon Si Mongkon, Amphoe Sai Yok, Kanchanaburi.
Drainage Area	299 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 20 meters from the top staff gage.
Elevation	+6.300 m.(A.D.)
Gage Reading Frequency	16-time daily readings at 06.00 - 18.00, 21.00, 24.00 and 03.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 16 readings.
Period of Available Gage Records	1992 to date.
Rating Operation	
Period of Rating	1992 to date.
Rated by Float	-
Rated by Current Meter	1992 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 3.19 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 141 diacharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	0.50	0.49	0.48	0.97	0.53	1.13	1.80	0.66	0.58	0.56	0.54	
2	0.50	0.50	0.49	0.48	0.84	0.53	0.67	1.51	0.65	0.58	0.56	0.54	
3	0.51	0.50	0.49	0.48	1.21	0.52	1.41	1.34	0.65	0.58	0.56	0.54	
4	0.51	0.50	0.49	0.48	0.87	0.52	1.46	1.23	0.65	0.58	0.56	0.54	
5	0.51	0.50	0.49	0.48	1.31	0.51	1.16	1.13	0.65	0.58	0.56	0.54	
6	0.51	0.50	0.49	0.48	1.06	0.51	1.16	1.06	0.65	0.58	0.56	0.54	
7	0.51	0.49	0.49	0.48	0.81	0.51	1.01	1.01	0.64	0.58	0.56	0.54	
8	0.51	0.49	0.49	0.48	0.72	0.51	0.92	0.97	0.64	0.58	0.56	0.54	
9	0.51	0.49	0.49	0.48	0.67	0.51	1.06	0.93	0.63	0.58	0.56	0.54	
10	0.51	0.49	0.49	0.48	0.64	0.51	2.95	0.89	0.63	0.58	0.56	0.53	
11	0.51	0.49	0.49	0.48	0.61	0.50	2.57	0.86	0.63	0.58	0.56	0.53	
12	0.51	0.49	0.49	0.48	0.63	0.50	3.32	0.85	0.63	0.57	0.55	0.53	
13	0.51	0.49	0.49	0.48	0.62	0.50	2.91	0.83	0.63	0.57	0.55	0.64	
14	0.51	0.49	0.49	0.49	0.61	0.50	2.99	0.82	0.62	0.57	0.55	1.14	
15	0.51	0.50	0.49	0.57	0.60	0.50	2.23	0.80	0.62	0.57	0.55	0.90	
16	0.51	0.50	0.49	0.62	0.59	0.50	2.51	0.79	0.61	0.57	0.55	0.67	
17	0.51	0.50	0.49	0.51	0.58	0.50	2.15	0.78	0.61	0.57	0.55	0.62	
18	0.51	0.50	0.49	0.56	0.58	0.50	2.59	0.77	0.61	0.57	0.55	0.59	
19	0.51	0.50	0.49	0.73	0.57	0.50	1.95	0.75	0.61	0.57	0.55	0.58	
20	0.50	0.50	0.49	0.54	0.57	0.50	1.67	0.75	0.60	0.57	0.55	0.57	
21	0.50	0.50	0.48	0.51	0.59	0.51	1.49	0.73	0.60	0.57	0.55	0.60	
22	0.50	0.50	0.49	0.50	0.60	0.53	1.54	0.72	0.60	0.57	0.55	0.59	
23	0.50	0.49	0.48	0.50	0.58	0.53	1.38	0.71	0.59	0.56	0.55	0.57	
24	0.50	0.49	0.48	0.50	0.56	0.52	1.30	0.70	0.59	0.56	0.55	0.57	
25	0.50	0.49	0.48	0.50	0.55	0.51	1.21	0.70	0.59	0.56	0.54	0.56	
26	0.50	0.49	0.49	0.50	0.54	0.51	1.08	0.69	0.59	0.56	0.54	0.56	
27	0.50	0.49	0.49	0.50	0.54	0.50	1.02	0.69	0.58	0.56	0.54	0.55	
28	0.50	0.49	0.49	0.50	0.58	0.50	0.97	0.68	0.58	0.56	0.54	0.55	
29	0.50	0.49	0.49	0.87	0.72	0.50	0.94	0.68	0.58	0.56		0.55	
30	0.50	0.49	0.48	0.99	0.61	0.57	0.97	0.67	0.58	0.56		0.55	
31		0.49		1.00	0.55		1.16		0.58	0.56		0.55	
Mean	0.51	0.49	0.49	0.55	0.69	0.51	1.64	0.89	0.62	0.57	0.55	0.59	
Max	0.51	0.50	0.49	1.00	1.31	0.57	3.32	1.80	0.66	0.58	0.56	1.14	3.32
Min	0.49	0.49	0.48	0.48	0.54	0.50	0.67	0.67	0.58	0.56	0.54	0.53	0.48

Annual Max Momentary Gage Height 3.60 M (A.D), at 3.00 Hours, on Oct 13, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.41 M (A.D)
Left Bank Elevation 3.18 M (A.D)
Right Bank Elevation 3.31 M (A.D), Drainage Area 299 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.01	0.01	1.45	0.05	2.44	10.20	0.27	0.11	0.08	0.06	
2	0.01	0.01	0.01	0.01	0.86	0.05	0.30	6.33	0.25	0.11	0.08	0.06	
3	0.02	0.01	0.01	0.01	3.10	0.03	5.12	4.40	0.25	0.11	0.08	0.06	
4	0.02	0.01	0.01	0.01	0.98	0.03	5.72	3.30	0.25	0.11	0.08	0.06	
5	0.02	0.01	0.01	0.01	4.10	0.02	2.68	2.44	0.25	0.11	0.08	0.06	
6	0.02	0.01	0.01	0.01	1.96	0.02	2.68	1.96	0.25	0.11	0.08	0.06	
7	0.02	0.01	0.01	0.01	0.74	0.02	1.66	1.66	0.23	0.11	0.08	0.06	
8	0.02	0.01	0.01	0.01	0.44	0.02	1.20	1.45	0.23	0.11	0.08	0.06	
9	0.02	0.01	0.01	0.01	0.30	0.02	1.96	1.25	0.20	0.11	0.08	0.06	
10	0.02	0.01	0.01	0.01	0.23	0.02	33.10	1.06	0.20	0.11	0.08	0.05	
11	0.02	0.01	0.01	0.01	0.15	0.01	23.94	0.94	0.20	0.11	0.08	0.05	
12	0.02	0.01	0.01	0.01	0.20	0.01	43.60	0.90	0.20	0.09	0.07	0.05	
13	0.02	0.01	0.01	0.01	0.18	0.01	32.06	0.82	0.20	0.09	0.07	0.23	
14	0.02	0.01	0.01	0.01	0.15	0.01	34.14	0.78	0.18	0.09	0.07	2.52	
15	0.02	0.01	0.01	0.09	0.13	0.01	17.14	0.70	0.18	0.09	0.07	1.10	
16	0.02	0.01	0.01	0.18	0.12	0.01	22.62	0.67	0.15	0.09	0.07	0.30	
17	0.02	0.01	0.01	0.02	0.11	0.01	15.70	0.63	0.15	0.09	0.07	0.18	
18	0.02	0.01	0.01	0.08	0.11	0.01	24.38	0.60	0.15	0.09	0.07	0.12	
19	0.02	0.01	0.01	0.47	0.09	0.01	12.45	0.54	0.15	0.09	0.07	0.11	
20	0.01	0.01	0.01	0.06	0.09	0.01	8.41	0.54	0.13	0.09	0.07	0.09	
21	0.01	0.01	0.01	0.02	0.12	0.02	6.08	0.47	0.13	0.09	0.07	0.13	
22	0.01	0.01	0.01	0.01	0.13	0.05	6.72	0.44	0.13	0.09	0.07	0.12	
23	0.01	0.01	0.01	0.01	0.11	0.05	4.80	0.40	0.12	0.08	0.07	0.09	
24	0.01	0 01	0.01	0.01	0.08	0.03	4.00	0.37	0.12	0.08	0.07	0.09	
25	0.01	0.01	0.01	0.01	0.07	0.02	3.10	0.37	0.12	0.08	0.06	0.08	
26	0.01	0.01	0.01	0.01	0.06	0.02	2.08	0.35	0.12	0.08	0.06	0.08	
27	0.01	0.01	0.01	0.01	0.06	0.01	1.72	0.35	0.11	0.08	0.06	0.07	
28	0.01	0.01	0.01	0.01	0.11	0.01	1.45	0.32	0.11	0.08	0.06	0.07	
29	0.01	0.01	0.01	0.98	0.44	0.01	1.30	0.32	0.11	0.08		0.07	
30	0.01	0.01	0.01	1.55	0.15	0.09	1.45	0.30	0.11	0.08		0.07	
31		0.01		1.60	0.07		2.68		0.11	0.08		0.07	
Total	0.47	0.31	0.30	5.26	16.89	0.69	326.68	44.86	5.36	2.92	2.03	6.28	412.05 CMSDAY
Mean	0.02	0.01	0.01	0.17	0.54	0.02	10.54	1.50	0.17	0.09	0.07	0.20	1.13 CMS
Max	0.02	0.01	0.01	1.60	4.10	0.09	43.60	10.20	0.27	0.11	0.08	2.52	43.60 CMS
Min	0.01	0.01	0.01	0.01	0.06	0.01	0.30	0.30	0.11	0.08	0.06	0.05	0.01 CMS
Runoff	0.041	0.027	0.026	0.454	1.459	0.060	28.225	3.876	0.463	0.252	0.175	0.543	35.601 MCM

Momentary Peak 52.20 CMS, at 3.60 M (A.D), at 3.00 Hours, on Oct 13, 1992
Runoff Yield 3.78 Liters/Second/Square KM, Momentary Peak Yield 174.58 Liters/Second/Square KM

WATER YEAR 1992

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 — +4.667 m.(M.S.L.)

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

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

Period of Available Gage Records — 1916 to date.

Rating Operation

Period of Rating — 1965, 1967 - 1971, 1990 to date.

Rated by Float — -

Rated by Current Meter — 1965, 1967 - 1971, 1990 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — Overbank flow starts at elevation + 2.81 m.(M.S.L.), records are channel flow only.

General Description — Records fair. Flow regulated by Kaeng Krachan Reservoir and Phet Diversion Dam for irrigation about 27,800 hectares above gage site. Stage-discharge relation defined by 41 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

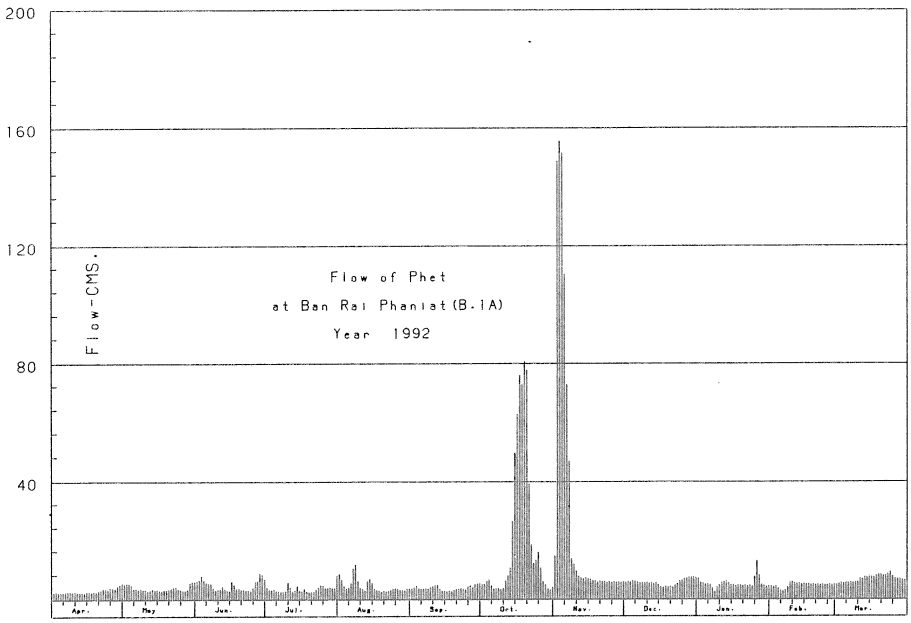
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.91	1.12	1.17	1.04	1.33	1.00	1.10	1.65	1.16	1.24	1.06	1.10	
2	0.91	1.12	1.22	0.97	1.21	1.04	1.12	4.96	1.16	1.16	1.06	1.13	
3	0.91	1.13	1.28	0.98	1.08	1.07	1.17	5.06	1.17	1.13	1.06	1.14	
4	0.90	1.08	1.21	0.98	1.00	1.02	1.22	5.00	1.18	1.12	1.02	1.14	
5	0.91	1.00	1.15	0.95	1.04	0.99	1.07	4.37	1.19	1.11	0.95	1.14	
6	0.91	1.00	1.12	0.93	1.13	1.01	1.01	3.63	1.16	1.11	0.95	1.15	
7	0.92	0.99	1.13	0.93	1.43	1.01	1.00	2.87	1.15	1.02	0.96	1.15	
8	0.92	1.00	1.01	0.92	1.49	1.01	1.02	1.60	1.14	0.93	1.05	1.15	
9	0.92	0.99	0.97	0.95	1.19	1.03	0.98	1.51	1.15	1.04	1.15	1.15	
10	0.92	0.97	0.97	1.16	1.02	1.07	1.02	1.38	1.15	1.10	1.18	1.17	
11	0.92	0.95	1.00	1.03	0.99	1.08	1.18	1.29	1.14	1.14	1.13	1.23	
12	0.91	0.97	1.05	0.94	0.96	1.10	1.30	1.25	1.14	1.17	1.13	1.23	
13	0.90	0.99	1.00	0.96	1.19	0.99	1.43	1.23	1.13	1.18	1.13	1.26	
14	0.90	0.98	0.95	1.08	1.22	0.96	2.16	1.25	1.14	1.15	1.12	1.26	
15	0.92	0.97	0.96	0.97	1.15	0.94	2.95	1.24	1.11	1.09	1.12	1.29	
16	0.92	0.95	1.18	0.93	1.00	0.94	3.35	1.22	1.04	1.09	1.12	1.26	
17	0.92	0.95	1.09	1.01	0.97	0.94	3.70	1.20	1.04	1.08	1.11	1.27	
18	0.92	0.96	1.01	0.92	0.95	0.94	3.63	1.18	1.05	1.09	1.11	1.29	
19	0.93	0.98	1.00	0.92	0.94	0.96	3.81	1.17	1.05	1.09	1.11	1.32	
20	0.94	0.98	0.99	0.91	0.94	1.00	3.74	1.18	1.05	1.08	1.10	1.31	
21	0.96	1.02	0.98	0.92	0.94	0.99	2.61	1.18	1.05	1.08	1.10	1.30	
22	1.01	1.04	0.97	0.99	0.94	1.02	1.83	1.17	1.08	1.08	1.10	1.29	
23	0.99	1.04	0.95	1.03	0.98	0.99	1.52	1.16	1.13	1.08	1.10	1.33	
24	0.99	1.00	0.95	1.09	1.00	0.99	1.57	1.17	1.18	1.07	1.10	1.36	
25	1.02	0.97	1.02	1.07	1.02	1.06	1.70	1.16	1.21	1.28	1.10	1.29	
26	1.01	0.94	1.16	1.03	1.00	1.07	1.43	1.16	1.23	1.57	1.10	1.23	
27	1.01	0.96	1.19	1.03	0.98	1.04	1.18	1.16	1.25	1.30	1.10	1.23	
28	1.07	0.99	1.34	1.03	0.96	1.10	1.09	1.16	1.26	1.11	1.10	1.22	
29	1.09	1.13	1.30	1.02	0.96	1.13	1.01	1.16	1.27	1.07		1.21	
30	1.13	1.17	1.22	1.01	1.00	1.12	0.96	1.16	1.26	1.06		1.19	
31		1.16		1.29	1.02		1.05		1.26	1.06		1.22	
Mean	0.95	1.02	1.08	1.00	1.07	1.02	1.74	1.86	1.15	1.13	1.09	1.23	
Max	1.13	1.17	1.34	1.29	1.49	1.13	3.81	5.06	1.27	1.57	1.18	1.36	5.06
Min	0.90	0.94	0.95	0.91	0.94	0.94	0.96	1.16	1.04	0.93	0.95	1.10	0.90

Annual Max Momentary Gage Height — 5.06 M (MSL), at 18.00 Hours, on Nov 3, 1992

Zero Gage at Bottom Elevation — -0.06 M (MSL), River Bed -1.08 M (MSL)

Left Bank Elevation — 5.09 M (MSL)

Right Bank Elevation — 2.80 M (MSL), Drainage Area 4188 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.43	5.30	6.05	4.16	8.74	3.60	5.00	14.85	5.90	7.18	4.44	5.00	
2	2.43	5.30	6.84	3.21	6.67	4.16	5.30	148.70	5.90	5.90	4.44	5.45	
3	2.43	5.45	7.86	3.34	4.72	4.58	6.05	155.76	6.05	5.45	4.44	5.60	
4	2.30	4.72	6.67	3.34	3.60	3.88	6.84	151.50	6.20	5.30	3.88	5.60	
5	2.43	3.60	5.75	2.95	4.16	3.47	4.58	110.49	6.35	5.15	2.95	5.60	
6	2.43	3.60	5.30	2.69	5.45	3.74	3.74	73.06	5.90	5.15	2.95	5.75	
7	2.56	3.47	5.45	2.69	10.57	3.74	3.60	47.07	5.75	3.88	3.08	5.75	
8	2.56	3.60	3.74	2.56	11.71	3.74	3.88	13.80	5.60	2.69	4.30	5.75	
9	2.56	3.47	3.21	2.95	6.35	4.02	3.34	12.09	5.75	4.16	5.75	5.75	
10	2.56	3.21	3.21	5.90	3.88	4.58	3.88	9.64	5.75	5.00	6.20	6.05	
11	2.56	2.95	3.60	4.02	3.47	4.72	6.20	8.03	5.60	5.60	5.45	7.01	
12	2.43	3.21	4.30	2.82	3.08	5.00	8.20	7.35	5.60	6.05	5.45	7.01	
13	2.30	3.47	3.60	3.08	6.35	3.47	10.57	7.01	5.45	6.20	5.45	7.52	
14	2.30	3.34	2.95	4.72	6.84	3.08	26.66	7.35	5.60	5.75	5.30	7.52	
15	2.56	3.21	3.08	3.21	5.75	2.82	49.60	7.18	5.15	4.86	5.30	8.03	
16	2.56	2.95	6.20	2.69	3.60	2.82	62.80	6.84	4.16	4.86	5.30	7.52	
17	2.56	2.95	4.86	3.74	3.21	2.82	76.00	6.50	4.16	4.72	5.15	7.69	
18	2.56	3.08	3.74	2.56	2.95	2.82	73.06	6.20	4.30	4.86	5.15	8.03	
19	2.69	3.34	3.60	2.56	2.82	3.08	80.88	6.05	4.30	4.86	5.15	8.56	
20	2.82	3.34	3.47	2.43	2.82	3.60	77.76	6.20	4.30	4.72	5.00	8.38	
21	3.08	3.88	3.34	2.56	2.82	3.47	39.20	6.20	4.30	4.72	5.00	8.20	
22	3.74	4.16	3.21	3.47	2.82	3.88	18.76	6.05	4.72	4.72	5.00	8.03	
23	3.47	4.16	2.95	4.02	3.34	3.47	12.28	5.90	5.45	4.72	5.00	8.74	
24	3.47	3.60	2.95	4.86	3.60	3.47	13.23	6.05	6.20	4.58	5.00	9.28	
25	3.88	3.21	3.88	4.58	3.88	4.44	15.90	5.90	6.67	7.86	5.00	8.03	
26	3.74	2.82	5.90	4.02	3.60	4.58	10.57	5.90	7.01	13.23	5.00	7.01	
27	3.74	3.08	6.35	4.02	3.34	4.16	6.20	5.90	7.35	8.20	5.00	7.01	
28	4.58	3.47	8.92	4.02	3.08	5.00	4.86	5.90	7.52	5.15	5.00	6.84	
29	4.86	5.45	8.20	3.88	3.08	5.45	3.74	5.90	7.69	4.58		6.67	
30	5.45	6.05	6.84	3.74	3.60	5.30	3.08	5.90	7.52	4.44		6.35	
31		5.90		8.03	3.88		4.30		7.52	4.44		6.84	
Total	90.04	119.34	146.02	112.82	143.78	116.96	650.06	865.27	179.72	168.98	135.13	216.57	2944.69 CMSDAY
Mean	3.00	3.85	4.87	3.64	4.64	3.90	20.97	28.84	5.80	5.45	4.83	6.99	8.07 CMS
Max	5.45	6.05	8.92	8.03	11.71	5.45	80.88	155.76	7.69	13.23	6.20	9.28	155.76 CMS
Min	2.30	2.82	2.95	2.43	2.82	2.82	3.08	5.90	4.16	2.69	2.95	5.00	2.30 CMS
Runoff	7.779	10.311	12.616	9.748	12.423	10.105	56.165	74.759	15.528	14.600	11.675	18.712	254.421 MCM

Momentary Peak 155.76 CMS, at 5.06 M (MSL), at 18.00 Hours, on Nov 3, 1992

Runoff Yield 1.93 Liters/Second/Square KM, Momentary Peak Yield 37.19 Liters/Second/Square KM

WATER YEAR 1992

PHETCHABURI RIVER BASIN

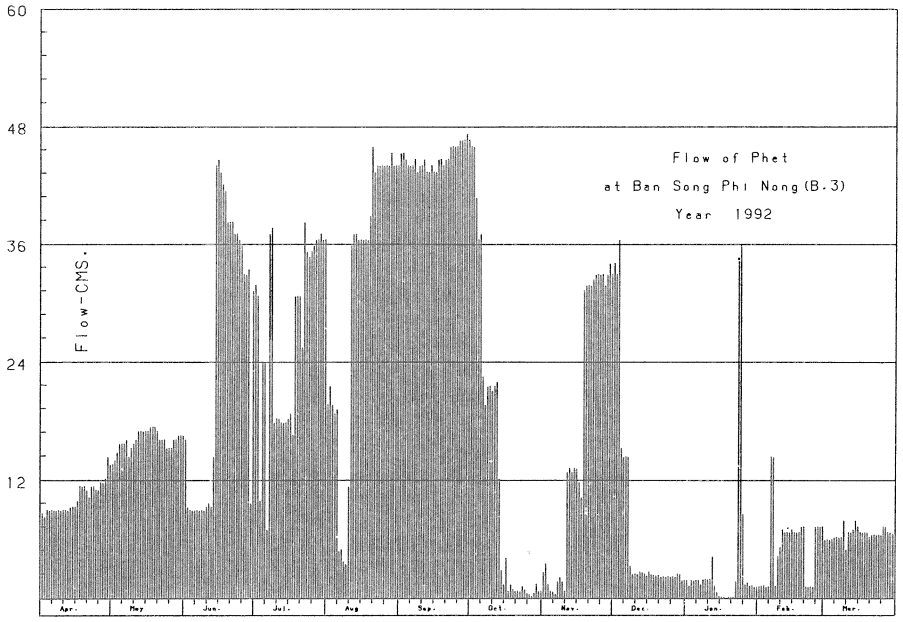
Phetchaburi River at Ban Song Phi Nong, Phetchaburi (B.3)

Location	Lat. 12°-52'-04" N., Long. 99°-40'-40" E., on left bank at Ban Song Phi Nong, Amphoe Tha Yang, Phetchaburi.
Drainage Area	2,244 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+41.00 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the top staff gage.
Elevation	+50.534 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1930 - 1942, 1954 to date.
Rating Operation	
Period of Rating	1954 - 1959, 1968 to date.
Rated by Float	-
Rated by Current Meter	1954 - 1959, 1968 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Kaeng Krachan Reservoir. Stage-discharge relation defined by 31 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.15	42.29	42.35	42.67	42.43	42.89	42.90	41.91	42.71	41.85	41.80	42.06	
2	42.14	42.30	42.17	42.65	42.47	42.89	42.90	41.95	42.69	41.81	41.81	42.06	
3	42.16	42.32	42.16	42.19	42.43	42.88	42.82	41.82	42.75	41.85	41.81	42.06	
4	42.16	42.34	42.16	42.52	42.41	42.87	42.75	41.75	42.33	41.85	41.80	42.06	
5	42.16	42.34	42.16	42.52	42.42	42.87	42.76	41.74	42.31	41.85	41.80	42.07	
6	42.16	42.34	42.16	42.10	42.01	42.87	42.49	41.72	42.31	41.85	42.31	42.07	
7	42.16	42.35	42.16	42.76	42.02	42.88	42.43	41.84	42.31	41.82	42.31	42.07	
8	42.16	42.31	42.16	42.77	41.96	42.86	42.47	41.87	41.94	41.86	41.81	42.07	
9	42.16	42.33	42.16	42.39	41.95	42.87	42.47	41.84	41.90	41.86	41.99	42.13	
10	42.16	42.34	42.17	42.40	42.23	42.87	42.46	41.75	41.90	41.86	42.03	42.02	
11	42.16	42.35	42.18	42.40	42.74	42.88	42.47	42.27	41.90	41.86	42.10	42.09	
12	42.16	42.37	42.17	42.39	42.76	42.86	42.48	42.28	41.91	41.99	42.09	42.09	
13	42.17	42.37	42.31	42.39	42.76	42.86	42.25	42.27	41.91	41.81	42.09	42.10	
14	42.17	42.37	42.87	42.39	42.75	42.87	41.92	42.28	41.90	41.74	42.09	42.13	
15	42.17	42.37	42.88	42.40	42.75	42.86	41.82	42.28	41.89	41.67	42.10	42.11	
16	42.19	42.37	42.86	42.41	42.75	42.86	41.98	42.24	41.91	41.67	42.09	42.09	
17	42.23	42.38	42.84	42.36	42.75	42.88	41.75	42.20	41.90	41.65	42.09	42.09	
18	42.23	42.38	42.83	42.65	42.75	42.88	41.82	42.66	41.89	41.64	42.09	42.09	
19	42.23	42.38	42.78	42.65	42.79	42.87	41.77	42.67	41.89	41.65	42.11	42.09	
20	42.22	42.37	42.78	42.65	42.90	42.88	41.75	42.67	41.89	41.65	42.11	42.07	
21	42.20	42.35	42.78	42.55	42.86	42.88	41.75	42.67	41.88	41.64	41.80	42.08	
22	42.23	42.35	42.76	42.78	42.87	42.90	41.75	42.68	41.88	41.84	41.80	42.08	
23	42.23	42.35	42.76	42.73	42.87	42.90	41.80	42.69	41.88	42.72	41.80	42.08	
24	42.22	42.33	42.75	42.72	42.87	42.90	41.77	42.69	41.88	42.74	41.80	42.08	
25	42.22	42.33	42.74	42.73	42.87	42.90	41.73	42.69	41.88	42.15	42.11	42.08	
26	42.24	42.33	42.69	42.74	42.87	42.91	41.71	42.69	41.88	41.82	42.11	42.11	
27	42.24	42.35	42.69	42.75	42.87	42.91	41.69	42.67	41.88	41.83	42.11	42.11	
28	42.25	42.35	42.70	42.75	42.89	42.91	41.73	42.69	41.90	41.81	42.11	42.09	
29	42.31	42.36	42.18	42.76	42.87	42.92	41.82	42.71	41.90	41.81		42.09	
30	42.29	42.36	42.66	42.75	42.87	42.91	41.75	42.69	41.85	41.80		42.09	
31		42.36		42.75	42.87		41.75		41.85	41.80		42.09	
Mean	42.20	42.35	42.50	42.57	42.63	42.88	42.12	42.30	42.03	41.86	42.00	42.08	
Max	42.31	42.38	42.88	42.78	42.90	42.92	42.90	42.71	42.75	42.74	42.31	42.13	42.92
Min	42.14	42.29	42.16	42.10	41.95	42.86	41.69	41.72	41.85	41.64	41.80	42.02	41.64

Annual Max Momentary Gage Height 42.95 M (MSL), at 18.00 Hours, on Aug 2, 1992
Zero Gage at Bottom Elevation 41.00 M (MSL), River Bed 40.29 M (MSL)
Left Bank Elevation 47.68 M (MSL)
Right Bank Elevation 47.90 M (MSL), Drainage Area 2244 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.65	13.63	16.15	31.85	19.71	45.35	46.00	2.70	34.10	1.85	1.20	6.00	
2	8.32	14.00	9.31	30.75	21.59	45.35	46.00	3.50	32.95	1.33	1.33	6.00	
3	8.98	14.86	8.98	9.97	19.71	44.70	40.80	1.46	36.50	1.85	1.33	6.00	
4	8.98	15.72	8.98	24.00	18.77	44.05	36.50	0.75	15.29	1.85	1.20	6.00	
5	8.98	15.72	8.98	24.00	19.24	44.05	37.10	0.66	14.43	1.85	1.20	6.25	
6	8.98	15.72	8.98	7.00	4.75	44.05	22.53	0.48	14.43	1.85	14.43	6.25	
7	8.98	16.15	8.98	37.10	5.00	44.70	19.71	1.72	14.43	1.46	14.43	6.25	
8	8.98	14.43	8.98	37.70	3.70	43.40	21.59	2.11	3.30	1.98	1.33	6.25	
9	8.98	15.29	8.98	17.87	3.50	44.05	21.59	1.72	2.50	1.98	4.30	7.99	
10	8.98	15.72	9.31	18.30	11.41	44.05	21.12	0.75	2.50	1.98	5.25	5.00	
11	8.98	16.15	9.64	18.30	35.90	44.70	21.59	12.89	2.50	1.98	7.00	6.75	
12	8.98	17.01	9.31	17.87	37.10	43.40	22.06	13.26	2.70	4.30	6.75	6.75	
13	9.31	17.01	14.43	17.87	37.10	43.40	12.15	12.89	2.70	1.33	6.75	7.00	
14	9.31	17.01	44.05	17.87	36.50	44.05	2.90	13.26	2.50	0.66	6.75	7.99	
15	9.31	17.01	44.70	18.30	36.50	43.40	1.46	13.26	2.37	0.21	7.00	7.33	
16	9.97	17.01	43.40	18.77	36.50	43.40	4.10	11.78	2.70	0.21	6.75	6.75	
17	11.41	17.44	42.10	16.58	36.50	44.70	0.75	10.30	2.50	0.15	6.75	6.75	
18	11.41	17.44	41.45	30.75	36.50	44.70	1.46	31.30	2.37	0.12	6.75	6.75	
19	11.41	17.44	38.30	30.75	38.90	44.05	0.93	31.85	2.37	0.15	7.33	6.75	
20	11.04	17.01	38.30	30.75	46.00	44.70	0.75	31.85	2.37	0.15	7.33	6.25	
21	10.30	16.15	38.30	25.50	43.40	44.70	0.75	31.85	2.24	0.12	1.20	6.50	
22	11.41	16.15	37.10	38.30	44.05	46.00	0.75	32.40	2.24	1.72	1.20	6.50	
23	11.41	16.15	37.10	35.30	44.05	46.00	1.20	32.95	2.24	34.70	1.20	6.50	
24	11.04	15.29	36.50	34.70	44.05	46.00	0.93	32.95	2.24	35.90	1.20	6.50	
25	11.04	15.29	35.90	35.30	44.05	46.00	0.57	32.95	2.24	8.65	7.33	6.50	
26	11.78	15.29	32.95	35.90	44.05	46.65	0.39	32.95	2.24	1.46	7.33	7.33	
27	11.78	16.15	32.95	36.50	44.05	46.65	0.27	31.85	2.24	1.59	7.33	7.33	
28	12.15	16.15	33.50	36.50	45.35	46.65	0.57	32.95	2.50	1.33	7.33	6.75	
29	14.43	16.58	9.64	37.10	44.05	47.30	1.46	34.10	2.50	1.33		6.75	
30	13.63	16.58	31.30	36.50	44.05	46.65	0.75	32.95	1.85	1.20		6.75	
31		16.58		36.50	44.05		0.75		1.85	1.20		6.75	
Total	308.91	498.13	748.55	844.45	990.08	1346.85	389.48	526.39	219.69	116.44	149.28	205.22	6543.67 CMSDAY
Mean	10.30	16.07	24.95	27.24	31.94	44.90	12.56	17.55	7.09	3.76	5.33	6.62	17.38 CMS
Max	14.43	17.44	44.70	38.30	46.00	47.30	46.00	34.10	36.50	35.90	14.43	7.99	47.30 CMS
Min	8.32	13.63	8.98	7.00	3.50	43.40	0.27	0.48	1.85	0.12	1.20	5.00	0.12 CMS
Runoff	26.690	43.038	64.675	72.960	85.543	116.368	33.651	45.480	18.999	10.060	12.898	17.731	548.093 MCM

Momentary Peak 49.25 CMS, at 42.95 M (MSL), at 18.00 Hours, on Aug 2, 1992

Runoff Yield 7.75 Liters/Second/Square KM, Momentary Peak Yield 21.95 Liters/Second/Square KM

WATER YEAR 1992

PHETCHABURI RIVER BASIN

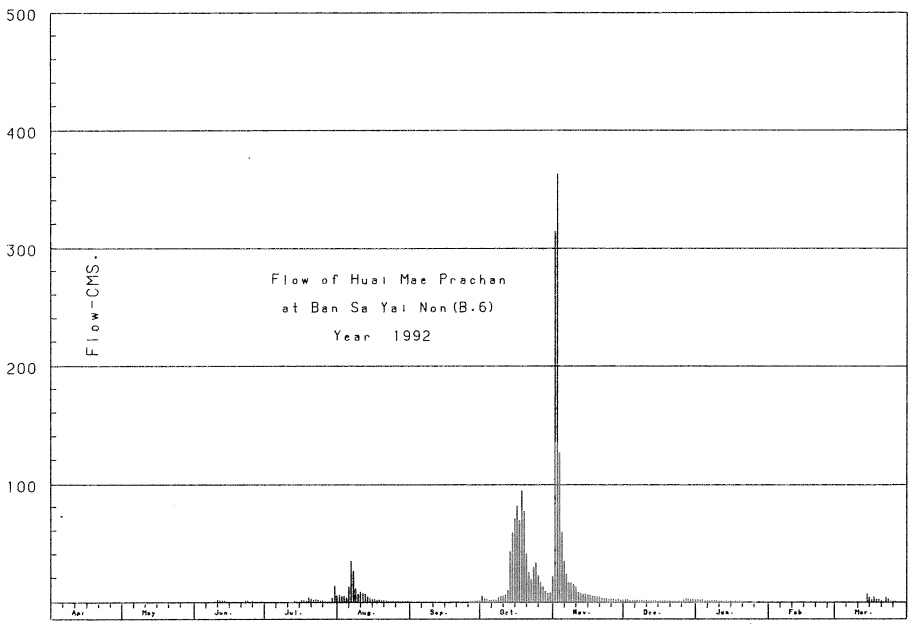
Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B.6)

Location	Lat. 12°-55'-56" N., Long. 99°-47'-05" E., on left bank about 250 meters upstream from the bridge of Khuan Phet-Kaeng Krachan Reservoir Road, Amphoe Tha Yang, Phetchaburi.
Drainage Area	1,015 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+22.711 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	Near the automatic gage building.
Elevation	+33.033 m. (M.S.L.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1941 - 1942, 1961 to date.
Rating Operation	
Period of Rating	1961 - 1962, 1964 to date.
Rated by Float	-
Rated by Current Meter	1961 - 1962, 1964 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 65 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.11	22.42	22.42	22.50	23.00	22.52	22.95	27.17	22.74	22.73	23.22	22.60	
2	22.10	22.42	22.38	22.49	22.96	22.49	22.83	27.54	22.73	22.73	23.20	22.58	
3	22.10	22.42	22.34	22.49	22.95	22.46	22.77	25.35	22.67	22.72	23.18	22.56	
4	22.10	22.42	22.33	22.48	22.90	22.44	22.70	24.35	22.67	22.66	23.17	22.55	
5	22.07	22.42	22.32	22.46	23.30	22.45	22.69	23.86	22.66	22.63	23.15	22.52	
6	22.01	22.42	22.31	22.46	23.85	22.46	22.68	23.57	22.66	22.62	23.14	22.49	
7	22.01	22.42	22.33	22.45	23.65	22.48	22.72	23.40	22.66	22.65	23.12	22.48	
8	22.00	22.42	22.44	22.44	23.23	22.49	22.86	23.38	22.65	22.65	23.11	22.47	
9	22.00	22.42	22.57	22.45	23.06	22.45	22.95	23.35	22.65	22.62	23.09	22.47	
10	21.99	22.42	22.74	22.44	23.12	22.43	22.95	23.27	22.65	22.61	23.07	22.47	
11	21.98	22.42	22.65	22.43	23.09	22.41	23.00	23.12	22.64	22.60	23.06	22.47	
12	21.98	22.42	22.67	22.47	23.04	22.45	23.19	23.06	22.64	22.59	23.03	22.47	
13	21.97	22.42	22.62	22.58	22.94	22.47	24.03	23.05	22.64	22.59	23.01	22.47	
14	21.97	22.42	22.59	22.59	22.82	22.45	24.34	23.05	22.63	22.59	22.99	23.07	
15	21.97	22.42	22.55	22.57	22.78	22.45	24.54	23.02	22.62	22.58	22.97	22.88	
16	21.97	22.42	22.52	22.71	22.74	22.44	24.71	22.98	22.62	22.58	22.94	22.75	
17	21.97	22.42	22.50	22.65	22.71	22.43	24.51	22.95	22.61	22.58	22.92	22.91	
18	21.96	22.42	22.49	22.63	22.69	22.44	24.90	22.93	22.61	22.58	22.90	22.79	
19	21.96	22.42	22.48	22.89	22.68	22.53	24.64	22.91	22.61	22.58	22.87	22.74	
20	21.96	22.42	22.47	22.77	22.66	22.54	23.98	22.89	22.61	22.57	22.84	22.68	
21	21.96	22.42	22.48	22.69	22.65	22.52	23.61	22.86	22.60	22.57	22.81	22.57	
22	21.95	22.42	22.65	22.79	22.62	22.49	23.47	22.82	22.60	22.59	22.78	22.88	
23	21.94	22.42	22.61	22.69	22.61	22.47	23.73	22.79	22.60	23.11	22.74	22.81	
24	21.92	22.42	22.53	22.65	22.60	22.46	23.81	22.77	22.60	23.25	22.72	22.67	
25	21.91	22.42	22.60	22.63	22.58	22.45	23.55	22.76	22.60	23.32	22.68	22.59	
26	21.91	22.42	22.57	22.58	22.58	22.62	23.39	22.75	22.69	23.31	22.66	22.56	
27	21.90	22.42	22.54	22.55	22.56	22.62	23.29	22.75	22.82	23.29	22.64	22.55	
28	21.90	22.67	22.53	22.56	22.56	22.63	23.15	22.74	22.77	23.27	22.61	22.54	
29	21.90	22.55	22.52	22.86	22.56	22.59	23.06	22.71	22.75	23.26		22.52	
30	21.90	22.48	22.51	23.32	22.55	22.63	23.10	22.68	22.74	23.25		22.51	
31		22.44		22.98	22.54		23.52		22.74	23.22		22.49	
Mean	21.98	22.43	22.51	22.62	22.86	22.49	23.47	23.43	22.66	22.80	22.95	22.62	
Max	22.11	22.67	22.74	23.32	23.85	22.63	24.90	27.54	22.82	23.32	23.22	23.07	27.54
Min	21.90	22.42	22.31	22.43	22.54	22.41	22.68	22.68	22.60	22.57	22.61	22.47	21.90

Annual Max Momentary Gage Height 28.71 M (MSL), at 1.00 Hours, on Nov 2, 1992
Zero Gage at Bottom Elevation 22.71 M (MSL), River Bed 20.83 M (MSL)
Left Bank Elevation 31.72 M (MSL)
Right Bank Elevation 30.61 M (MSL), Drainage Area 1015 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.40	0.40	0.80	6.30	0.92	5.45	314.10	2.60	2.50	0.00	0.00	
2	0.00	0.40	0.24	0.75	5.62	0.75	3.62	363.60	2.50	2.50	0.00	0.00	
3	0.00	0.40	0.12	0.75	5.45	0.60	2.90	127.00	1.96	2.40	0.00	0.00	
4	0.00	0.40	0.09	0.70	4.60	0.50	2.20	60.00	1.96	1.88	0.00	0.00	
5	0.00	0.40	0.06	0.60	13.80	0.55	2.12	35.40	1.88	1.64	0.00	0.00	
6	0.00	0.40	0.03	0.60	35.00	0.60	2.04	23.80	1.88	1.56	0.00	0.00	
7	0.00	0.40	0.09	0.55	27.00	0.70	2.40	17.10	1.88	1.80	0.00	0.00	
8	0.00	0.40	0.50	0.50	11.77	0.75	4.04	16.44	1.80	1.80	0.00	0.00	
9	0.00	0.40	1.22	0.55	7.56	0.55	5.45	15.45	1.80	1.56	0.00	0.00	
10	0.00	0.40	2.60	0.50	8.90	0.45	5.45	12.93	1.80	1.48	0.00	0.00	
11	0.00	0.40	1.80	0.45	8.19	0.35	6.30	8.90	1.72	1.40	0.00	0.00	
12	0.00	0.40	1.96	0.65	7.14	0.55	10.65	7.56	1.72	1.34	0.00	0.00	
13	0.00	0.40	1.56	1.28	5.28	0.65	43.50	7.35	1.72	1.34	0.00	0.00	
14	0.00	0.40	1.34	1.34	3.48	0.55	59.40	7.35	1.64	1.34	0.00	7.77	
15	0.00	0.40	1.10	1.22	3.00	0.55	71.40	6.72	1.56	1.28	0.00	4.32	
16	0.00	0.40	0.92	2.30	2.60	0.50	81.70	5.96	1.56	1.28	0.00	2.70	
17	0.00	0.40	0.80	1.80	2.30	0.45	69.60	5.45	1.48	1.28	0.00	4.77	
18	0.00	0.40	0.75	1.64	2.12	0.50	95.00	5.11	1.48	1.28	0.00	3.10	
19	0.00	0.40	0.70	4.46	2.04	0.98	77.40	4.77	1.48	1.28	0.00	2.60	
20	0.00	0.40	0.65	2.90	1.88	1.04	41.00	4.46	1.48	1.22	0.00	2.04	
21	0.00	0.40	0.70	2.12	1.80	0.92	25.40	4.04	1.40	1.22	0.00	1.22	
22	0.00	0.40	1.80	3.10	1.56	0.75	19.83	3.48	1.40	0.00	0.00	4.32	
23	0.00	0.40	1.48	2.12	1.48	0.65	30.20	3.10	1.40	0.00	0.00	3.34	
24	0.00	0.40	0.98	1.80	1.40	0.60	33.40	2.90	1.40	0.00	0.00	1.96	
25	0.00	0.40	1.40	1.64	1.28	0.55	23.00	2.80	1.40	0.00	0.00	1.34	
26	0.00	0.40	1.22	1.28	1.28	1.56	16.77	2.70	2.12	0.00	0.00	1.16	
27	0.00	0.40	1.04	1.10	1.16	1.56	13.51	2.70	3.48	0.00	0.00	1.10	
28	0.00	1.96	0.98	1.16	1.16	1.64	9.65	2.60	2.90	0.00	0.00	1.04	
29	0.00	1.10	0.92	4.04	1.16	1.34	7.56	2.30	2.70	0.00		0.92	
30	0.00	0.70	0.86	14.46	1.10	1.64	8.40	2.04	2.60	0.00		0.86	
31		0.50		5.96	1.04		21.80		2.60	0.00		0.75	
Total	0.00	15.06	28.31	63.12	178.45	23.70	801.14	1078.11	59.30	33.38	0.00	45.31	2325.88 CMSDAY
Mean	0.00	0.49	0.94	2.04	5.76	0.79	25.84	35.94	1.91	1.08	0.00	1.46	6.37 CMS
Max	0.00	1.96	2.60	14.46	35.00	1.64	95.00	363.60	3.48	2.50	0.00	7.77	363.60 CMS
Min	0.00	0.40	0.03	0.45	1.04	0.35	2.04	2.04	1.40	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	1.301	2.446	5.454	15.418	2.048	69.219	93.149	5.124	2.884	0.000	3.915	200.956 MCM

Momentary Peak 551.80 CMS, at 28.71 M (MSL), at 1.00 Hours, on Nov 2, 1992

Runoff Yield 6.28 Liters/Second/Square KM, Momentary Peak Yield 543.65 Liters/Second/Square KM

WATER YEAR 1992

PHETCHABURI RIVER BASIN

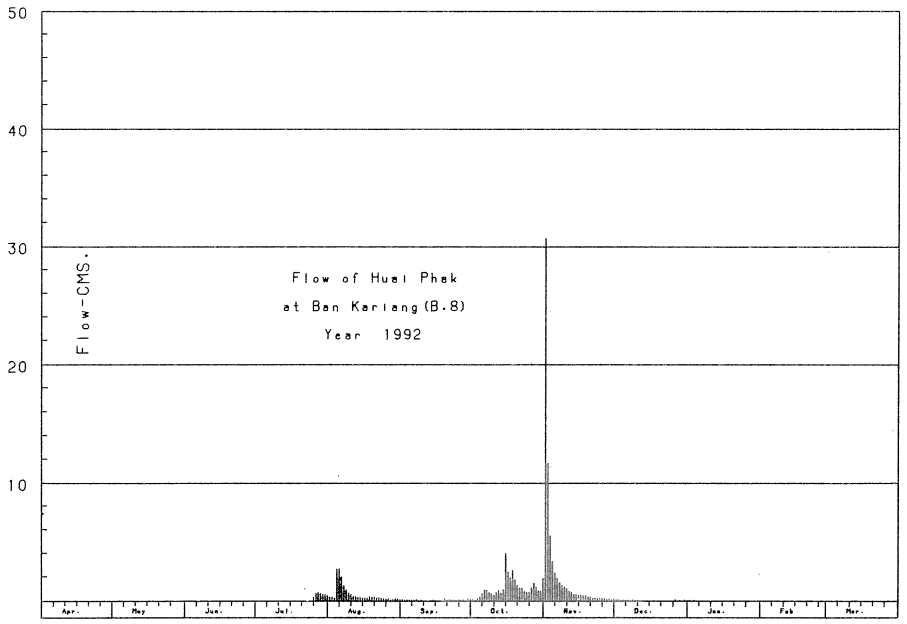
Huai Phak at Ban Kariang, Phetchaburi (B.8)

Location	Lat. 12°-48'-49" N., Long. 99°-41'-32" E., on left bank at Ban Kariang, Tambon Song Phi Nong, Amphoe Tha Yang, Phetchaburi.
Drainage Area	264 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	Infront of gage observer's house.
Elevation	+8.879 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1973 to date.
Rating Operation	
Period of Rating	1973 to date.
Rated by Float	-
Rated by Current Meter	1973 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 88 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.94	0.59	0.58	0.62	1.69	1.60	1.60	4.36	1.61	1.58	1.50	1.11	
2	0.96	0.58	0.59	0.62	1.68	1.60	1.59	3.30	1.60	1.58	1.50	1.10	
3	0.95	0.57	0.57	0.60	1.66	1.58	1.62	2.74	1.60	1.57	1.49	1.10	
4	0.93	0.56	0.57	0.57	2.29	1.61	1.69	2.42	1.59	1.55	1.48	1.10	
5	0.91	0.56	0.55	0.56	2.31	1.60	1.77	2.23	1.59	1.54	1.48	1.08	
6	0.89	0.57	0.55	0.56	2.14	1.60	1.87	2.11	1.58	1.53	1.47	1.04	
7	0.86	0.58	0.57	0.56	1.97	1.60	1.85	2.03	1.58	1.52	1.46	1.03	
8	0.84	0.59	0.57	0.56	1.86	1.59	1.81	1.96	1.59	1.51	1.44	1.05	
9	0.85	0.58	0.58	0.57	1.80	1.58	1.76	1.94	1.59	1.53	1.42	1.03	
10	0.83	0.58	0.58	0.58	1.75	1.57	1.74	1.89	1.58	1.51	1.44	0.91	
11	0.80	0.57	0.59	0.59	1.71	1.56	1.81	1.84	1.57	1.50	1.45	0.90	
12	0.78	0.56	0.60	0.59	1.69	1.54	1.84	1.80	1.57	1.51	1.47	0.85	
13	0.77	0.56	0.60	0.59	1.68	1.56	1.79	1.76	1.54	1.52	1.47	0.82	
14	0.76	0.55	0.60	0.60	1.67	1.59	1.86	1.75	1.56	1.52	1.47	0.84	
15	0.73	0.55	0.60	0.60	1.66	1.58	2.53	1.74	1.55	1.52	1.49	0.87	
16	0.75	0.55	0.61	0.61	1.65	1.58	2.25	1.73	1.54	1.50	1.47	0.86	
17	0.71	0.55	0.61	0.61	1.66	1.55	2.12	1.73	1.53	1.49	1.40	0.86	
18	0.68	0.55	0.61	0.61	1.69	1.54	2.27	1.72	1.53	1.49	1.37	0.86	
19	0.68	0.56	0.62	0.61	1.69	1.62	2.09	1.70	1.54	1.49	1.37	0.86	
20	0.70	0.54	0.61	0.61	1.68	1.60	1.96	1.68	1.53	1.50	1.38	0.84	
21	0.69	0.54	0.61	0.67	1.67	1.60	1.90	1.66	1.52	1.48	1.36	0.85	
22	0.63	0.54	0.62	0.70	1.67	1.59	1.91	1.65	1.52	1.49	1.33	0.87	
23	0.65	0.53	0.62	0.70	1.65	1.58	1.83	1.64	1.52	1.51	1.27	0.80	
24	0.64	0.53	0.62	1.18	1.63	1.58	1.80	1.65	1.52	1.52	1.25	0.77	
25	0.65	0.54	0.62	1.67	1.63	1.59	1.80	1.64	1.54	1.53	1.22	0.70	
26	0.67	0.55	0.63	1.79	1.61	1.59	1.92	1.63	1.59	1.54	1.22	0.69	
27	0.64	0.55	0.63	1.81	1.59	1.58	2.02	1.63	1.58	1.53	1.21	0.69	
28	0.60	0.56	0.63	1.77	1.59	1.57	1.92	1.62	1.57	1.52	1.19	0.70	
29	0.57	0.57	0.63	1.76	1.64	1.62	1.85	1.61	1.58	1.51		0.69	
30	0.57	0.57	0.63	1.74	1.62	1.61	1.82	1.62	1.59	1.51		0.64	
31		0.58		1.72	1.61		2.10		1.59	1.50		0.61	
Mean	0.75	0.56	0.60	0.88	1.74	1.59	1.89	1.96	1.56	1.52	1.40	0.87	
Max	0.96	0.59	0.63	1.81	2.31	1.62	2.53	4.36	1.61	1.58	1.50	1.11	4.36
Min	0.57	0.53	0.55	0.56	1.59	1.54	1.59	1.61	1.52	1.48	1.19	0.61	0.53

Annual Max Momentary Gage Height 4.48 M (A.D), at 11.00 Hours, on Nov 1, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.41 M (A.D)
Left Bank Elevation 6.67 M (A.D)
Right Bank Elevation 8.79 M (A.D), Drainage Area 264 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.38	0.15	0.15	30.76	0.17	0.12	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.35	0.15	0.14	11.75	0.15	0.12	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.30	0.12	0.20	5.59	0.15	0.11	0.00	0.00	
4	0.00	0.00	0.00	0.00	2.71	0.17	0.38	3.37	0.14	0.07	0.00	0.00	
5	0.00	0.00	0.00	0.00	2.80	0.15	0.64	2.44	0.14	0.06	0.00	0.00	
6	0.00	0.00	0.00	0.00	2.06	0.15	1.00	1.94	0.12	0.04	0.00	0.00	
7	0.00	0.00	0.00	0.00	1.38	0.15	0.93	1.62	0.12	0.03	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.96	0.14	0.78	1.34	0.14	0.01	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.75	0.12	0.61	1.26	0.14	0.04	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.57	0.11	0.54	1.07	0.12	0.01	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.44	0.09	0.78	0.89	0.11	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.38	0.06	0.89	0.75	0.11	0.01	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.35	0.09	0.71	0.61	0.06	0.03	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.32	0.14	0.96	0.57	0.09	0.03	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.30	0.12	4.05	0.54	0.07	0.03	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.27	0.12	2.53	0.50	0.06	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.30	0.07	1.98	0.50	0.04	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.38	0.06	2.62	0.47	0.04	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.38	0.20	1.86	0.40	0.06	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.35	0.15	1.34	0.35	0.04	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.32	0.15	1.10	0.30	0.03	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.32	0.14	1.14	0.27	0.03	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.27	0.12	0.86	0.25	0.03	0.01	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.22	0.12	0.75	0.27	0.03	0.03	0.00	0.00	
25	0.00	0.00	0.00	0.32	0.22	0.14	0.75	0.25	0.06	0.04	0.00	0.00	
26	0.00	0.00	0.00	0.71	0.17	0.14	1.18	0.22	0.14	0.06	0.00	0.00	
27	0.00	0.00	0.00	0.78	0.14	0.12	1.58	0.22	0.12	0.04	0.00	0.00	
28	0.00	0.00	0.00	0.64	0.14	0.11	1.18	0.20	0.11	0.03	0.00	0.00	
29	0.00	0.00	0.00	0.61	0.25	0.20	0.93	0.17	0.12	0.01		0.00	
30	0.00	0.00	0.00	0.54	0.20	0.17	0.82	0.20	0.14	0.01		0.00	
31		0.00		0.47	0.17		1.90		0.14	0.00		0.00	
Total	0.00	0.00	0.00	4.07	18.15	3.92	35.28	69.07	3.02	0.94	0.00	0.00	134.45 CMSDAY
Mean	0.00	0.00	0.00	0.13	0.59	0.13	1.14	2.30	0.10	0.03	0.00	0.00	0.37 CMS
Max	0.00	0.00	0.00	0.78	2.80	0.20	4.05	30.76	0.17	0.12	0.00	0.00	30.76 CMS
Min	0.00	0.00	0.00	0.00	0.14	0.06	0.14	0.17	0.03	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.000	0.352	1.568	0.339	3.048	5.968	0.261	0.081	0.000	0.000	11.616 MCM

Momentary Peak 33.32 CMS, at 4.48 M (A.D), at 11.00 Hours, on Nov 1, 1992

Runoff Yield 1.40 Liters/Second/Square KM, Momentary Peak Yield 126.21 Liters/Second/Square KM

WATER YEAR 1992

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Tha Yang, Phetchaburi (B.10)

Location — Lat. 12°-58'-24" N., Long. 99°-53'-10" E., on left bank at the bridge of Ban Tha Yang, Amphoe Tha Yang, Phetchaburi.

Drainage Area — 4,111 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On left bank about 2.00 meters from the top staff gage.

Elevation — +9.443 m.(A.D.)

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

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

Period of Available Gage Records — 1983 to date.

Rating Operation

Period of Rating — 1985 to date.

Rated by Float — -

Rated by Current Meter — 1985 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — Overbank flow starts at elevation +6.58 m.(A.D.), records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 52 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

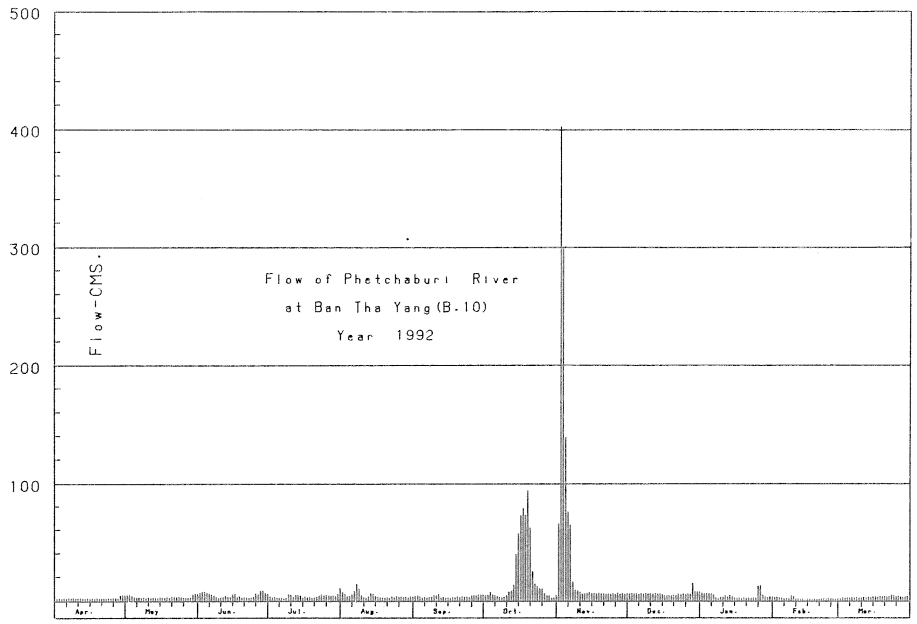
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.67	1.02	1.17	0.84	1.26	0.89	0.95	4.27	1.14	1.15	0.84	0.68	
2	0.67	0.99	1.27	0.82	1.07	0.97	1.06	8.39	1.14	1.14	0.82	0.74	
3	0.66	0.95	1.25	0.81	0.91	0.86	1.21	8.00	1.13	1.13	0.79	0.75	
4	0.67	0.79	1.21	0.80	0.89	0.80	1.07	6.53	1.12	1.14	0.74	0.74	
5	0.68	0.75	1.15	0.75	1.07	0.79	0.96	4.68	1.11	1.11	0.72	0.79	
6	0.69	0.75	1.01	0.70	1.31	0.78	0.93	4.25	1.13	1.05	0.68	0.76	
7	0.71	0.77	0.98	0.69	1.82	0.79	0.82	1.94	1.12	0.78	0.69	0.77	
8	0.69	0.74	0.80	0.71	1.47	0.87	0.81	1.39	1.14	0.70	0.95	0.79	
9	0.70	0.74	0.77	1.08	1.01	0.96	0.82	1.37	1.14	0.79	0.92	0.78	
10	0.67	0.76	0.75	0.99	0.76	0.99	1.00	1.23	1.13	0.85	0.67	0.78	
11	0.69	0.75	0.78	0.78	0.77	1.07	1.24	1.14	1.12	0.95	0.63	0.79	
12	0.69	0.74	0.97	1.03	0.86	0.79	1.35	1.12	1.14	0.87	0.62	0.79	
13	0.68	0.73	0.79	0.98	1.19	0.79	1.72	1.17	1.13	0.98	0.63	0.80	
14	0.68	0.75	0.86	0.98	1.08	0.78	3.19	1.21	1.11	0.88	0.64	0.81	
15	0.68	0.78	1.07	0.77	0.94	0.75	3.93	1.18	1.09	0.75	0.63	0.83	
16	0.68	0.77	1.10	0.84	0.83	0.74	4.57	1.14	0.95	0.73	0.61	0.84	
17	0.68	0.78	0.83	0.80	0.81	0.79	4.78	1.14	0.96	0.74	0.60	0.85	
18	0.69	0.80	0.87	0.78	0.74	0.81	4.56	1.16	0.96	0.71	0.60	0.87	
19	0.68	0.79	0.79	0.75	0.78	0.84	5.27	1.14	0.98	0.74	0.60	0.90	
20	0.69	0.84	0.77	0.74	0.76	0.83	4.14	1.12	0.98	0.73	0.60	0.89	
21	0.67	0.86	0.75	0.84	0.76	0.85	2.49	1.11	0.98	0.73	0.68	0.85	
22	0.68	0.82	0.76	0.96	0.85	0.87	1.82	1.11	1.08	0.73	0.68	0.87	
23	0.68	0.84	0.75	1.03	0.83	0.83	1.62	1.12	1.07	0.73	0.67	1.04	
24	0.69	0.83	0.88	1.01	0.89	0.83	1.52	1.12	1.09	0.75	0.69	0.98	
25	0.69	0.74	1.11	0.98	0.85	0.98	1.47	1.11	1.08	1.68	0.70	0.89	
26	0.69	0.71	1.08	0.97	0.83	0.97	1.17	1.15	1.10	1.67	0.62	0.90	
27	0.69	0.77	1.35	0.96	0.84	0.98	0.98	1.12	1.11	1.04	0.62	0.87	
28	0.97	0.75	1.33	0.95	0.83	1.01	0.95	1.12	1.85	0.83	0.63	0.79	
29	0.97	1.06	1.20	0.91	0.81	1.04	0.77	1.12	1.27	0.82		0.84	
30	0.97	1.09	1.07	1.08	0.86	1.01	0.74	1.13	1.28	0.83		0.88	
31		1.11		1.50	0.88		0.95		1.24	0.83		0.87	
Mean	0.71	0.82	0.98	0.90	0.95	0.88	1.90	2.16	1.12	0.92	0.69	0.83	
Max	0.97	1.11	1.35	1.50	1.82	1.07	5.27	8.39	1.85	1.68	0.95	1.04	8.39
Min	0.66	0.71	0.75	0.69	0.74	0.74	0.74	1.11	0.95	0.70	0.60	0.68	0.60

Annual Max Momentary Gage Height — 8.60 M (A.D), at 18.00 Hours, on Nov 2, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.28 M (A.D)

Left Bank Elevation — 6.57 M (A.D)

Right Bank Elevation — 7.68 M (A.D), Drainage Area 4111 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.46	5.60	7.17	3.86	8.16	4.31	4.90	65.75	6.84	6.95	3.86	2.54	
2	2.46	5.30	8.27	3.68	6.10	5.10	6.00	403.10	6.84	6.84	3.68	3.02	
3	2.38	4.90	8.05	3.59	4.50	4.04	7.61	300.00	6.73	6.73	3.42	3.10	
4	2.46	3.42	7.61	3.50	4.31	3.50	6.10	140.00	6.62	6.84	3.02	3.02	
5	2.54	3.10	6.95	3.10	6.10	3.42	5.00	76.40	6.51	6.51	2.86	3.42	
6	2.62	3.10	5.50	2.70	8.72	3.34	4.70	65.25	6.73	5.90	2.54	3.18	
7	2.78	3.26	5.20	2.62	15.28	3.42	3.68	16.96	6.62	3.34	2.62	3.26	
8	2.62	3.02	3.50	2.78	10.64	4.13	3.59	9.68	6.84	2.70	4.90	3.42	
9	2.70	3.02	3.26	6.20	5.50	5.00	3.68	9.44	6.84	3.42	4.60	3.34	
10	2.46	3.18	3.10	5.30	3.18	5.30	5.40	7.83	6.73	3.95	2.46	3.34	
11	2.62	3.10	3.34	3.34	3.26	6.10	7.94	6.84	6.62	4.90	2.14	3.42	
12	2.62	3.02	5.10	5.70	4.04	3.42	9.20	6.62	6.84	4.13	2.06	3.42	
13	2.54	2.94	3.42	5.20	7.39	3.42	13.88	7.17	6.73	5.20	2.14	3.50	
14	2.54	3.10	4.04	5.20	6.20	3.34	39.80	7.61	6.51	4.22	2.22	3.59	
15	2.54	3.34	6.10	3.26	4.80	3.10	57.25	7.28	6.30	3.10	2.14	3.77	
16	2.54	3.26	6.40	3.86	3.77	3.02	73.25	6.84	4.90	2.94	1.98	3.86	
17	2.54	3.34	3.77	3.50	3.59	3.42	79.40	6.84	5.00	3.02	1.90	3.95	
18	2.62	3.50	4.13	3.34	3.02	3.59	73.00	7.06	5.00	2.78	1.90	4.13	
19	2.54	3.42	3.42	3.10	3.34	3.86	94.10	6.84	5.20	3.02	1.90	4.40	
20	2.62	3.86	3.26	3.02	3.18	3.77	62.50	6.62	5.20	2.94	1.90	4.31	
21	2.46	4.04	3.10	3.86	3.18	3.95	25.92	6.51	5.20	2.94	2.54	3.95	
22	2.54	3.68	3.18	5.00	3.95	4.13	15.28	6.51	6.20	2.94	2.54	4.13	
23	2.54	3.86	3.10	5.70	3.77	3.77	12.56	6.62	6.10	2.94	2.46	5.80	
24	2.62	3.77	4.22	5.50	4.31	3.77	11.26	6.62	6.30	3.10	2.62	5.20	
25	2.62	3.02	6.51	5.20	3.95	5.20	10.64	6.51	6.20	13.34	2.70	4.31	
26	2.62	2.78	6.20	5.10	3.77	5.10	7.17	6.95	6.40	13.21	2.06	4.40	
27	2.62	3.26	9.20	5.00	3.86	5.20	5.20	6.62	6.51	5.80	2.06	4.13	
28	5.10	3.10	8.96	4.90	3.77	5.50	4.90	6.62	15.70	3.77	2.14	3.42	
29	5.10	6.00	7.50	4.50	3.59	5.80	3.26	6.62	8.27	3.68		3.86	
30	5.10	6.30	6.10	6.20	4.04	5.50	3.02	6.73	8.38	3.77		4.22	
31		6.51		11.00	4.22		4.90		7.94	3.77		4.13	
Total	84.52	117.10	159.66	138.81	157.49	126.52	665.09	1230.44	208.80	148.69	73.36	117.54	3228.02 CMSDAY
Mean	2.82	3.78	5.32	4.48	5.08	4.22	21.45	41.01	6.74	4.80	2.62	3.79	8.84 CMS
Max	5.10	6.51	9.20	11.00	15.28	6.10	94.10	403.10	15.70	13.34	4.90	5.80	403.10 CMS
Min	2.38	2.78	3.10	2.62	3.02	3.02	3.02	6.51	4.90	2.70	1.90	2.54	1.90 CMS
Runoff	7.303	10.117	13.795	11.993	13.607	10.931	57.464	106.310	18.040	12.847	6.338	10.155	278.901 MCM

Momentary Peak 478.00 CMS, at 8.60 M (A.D), at 18.00 Hours, on Nov 2, 1992
Runoff Yield 2.15 Liters/Second/Square KM, Momentary Peak Yield 116.27 Liters/Second/Square KM

WATER YEAR 1992

WEST COAST-GULF BASIN

Khlong Kui at Ban Pong Kasang, Prachuap Khiri Khan (Ky.2)

Location — Lat. 12°-06'-55" N., Long. 99°-44'-20" E., on right bank at the culvert of the left irrigation canal of Yang Chum Project, Ban Pong Kasang, Tambon Hat Kham, Amphoe Kui Buri, Prachuap Khiri Khan.

Drainage Area — 92 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On right bank at the measuring line.

Elevation — +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 — Fairly stable.

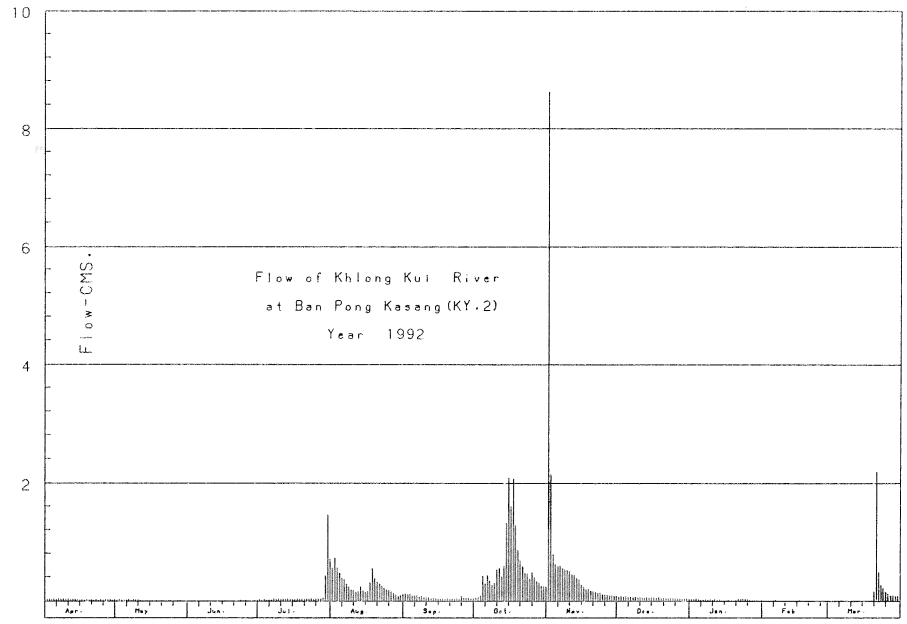
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 159 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.73	0.72	0.70	0.72	1.02	0.81	0.76	2.09	0.78	0.73	0.71	0.70	
2	0.73	0.72	0.70	0.72	1.08	0.81	0.76	1.39	0.78	0.73	0.71	0.70	
3	0.73	0.72	0.70	0.72	1.02	0.81	0.80	1.10	0.78	0.73	0.71	0.70	
4	0.73	0.72	0.70	0.72	0.99	0.80	0.96	1.04	0.78	0.73	0.71	0.70	
5	0.73	0.72	0.70	0.72	0.95	0.80	0.90	1.03	0.77	0.72	0.71	0.70	
6	0.73	0.72	0.70	0.72	0.93	0.79	0.97	1.03	0.77	0.72	0.71	0.70	
7	0.73	0.72	0.70	0.73	0.90	0.78	0.92	1.02	0.77	0.72	0.71	0.70	
8	0.73	0.72	0.70	0.73	0.87	0.78	0.89	1.01	0.77	0.72	0.70	0.70	
9	0.73	0.72	0.70	0.73	0.85	0.77	0.90	1.01	0.77	0.72	0.70	0.70	
10	0.73	0.72	0.70	0.73	0.84	0.76	1.01	1.00	0.76	0.72	0.70	0.70	
11	0.73	0.71	0.70	0.73	0.83	0.75	1.02	0.98	0.76	0.72	0.70	0.70	
12	0.73	0.71	0.70	0.73	0.83	0.74	0.96	0.97	0.75	0.72	0.70	0.70	
13	0.73	0.71	0.70	0.73	0.87	0.74	1.03	0.95	0.75	0.72	0.70	0.70	
14	0.72	0.71	0.70	0.73	0.84	0.74	1.24	0.93	0.75	0.71	0.70	0.70	
15	0.72	0.71	0.70	0.73	0.83	0.73	1.38	0.89	0.75	0.71	0.70	0.70	
16	0.72	0.71	0.70	0.73	0.83	0.73	1.30	0.87	0.75	0.71	0.70	0.70	
17	0.72	0.71	0.70	0.73	0.91	0.73	1.38	0.85	0.75	0.71	0.70	0.70	
18	0.72	0.71	0.70	0.73	1.02	0.73	1.23	0.85	0.75	0.71	0.70	0.70	
19	0.72	0.71	0.71	0.73	0.94	0.73	1.12	0.84	0.74	0.72	0.70	0.70	
20	0.72	0.71	0.71	0.73	0.91	0.73	1.06	0.83	0.74	0.72	0.70	0.83	
21	0.72	0.71	0.71	0.73	0.90	0.73	1.03	0.83	0.74	0.73	0.70	1.40	
22	0.72	0.71	0.71	0.73	0.88	0.73	0.99	0.82	0.74	0.73	0.70	1.00	
23	0.72	0.71	0.71	0.73	0.86	0.73	0.98	0.82	0.74	0.73	0.70	0.89	
24	0.72	0.71	0.71	0.73	0.85	0.73	0.94	0.81	0.74	0.73	0.70	0.86	
25	0.72	0.71	0.71	0.73	0.84	0.78	0.99	0.80	0.73	0.72	0.70	0.83	
26	0.72	0.71	0.71	0.73	0.83	0.76	0.95	0.80	0.73	0.72	0.70	0.81	
27	0.72	0.71	0.71	0.73	0.82	0.75	0.92	0.80	0.73	0.71	0.70	0.80	
28	0.72	0.71	0.71	0.75	0.80	0.74	0.90	0.79	0.73	0.71	0.70	0.79	
29	0.72	0.70	0.71	0.97	0.79	0.73	0.88	0.79	0.73	0.71		0.79	
30	0.72	0.70	0.72	1.27	0.79	0.73	0.87	0.78	0.73	0.71		0.78	
31		0.70		1.07	0.81		0.87		0.73	0.71		0.77	
Mean	0.72	0.71	0.70	0.76	0.88	0.76	1.00	0.96	0.75	0.72	0.70	0.77	
Max	0.73	0.72	0.72	1.27	1.08	0.81	1.38	2.09	0.78	0.73	0.71	1.40	2.09
Min	0.72	0.70	0.70	0.72	0.79	0.73	0.76	0.78	0.73	0.71	0.70	0.70	0.70

Annual Max Momentary Gage Height 2.40 M (A.D), at 12.00 Hours, on Nov 1, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.67 M (A.D)
Left Bank Elevation 5.07 M (A.D)
Right Bank Elevation 8.00 M (A.D), Drainage Area 92 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.03	0.01	0.03	0.56	0.12	0.06	8.63	0.08	0.04	0.02	0.01	
2	0.04	0.03	0.01	0.03	0.74	0.12	0.06	2.14	0.08	0.04	0.02	0.01	
3	0.04	0.03	0.01	0.03	0.56	0.12	0.10	0.80	0.08	0.04	0.02	0.01	
4	0.04	0.03	0.01	0.03	0.48	0.10	0.42	0.62	0.08	0.04	0.02	0.01	
5	0.04	0.03	0.01	0.03	0.40	0.10	0.30	0.59	0.07	0.03	0.02	0.01	
6	0.04	0.03	0.01	0.03	0.36	0.09	0.44	0.59	0.07	0.03	0.02	0.01	
7	0.04	0.03	0.01	0.04	0.30	0.08	0.34	0.56	0.07	0.03	0.02	0.01	
8	0.04	0.03	0.01	0.04	0.24	0.08	0.28	0.53	0.07	0.03	0.01	0.01	
9	0.04	0.03	0.01	0.04	0.20	0.07	0.30	0.53	0.07	0.03	0.01	0.01	
10	0.04	0.03	0.01	0.04	0.18	0.06	0.53	0.50	0.06	0.03	0.01	0.01	
11	0.04	0.02	0.01	0.04	0.16	0.06	0.56	0.46	0.06	0.03	0.01	0.01	
12	0.04	0.02	0.01	0.04	0.16	0.05	0.42	0.44	0.06	0.03	0.01	0.01	
13	0.04	0.02	0.01	0.04	0.24	0.05	0.59	0.40	0.06	0.03	0.01	0.01	
14	0.03	0.02	0.01	0.04	0.18	0.05	1.33	0.36	0.06	0.02	0.01	0.01	
15	0.03	0.02	0.01	0.04	0.16	0.04	2.08	0.28	0.06	0.02	0.01	0.01	
16	0.03	0.02	0.01	0.04	0.16	0.04	1.60	0.24	0.06	0.02	0.01	0.01	
17	0.03	0.02	0.01	0.04	0.32	0.04	2.08	0.20	0.06	0.02	0.01	0.01	
18	0.03	0.02	0.01	0.04	0.56	0.04	1.28	0.20	0.06	0.02	0.01	0.01	
19	0.03	0.02	0.02	0.04	0.38	0.04	0.87	0.18	0.05	0.03	0.01	0.01	
20	0.03	0.02	0.02	0.04	0.32	0.04	0.68	0.16	0.05	0.03	0.01	0.16	
21	0.03	0.02	0.02	0.04	0.30	0.04	0.59	0.16	0.05	0.04	0.01	2.20	
22	0.03	0.02	0.02	0.04	0.26	0.04	0.48	0.14	0.05	0.04	0.01	0.50	
23	0.03	0.02	0.02	0.04	0.22	0.04	0.46	0.14	0.05	0.04	0.01	0.28	
24	0.03	0.02	0.02	0.04	0.20	0.04	0.38	0.12	0.05	0.04	0.01	0.22	
25	0.03	0.02	0.02	0.04	0.18	0.08	0.48	0.10	0.04	0.03	0.01	0.16	
26	0.03	0.02	0.02	0.04	0.16	0.06	0.40	0.10	0.04	0.03	0.01	0.12	
27	0.03	0.02	0.02	0.04	0.14	0.06	0.34	0.10	0.04	0.02	0.01	0.10	
28	0.03	0.02	0.02	0.06	0.10	0.05	0.30	0.09	0.04	0.02	0.01	0.09	
29	0.03	0.01	0.02	0.44	0.09	0.04	0.26	0.09	0.04	0.02		0.09	
30	0.03	0.01	0.03	1.47	0.09	0.04	0.24	0.08	0.04	0.02		0.08	
31		0.01		0.71	0.12		0.24		0.04	0.02		0.07	
Total	1.03	0.69	0.43	3.70	8.52	1.88	18.49	19.53	1.79	0.91	0.35	4.26	61.58 CMSDAY
Mean	0.03	0.02	0.01	0.12	0.27	0.06	0.60	0.65	0.06	0.03	0.01	0.14	0.17 CMS
Max	0.04	0.03	0.03	1.47	0.74	0.12	2.08	8.63	0.08	0.04	0.02	2.20	8.63 CMS
Min	0.03	0.01	0.01	0.03	0.09	0.04	0.06	0.08	0.04	0.02	0.01	0.01	0.01 CMS
Runoff	0.089	0.060	0.037	0.320	0.736	0.162	1.598	1.687	0.155	0.079	0.030	0.368	5.321 MCM

Momentary Peak 12.95 CMS, at 2.40 M (A.D), at 12.00 Hours, on Nov 1, 1992
Runoff Yield 1.83 Liters/Second/Square KM, Momentary Peak Yield 140.76 Liters/Second/Square KM

WATER YEAR 1992

WEST COAST-GULF BASIN

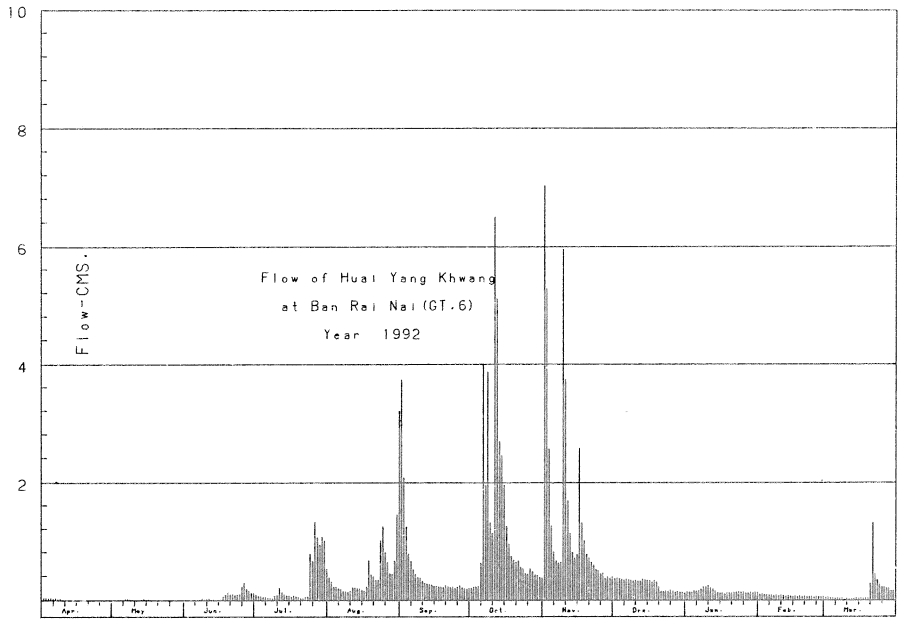
Huai Yang Khwang at Ban Rai Nai, Prachuap Khiri Khan (Gt.6)

Location	Lat. 11-10-31 N., Long. 99-21-27 E., on left bank at Ban Rai Nai, Amphoe Bang Saphan Noi, Prachuap Khiri Khan.
Drainage Area	37 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank near the Meteorological Station.
Elevation	+15.345 m.(A.D.)
Gage Reading Frequency	16-time daily readings at 03.00, 06.00 - 18.00, 21.00 and 24.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 16 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 64 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.41	0.16	0.27	0.47	0.67	1.08	0.57	1.28	0.66	0.52	0.49	0.42	
2	0.40	0.22	0.25	0.45	0.63	0.95	0.58	1.18	0.66	0.52	0.49	0.42	
3	0.40	0.35	0.24	0.44	0.59	0.87	0.59	0.99	0.66	0.51	0.48	0.41	
4	0.40	0.32	0.23	0.43	0.58	0.79	0.59	0.87	0.65	0.54	0.47	0.40	
5	0.39	0.32	0.24	0.42	0.57	0.76	0.75	0.80	0.65	0.53	0.47	0.40	
6	0.39	0.38	0.31	0.41	0.55	0.72	1.10	0.76	0.65	0.53	0.47	0.39	
7	0.38	0.38	0.32	0.39	0.53	0.69	0.94	0.75	0.65	0.56	0.46	0.39	
8	0.38	0.37	0.40	0.40	0.52	0.67	1.09	0.75	0.64	0.58	0.46	0.39	
9	0.36	0.35	0.40	0.44	0.52	0.66	0.88	1.22	0.64	0.59	0.46	0.38	
10	0.32	0.32	0.38	0.47	0.53	0.64	0.85	1.08	0.64	0.60	0.46	0.38	
11	0.28	0.28	0.37	0.57	0.58	0.62	1.25	0.92	0.64	0.57	0.45	0.38	
12	0.25	0.30	0.36	0.52	0.57	0.62	1.17	0.85	0.64	0.56	0.45	0.39	
13	0.24	0.37	0.34	0.48	0.57	0.61	1.00	0.80	0.65	0.53	0.45	0.39	
14	0.24	0.36	0.33	0.46	0.56	0.61	0.98	0.77	0.65	0.52	0.45	0.40	
15	0.22	0.36	0.33	0.45	0.55	0.60	0.94	0.79	0.64	0.51	0.44	0.40	
16	0.22	0.36	0.37	0.43	0.53	0.59	0.87	0.99	0.64	0.50	0.44	0.40	
17	0.21	0.36	0.43	0.45	0.59	0.59	0.82	0.88	0.63	0.49	0.44	0.40	
18	0.20	0.37	0.48	0.44	0.76	0.58	0.78	0.83	0.64	0.50	0.44	0.39	
19	0.20	0.33	0.51	0.42	0.69	0.58	0.76	0.79	0.63	0.51	0.44	0.40	
20	0.20	0.31	0.48	0.40	0.67	0.60	0.75	0.77	0.58	0.50	0.44	0.62	
21	0.20	0.29	0.48	0.39	0.64	0.59	0.76	0.75	0.53	0.51	0.44	0.88	
22	0.19	0.28	0.47	0.42	0.65	0.58	0.73	0.74	0.53	0.52	0.44	0.69	
23	0.19	0.27	0.47	0.44	0.83	0.58	0.72	0.72	0.53	0.52	0.43	0.65	
24	0.19	0.26	0.49	0.79	0.87	0.57	0.70	0.71	0.53	0.52	0.43	0.62	
25	0.18	0.25	0.59	0.76	0.80	0.58	0.69	0.70	0.54	0.52	0.43	0.59	
26	0.18	0.25	0.62	0.88	0.75	0.60	0.72	0.70	0.53	0.51	0.43	0.58	
27	0.18	0.24	0.56	0.84	0.70	0.58	0.71	0.66	0.52	0.51	0.43	0.57	
28	0.17	0.27	0.53	0.82	0.69	0.56	0.69	0.67	0.52	0.51	0.43	0.56	
29	0.17	0.32	0.51	0.84	0.76	0.56	0.68	0.66	0.52	0.51		0.54	
30	0.17	0.29	0.50	0.83	0.90	0.56	0.67	0.67	0.51	0.51		0.53	
31		0.28		0.72	1.04		0.66		0.51	0.51		0.52	
Mean	0.26	0.31	0.41	0.54	0.66	0.65	0.81	0.84	0.60	0.53	0.45	0.48	
Max	0.41	0.38	0.62	0.88	1.04	1.08	1.25	1.28	0.66	0.60	0.49	0.88	1.28
Min	0.17	0.16	0.23	0.39	0.52	0.56	0.57	0.66	0.51	0.49	0.43	0.38	0.16

Annual Max Momentary Gage Height 2.00 M (A.D), at 17.00 Hours, on Oct 11, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.37 M (A.D)
Left Bank Elevation 15.25 M (A.D)
Right Bank Elevation 6.21 M (A.D), Drainage Area 37 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.048	0.000	0.000	0.096	0.397	3.740	0.211	7.040	0.376	0.146	0.112	0.056	
2	0.040	0.000	0.000	0.080	0.313	2.075	0.224	5.280	0.376	0.146	0.112	0.056	
3	0.040	0.020	0.000	0.072	0.237	1.261	0.237	2.575	0.376	0.133	0.104	0.048	
4	0.040	0.008	0.000	0.064	0.224	0.784	0.237	1.261	0.355	0.172	0.096	0.040	
5	0.036	0.008	0.000	0.056	0.211	0.676	0.640	0.820	0.355	0.159	0.096	0.040	
6	0.036	0.032	0.004	0.048	0.185	0.532	4.000	0.676	0.355	0.159	0.096	0.036	
7	0.032	0.032	0.008	0.036	0.159	0.439	1.950	0.640	0.355	0.198	0.088	0.036	
8	0.032	0.028	0.040	0.040	0.146	0.397	3.870	0.640	0.334	0.224	0.088	0.036	
9	0.024	0.020	0.040	0.072	0.146	0.376	1.324	5.960	0.334	0.237	0.088	0.032	
10	0.008	0.008	0.032	0.096	0.159	0.334	1.135	3.740	0.334	0.250	0.088	0.032	
11	0.000	0.000	0.028	0.211	0.224	0.292	6.500	1.700	0.334	0.211	0.080	0.032	
12	0.000	0.000	0.024	0.146	0.211	0.292	5.120	1.135	0.334	0.198	0.080	0.036	
13	0.000	0.028	0.016	0.104	0.211	0.271	2.700	0.820	0.355	0.159	0.080	0.036	
14	0.000	0.024	0.012	0.088	0.198	0.271	2.450	0.712	0.355	0.146	0.080	0.040	
15	0.000	0.024	0.012	0.080	0.185	0.250	1.950	0.784	0.334	0.133	0.072	0.040	
16	0.000	0.024	0.028	0.064	0.159	0.237	1.261	2.575	0.334	0.120	0.072	0.040	
17	0.000	0.024	0.064	0.080	0.237	0.237	0.946	1.324	0.313	0.112	0.072	0.040	
18	0.000	0.028	0.104	0.072	0.676	0.224	0.748	1.009	0.334	0.120	0.072	0.036	
19	0.000	0.012	0.133	0.056	0.439	0.224	0.676	0.784	0.313	0.133	0.072	0.040	
20	0.000	0.004	0.104	0.040	0.397	0.250	0.640	0.712	0.224	0.120	0.072	0.292	
21	0.000	0.000	0.104	0.036	0.334	0.237	0.676	0.640	0.159	0.133	0.072	1.324	
22	0.000	0.000	0.096	0.056	0.355	0.224	0.568	0.604	0.159	0.146	0.072	0.439	
23	0.000	0.000	0.096	0.072	1.009	0.224	0.532	0.532	0.159	0.146	0.064	0.355	
24	0.000	0.000	0.112	0.784	1.261	0.211	0.460	0.496	0.159	0.146	0.064	0.292	
25	0.000	0.000	0.237	0.676	0.820	0.224	0.439	0.460	0.172	0.146	0.064	0.237	
26	0.000	0.000	0.292	1.324	0.640	0.250	0.532	0.460	0.159	0.133	0.064	0.224	
27	0.000	0.000	0.198	1.072	0.460	0.224	0.496	0.376	0.146	0.133	0.064	0.211	
28	0.000	0.000	0.159	0.946	0.439	0.198	0.439	0.397	0.146	0.133	0.064	0.198	
29	0.000	0.008	0.133	1.072	0.676	0.198	0.418	0.376	0.146	0.133		0.172	
30	0.000	0.000	0.120	1.009	1.450	0.198	0.397	0.397	0.133	0.133		0.159	
31		0.000		0.532	3.220		0.376		0.133	0.133		0.146	
Total	0.336	0.332	2.196	9.180	15.778	15.350	42.152	44.925	8.451	4.791	2.248	4.801	150.540 CMSDAY
Mean	0.011	0.011	0.073	0.296	0.509	0.512	1.360	1.498	0.273	0.155	0.080	0.155	0.412 CMS
Max	0.048	0.032	0.292	1.324	3.220	3.740	6.500	7.040	0.376	0.250	0.112	1.324	7.040 CMS
Min	0.000	0.000	0.000	0.036	0.146	0.198	0.211	0.376	0.133	0.112	0.064	0.032	0.000 CMS
Runoff	0.029	0.029	0.190	0.793	1.363	1.326	3.642	3.882	0.730	0.414	0.194	0.415	13.007 MCM

Momentary Peak 35.00 CMS, at 2.00 M (A.D), at 17.00 Hours, on Oct 11, 1992
Runoff Yield 11.15 Liters/Second/Square KM, Momentary Peak Yield 945.95 Liters/Second/Square KM

WATER YEAR 1992

WEST COAST-GULF BASIN

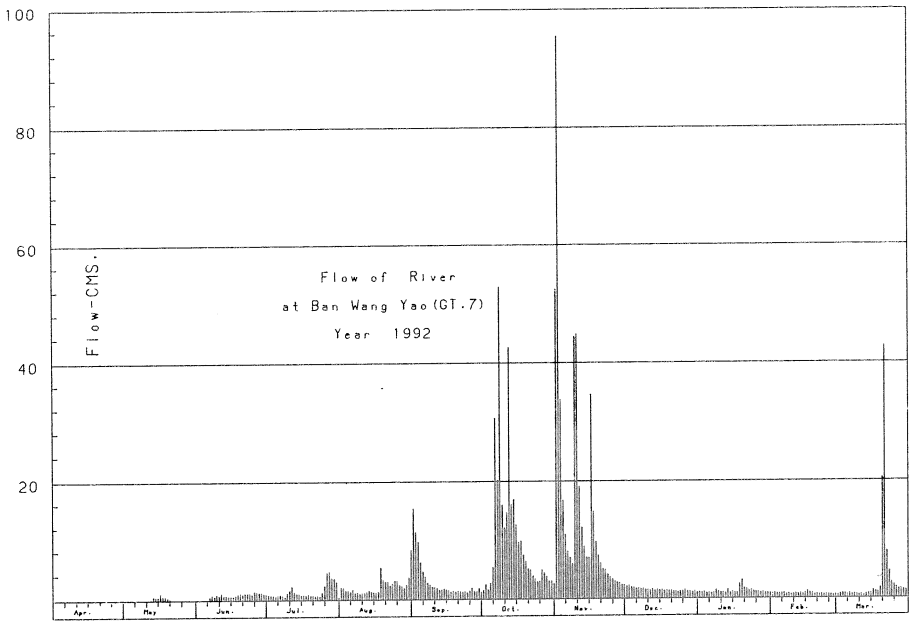
Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)

Location	Lat. 11-14-02 N., Long. 99-26-35 E., on left bank near the bridge of Phet Kasem Highway at Ban Wang Yao, Tambon Ron Thong, Amphoe Bang Saphan, Prachuap Khiri Khan.
Drainage Area	346 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-Highways Dept.
Location	On left bank at the abutment of the bridge.
Elevation	+8.084 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	0.93	1.22	1.38	1.51	2.32	1.45	3.61	1.52	1.41	1.39	1.36	
2	1.31	0.93	1.21	1.38	1.50	2.12	1.55	4.45	1.52	1.41	1.39	1.37	
3	1.30	0.94	1.24	1.37	1.46	2.04	1.47	3.06	1.50	1.41	1.39	1.39	
4	1.26	0.96	1.24	1.37	1.45	1.83	1.56	2.39	1.49	1.40	1.38	1.38	
5	1.28	0.94	1.30	1.37	1.44	1.72	1.77	2.10	1.48	1.40	1.39	1.37	
6	1.20	0.96	1.36	1.39	1.47	1.65	2.95	1.94	1.48	1.40	1.39	1.38	
7	1.20	0.98	1.38	1.37	1.42	1.58	2.53	1.88	1.47	1.40	1.38	1.37	
8	1.20	0.97	1.37	1.36	1.42	1.54	3.62	1.80	1.47	1.45	1.38	1.37	
9	1.20	0.94	1.39	1.41	1.41	1.52	2.35	3.40	1.46	1.42	1.37	1.37	
10	1.14	0.94	1.38	1.47	1.41	1.50	2.16	3.41	1.45	1.41	1.38	1.36	
11	1.10	0.93	1.41	1.53	1.42	1.49	2.28	2.48	1.45	1.40	1.38	1.36	
12	1.08	1.10	1.38	1.43	1.43	1.47	3.35	2.16	1.46	1.40	1.38	1.35	
13	1.05	1.37	1.37	1.41	1.45	1.46	2.35	1.99	1.45	1.45	1.38	1.37	
14	1.08	1.35	1.37	1.40	1.44	1.49	2.40	1.88	1.45	1.40	1.38	1.39	
15	1.08	1.36	1.36	1.39	1.42	1.47	2.18	1.87	1.45	1.41	1.39	1.38	
16	1.01	1.41	1.37	1.38	1.41	1.45	2.03	3.09	1.45	1.40	1.42	1.43	
17	0.99	1.37	1.37	1.38	1.44	1.43	2.04	2.29	1.44	1.40	1.40	1.42	
18	1.02	1.36	1.40	1.39	1.77	1.44	1.91	2.04	1.44	1.54	1.39	1.40	
19	1.08	1.35	1.41	1.38	1.61	1.43	1.83	1.90	1.44	1.61	1.37	1.47	
20	1.12	1.33	1.40	1.37	1.60	1.44	1.75	1.81	1.44	1.48	1.37	2.54	
21	1.12	1.31	1.41	1.37	1.59	1.43	1.73	1.75	1.43	1.46	1.37	3.35	
22	1.10	1.30	1.42	1.37	1.54	1.43	1.66	1.73	1.42	1.44	1.37	1.94	
23	1.08	1.30	1.41	1.37	1.56	1.43	1.62	1.68	1.42	1.44	1.37	1.71	
24	1.06	1.31	1.40	1.42	1.61	1.42	1.59	1.64	1.42	1.43	1.37	1.59	
25	1.04	1.30	1.45	1.54	1.60	1.45	1.59	1.62	1.44	1.42	1.37	1.53	
26	1.00	1.30	1.43	1.71	1.55	1.49	1.73	1.59	1.45	1.41	1.36	1.48	
27	0.98	1.30	1.43	1.72	1.52	1.44	1.70	1.58	1.43	1.41	1.36	1.46	
28	0.96	1.32	1.42	1.64	1.50	1.43	1.65	1.56	1.42	1.41	1.36	1.46	
29	0.94	1.33	1.41	1.64	1.54	1.49	1.60	1.54	1.42	1.40		1.45	
30	0.95	1.29	1.39	1.59	1.65	1.42	1.59	1.53	1.42	1.39		1.43	
31		1.25		1.34	1.96		1.56		1.41	1.39		1.42	
Mean	1.11	1.18	1.37	1.44	1.52	1.56	1.99	2.19	1.45	1.43	1.38	1.54	
Max	1.31	1.41	1.45	1.72	1.96	2.32	3.62	4.45	1.52	1.61	1.42	3.35	4.45
Min	0.94	0.93	1.21	1.34	1.41	1.42	1.45	1.53	1.41	1.39	1.36	1.35	0.93

Annual Max Momentary Gage Height 6.04 M (A.D), at 22.00 Hours, on Mar 20, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.17 M (A.D)
Left Bank Elevation 8.80 M (A.D)
Right Bank Elevation 8.84 M (A.D), Drainage Area 346 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.80	2.11	15.40	1.50	52.45	2.22	1.10	0.90	0.60	
2	0.10	0.00	0.00	0.80	2.00	11.40	2.55	95.50	2.22	1.10	0.90	0.70	
3	0.00	0.00	0.00	0.70	1.60	9.80	1.70	33.80	2.00	1.10	0.90	0.90	
4	0.00	0.00	0.00	0.70	1.50	6.35	2.66	16.80	1.90	1.00	0.80	0.80	
5	0.00	0.00	0.00	0.70	1.40	4.78	5.48	11.00	1.80	1.00	0.90	0.70	
6	0.00	0.00	0.60	0.90	1.70	3.80	30.75	8.04	1.80	1.00	0.90	0.80	
7	0.00	0.00	0.80	0.70	1.20	2.88	20.25	7.10	1.70	1.00	0.80	0.70	
8	0.00	0.00	0.70	0.60	1.20	2.44	52.90	5.90	1.70	1.50	0.80	0.70	
9	0.00	0.00	0.90	1.10	1.10	2.22	16.00	44.50	1.60	1.20	0.70	0.70	
10	0.00	0.00	0.80	1.70	1.10	2.00	12.20	44.85	1.50	1.10	0.80	0.60	
11	0.00	0.00	1.10	2.33	1.20	1.90	14.60	19.00	1.50	1.00	0.80	0.60	
12	0.00	0.00	0.80	1.30	1.30	1.70	42.75	12.20	1.60	1.00	0.80	0.50	
13	0.00	0.70	0.70	1.10	1.50	1.60	16.00	8.84	1.50	1.50	0.80	0.70	
14	0.00	0.50	0.70	1.00	1.40	1.90	17.00	7.10	1.50	1.00	0.80	0.90	
15	0.00	0.60	0.60	0.90	1.20	1.70	12.60	6.95	1.50	1.10	0.90	0.80	
16	0.00	1.10	0.70	0.80	1.10	1.50	9.60	34.70	1.50	1.00	1.20	1.30	
17	0.00	0.70	0.70	0.80	1.40	1.30	9.80	14.80	1.40	1.00	1.00	1.20	
18	0.00	0.60	1.00	0.90	5.48	1.40	7.56	9.80	1.40	2.44	0.90	1.00	
19	0.00	0.50	1.10	0.80	3.24	1.30	6.35	7.40	1.40	3.24	0.70	1.70	
20	0.00	0.30	1.00	0.70	3.10	1.40	5.20	6.05	1.40	1.80	0.70	20.50	
21	0.00	0.10	1.10	0.70	2.99	1.30	4.92	5.20	1.30	1.60	0.70	42.75	
22	0.00	0.00	1.20	0.70	2.44	1.30	3.94	4.92	1.20	1.40	0.70	8.04	
23	0.00	0.00	1.10	0.70	2.66	1.30	3.38	4.22	1.20	1.40	0.70	4.64	
24	0.00	0.10	1.00	1.20	3.24	1.20	2.99	3.66	1.20	1.30	0.70	2.99	
25	0.00	0.00	1.50	2.44	3.10	1.50	2.99	3.38	1.40	1.20	0.70	2.33	
26	0.00	0.00	1.30	4.64	2.55	1.90	4.92	2.99	1.50	1.10	0.60	1.80	
27	0.00	0.00	1.30	4.78	2.22	1.40	4.50	2.88	1.30	1.10	0.60	1.60	
28	0.00	0.20	1.20	3.66	2.00	1.30	3.80	2.66	1.20	1.10	0.60	1.60	
29	0.00	0.30	1.10	3.66	2.44	1.90	3.10	2.44	1.20	1.00		1.50	
30	0.00	0.00	0.90	2.99	3.80	1.20	2.99	2.33	1.20	0.90		1.30	
31		0.00		0.40	8.36		2.66		1.10	0.90		1.20	
Total	0.10	5.70	23.90	45.20	71.63	91.07	327.64	481.46	46.94	39.18	22.30	106.15	1261.27 CMSDAY
Mean	0.00	0.18	0.80	1.46	2.31	3.04	10.57	16.05	1.51	1.26	0.80	3.42	3.46 CMS
Max	0.10	1.10	1.50	4.78	8.36	15.40	52.90	95.50	2.22	3.24	1.20	42.75	95.50 CMS
Min	0.00	0.00	0.00	0.40	1.10	1.20	1.50	2.33	1.10	0.90	0.60	0.50	0.00 CMS
Runoff	0.009	0.492	2.065	3.905	6.189	7.868	28.308	41.598	4.056	3.385	1.927	9.171	108.974 MCM

Momentary Peak 228.00 CMS, at 6.04 M (A.D), at 22.00 Hours, on Mar 20, 1992

Runoff Yield 9.99 Liters/Second/Square KM, Momentary Peak Yield 658.96 Liters/Second/Square KM

WATER YEAR 1992

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 — +3.802 m.(A.D.)

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

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

Period of Available Gage Records — 1979 to date.

Rating Operation

Period of Rating — 1980 to date.

Rated by Float —

Rated by Current Meter — 1980 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 42 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

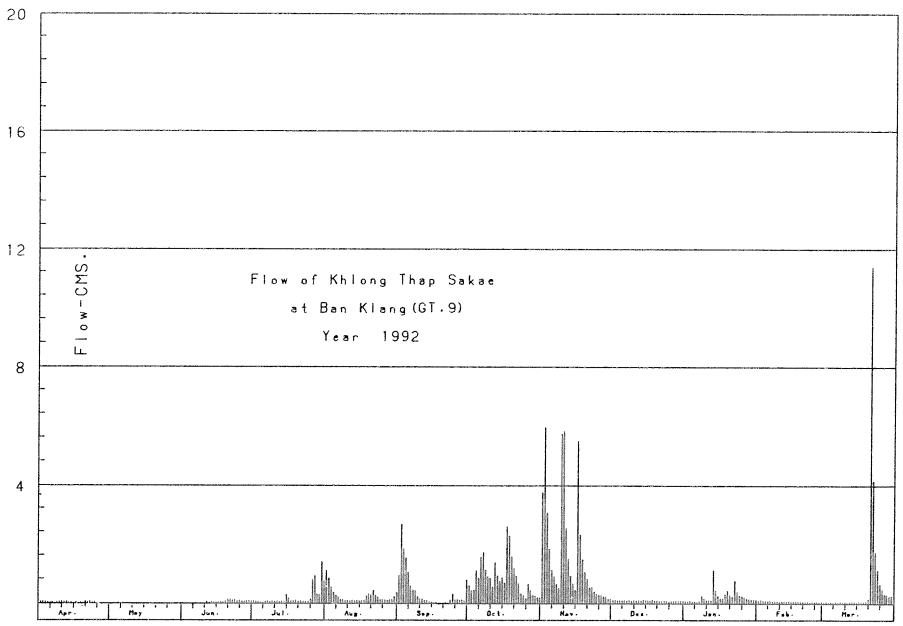
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	-0.02	-0.09	0.04	0.39	0.35	0.27	0.91	0.08	0.03	0.07	0.01	
2	0.02	-0.02	-0.12	0.03	0.33	0.72	0.22	1.26	0.07	0.03	0.07	0.02	
3	0.03	-0.03	-0.11	0.02	0.25	0.55	0.23	0.79	0.07	0.04	0.06	0.01	
4	0.00	-0.03	-0.11	0.01	0.21	0.49	0.39	0.55	0.06	0.03	0.05	0.01	
5	0.00	-0.03	-0.11	-0.01	0.17	0.38	0.33	0.40	0.06	0.03	0.05	0.01	
6	0.00	-0.04	-0.13	0.03	0.13	0.26	0.49	0.34	0.06	0.02	0.05	0.01	
7	0.00	-0.03	-0.13	0.03	0.10	0.23	0.53	0.28	0.06	0.02	0.04	0.01	
8	0.01	-0.03	-0.06	0.02	0.08	0.22	0.40	0.24	0.07	0.16	0.04	0.01	
9	0.03	-0.05	-0.05	0.03	0.06	0.15	0.34	1.23	0.06	0.11	0.04	0.01	
10	0.03	-0.06	-0.05	0.03	0.05	0.10	0.33	1.24	0.06	0.08	0.03	0.01	
11	0.03	-0.06	0.02	0.03	0.05	0.10	0.25	0.69	0.06	0.06	0.04	0.00	
12	0.02	-0.04	0.01	0.03	0.06	0.08	0.45	0.48	0.07	0.06	0.03	0.00	
13	0.01	-0.04	0.01	0.03	0.06	0.06	0.35	0.35	0.06	0.40	0.03	0.02	
14	0.00	-0.05	0.01	0.03	0.05	0.03	0.30	0.28	0.08	0.22	0.03	0.01	
15	0.00	-0.03	0.01	0.18	0.05	0.01	0.33	0.23	0.07	0.15	0.03	0.01	
16	0.01	-0.03	0.01	0.11	0.04	0.00	0.29	1.19	0.06	0.12	0.03	0.01	
17	0.00	-0.03	0.01	0.03	0.06	-0.01	0.70	0.65	0.06	0.11	0.03	0.01	
18	0.00	-0.03	0.01	0.05	0.16	-0.01	0.64	0.48	0.08	0.19	0.02	0.01	
19	0.00	-0.04	0.03	0.06	0.19	-0.02	0.50	0.38	0.07	0.22	0.02	0.01	
20	0.03	-0.04	0.10	0.03	0.17	-0.01	0.41	0.32	0.05	0.16	0.02	0.11	
21	0.02	-0.05	0.10	0.04	0.23	-0.01	0.35	0.25	0.04	0.15	0.02	1.94	
22	0.02	-0.06	0.08	0.03	0.17	-0.01	0.28	0.25	0.03	0.31	0.01	0.98	
23	0.01	-0.06	0.06	0.01	0.13	0.07	0.20	0.22	0.06	0.21	0.01	0.53	
24	0.01	-0.05	0.05	0.03	0.10	0.19	0.16	0.19	0.04	0.17	0.01	0.40	
25	-0.02	-0.05	0.05	0.11	0.07	0.08	0.12	0.18	0.03	0.16	0.01	0.28	
26	-0.02	-0.07	0.04	0.31	0.07	0.08	0.28	0.16	0.02	0.13	0.01	0.23	
27	-0.02	-0.07	0.04	0.35	0.07	0.08	0.22	0.15	0.04	0.12	0.01	0.19	
28	-0.03	-0.08	0.05	0.19	0.07	0.07	0.17	0.14	0.04	0.10	0.01	0.17	
29	-0.04	-0.07	0.05	0.17	0.10	0.06	0.15	0.11	0.03	0.10		0.15	
30	-0.02	-0.07	0.03	0.46	0.14	0.31	0.13	0.10	0.04	0.08		0.15	
31		-0.09		0.30	0.21		0.12		0.05	0.08		0.15	
Mean	0.01	-0.05	-0.01	0.09	0.13	0.15	0.32	0.47	0.06	0.12	0.03	0.18	
Max	0.03	-0.02	0.10	0.46	0.39	0.72	0.70	1.26	0.08	0.40	0.07	1.94	1.94
Min	-0.04	-0.09	-0.13	-0.01	0.04	-0.02	0.12	0.10	0.02	0.02	0.01	0.00	-0.13

Annual Max Momentary Gage Height — 2.44 M (A.D), at 6.00 Hours, on Mar 21, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.13 M (A.D)

Left Bank Elevation — 4.10 M (A.D)

Right Bank Elevation — 4.03 M (A.D), Drainage Area — 120 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.03	0.00	0.09	1.11	0.95	0.63	3.76	0.13	0.08	0.12	0.06	
2	0.07	0.03	0.00	0.08	0.87	2.71	0.43	5.97	0.12	0.08	0.12	0.07	
3	0.08	0.02	0.00	0.07	0.55	1.85	0.47	3.10	0.12	0.09	0.11	0.06	
4	0.05	0.02	0.00	0.06	0.39	1.56	1.11	1.85	0.11	0.08	0.10	0.06	
5	0.05	0.02	0.00	0.04	0.29	1.07	0.87	1.15	0.11	0.08	0.10	0.06	
6	0.05	0.01	0.00	0.08	0.21	0.59	1.56	0.91	0.11	0.07	0.10	0.06	
7	0.05	0.02	0.00	0.08	0.15	0.47	1.75	0.67	0.11	0.07	0.09	0.06	
8	0.06	0.02	0.00	0.07	0.13	0.43	1.15	0.51	0.12	0.27	0.09	0.06	
9	0.08	0.00	0.00	0.08	0.11	0.25	0.91	5.76	0.11	0.17	0.09	0.06	
10	0.08	0.00	0.00	0.08	0.10	0.15	0.87	5.83	0.11	0.13	0.08	0.06	
11	0.08	0.00	0.07	0.08	0.10	0.15	0.55	2.55	0.11	0.11	0.09	0.05	
12	0.07	0.01	0.06	0.08	0.11	0.13	1.38	1.51	0.12	0.11	0.08	0.05	
13	0.06	0.01	0.06	0.08	0.11	0.11	0.95	0.95	0.11	1.15	0.08	0.07	
14	0.05	0.00	0.06	0.08	0.10	0.08	0.75	0.67	0.13	0.43	0.08	0.06	
15	0.05	0.02	0.06	0.31	0.10	0.06	0.87	0.47	0.12	0.25	0.08	0.06	
16	0.06	0.02	0.06	0.17	0.09	0.05	0.71	5.49	0.11	0.19	0.08	0.06	
17	0.05	0.02	0.06	0.08	0.11	0.04	2.60	2.35	0.11	0.17	0.08	0.06	
18	0.05	0.02	0.06	0.10	0.27	0.04	2.30	1.51	0.13	0.33	0.07	0.06	
19	0.05	0.01	0.08	0.11	0.33	0.03	1.60	1.07	0.12	0.43	0.07	0.06	
20	0.08	0.01	0.15	0.08	0.29	0.04	1.19	0.83	0.10	0.27	0.07	0.17	
21	0.07	0.00	0.15	0.09	0.47	0.04	0.95	0.55	0.09	0.25	0.07	11.39	
22	0.07	0.00	0.13	0.08	0.29	0.04	0.67	0.55	0.08	0.79	0.06	4.18	
23	0.06	0.00	0.11	0.06	0.21	0.12	0.35	0.43	0.11	0.39	0.06	1.75	
24	0.06	0.00	0.10	0.08	0.15	0.33	0.27	0.33	0.09	0.29	0.06	1.15	
25	0.03	0.00	0.10	0.17	0.12	0.13	0.19	0.31	0.08	0.27	0.06	0.67	
26	0.03	0.00	0.09	0.79	0.12	0.13	0.67	0.27	0.07	0.21	0.06	0.47	
27	0.03	0.00	0.09	0.95	0.12	0.13	0.43	0.25	0.09	0.19	0.06	0.33	
28	0.02	0.00	0.10	0.33	0.12	0.12	0.29	0.23	0.09	0.15	0.06	0.29	
29	0.01	0.00	0.10	0.29	0.15	0.11	0.25	0.17	0.08	0.15		0.25	
30	0.03	0.00	0.08	1.42	0.23	0.79	0.21	0.15	0.09	0.13		0.25	
31		0.00		0.75	0.39		0.19		0.10	0.13		0.25	
Total	1.66	0.29	1.77	6.91	7.89	12.70	27.12	50.15	3.28	7.51	2.27	22.29	143.84 CMSDAY
Mean	0.06	0.01	0.06	0.22	0.25	0.42	0.87	1.67	0.11	0.24	0.08	0.72	0.39 CMS
Max	0.08	0.03	0.15	1.42	1.11	2.71	2.60	5.97	0.13	1.15	0.12	11.39	11.39 CMS
Min	0.01	0.00	0.00	0.04	0.09	0.03	0.19	0.15	0.07	0.07	0.06	0.05	0.00 CMS
Runoff	0.143	0.025	0.153	0.597	0.682	1.097	2.343	4.333	0.283	0.649	0.196	1.926	12.428 MCM

Momentary Peak 15.90 CMS, at 2.44 M (A.D), at 6.00 Hours, on Mar 21, 1992
Runoff Yield 3.28 Liters/Second/Square KM, Momentary Peak Yield 132.50 Liters/Second/Square KM

WATER YEAR 1992

WEST COAST-GULF BASIN

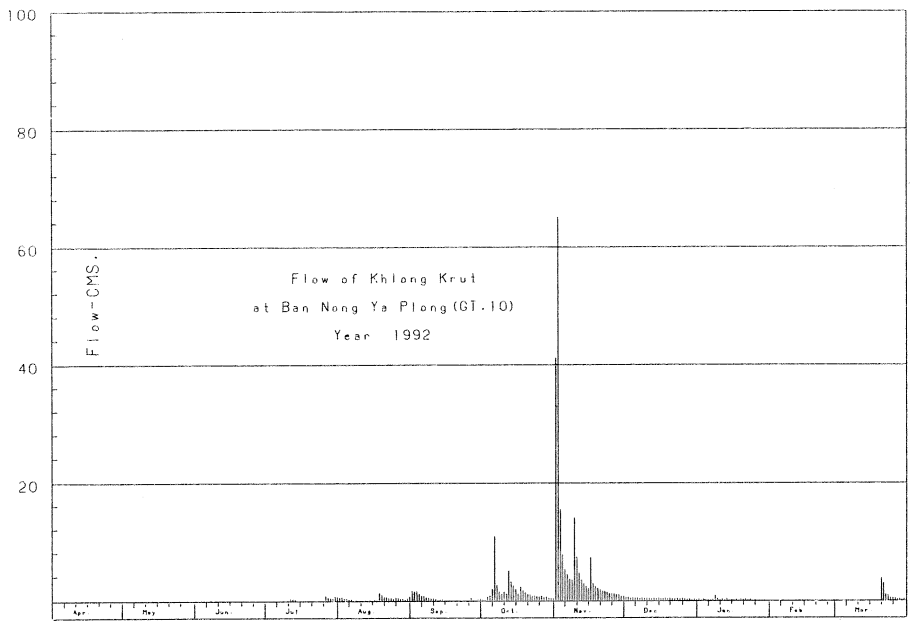
Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan (Gt.10)

Location	Lat. 11-24-08 N., Long. 99-31-20 E., on left bank at the bridge of Phet Kasem Highway near the guidepost 379, Ban Nong Ya Plong, Tambon Chai Kasem, Amphoe Bang Saphan, Prachuap Khiri Khan.
Drainage Area	112 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+5.507 m.(A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1980 to date.
Rated by Float	-
Rated by Current Meter	1980 to date.
Stability of Channel Regimes	Rather unstable by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 44 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.24	-0.25	-0.26	-0.31	-0.08	0.10	-0.19	2.00	-0.26	-0.40	-0.54	-0.55	
2	-0.24	-0.25	-0.26	-0.31	-0.09	0.10	-0.17	2.26	-0.28	-0.40	-0.54	-0.55	
3	-0.24	-0.26	-0.25	-0.31	-0.13	0.09	-0.05	0.85	-0.29	-0.41	-0.53	-0.55	
4	-0.24	-0.26	-0.24	-0.31	-0.15	0.05	-0.03	0.46	-0.29	-0.42	-0.53	-0.55	
5	-0.24	-0.26	-0.23	-0.31	-0.16	0.00	0.15	0.30	-0.29	-0.43	-0.51	-0.56	
6	-0.24	-0.26	-0.24	-0.31	-0.18	-0.04	0.84	0.22	-0.30	-0.43	-0.51	-0.57	
7	-0.24	-0.26	-0.21	-0.31	-0.20	-0.07	0.22	0.16	-0.30	-0.43	-0.52	-0.56	
8	-0.24	-0.26	-0.21	-0.31	-0.20	-0.11	0.10	0.14	-0.30	-0.20	-0.53	-0.56	
9	-0.23	-0.26	-0.16	-0.22	-0.21	-0.12	0.02	0.79	-0.31	-0.36	-0.53	-0.56	
10	-0.23	-0.26	-0.24	-0.18	-0.21	-0.14	0.09	0.43	-0.32	-0.39	-0.53	-0.56	
11	-0.24	-0.26	-0.25	-0.15	-0.21	-0.16	0.03	0.25	-0.32	-0.40	-0.53	-0.57	
12	-0.24	-0.22	-0.26	-0.15	-0.20	-0.18	0.45	0.14	-0.32	-0.41	-0.53	-0.57	
13	-0.24	-0.20	-0.27	-0.19	-0.20	-0.20	0.28	0.09	-0.32	-0.37	-0.53	-0.58	
14	-0.24	-0.21	-0.28	-0.24	-0.20	-0.16	0.22	0.03	-0.32	-0.40	-0.53	-0.58	
15	-0.25	-0.22	-0.27	-0.20	-0.20	-0.20	0.13	0.00	-0.32	-0.41	-0.53	-0.58	
16	-0.25	-0.15	-0.26	-0.25	-0.20	-0.22	0.04	0.43	-0.33	-0.42	-0.53	-0.58	
17	-0.25	-0.21	-0.25	-0.26	-0.18	-0.23	0.18	0.08	-0.33	-0.43	-0.53	-0.56	
18	-0.25	-0.23	-0.22	-0.26	0.07	-0.23	0.12	0.04	-0.33	-0.40	-0.54	-0.56	
19	-0.24	-0.23	-0.19	-0.20	0.00	-0.23	0.06	-0.01	-0.33	-0.40	-0.54	-0.47	
20	-0.25	-0.24	-0.20	-0.25	-0.02	-0.19	0.03	-0.04	-0.33	-0.40	-0.53	0.19	
21	-0.25	-0.24	-0.21	-0.26	-0.06	-0.24	0.01	-0.06	-0.34	-0.40	-0.55	0.10	
22	-0.25	-0.24	-0.22	-0.28	-0.10	-0.24	-0.03	-0.07	-0.34	-0.40	-0.55	-0.17	
23	-0.26	-0.24	-0.25	-0.27	-0.12	-0.24	-0.04	-0.10	-0.34	-0.41	-0.54	-0.22	
24	-0.26	-0.25	-0.27	-0.26	-0.13	-0.21	-0.03	-0.13	-0.34	-0.42	-0.54	-0.28	
25	-0.26	-0.25	-0.27	-0.18	-0.10	-0.22	-0.07	-0.15	-0.33	-0.44	-0.54	-0.32	
26	-0.26	-0.25	-0.27	0.00	-0.12	-0.10	-0.02	-0.16	-0.37	-0.45	-0.55	-0.35	
27	-0.26	-0.25	-0.27	-0.08	-0.14	-0.21	-0.07	-0.17	-0.38	-0.45	-0.55	-0.37	
28	-0.26	-0.26	-0.28	-0.13	-0.15	-0.24	-0.08	-0.19	-0.39	-0.46	-0.55	-0.37	
29	-0.26	-0.26	-0.29	-0.13	-0.16	-0.17	-0.11	-0.22	-0.40	-0.46		-0.38	
30	-0.25	-0.26	-0.30	-0.05	-0.14	-0.14	-0.14	-0.24	-0.40	-0.53		-0.39	
31		-0.26		-0.08	-0.04		-0.15		-0.40	-0.54		-0.40	
Mean	-0.25	-0.24	-0.25	-0.22	-0.14	-0.14	0.06	0.24	-0.33	-0.42	-0.53	-0.44	
Max	-0.23	-0.15	-0.16	0.00	0.07	0.10	0.84	2.26	-0.26	-0.20	-0.51	0.19	2.26
Min	-0.26	-0.26	-0.30	-0.31	-0.21	-0.24	-0.19	-0.24	-0.40	-0.54	-0.55	-0.58	-0.58

Annual Max Momentary Gage Height 3.20 M (A.D), at 12.00 Hours, on Nov 1, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.49 M (A.D)
Left Bank Elevation 4.32 M (A.D)
Right Bank Elevation 4.19 M (A.D), Drainage Area 112 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.10	0.08	0.00	0.68	1.70	0.24	41.30	0.70	0.30	0.06	0.05	
2	0.12	0.10	0.08	0.00	0.64	1.70	0.32	65.06	0.60	0.30	0.06	0.05	
3	0.12	0.08	0.10	0.00	0.48	1.63	0.80	15.55	0.55	0.28	0.07	0.05	
4	0.12	0.08	0.12	0.00	0.40	1.35	0.88	7.92	0.55	0.26	0.07	0.05	
5	0.12	0.08	0.14	0.00	0.36	1.00	2.10	5.40	0.55	0.24	0.09	0.04	
6	0.12	0.08	0.12	0.00	0.28	0.84	11.12	4.44	0.50	0.24	0.09	0.03	
7	0.12	0.08	0.18	0.00	0.20	0.72	2.68	3.76	0.50	0.24	0.08	0.04	
8	0.12	0.08	0.18	0.00	0.20	0.56	1.70	3.54	0.50	1.00	0.07	0.04	
9	0.14	0.08	0.36	0.16	0.18	0.52	1.14	14.19	0.48	0.38	0.07	0.04	
10	0.14	0.08	0.12	0.28	0.18	0.44	1.63	7.41	0.46	0.32	0.07	0.04	
11	0.12	0.08	0.10	0.40	0.18	0.36	1.21	4.80	0.46	0.30	0.07	0.03	
12	0.12	0.16	0.08	0.40	0.20	0.28	5.20	3.54	0.46	0.28	0.07	0.03	
13	0.12	0.20	0.06	0.24	0.20	0.20	3.22	3.01	0.46	0.36	0.07	0.02	
14	0.12	0.18	0.04	0.12	0.20	0.36	2.68	2.47	0.46	0.30	0.07	0.02	
15	0.10	0.16	0.06	0.20	0.20	0.20	1.94	2.20	0.46	0.28	0.07	0.02	
16	0.10	0.40	0.08	0.10	0.20	0.16	1.28	7.41	0.44	0.26	0.07	0.02	
17	0.10	0.18	0.10	0.08	0.28	0.14	2.34	2.92	0.44	0.24	0.07	0.04	
18	0.10	0.14	0.16	0.08	1.49	0.14	1.86	2.56	0.44	0.30	0.06	0.04	
19	0.12	0.14	0.24	0.20	1.00	0.14	1.42	2.13	0.44	0.30	0.06	0.16	
20	0.10	0.12	0.20	0.10	0.92	0.24	1.21	1.92	0.44	0.30	0.07	4.09	
21	0.10	0.12	0.18	0.08	0.76	0.12	1.07	1.78	0.42	0.30	0.05	3.10	
22	0.10	0.12	0.16	0.04	0.60	0.12	0.88	1.71	0.42	0.30	0.05	1.15	
23	0.08	0.12	0.10	0.06	0.52	0.12	0.84	1.50	0.42	0.28	0.06	0.90	
24	0.08	0.10	0.06	0.08	0.48	0.18	0.88	1.35	0.42	0.26	0.06	0.60	
25	0.08	0.10	0.06	0.28	0.60	0.16	0.72	1.25	0.44	0.22	0.06	0.46	
26	0.08	0.10	0.06	1.00	0.52	0.60	0.92	1.20	0.36	0.20	0.05	0.40	
27	0.08	0.10	0.06	0.68	0.44	0.18	0.72	1.15	0.34	0.20	0.05	0.36	
28	0.08	0.08	0.04	0.48	0.40	0.12	0.68	1.05	0.32	0.18	0.05	0.36	
29	0.08	0.08	0.02	0.48	0.36	0.32	0.56	0.90	0.30	0.18		0.34	
30	0.10	0.08	0.00	0.80	0.44	0.44	0.44	0.80	0.30	0.07		0.32	
31		0.08		0.68	0.84		0.40		0.30	0.06		0.30	
Total	3.20	3.68	3.34	7.02	14.43	15.04	53.08	214.22	13.93	8.73	1.84	13.19	351.70 CMSDAY
Mean	0.11	0.12	0.11	0.23	0.47	0.50	1.71	7.14	0.45	0.28	0.07	0.43	0.96 CMS
Max	0.14	0.40	0.36	1.00	1.49	1.70	11.12	65.06	0.70	1.00	0.09	4.09	65.06 CMS
Min	0.08	0.08	0.00	0.00	0.18	0.12	0.24	0.80	0.30	0.06	0.05	0.02	0.00 CMS
Runoff	0.276	0.318	0.289	0.607	1.247	1.299	4.586	18.509	1.204	0.754	0.159	1.140	30.387 MCM

Momentary Peak 113.20 CMS, at 3.20 M (A.D), at 12.00 Hours, on Nov 1, 1992

Runoff Yield 8.60 Liters/Second/Square KM, Momentary Peak Yield 1010.71 Liters/Second/Square KM

WATER YEAR 1992

WEST COAST-GULF BASIN

Huai Yang at Ban Chang Laek, Prachuap Khiri Khan (Gt.11)

Location — Lat. 11-03-44 N., Long. 99-22-31 E., on right bank at the bridge of Phet Kasem Highway near the guidepost 423, Ban Chang Laek, Tambon Pak Phaek, Amphoe Bang Saphan Noi, Prachuap Khiri Khan.

Drainage Area — 58 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-Highways Dept.

Location — On left bank at the abutment of the bridge.

Elevation — +9.576 m.(A.D.)

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

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

Period of Available Gage Records — 1979 to date.

Rating Operation

Period of Rating — 1980 to date.

Rated by Float —

Rated by Current Meter — 1980 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 42 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

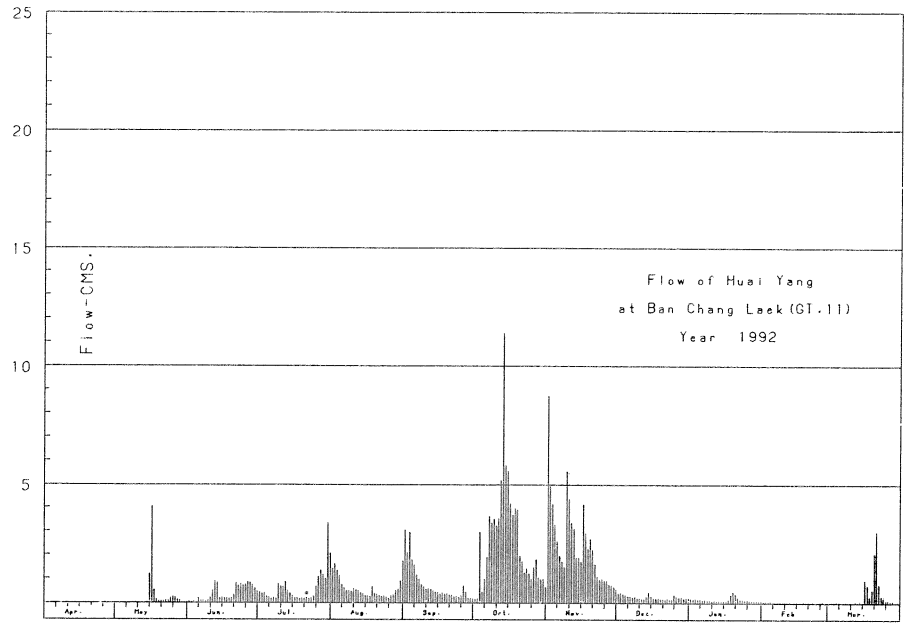
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	0.37	0.47	0.65	0.89	1.17	0.54	1.64	0.64	0.54	0.48	0.44	
2	0.38	0.37	0.47	0.64	0.93	1.02	0.54	1.38	0.64	0.54	0.48	0.44	
3	0.38	0.37	0.47	0.64	0.88	1.16	1.16	1.30	0.63	0.54	0.47	0.45	
4	0.38	0.37	0.47	0.60	0.83	0.97	0.66	1.20	0.61	0.53	0.47	0.48	
5	0.38	0.37	0.55	0.57	0.75	0.92	0.80	1.10	0.60	0.53	0.47	0.47	
6	0.37	0.38	0.51	0.55	0.71	0.84	0.99	1.00	0.59	0.52	0.46	0.46	
7	0.37	0.43	0.50	0.56	0.68	0.80	1.24	0.95	0.58	0.52	0.46	0.45	
8	0.37	0.43	0.49	0.55	0.67	0.75	1.21	0.90	0.58	0.51	0.45	0.45	
9	0.37	0.43	0.50	0.75	0.67	0.72	1.23	1.43	0.56	0.51	0.45	0.44	
10	0.37	0.42	0.57	0.73	0.70	0.70	1.20	1.32	0.55	0.50	0.45	0.45	
11	0.37	0.42	0.67	0.72	0.69	0.70	1.23	1.21	0.54	0.50	0.44	0.46	
12	0.37	0.42	0.78	0.78	0.67	0.70	1.40	1.18	0.53	0.50	0.44	0.46	
13	0.37	0.43	0.77	0.67	0.65	0.67	1.78	0.98	0.59	0.49	0.44	0.47	
14	0.37	0.43	0.56	0.64	0.63	0.66	1.45	0.98	0.65	0.49	0.45	0.47	
15	0.37	0.85	0.56	0.60	0.61	0.65	1.43	0.95	0.60	0.48	0.45	0.47	
16	0.37	1.29	0.56	0.56	0.60	0.63	1.30	1.30	0.55	0.49	0.45	0.79	
17	0.39	0.69	0.55	0.55	0.60	0.64	1.25	1.15	0.55	0.52	0.46	0.74	
18	0.39	0.53	0.55	0.55	0.72	0.63	1.28	1.05	0.55	0.62	0.46	0.58	
19	0.39	0.50	0.55	0.55	0.64	0.63	1.27	1.12	0.54	0.65	0.46	0.68	
20	0.39	0.50	0.62	0.55	0.62	0.62	1.00	1.04	0.53	0.63	0.46	1.02	
21	0.39	0.50	0.76	0.56	0.61	0.61	0.95	0.93	0.53	0.56	0.46	1.16	
22	0.39	0.50	0.74	0.55	0.60	0.59	0.86	0.82	0.54	0.53	0.46	0.75	
23	0.39	0.51	0.75	0.55	0.59	0.59	0.89	0.80	0.53	0.52	0.46	0.60	
24	0.38	0.56	0.74	0.60	0.57	0.58	0.85	0.80	0.52	0.51	0.46	0.59	
25	0.38	0.59	0.75	0.73	0.56	0.60	0.80	0.79	0.62	0.52	0.45	0.51	
26	0.38	0.56	0.77	0.82	0.60	0.73	0.90	0.78	0.58	0.49	0.45	0.50	
27	0.38	0.53	0.77	0.88	0.62	0.66	0.97	0.75	0.57	0.49	0.44	0.49	
28	0.38	0.50	0.74	0.84	0.67	0.56	0.81	0.73	0.57	0.49	0.44	0.48	
29	0.37	0.43	0.71	0.81	0.70	0.54	0.80	0.72	0.55	0.49		0.46	
30	0.37	0.48	0.66	1.21	0.78	0.54	0.80	0.69	0.55	0.49		0.46	
31		0.47		1.02	0.96		0.72		0.56	0.48		0.46	
Mean	0.38	0.50	0.62	0.68	0.69	0.72	1.04	1.03	0.57	0.52	0.46	0.55	
Max	0.39	1.29	0.78	1.21	0.96	1.17	1.78	1.64	0.65	0.65	0.48	1.16	1.78
Min	0.37	0.37	0.47	0.55	0.56	0.54	0.54	0.69	0.52	0.48	0.44	0.44	0.37

Annual Max Momentary Gage Height — 2.50 M (A.D), at 18.00 Hours, on Oct 13, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.41 M (A.D)

Left Bank Elevation — 8.20 M (A.D)

Right Bank Elevation — 8.26 M (A.D), Drainage Area — 58 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.07	0.45	1.45	3.09	0.18	8.78	0.42	0.18	0.08	0.04	
2	0.00	0.00	0.07	0.42	1.65	2.12	0.18	5.00	0.42	0.18	0.08	0.04	
3	0.00	0.00	0.07	0.42	1.40	3.02	3.02	4.20	0.39	0.18	0.07	0.05	
4	0.00	0.00	0.07	0.30	1.15	1.85	0.48	3.30	0.33	0.16	0.07	0.08	
5	0.00	0.00	0.20	0.24	0.80	1.60	1.00	2.60	0.30	0.16	0.07	0.07	
6	0.00	0.00	0.12	0.20	0.64	1.20	1.95	2.00	0.28	0.14	0.06	0.06	
7	0.00	0.03	0.10	0.22	0.54	1.00	3.66	1.75	0.26	0.14	0.06	0.05	
8	0.00	0.03	0.09	0.20	0.51	0.80	3.39	1.50	0.26	0.12	0.05	0.05	
9	0.00	0.03	0.10	0.80	0.51	0.68	3.57	5.59	0.22	0.12	0.05	0.04	
10	0.00	0.02	0.24	0.72	0.60	0.60	3.30	4.40	0.20	0.10	0.05	0.05	
11	0.00	0.02	0.51	0.68	0.57	0.60	3.57	3.39	0.18	0.10	0.04	0.06	
12	0.00	0.02	0.92	0.92	0.51	0.60	5.20	3.16	0.16	0.10	0.04	0.06	
13	0.00	0.03	0.88	0.51	0.45	0.51	11.40	1.90	0.28	0.09	0.04	0.07	
14	0.00	0.03	0.22	0.42	0.39	0.48	5.85	1.90	0.45	0.09	0.05	0.07	
15	0.00	1.25	0.22	0.30	0.33	0.45	5.59	1.75	0.30	0.08	0.05	0.07	
16	0.00	4.11	0.22	0.22	0.30	0.39	4.20	4.20	0.20	0.09	0.05	0.96	
17	0.00	0.57	0.20	0.20	0.30	0.42	3.75	2.95	0.20	0.14	0.06	0.76	
18	0.00	0.16	0.20	0.20	0.68	0.39	4.02	2.30	0.20	0.36	0.06	0.26	
19	0.00	0.10	0.20	0.20	0.42	0.39	3.93	2.74	0.18	0.45	0.06	0.54	
20	0.00	0.10	0.36	0.20	0.36	0.36	2.00	2.24	0.16	0.39	0.06	2.12	
21	0.00	0.10	0.84	0.22	0.33	0.33	1.75	1.65	0.16	0.22	0.06	3.02	
22	0.00	0.10	0.76	0.20	0.30	0.28	1.30	1.10	0.18	0.16	0.06	0.80	
23	0.00	0.12	0.80	0.20	0.28	0.28	1.45	1.00	0.16	0.14	0.06	0.30	
24	0.00	0.22	0.76	0.30	0.24	0.26	1.25	1.00	0.14	0.12	0.06	0.28	
25	0.00	0.28	0.80	0.72	0.22	0.30	1.00	0.96	0.36	0.14	0.05	0.12	
26	0.00	0.22	0.88	1.10	0.30	0.72	1.50	0.92	0.26	0.09	0.05	0.10	
27	0.00	0.16	0.88	1.40	0.36	0.48	1.85	0.80	0.24	0.09	0.04	0.09	
28	0.00	0.10	0.76	1.20	0.51	0.22	1.05	0.72	0.24	0.09	0.04	0.08	
29	0.00	0.03	0.64	1.05	0.60	0.18	1.00	0.68	0.20	0.09		0.06	
30	0.00	0.08	0.48	3.39	0.92	0.18	1.00	0.57	0.20	0.09		0.06	
31		0.07		2.12	1.80		0.68		0.22	0.08		0.06	
Total	0.00	7.98	12.66	19.72	19.42	23.78	84.07	75.05	7.75	4.68	1.57	10.47	267.15 CMSDAY
Mean	0.00	0.26	0.42	0.64	0.63	0.79	2.71	2.50	0.25	0.15	0.06	0.34	0.73 CMS
Max	0.00	4.11	0.92	3.39	1.80	3.09	11.40	8.78	0.45	0.45	0.08	3.02	11.40 CMS
Min	0.00	0.00	0.07	0.20	0.22	0.18	0.18	0.57	0.14	0.08	0.04	0.04	0.00 CMS
Runoff	0.000	0.689	1.094	1.704	1.678	2.055	7.264	6.484	0.670	0.404	0.136	0.905	23.082 MCM

Momentary Peak 32.80 CMS, at 2.50 M (A.D), at 18.00 Hours, on Oct 13, 1992

Runoff Yield 12.62 Liters/Second/Square KM, Momentary Peak Yield 565.52 Liters/Second/Square KM

WATER YEAR 1992

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 — Stable.

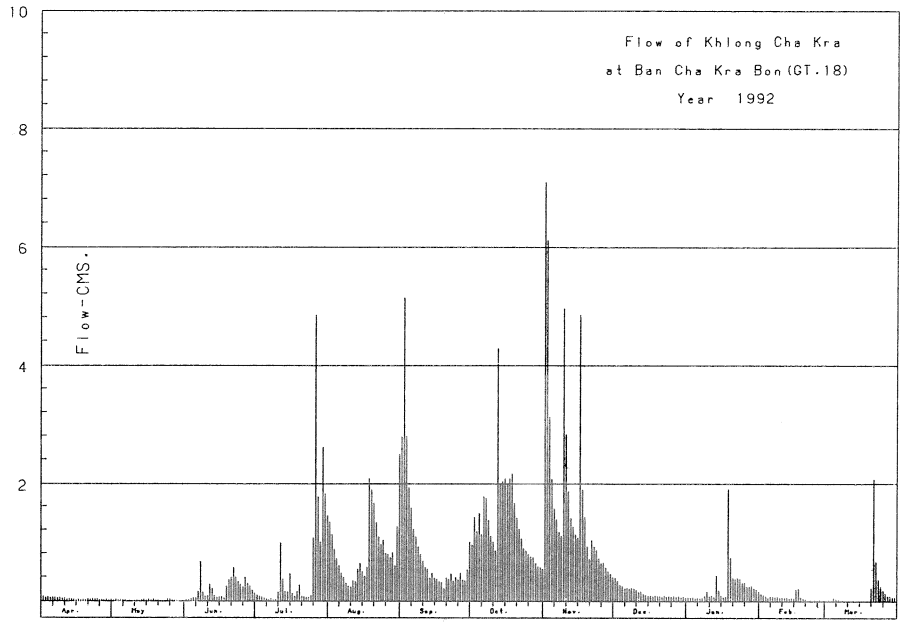
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 44 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	0.63	0.62	0.70	1.06	1.40	0.96	2.16	0.80	0.66	0.71	0.61	
2	0.67	0.63	0.63	0.69	1.01	1.85	1.08	2.01	0.78	0.66	0.70	0.62	
3	0.67	0.63	0.64	0.67	0.94	1.40	1.02	1.47	0.76	0.66	0.69	0.62	
4	0.67	0.63	0.65	0.66	0.89	1.21	1.10	1.24	0.75	0.65	0.68	0.65	
5	0.67	0.63	0.66	0.64	0.86	1.12	1.01	1.12	0.74	0.65	0.68	0.64	
6	0.66	0.62	0.72	0.63	0.82	1.03	1.17	1.07	0.74	0.65	0.67	0.62	
7	0.66	0.62	0.88	0.64	0.80	1.00	1.16	1.02	0.74	0.65	0.67	0.61	
8	0.66	0.61	0.72	0.63	0.77	0.95	1.07	1.00	0.74	0.69	0.67	0.61	
9	0.65	0.61	0.68	0.63	0.75	0.91	1.00	1.82	0.74	0.72	0.66	0.60	
10	0.65	0.61	0.70	0.72	0.75	0.88	0.97	1.41	0.73	0.69	0.66	0.60	
11	0.64	0.62	0.76	0.97	0.78	0.85	0.93	1.19	0.72	0.69	0.66	0.60	
12	0.64	0.62	0.74	0.79	0.78	0.84	1.70	1.08	0.72	0.67	0.66	0.60	
13	0.64	0.63	0.69	0.72	0.84	0.80	1.22	1.04	0.71	0.81	0.65	0.60	
14	0.63	0.63	0.67	0.72	0.87	0.82	1.23	1.01	0.70	0.73	0.65	0.60	
15	0.63	0.63	0.67	0.82	0.83	0.80	1.24	0.99	0.70	0.69	0.65	0.60	
16	0.63	0.63	0.67	0.71	0.81	0.79	1.22	1.80	0.69	0.67	0.73	0.60	
17	0.63	0.63	0.66	0.69	0.85	0.78	1.24	1.20	0.69	0.67	0.74	0.60	
18	0.63	0.63	0.75	0.72	1.24	0.77	1.26	1.08	0.69	1.20	0.66	0.60	
19	0.63	0.63	0.79	0.76	1.20	0.74	1.14	0.95	0.69	0.90	0.65	0.60	
20	0.64	0.62	0.80	0.69	1.14	0.80	1.08	0.89	0.68	0.80	0.63	0.74	
21	0.64	0.60	0.85	0.67	1.06	0.79	1.03	0.98	0.68	0.79	0.62	1.24	
22	0.64	0.60	0.80	0.67	1.00	0.82	0.99	0.95	0.69	0.80	0.62	0.88	
23	0.64	0.60	0.78	0.66	0.96	0.78	0.94	0.93	0.68	0.79	0.62	0.79	
24	0.64	0.64	0.76	0.70	0.98	0.80	0.93	0.89	0.68	0.77	0.62	0.75	
25	0.63	0.64	0.75	0.99	0.92	0.79	0.91	0.87	0.68	0.77	0.62	0.73	
26	0.63	0.63	0.80	1.80	0.91	0.82	0.90	0.87	0.68	0.75	0.63	0.71	
27	0.63	0.62	0.77	1.17	0.90	0.79	0.90	0.85	0.68	0.75	0.62	0.69	
28	0.63	0.61	0.75	0.97	0.92	0.78	0.87	0.83	0.68	0.75	0.62	0.68	
29	0.63	0.60	0.73	1.36	0.86	0.84	0.85	0.82	0.67	0.74		0.67	
30	0.63	0.60	0.71	1.18	1.04	0.97	0.85	0.80	0.67	0.73		0.66	
31		0.61		1.09	1.33		0.84		0.66	0.72		0.66	
Mean	0.64	0.62	0.73	0.82	0.93	0.93	1.06	1.14	0.71	0.74	0.66	0.67	
Max	0.68	0.64	0.88	1.80	1.33	1.85	1.70	2.16	0.80	1.20	0.74	1.24	2.16
Min	0.63	0.60	0.62	0.63	0.75	0.74	0.84	0.80	0.66	0.65	0.62	0.60	0.60

Annual Max Momentary Gage Height 3.65 M (A.D), at 18.00 Hours, on Nov 1, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.49 M (A.D)
Left Bank Elevation 4.38 M (A.D)
Right Bank Elevation 4.24 M (A.D), Drainage Area 93 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.03	0.02	0.10	1.34	2.80	0.96	7.09	0.40	0.06	0.13	0.01	
2	0.07	0.03	0.03	0.09	1.14	5.15	1.42	6.12	0.34	0.06	0.10	0.02	
3	0.07	0.03	0.04	0.07	0.89	2.80	1.18	3.12	0.28	0.06	0.09	0.02	
4	0.07	0.03	0.05	0.06	0.72	1.94	1.50	2.08	0.25	0.05	0.08	0.05	
5	0.07	0.03	0.06	0.04	0.61	1.58	1.14	1.58	0.22	0.05	0.08	0.04	
6	0.06	0.02	0.16	0.03	0.47	1.22	1.78	1.38	0.22	0.05	0.07	0.02	
7	0.06	0.02	0.68	0.04	0.40	1.10	1.74	1.18	0.22	0.05	0.07	0.01	
8	0.06	0.01	0.16	0.03	0.31	0.93	1.38	1.10	0.22	0.09	0.07	0.01	
9	0.05	0.01	0.08	0.03	0.25	0.79	1.10	4.97	0.22	0.16	0.06	0.00	
10	0.05	0.01	0.10	0.16	0.25	0.68	1.00	2.84	0.19	0.09	0.06	0.00	
11	0.04	0.02	0.28	1.00	0.34	0.58	0.86	1.86	0.16	0.09	0.06	0.00	
12	0.04	0.02	0.22	0.37	0.34	0.54	4.30	1.42	0.16	0.07	0.06	0.00	
13	0.04	0.03	0.09	0.16	0.54	0.40	1.99	1.26	0.13	0.43	0.05	0.00	
14	0.03	0.03	0.07	0.16	0.65	0.47	2.03	1.14	0.10	0.19	0.05	0.00	
15	0.03	0.03	0.07	0.47	0.50	0.40	2.08	1.07	0.10	0.09	0.05	0.00	
16	0.03	0.03	0.07	0.13	0.43	0.37	1.99	4.85	0.09	0.07	0.19	0.00	
17	0.03	0.03	0.06	0.09	0.58	0.34	2.08	1.90	0.09	0.07	0.22	0.00	
18	0.03	0.03	0.25	0.16	2.08	0.31	2.17	1.42	0.09	1.90	0.06	0.00	
19	0.03	0.03	0.37	0.28	1.90	0.22	1.66	0.93	0.09	0.75	0.05	0.00	
20	0.04	0.02	0.40	0.09	1.66	0.40	1.42	0.72	0.08	0.40	0.03	0.22	
21	0.04	0.00	0.58	0.07	1.34	0.37	1.22	1.03	0.08	0.37	0.02	2.08	
22	0.04	0.00	0.40	0.07	1.10	0.47	1.07	0.93	0.09	0.40	0.02	0.68	
23	0.04	0.00	0.34	0.06	0.96	0.34	0.89	0.86	0.08	0.37	0.02	0.37	
24	0.04	0.04	0.28	0.10	1.03	0.40	0.86	0.72	0.08	0.31	0.02	0.25	
25	0.03	0.04	0.25	1.07	0.82	0.37	0.79	0.65	0.08	0.31	0.02	0.19	
26	0.03	0.03	0.40	4.85	0.79	0.47	0.75	0.65	0.08	0.25	0.03	0.13	
27	0.03	0.02	0.31	1.78	0.75	0.37	0.75	0.58	0.08	0.25	0.02	0.09	
28	0.03	0.01	0.25	1.00	0.82	0.34	0.65	0.50	0.08	0.25	0.02	0.08	
29	0.03	0.00	0.19	2.62	0.61	0.54	0.58	0.47	0.07	0.22		0.07	
30	0.03	0.00	0.13	1.82	1.26	1.00	0.58	0.40	0.07	0.19		0.06	
31		0.01		1.46	2.49		0.54		0.06	0.16		0.06	
Total	1.32	0.64	6.39	18.46	27.37	27.69	42.46	54.82	4.50	7.86	1.80	4.46	197.77 CMSDAY
Mean	0.04	0.02	0.21	0.60	0.88	0.92	1.37	1.83	0.15	0.25	0.06	0.14	0.54 CMS
Max	0.08	0.04	0.68	4.85	2.49	5.15	4.30	7.09	0.40	1.90	0.22	2.08	7.09 CMS
Min	0.03	0.00	0.02	0.03	0.25	0.22	0.54	0.40	0.06	0.05	0.02	0.00	0.00 CMS
Runoff	0.114	0.055	0.552	1.595	2.365	2.392	3.669	4.736	0.389	0.679	0.156	0.385	17.087 MCM

Momentary Peak 20.03 CMS, at 3.65 M (A.D), at 18.00 Hours, on Nov 1, 1992
Runoff Yield 5.83 Liters/Second/Square KM, Momentary Peak Yield 215.32 Liters/Second/Square KM

WATER YEAR 1992

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.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.446 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. Stage-discharge relation defined by 21 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

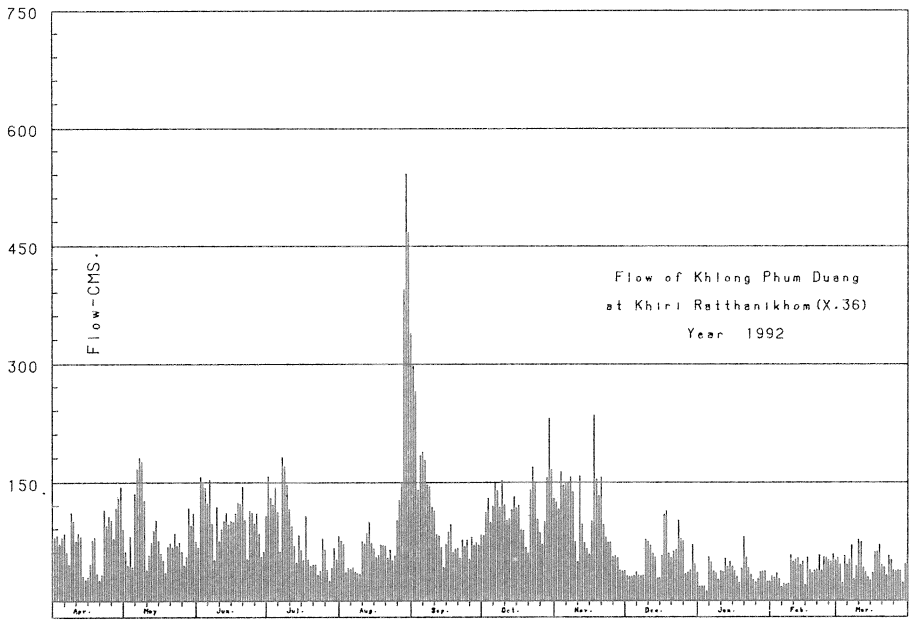
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.09	1.83	1.91	3.08	2.04	4.50	2.14	2.68	1.34	1.07	1.33	1.72	
2	2.13	1.58	3.08	2.75	1.97	4.17	2.52	2.58	1.33	1.09	1.30	1.59	
3	1.98	2.12	2.97	2.64	1.43	2.87	2.74	3.15	1.32	1.08	1.40	1.16	
4	2.09	1.54	2.91	2.91	1.52	3.37	2.37	2.95	1.35	0.95	1.28	1.77	
5	2.17	2.81	2.66	2.53	1.50	3.41	2.62	2.98	1.43	1.75	1.07	1.60	
6	1.82	3.19	3.03	1.83	1.53	3.31	3.00	2.98	1.35	1.64	1.14	1.69	
7	1.60	3.34	2.34	3.35	1.44	2.96	2.87	3.08	1.34	1.45	1.13	1.96	
8	2.52	3.28	1.69	3.22	1.39	2.92	2.60	2.85	1.35	1.40	1.14	1.27	
9	2.38	2.71	2.61	2.95	1.39	2.61	3.03	2.02	2.07	1.26	1.78	1.55	
10	2.03	1.47	2.03	2.57	2.03	2.54	2.65	1.66	2.02	1.46	1.66	2.05	
11	2.16	1.77	2.24	2.29	1.98	2.15	2.39	3.09	1.95	1.43	1.69	2.02	
12	2.11	2.00	2.39	1.94	2.17	2.13	2.42	2.33	1.81	1.71	1.72	1.54	
13	1.33	2.22	2.51	1.64	2.37	1.91	2.57	2.01	1.73	1.55	1.59	1.42	
14	1.25	2.39	2.32	2.14	1.99	1.54	2.77	1.89	1.29	1.66	1.65	1.32	
15	1.31	2.04	2.39	1.87	1.89	1.98	2.59	1.80	1.29	1.56	1.12	1.22	
16	1.60	1.80	2.36	1.68	1.74	2.19	2.63	2.38	1.77	1.45	1.73	1.42	
17	2.05	1.68	2.50	2.47	1.77	2.33	2.24	3.87	2.49	1.33	1.48	1.82	
18	2.09	1.41	2.68	1.69	1.97	1.82	2.22	3.05	2.54	1.17	1.40	1.84	
19	1.40	1.93	2.65	1.56	1.95	1.89	1.92	2.79	1.81	1.52	1.47	1.96	
20	1.24	1.99	2.93	1.60	1.94	1.90	1.81	3.07	1.72	2.11	1.48	1.58	
21	1.36	1.92	2.40	1.59	1.73	1.72	2.87	2.33	1.84	1.74	1.78	1.54	
22	2.56	2.17	1.71	1.37	1.88	2.06	3.22	2.10	1.88	1.52	1.47	1.36	
23	2.30	1.95	2.54	1.45	1.67	1.94	2.98	2.01	2.40	1.38	1.73	1.76	
24	2.45	2.00	2.52	2.08	1.77	2.05	2.42	2.01	2.07	1.24	1.73	1.69	
25	2.39	1.84	2.34	1.88	2.40	1.71	2.19	1.75	2.03	1.18	1.68	1.47	
26	2.08	1.58	2.50	1.47	2.71	2.10	1.97	1.76	1.40	1.28	1.65	1.44	
27	2.59	1.74	2.17	1.23	2.97	1.96	2.37	1.73	1.43	1.44	1.80	1.47	
28	2.74	2.59	1.74	1.53	5.38	2.00	3.07	1.47	1.47	1.44	1.68	1.45	
29	2.92	2.31	1.84	1.90	6.64	1.96	3.84	1.46	1.97	1.46		1.18	
30	2.24	2.50	2.47	1.69	6.01	2.14	3.18	1.46	1.60	1.20		1.61	
31		2.02		2.12	4.88		2.74		1.43	1.21		1.85	
Mean	2.03	2.12	2.41	2.10	2.39	2.40	2.61	2.38	1.70	1.41	1.50	1.59	
Max	2.92	3.34	3.08	3.35	6.64	4.50	3.84	3.87	2.54	2.11	1.80	2.05	6.64
Min	1.24	1.41	1.69	1.23	1.39	1.54	1.81	1.46	1.29	0.95	1.07	1.16	0.95

Annual Max Momentary Gage Height — 6.69 M (MSL), at 12.00 Hours, on Aug 29, 1992

Zero Gage at Bottom Elevation — 0.45 M (MSL), River Bed -0.39 M (MSL)

Left Bank Elevation — 12.00 M (MSL)

Right Bank Elevation — 10.26 M (MSL), Drainage Area 3012 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	79.80	61.60	67.20	157.66	76.30	298.60	83.30	125.18	31.20	17.65	30.65	53.90	
2	82.60	44.82	157.66	130.85	71.40	265.00	112.22	117.08	30.65	18.55	29.00	45.41	
3	72.10	81.90	148.67	121.94	36.18	140.57	130.04	163.90	30.10	18.10	34.50	22.00	
4	79.80	42.46	143.81	143.81	41.28	185.00	100.25	147.05	31.75	12.25	28.00	57.40	
5	85.40	135.71	123.56	113.03	40.10	189.00	120.32	149.48	36.18	56.00	17.65	46.00	
6	60.90	167.58	153.56	61.60	41.87	179.00	151.10	149.48	31.75	48.60	21.00	51.85	
7	46.00	182.00	98.00	183.00	36.74	147.86	140.57	157.66	31.20	37.30	20.50	70.70	
8	112.22	176.10	51.85	170.40	33.95	144.62	118.70	138.95	31.75	34.50	21.00	27.50	
9	101.00	127.61	119.51	147.05	33.95	119.51	153.56	74.90	78.40	27.00	58.10	43.05	
10	75.60	38.42	75.60	116.27	75.60	113.84	122.75	49.90	74.90	37.86	49.90	77.00	
11	84.70	57.40	90.50	94.25	72.10	84.00	101.75	158.48	70.00	36.18	51.85	74.90	
12	81.20	73.50	101.75	69.30	85.40	82.60	104.12	97.25	60.20	53.20	53.90	42.46	
13	30.65	89.00	111.41	48.60	100.25	67.20	116.27	74.20	54.60	43.05	45.41	35.62	
14	26.50	101.75	96.50	83.30	72.80	42.46	132.47	65.80	28.50	49.90	49.25	30.10	
15	29.55	76.30	101.75	64.40	65.80	72.10	117.89	59.50	28.50	43.64	20.00	25.00	
16	46.00	59.50	99.50	51.20	55.30	86.80	121.13	101.00	57.40	37.30	54.60	35.62	
17	77.00	51.20	110.60	108.17	57.40	97.25	90.50	235.00	109.79	30.65	38.98	60.90	
18	79.80	35.06	125.18	51.85	71.40	60.90	89.00	155.20	113.84	22.50	34.50	62.30	
19	34.50	68.60	122.75	43.64	70.00	65.80	67.90	134.09	60.20	41.28	38.42	70.70	
20	26.00	72.80	145.43	46.00	69.30	66.50	60.20	156.84	53.90	81.20	38.98	44.82	
21	32.30	67.90	102.50	45.41	54.60	53.90	140.57	97.25	62.30	55.30	58.10	42.46	
22	115.46	85.40	53.20	32.85	65.10	77.70	170.40	80.50	65.10	41.28	38.42	32.30	
23	95.00	70.00	113.84	37.30	50.55	69.30	149.48	74.20	102.50	33.40	54.60	56.70	
24	106.55	73.50	112.22	79.10	57.40	77.00	104.12	74.20	78.40	26.00	54.60	51.85	
25	101.75	62.30	98.00	65.10	102.50	53.20	86.80	56.00	75.60	23.00	51.20	38.42	
26	79.10	44.82	110.60	38.42	127.61	80.50	71.40	56.70	34.50	28.00	49.25	36.74	
27	117.89	55.30	85.40	25.50	148.67	70.70	100.25	54.60	36.18	36.74	59.50	38.42	
28	130.04	117.89	55.30	41.87	395.52	73.50	156.84	38.42	38.42	36.74	51.20	37.30	
29	144.62	95.75	62.30	66.50	542.80	70.70	232.00	37.86	71.40	37.86		23.00	
30	90.50	110.60	108.17	51.85	467.58	83.30	166.66	37.86	46.00	24.00		46.65	
31		74.90		81.90	338.88		130.04		36.18	24.50		63.00	
Total	2324.53	2601.67	3146.32	2572.12	3558.33	3218.41	3742.60	3118.53	1691.39	1113.53	1153.06	1444.07	29684.56 CMSDAY
Mean	77.48	83.92	104.88	82.97	114.78	107.28	120.73	103.95	54.56	35.92	41.18	46.58	81.33 CMS
Max	144.62	182.00	157.66	183.00	542.80	298.60	232.00	235.00	113.84	81.20	59.50	77.00	542.80 CMS
Min	26.00	35.06	51.85	25.50	33.95	42.46	60.20	37.86	28.50	12.25	17.65	22.00	12.25 CMS
Runoff	200.839	224.784	271.842	222.231	307.440	278.071	323.361	269.441	146.136	96.209	99.624	124.768	2564.746 MCM

Momentary Peak 548.80 CMS, at 6.69 M (MSL), at 12.00 Hours, on Aug 29, 1992

Runoff Yield 27.00 Liters/Second/Square KM, Momentary Peak Yield 182.20 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

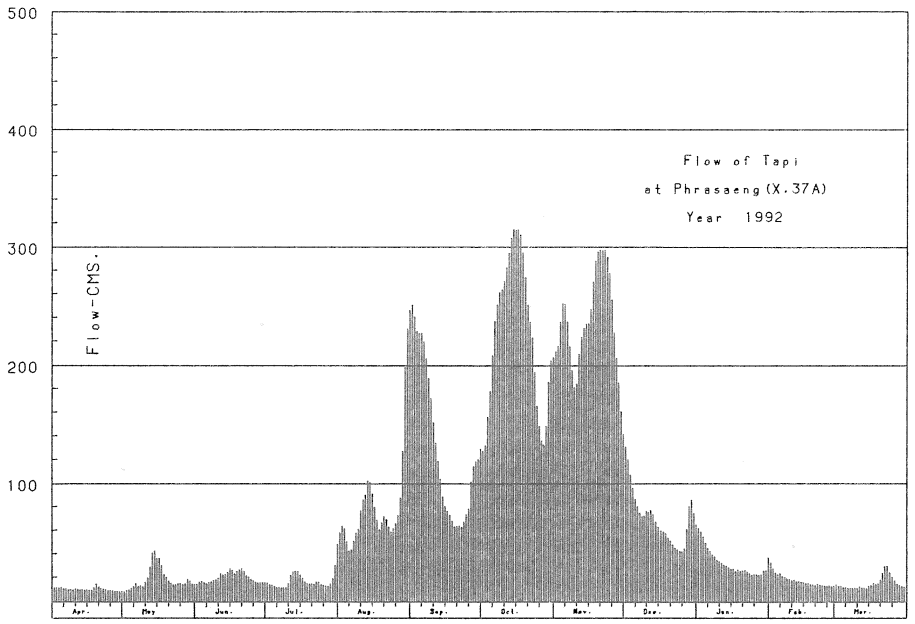
Tapi River at Phrasaeng, Surat Thani (X.37A)

Location	Lat. 8-34-03 N., Long. 99-15-15 E., on left bank at Tambon Yan Din Daeng, Amphoe Phrasaeng, Surat Thani.
Drainage Area	5,200 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+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	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.
Period of Available Gage Records	1969 to date.
Rating Operation	
Period of Rating	1969 to date.
Rated by Float	-
Rated by Current Meter	1969 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 106 discharge measurements made in 1992.

Gage Height in Meter (MSL) Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.30	5.18	5.39	5.42	6.43	9.54	7.76	9.04	7.83	6.49	5.87	5.38	
2	5.29	5.21	5.46	5.39	6.54	9.42	7.85	9.10	7.63	6.44	5.75	5.35	
3	5.30	5.24	5.47	5.36	6.50	9.27	8.24	9.36	7.40	6.34	5.68	5.34	
4	5.30	5.27	5.45	5.34	6.25	9.24	8.58	9.55	7.19	6.23	5.64	5.32	
5	5.28	5.33	5.42	5.31	6.08	9.25	9.00	9.54	7.02	6.14	5.67	5.30	
6	5.26	5.41	5.44	5.30	6.11	9.15	9.37	9.37	6.89	6.07	5.62	5.29	
7	5.25	5.34	5.48	5.30	6.27	8.96	9.54	9.10	6.79	6.02	5.59	5.28	
8	5.24	5.35	5.50	5.29	6.41	8.74	9.65	8.83	6.71	5.97	5.56	5.29	
9	5.24	5.33	5.53	5.31	6.49	8.48	9.68	8.62	6.73	5.92	5.54	5.28	
10	5.26	5.45	5.56	5.41	6.82	8.17	9.75	8.67	6.82	5.88	5.52	5.29	
11	5.26	5.58	5.66	5.64	7.01	7.88	9.86	9.01	6.79	5.85	5.51	5.32	
12	5.24	5.79	5.64	5.69	7.08	7.61	9.97	9.20	6.83	5.82	5.48	5.30	
13	5.24	6.04	5.64	5.71	7.31	7.33	10.08	9.30	6.75	5.80	5.47	5.28	
14	5.23	6.09	5.69	5.70	7.28	7.06	10.14	9.34	6.62	5.78	5.47	5.28	
15	5.23	5.94	5.75	5.64	7.11	6.90	10.14	9.35	6.52	5.75	5.44	5.33	
16	5.22	5.94	5.72	5.56	6.89	6.81	10.14	9.49	6.45	5.74	5.43	5.37	
17	5.23	5.81	5.67	5.47	6.65	6.75	10.10	9.75	6.44	5.71	5.42	5.42	
18	5.29	5.65	5.70	5.41	6.48	6.63	9.97	9.91	6.40	5.73	5.40	5.40	
19	5.41	5.59	5.74	5.41	6.60	6.54	9.79	9.98	6.33	5.71	5.38	5.41	
20	5.31	5.49	5.75	5.40	6.71	6.53	9.54	9.99	6.26	5.71	5.37	5.53	
21	5.27	5.42	5.70	5.40	6.67	6.54	9.36	9.99	6.20	5.72	5.40	5.67	
22	5.26	5.39	5.63	5.46	6.53	6.53	9.20	9.99	6.14	5.70	5.38	5.80	
23	5.24	5.38	5.59	5.45	6.43	6.62	8.81	9.94	6.10	5.66	5.36	5.80	
24	5.22	5.42	5.54	5.40	6.49	6.75	8.39	9.82	6.08	5.64	5.36	5.69	
25	5.21	5.41	5.49	5.36	6.59	6.85	8.12	9.59	6.06	5.64	5.35	5.59	
26	5.20	5.38	5.46	5.34	6.73	7.29	7.91	9.25	6.12	5.65	5.35	5.49	
27	5.19	5.42	5.44	5.34	7.04	7.53	7.85	8.97	6.49	5.64	5.34	5.41	
28	5.19	5.54	5.43	5.40	7.76	7.60	8.12	8.68	6.89	5.64	5.34	5.36	
29	5.18	5.48	5.45	5.57	8.87	7.64	8.69	8.32	7.01	5.72		5.34	
30	5.18	5.41	5.43	5.82	9.29	7.79	8.94	8.00	6.78	5.71		5.31	
31		5.38		6.20	9.48		8.98		6.56	5.95		5.31	
Mean	5.25	5.51	5.56	5.48	6.93	7.71	9.15	9.30	6.67	5.86	5.49	5.40	
Max	5.41	6.09	5.75	6.20	9.48	9.54	10.14	9.99	7.83	6.49	5.87	5.80	10.14
Min	5.18	5.18	5.39	5.29	6.08	6.53	7.76	8.00	6.06	5.64	5.34	5.28	5.18

Annual Max Momentary Gage Height 10.15 M (MSL), at 14.00 Hours, on Oct 14, 1992
Zero Gage at Bottom Elevation 4.80 M (MSL), River Bed 3.62 M (MSL)
Left Bank Elevation 10.28 M (MSL)
Right Bank Elevation 10.83 M (MSL), Drainage Area 5200 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.00	8.50	14.70	15.60	59.18	251.90	127.80	212.00	131.80	61.94	33.42	14.40	
2	11.70	9.30	16.80	14.70	64.24	241.70	133.00	216.50	120.65	59.64	27.90	13.50	
3	12.00	10.20	17.10	13.80	62.40	229.60	156.60	236.80	108.00	55.04	24.68	13.20	
4	12.00	11.10	16.50	13.20	50.90	227.20	178.88	252.75	96.46	49.98	22.84	12.60	
5	11.40	12.90	15.60	12.30	43.08	228.00	209.00	251.90	87.28	45.84	24.22	12.00	
6	10.80	15.30	16.20	12.00	44.46	220.25	237.60	237.60	80.70	42.62	21.92	11.70	
7	10.50	13.20	17.40	12.00	51.82	206.00	251.90	216.50	75.74	40.32	20.70	11.40	
8	10.20	13.50	18.00	11.70	58.26	189.86	261.75	196.25	72.06	38.02	19.80	11.70	
9	10.20	12.90	18.90	12.30	61.94	172.28	264.60	181.58	72.98	35.72	19.20	11.40	
10	10.80	16.50	19.80	15.30	77.20	152.20	271.25	185.03	77.20	33.88	18.60	11.70	
11	10.80	20.40	23.76	22.84	86.74	134.80	282.90	209.75	75.74	32.50	18.30	12.60	
12	10.20	29.74	22.84	25.14	90.52	119.55	295.55	224.00	77.70	31.12	17.40	12.00	
13	10.20	41.24	22.84	26.06	103.05	104.15	308.20	232.00	73.90	30.20	17.10	11.40	
14	9.90	43.54	25.14	25.60	101.40	89.44	315.10	235.20	67.92	29.28	17.10	11.40	
15	9.90	36.64	27.90	22.84	92.14	81.20	315.10	236.00	63.32	27.90	16.20	12.90	
16	9.60	36.64	26.52	19.80	80.70	76.70	315.10	247.65	60.10	27.44	15.90	14.10	
17	9.90	30.66	24.22	17.10	69.30	73.90	310.50	271.25	59.64	26.06	15.60	15.60	
18	11.70	23.30	25.60	15.30	61.48	68.38	295.55	288.65	57.80	26.98	15.00	15.00	
19	15.30	20.70	27.44	15.30	67.00	64.24	275.05	296.70	54.58	26.06	14.40	15.30	
20	12.30	17.70	27.90	15.00	72.06	63.78	251.90	297.85	51.36	26.06	14.10	18.90	
21	11.10	15.60	25.60	15.00	70.22	64.24	236.80	297.85	48.60	26.52	15.00	24.22	
22	10.80	14.70	22.38	16.80	63.78	63.78	224.00	297.85	45.84	25.60	14.40	30.20	
23	10.20	14.40	20.70	16.50	59.18	67.92	194.75	292.10	44.00	23.76	13.80	30.20	
24	9.60	15.60	19.20	15.00	61.94	73.90	166.35	278.30	43.08	22.84	13.80	25.14	
25	9.30	15.30	17.70	13.80	66.54	78.70	149.20	256.15	42.16	22.84	13.50	20.70	
26	9.00	14.40	16.80	13.20	72.98	101.95	136.60	228.00	44.92	23.30	13.50	17.70	
27	8.75	15.60	16.20	13.20	88.36	115.15	133.00	206.75	61.94	22.84	13.20	15.30	
28	8.75	19.20	15.90	15.00	127.80	119.00	149.20	185.72	80.70	22.84	13.20	13.80	
29	8.50	17.40	16.50	20.10	199.25	121.20	186.41	161.80	86.74	26.52		13.20	
30	8.50	15.30	15.90	31.12	231.20	129.45	204.50	142.00	75.28	26.06		12.30	
31		14.40		48.60	246.80		207.50		65.16	37.10		12.30	
Total	315.90	595.86	612.04	556.20	2685.92	3930.42	7045.64	7072.48	2203.35	1026.82	504.78	477.86	27027.27 CMSDAY
Mean	10.53	19.22	20.40	17.94	86.64	131.01	227.28	235.75	71.08	33.12	18.03	15.41	74.05 CMS
Max	15.30	43.54	27.90	48.60	246.80	251.90	315.10	297.85	131.80	61.94	33.42	30.20	315.10 CMS
Min	8.50	8.50	14.70	11.70	43.08	63.78	127.80	142.00	42.16	22.84	13.20	11.40	8.50 CMS
Runoff	27.294	51.482	52.880	48.056	232.064	339.588	608.743	611.062	190.369	88.717	43.613	41.287	2335.156 MCM

Momentary Peak 316.25 CMS, at 10.15 M (MSL), at 14.00 Hours, on Oct 14, 1992
Runoff Yield 14.24 Liters/Second/Square KM, Momentary Peak Yield 60.82 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENNINSULA EAST COAST

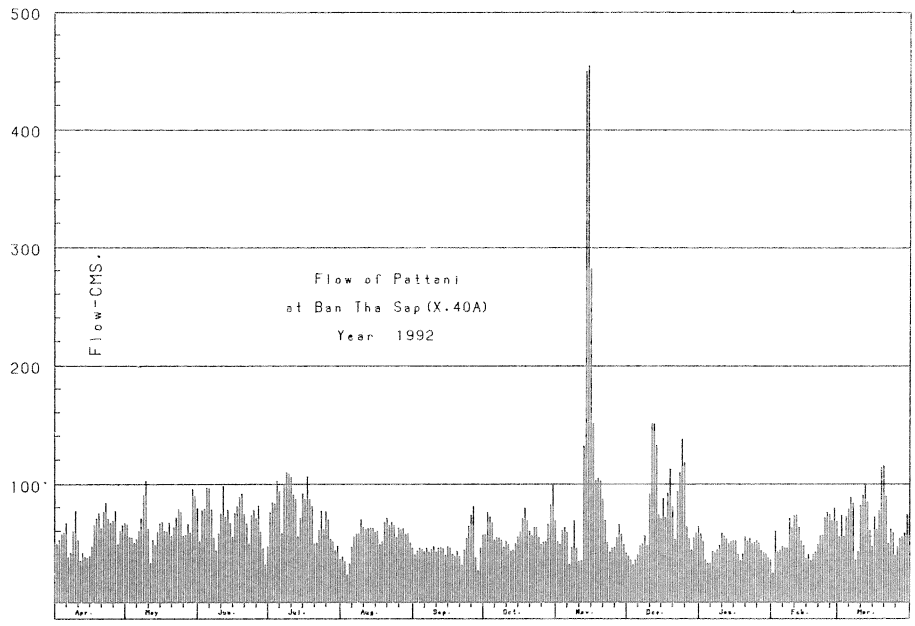
Pattani River at Ban Tha Sap, Yala (X.40A)

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	3,302 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. Stage-discharge relation defined by 76 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.26	2.50	2.30	2.63	2.08	2.11	2.38	2.29	2.09	2.39	1.82	2.35	
2	2.31	2.35	2.65	2.74	2.01	2.16	2.63	2.26	2.03	2.30	2.42	2.60	
3	2.39	2.34	2.67	2.72	1.78	2.21	2.59	2.43	1.96	2.03	2.15	2.36	
4	2.40	2.28	2.88	2.95	1.98	2.18	2.52	2.47	2.03	1.99	2.17	2.58	
5	2.52	2.32	2.88	2.85	2.22	2.16	2.32	2.41	2.11	1.98	2.23	2.67	
6	2.07	2.43	2.66	2.40	2.35	2.20	2.34	1.97	2.23	2.16	2.20	2.79	
7	2.14	2.57	2.34	2.91	2.39	2.15	2.34	2.21	2.26	2.13	2.21	2.73	
8	2.42	2.81	2.17	3.03	2.39	2.18	2.31	2.54	2.37	2.18	2.57	2.03	
9	2.65	2.95	2.39	3.01	2.56	2.23	2.22	2.20	2.24	2.24	2.46	2.16	
10	2.32	2.45	2.62	2.98	2.47	2.15	2.30	2.01	2.82	2.40	2.60	2.71	
11	2.02	1.99	2.90	2.82	2.44	2.20	2.25	2.02	3.45	2.36	2.60	2.81	
12	2.13	2.31	2.58	2.77	2.46	2.21	2.16	3.27	3.45	2.33	2.47	2.91	
13	2.08	2.24	2.66	2.36	2.46	2.20	2.17	5.58	3.27	2.26	2.30	2.74	
14	2.06	2.42	2.52	2.57	2.46	2.10	2.27	5.61	2.61	2.30	2.24	2.43	
15	2.09	2.51	2.35	2.83	2.41	2.23	2.35	4.52	2.56	2.30	2.05	2.22	
16	2.23	2.53	2.62	2.77	2.42	2.20	2.41	3.45	2.78	2.31	2.11	2.58	
17	2.49	2.42	2.70	2.99	2.26	2.12	2.57	2.95	2.58	2.11	2.03	2.44	
18	2.57	2.42	2.79	2.77	2.29	2.08	2.68	2.97	2.83	2.03	2.11	2.65	
19	2.62	2.52	2.83	2.70	2.53	2.16	2.54	2.95	3.06	2.12	2.15	3.07	
20	2.46	2.36	2.61	2.26	2.57	2.08	2.42	2.77	2.69	2.35	2.25	3.09	
21	2.64	2.47	2.51	2.28	2.49	1.95	2.37	2.55	2.32	2.30	2.37	2.80	
22	2.73	2.58	2.27	2.43	2.53	2.18	2.47	2.28	2.85	2.34	2.37	2.27	
23	2.56	2.66	2.60	2.65	2.49	2.34	2.46	2.15	3.02	2.27	2.58	2.45	
24	2.52	2.63	2.66	2.44	2.35	2.48	2.35	2.20	3.33	2.28	2.63	2.40	
25	2.54	2.37	2.57	2.64	2.46	2.60	2.25	2.22	3.12	2.31	2.61	2.10	
26	2.65	2.37	2.70	2.56	2.44	2.70	2.28	2.34	2.48	2.27	2.54	2.22	
27	2.26	2.51	2.41	2.33	2.46	2.06	2.30	2.50	2.33	2.17	2.68	2.34	
28	2.42	2.40	2.20	2.29	2.39	1.86	2.51	2.39	2.18	2.13	2.54	2.35	
29	2.49	2.87	1.96	2.17	2.39	2.21	2.71	2.26	2.34	2.12		2.40	
30	2.52	2.80	2.22	2.23	2.28	2.38	2.91	2.13	2.40	2.06		2.61	
31		2.68		2.04	2.20		2.54		2.48	2.03		2.88	
Mean	2.39	2.49	2.54	2.62	2.36	2.20	2.42	2.73	2.59	2.21	2.34	2.54	
Max	2.73	2.95	2.90	3.03	2.57	2.70	2.91	5.61	3.45	2.40	2.68	3.09	5.61
Min	2.02	1.99	1.96	2.04	1.78	1.86	2.16	1.97	1.96	1.98	1.82	2.03	1.78

Annual Max Momentary Gage Height 5.90 M (A.D), at 23.00 Hours, on Nov 13, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.37 M (A.D)
Left Bank Elevation 9.36 M (A.D)
Right Bank Elevation 8.64 M (A.D), Drainage Area 3302 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.60	66.00	52.00	76.40	38.80	40.60	57.60	51.40	39.40	58.30	25.00	55.50	
2	52.70	55.50	78.00	85.20	34.60	43.60	76.40	49.60	35.80	52.00	60.40	74.00	
3	58.30	54.80	79.60	83.60	23.20	46.60	73.20	61.10	32.00	35.80	43.00	56.20	
4	59.00	50.80	97.20	103.50	33.00	44.80	67.60	63.90	35.80	33.50	44.20	72.40	
5	67.60	53.40	97.20	94.50	47.20	43.60	53.40	59.70	40.60	33.00	47.80	79.60	
6	38.20	61.10	78.80	59.00	55.50	46.00	54.80	32.50	47.80	43.60	46.00	89.20	
7	42.40	71.60	54.80	99.90	58.30	43.00	54.80	46.60	49.60	41.80	46.60	84.40	
8	60.40	90.90	44.20	110.70	58.30	44.80	52.70	69.20	56.90	44.80	71.60	35.80	
9	78.00	103.50	58.30	108.90	70.80	47.80	47.20	46.00	48.40	48.40	63.20	43.60	
10	53.40	62.50	75.60	106.20	63.90	43.00	52.00	34.60	91.80	59.00	74.00	82.80	
11	35.20	33.50	99.00	91.80	61.80	46.00	49.00	35.20	151.50	56.20	74.00	90.90	
12	41.80	52.70	72.40	87.60	63.20	46.60	43.60	133.00	151.50	54.10	63.90	99.90	
13	38.80	48.40	78.80	56.20	63.20	46.00	44.20	449.60	133.00	49.60	52.00	85.20	
14	37.60	60.40	67.60	71.60	63.20	40.00	50.20	454.70	74.80	52.00	48.40	61.10	
15	39.40	66.80	55.50	92.70	59.70	47.80	55.50	282.80	70.80	52.00	37.00	47.20	
16	47.80	68.40	75.60	87.60	60.40	46.00	59.70	151.50	88.40	52.70	40.60	72.40	
17	65.30	60.40	82.00	107.10	49.60	41.20	71.60	103.50	72.40	40.60	35.80	61.80	
18	71.60	60.40	89.20	87.60	51.40	38.80	80.40	105.30	92.70	35.80	40.60	78.00	
19	75.60	67.60	92.70	82.00	68.40	43.60	69.20	103.50	113.40	41.20	43.00	114.30	
20	63.20	56.20	74.80	49.60	71.60	38.80	60.40	87.60	81.20	55.50	49.00	116.10	
21	77.20	63.90	66.80	50.80	65.30	31.50	56.90	70.00	53.40	52.00	56.90	90.00	
22	84.40	72.40	50.20	61.10	68.40	44.80	63.90	50.80	94.50	54.80	56.90	50.20	
23	70.80	78.80	74.00	78.00	65.30	54.80	63.20	43.00	109.80	50.20	72.40	62.50	
24	67.60	76.40	78.80	61.80	55.50	64.60	55.50	46.00	139.00	50.80	76.40	59.00	
25	69.20	56.90	71.60	77.20	63.20	74.00	49.00	47.20	118.80	52.70	74.80	40.00	
26	78.00	56.90	82.00	70.80	61.80	82.00	50.80	54.80	64.60	50.20	69.20	47.20	
27	49.60	66.80	59.70	54.10	63.20	37.60	52.00	66.00	54.10	44.20	80.40	54.80	
28	60.40	59.00	46.00	51.40	58.30	27.00	66.80	58.30	44.80	41.80	69.20	55.50	
29	65.30	96.30	32.00	44.20	58.30	46.60	82.80	49.60	54.80	41.20		59.00	
30	67.60	90.00	47.20	47.80	50.80	57.60	99.90	41.80	59.00	37.60		74.80	
31		80.40		36.40	46.00		69.20		64.60	35.80		97.20	
Total	1766.00	2042.70	2111.60	2375.30	1752.20	1399.10	1883.50	2948.80	2365.20	1451.20	1562.30	2190.60	23848.50 CMSDAY
Mean	58.87	65.89	70.39	76.62	56.52	46.64	60.76	98.29	76.30	46.81	55.80	70.66	65.34 CMS
Max	84.40	103.50	99.00	110.70	71.60	82.00	99.90	454.70	151.50	59.00	80.40	116.10	454.70 CMS
Min	35.20	33.50	32.00	36.40	23.20	27.00	43.60	32.50	32.00	33.00	25.00	35.80	23.20 CMS
Runoff	152.582	176.489	182.442	205.226	151.390	120.882	162.734	254.776	204.353	125.384	134.983	189.268	2060.511 MCM

Momentary Peak 508.00 CMS, at 5.90 M (A.D), at 23.00 Hours, on Nov 13, 1992
Runoff Yield 19.79 Liters/Second/Square KM, Momentary Peak Yield 153.85 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Sai Buri River at Ban Ya Kong, Narathiwat (X.45)

Location — Lat. 6-19-25 N., Long. 100-30-31 E., on right bank about 7 kilometers from Amphoe Ruso, Narathiwat.

Drainage Area — 1,493. sq.km.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — Infront of the automatic gage building.

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 — Fairly stable.

Overbank Flow Conditions — Overbank flow starts at elevation +6.85 m.(A.D.), records are channel flow only.

General Description — Records good. Stage-discharge relation defined by 64 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

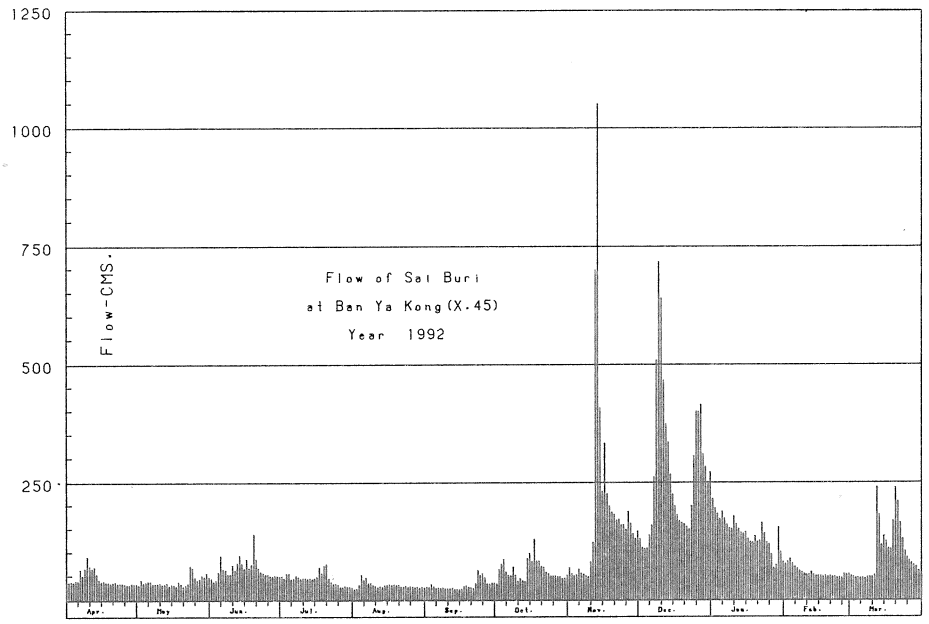
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.97	0.88	1.07	1.13	0.73	0.80	0.93	1.34	1.88	2.49	1.42	1.16	
2	0.98	1.03	1.00	1.09	0.73	0.81	1.29	1.20	1.74	2.35	1.46	1.12	
3	0.98	0.96	1.02	1.20	0.89	0.89	1.42	1.16	1.71	2.27	1.53	1.11	
4	1.01	0.96	1.24	1.22	1.17	0.84	1.51	1.17	1.73	2.20	1.42	1.10	
5	1.02	1.01	1.59	1.07	1.05	0.78	1.25	1.31	1.94	2.31	1.36	1.10	
6	1.29	0.99	1.29	1.07	1.10	0.77	1.16	1.21	2.10	2.20	1.31	1.09	
7	1.16	0.92	1.29	1.16	0.95	0.78	1.16	1.20	2.76	2.11	1.27	1.09	
8	1.31	0.90	1.18	1.11	0.94	0.78	1.36	1.14	4.03	2.05	1.23	1.11	
9	1.58	0.93	1.19	1.08	0.88	0.76	1.16	1.14	4.89	2.05	1.21	1.13	
10	1.36	0.93	1.38	1.08	0.83	0.74	1.00	1.45	4.59	2.24	1.18	1.13	
11	1.31	0.90	1.27	1.08	0.80	0.76	1.09	1.83	3.83	2.11	1.18	1.16	
12	1.34	0.91	1.44	1.08	0.82	0.76	1.03	4.82	3.37	2.05	1.25	2.64	
13	1.20	0.94	1.59	1.08	0.81	0.74	0.99	5.99	3.18	1.98	1.17	2.25	
14	1.04	0.86	1.43	1.07	0.86	0.72	1.54	3.54	2.80	1.97	1.15	1.79	
15	1.00	0.88	1.32	1.09	0.89	0.72	1.63	2.58	2.55	1.99	1.14	1.92	
16	1.00	0.87	1.51	1.12	0.89	0.73	1.46	3.17	2.38	1.88	1.14	1.84	
17	0.98	0.84	1.32	1.35	0.88	0.84	1.88	2.56	2.25	1.83	1.14	1.73	
18	0.96	0.98	1.41	1.21	0.88	0.84	1.48	2.38	2.17	1.82	1.15	1.70	
19	0.94	0.91	1.97	1.37	0.88	0.82	1.47	2.30	2.13	1.92	1.14	2.17	
20	0.96	0.81	1.51	1.42	0.87	0.78	1.37	2.26	2.12	1.84	1.14	2.63	
21	0.98	0.85	1.32	1.09	0.83	0.75	1.34	2.17	2.07	1.85	1.13	2.45	
22	0.93	0.94	1.25	0.97	0.82	0.95	1.24	2.19	2.04	2.14	1.12	2.13	
23	0.92	1.38	1.21	0.92	0.83	1.28	1.20	2.11	2.39	1.98	1.11	1.89	
24	0.92	1.32	1.19	0.91	0.81	1.17	1.15	2.10	3.01	1.82	1.10	1.67	
25	0.90	1.11	1.17	0.88	0.82	1.20	1.15	2.04	3.51	1.80	1.10	1.56	
26	0.89	1.02	1.15	0.81	0.81	1.10	1.14	2.30	3.50	1.62	1.19	1.48	
27	0.86	1.07	1.14	0.81	0.81	0.94	1.13	2.13	3.58	1.33	1.19	1.44	
28	0.92	1.15	1.14	0.83	0.80	0.90	1.12	1.96	3.03	1.38	1.19	1.38	
29	0.90	1.13	1.15	0.83	0.79	0.96	1.08	1.89	2.89	2.07		1.36	
30	0.90	1.21	1.12	0.80	0.80	0.94	1.08	2.00	2.70	1.65		1.26	
31		1.12		0.78	0.79		1.16		2.82	1.45		1.16	
Mean	1.05	0.99	1.30	1.06	0.86	0.86	1.26	2.15	2.76	1.96	1.22	1.57	
Max	1.58	1.38	1.97	1.42	1.17	1.28	1.88	5.99	4.89	2.49	1.53	2.64	5.99
Min	0.86	0.81	1.00	0.78	0.73	0.72	0.93	1.14	1.71	1.33	1.10	1.09	0.72

Annual Max Momentary Gage Height — 7.09 M (A.D), at 21.00 Hours, on Nov 12, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -2.65 M (A.D)

Left Bank Elevation — 6.84 M (A.D)

Right Bank Elevation — 8.41 M (A.D), Drainage Area 1493 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.20	32.80	45.60	50.40	23.80	28.00	35.80	70.00	130.40	216.50	78.00	52.80	
2	38.80	42.40	40.00	47.20	23.80	28.60	65.00	56.00	112.80	195.50	82.00	49.60	
3	38.80	37.60	41.60	56.00	33.40	33.40	78.00	52.80	109.20	183.80	89.00	48.80	
4	40.80	37.60	60.00	58.00	53.60	30.40	87.00	53.60	111.60	174.00	78.00	48.00	
5	41.60	40.80	95.00	45.60	44.00	26.80	61.00	67.00	138.20	189.50	72.00	48.00	
6	65.00	39.40	65.00	45.60	48.00	26.20	52.80	57.00	160.00	174.00	67.00	47.20	
7	52.80	35.20	65.00	52.80	37.00	26.80	52.80	56.00	261.20	161.40	63.00	47.20	
8	67.00	34.00	54.40	48.80	36.40	26.80	72.00	51.20	510.90	153.00	59.00	48.80	
9	94.00	35.80	55.20	46.40	32.80	25.60	52.80	51.20	717.40	153.00	57.00	50.40	
10	72.00	35.80	74.00	46.40	29.80	24.40	40.00	81.00	641.60	179.60	54.40	50.40	
11	67.00	34.00	63.00	46.40	28.00	25.60	47.20	123.90	466.60	161.40	54.40	52.80	
12	70.00	34.60	80.00	46.40	29.20	25.60	42.40	699.20	374.00	153.00	61.00	240.80	
13	56.00	36.40	95.00	46.40	28.60	24.40	39.40	1052.40	336.40	143.40	53.60	181.00	
14	43.20	31.60	79.00	45.60	31.60	23.20	90.00	408.00	268.00	142.10	52.00	118.80	
15	40.00	32.80	68.00	47.20	33.40	23.20	99.60	230.80	226.00	144.70	51.20	135.60	
16	40.00	32.20	87.00	49.60	33.40	23.80	82.00	334.60	200.00	130.40	51.20	125.20	
17	38.80	30.40	68.00	71.00	32.80	30.40	130.40	227.60	181.00	123.90	51.20	111.60	
18	37.60	38.80	77.00	57.00	32.80	30.40	84.00	200.00	169.80	122.60	52.00	108.00	
19	36.40	34.60	142.10	73.00	32.80	29.20	83.00	188.00	164.20	135.60	51.20	169.80	
20	37.60	28.60	87.00	78.00	32.20	26.80	73.00	182.40	162.80	125.20	51.20	239.10	
21	38.80	31.00	68.00	47.20	29.80	25.00	70.00	169.80	155.80	126.50	50.40	210.50	
22	35.80	36.40	61.00	38.20	29.20	37.00	60.00	172.60	151.60	165.60	49.60	164.20	
23	35.20	74.00	57.00	35.20	29.80	64.00	56.00	161.40	201.50	143.40	48.80	131.70	
24	35.20	68.00	55.20	34.60	28.60	53.60	52.00	160.00	305.80	122.60	48.00	104.40	
25	34.00	48.80	53.60	32.80	29.20	56.00	52.00	151.60	402.00	120.00	48.00	92.00	
26	33.40	41.60	52.00	28.60	28.60	48.00	51.20	188.00	400.00	98.40	55.20	84.00	
27	31.60	45.60	51.20	28.60	28.60	36.40	50.40	164.20	416.00	69.00	55.20	80.00	
28	35.20	52.00	51.20	29.80	28.00	34.00	49.60	140.80	309.40	74.00	55.20	74.00	
29	34.00	50.40	52.00	29.80	27.40	37.60	46.40	131.70	284.20	155.80		72.00	
30	34.00	57.00	49.60	28.00	28.00	36.40	46.40	146.00	251.00	102.00		62.00	
31		49.60		26.80	27.40		52.80		271.60	81.00		52.80	
Total	1362.80	1259.80	1992.70	1417.40	992.00	967.60	1955.00	5828.80	8591.00	4420.90	1638.80	3101.50	33528.30 CMSDAY
Mean	45.43	40.64	66.42	45.72	32.00	32.25	63.06	194.29	277.13	142.61	58.53	100.05	91.86 CMS
Max	94.00	74.00	142.10	78.00	53.60	64.00	130.40	1052.40	717.40	216.50	89.00	240.80	1052.40 CMS
Min	31.60	28.60	40.00	26.80	23.80	23.20	35.80	51.20	109.20	69.00	48.00	47.20	23.20 CMS
Runoff	117.746	108.847	172.169	122.463	85.709	83.601	168.912	503.608	742.262	381.966	141.592	267.970	2896.845 MCM

Momentary Peak 1554.40 CMS, at 7.09 M (A.D), at 21.00 Hours, on Nov 12, 1992
Runoff Yield 61.53 Liters/Second/Square KM, Momentary Peak Yield 1041.13 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

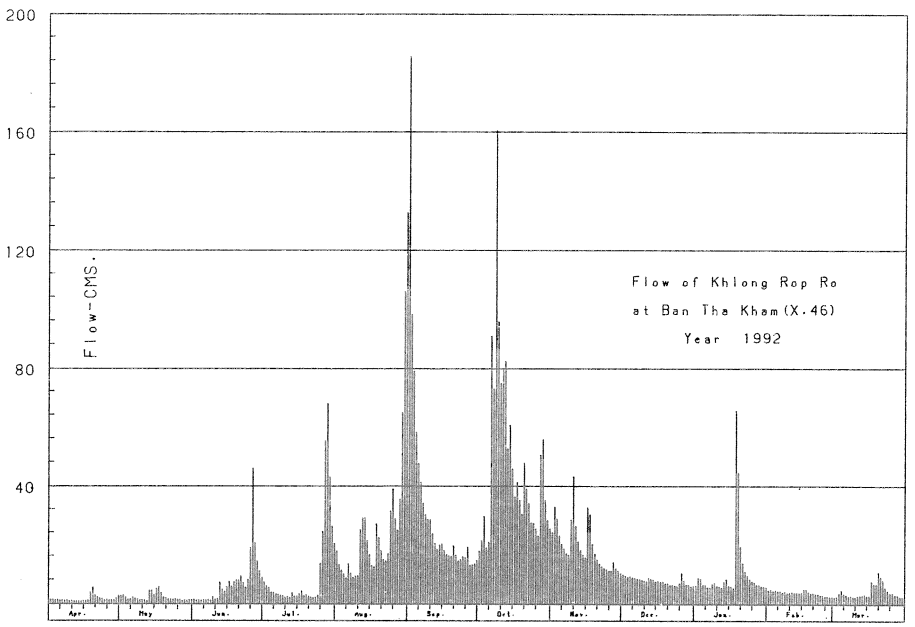
Khlong Rap Ro at Ban Tha Kham, Chumphon (X.46)

Location	Lat. 10°-36'-47" N., Long. 99°-07'-07" E., on left bank about 10 kilometers downstream from X.46A station at Ban Hat Taeng, Amphoe Tha Sae, Chumphon.
Drainage Area	751 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank near the autometic gage building.
Elevation	+5.913 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1971 to date.
Rating Operation	
Period of Rating	1976, 1985 to date.
Rated by Float	-
Rated by Current Meter	1976, 1985 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 43 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.45	0.35	0.72	1.17	4.38	1.17	1.37	0.87	0.66	0.58	0.43	
2	0.35	0.47	0.34	0.66	1.01	2.98	1.28	1.63	0.84	0.81	0.58	0.43	
3	0.35	0.42	0.33	0.62	0.94	2.63	1.54	1.51	0.83	0.79	0.57	0.52	
4	0.35	0.38	0.34	0.54	0.87	2.21	1.20	1.34	0.83	0.69	0.57	0.57	
5	0.34	0.38	0.33	0.52	0.81	1.98	1.27	1.25	0.82	0.67	0.56	0.50	
6	0.33	0.42	0.35	0.50	1.02	1.83	2.85	1.19	0.80	0.64	0.55	0.47	
7	0.33	0.40	0.35	0.48	0.88	1.66	2.51	1.14	0.80	0.62	0.54	0.45	
8	0.33	0.36	0.34	0.47	0.82	1.55	4.01	1.12	0.78	0.70	0.54	0.45	
9	0.32	0.35	0.42	0.45	0.83	1.51	2.94	1.50	0.77	0.71	0.53	0.44	
10	0.31	0.34	0.37	0.43	0.85	1.50	2.55	1.88	0.75	0.66	0.53	0.44	
11	0.31	0.33	0.38	0.43	1.40	1.36	2.65	1.44	0.75	0.64	0.53	0.45	
12	0.30	0.32	0.73	0.42	1.52	1.25	2.69	1.27	0.80	0.63	0.53	0.47	
13	0.30	0.57	0.58	0.51	1.52	1.19	2.09	1.18	0.79	0.73	0.52	0.46	
14	0.31	0.56	0.55	0.45	1.28	1.23	2.26	1.12	0.77	0.78	0.52	0.48	
15	0.31	0.48	0.63	0.44	1.13	1.25	1.94	1.09	0.75	0.66	0.52	0.46	
16	0.31	0.60	0.73	0.50	1.00	1.17	1.71	1.62	0.74	0.64	0.59	0.45	
17	0.34	0.64	0.65	0.55	0.99	1.13	1.83	1.56	0.74	0.62	0.60	0.75	
18	0.52	0.51	0.74	0.46	1.46	1.11	1.68	1.25	0.73	2.36	0.53	0.69	
19	0.63	0.43	0.76	0.47	1.32	1.11	1.56	1.14	0.71	1.91	0.52	0.70	
20	0.47	0.40	0.76	0.45	1.17	1.23	1.98	1.07	0.70	1.22	0.51	0.90	
21	0.42	0.38	0.84	0.42	1.07	1.12	1.78	1.03	0.68	1.03	0.50	0.83	
22	0.41	0.37	0.71	0.42	1.06	1.06	1.66	0.99	0.67	0.92	0.49	0.76	
23	0.38	0.37	0.63	0.42	1.14	1.07	1.47	0.97	0.67	0.84	0.48	0.63	
24	0.35	0.37	0.78	0.47	1.59	1.11	1.47	0.94	0.65	0.79	0.46	0.56	
25	0.35	0.37	1.20	1.03	1.78	1.09	1.41	0.93	0.72	0.75	0.45	0.52	
26	0.34	0.35	1.94	1.38	1.51	1.21	1.34	0.93	0.89	0.72	0.44	0.51	
27	0.34	0.33	1.26	2.15	1.40	1.01	2.04	1.04	0.75	0.69	0.44	0.48	
28	0.35	0.33	1.06	2.41	1.69	1.01	2.16	0.97	0.69	0.67	0.43	0.46	
29	0.40	0.33	0.92	1.87	2.35	1.03	1.68	0.92	0.67	0.66		0.44	
30	0.46	0.34	0.82	1.44	3.11	1.06	1.50	0.88	0.65	0.64		0.42	
31		0.36		1.25	3.56		1.41		0.65	0.63		0.41	
Mean	0.37	0.41	0.67	0.75	1.36	1.50	1.92	1.21	0.75	0.82	0.52	0.53	
Max	0.63	0.64	1.94	2.41	3.56	4.38	4.01	1.88	0.89	2.36	0.60	0.90	4.38
Min	0.30	0.32	0.33	0.42	0.81	1.01	1.17	0.88	0.65	0.62	0.43	0.41	0.30

Annual Max Momentary Gage Height 4.78 M (A.D), at 6.00 Hours, on Sep 1, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.61 M (A.D)
Left Bank Elevation 10.93 M (A.D)
Right Bank Elevation 10.65 M (A.D), Drainage Area 751 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.70	2.80	1.50	7.36	18.10	185.62	18.10	24.27	10.20	6.28	4.88	2.48	
2	1.50	3.12	1.40	6.28	13.30	98.26	21.48	33.20	9.60	9.00	4.88	2.48	
3	1.50	2.32	1.30	5.56	11.68	79.16	29.96	28.94	9.40	8.62	4.72	3.92	
4	1.50	1.80	1.40	4.24	10.20	58.29	19.00	23.34	9.40	6.82	4.72	4.72	
5	1.40	1.80	1.30	3.92	9.00	47.92	21.17	20.55	9.20	6.46	4.56	3.60	
6	1.30	2.32	1.50	3.60	13.60	41.32	90.85	18.70	8.80	5.92	4.40	3.12	
7	1.30	2.00	1.50	3.28	10.40	34.40	73.10	17.20	8.80	5.56	4.24	2.80	
8	1.30	1.60	1.40	3.12	9.20	30.30	160.66	16.60	8.44	7.00	4.24	2.80	
9	1.20	1.50	2.32	2.80	9.40	28.94	95.98	28.60	8.26	7.18	4.08	2.64	
10	1.10	1.40	1.70	2.48	9.80	28.60	75.10	43.52	7.90	6.28	4.08	2.64	
11	1.10	1.30	1.80	2.48	25.20	23.96	80.20	26.56	7.90	5.92	4.08	2.80	
12	1.00	1.20	7.54	2.32	29.28	20.55	82.28	21.17	8.80	5.74	4.08	3.12	
13	1.00	4.72	4.88	3.76	29.28	18.70	52.85	18.40	8.62	7.54	3.92	2.96	
14	1.10	4.56	4.40	2.80	21.48	19.93	60.74	16.60	8.26	8.44	3.92	3.28	
15	1.10	3.28	5.74	2.64	16.90	20.55	46.16	15.70	7.90	6.28	3.92	2.96	
16	1.10	5.20	7.54	3.60	13.00	18.10	36.40	32.80	7.72	5.92	5.04	2.80	
17	1.40	5.92	6.10	4.40	12.78	16.90	41.32	30.64	7.72	5.56	5.20	7.90	
18	3.92	3.76	7.72	2.96	27.24	16.30	35.20	20.55	7.54	65.64	4.08	6.82	
19	5.74	2.48	8.08	3.12	22.72	16.30	30.64	17.20	7.18	44.84	3.92	7.00	
20	3.12	2.00	8.08	2.80	18.10	19.93	47.92	15.10	7.00	19.62	3.76	10.80	
21	2.32	1.80	9.60	2.32	15.10	16.60	39.20	13.90	6.64	13.90	3.60	9.40	
22	2.16	1.70	7.18	2.32	14.80	14.80	34.40	12.78	6.46	11.24	3.44	8.08	
23	1.80	1.70	5.74	2.32	17.20	15.10	27.58	12.34	6.46	9.60	3.28	5.74	
24	1.50	1.70	8.44	3.12	31.66	16.30	27.58	11.68	6.10	8.62	2.96	4.56	
25	1.50	1.70	19.00	13.90	39.20	15.70	25.54	11.46	7.36	7.90	2.80	3.92	
26	1.40	1.50	46.16	24.58	28.94	19.31	23.34	11.46	10.60	7.36	2.64	3.76	
27	1.40	1.30	20.86	55.55	25.20	13.30	50.60	14.20	7.90	6.82	2.64	3.28	
28	1.50	1.30	14.80	68.10	35.60	13.30	56.00	12.34	6.82	6.46	2.48	2.96	
29	2.00	1.30	11.24	43.08	65.15	13.90	35.20	11.24	6.46	6.28		2.64	
30	2.96	1.40	9.20	26.56	106.00	14.80	28.60	10.40	6.10	5.92		2.32	
31		1.60		20.55	133.00		25.54		6.10	5.74		2.16	
Total	52.92	72.08	229.42	335.92	842.51	977.14	1492.69	591.44	245.64	334.46	110.56	130.46	5415.24 CMSDAY
Mean	1.76	2.33	7.65	10.84	27.18	32.57	48.15	19.71	7.92	10.79	3.95	4.21	14.84 CMS
Max	5.74	5.92	46.16	68.10	133.00	185.62	160.66	43.52	10.60	65.64	5.20	10.80	185.62 CMS
Min	1.00	1.20	1.30	2.32	9.00	13.30	18.10	10.40	6.10	5.56	2.48	2.16	1.00 CMS
Runoff	4.572	6.228	19.822	29.023	72.793	84.425	128.968	51.100	21.223	28.897	9.552	11.272	467.877 MCM

Momentary Peak 213.78 CMS, at 4.78 M (A.D), at 6.00 Hours, on Sep 1, 1992
Runoff Yield 19.75 Liters/Second/Square KM, Momentary Peak Yield 284.66 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENNINSULA EAST COAST

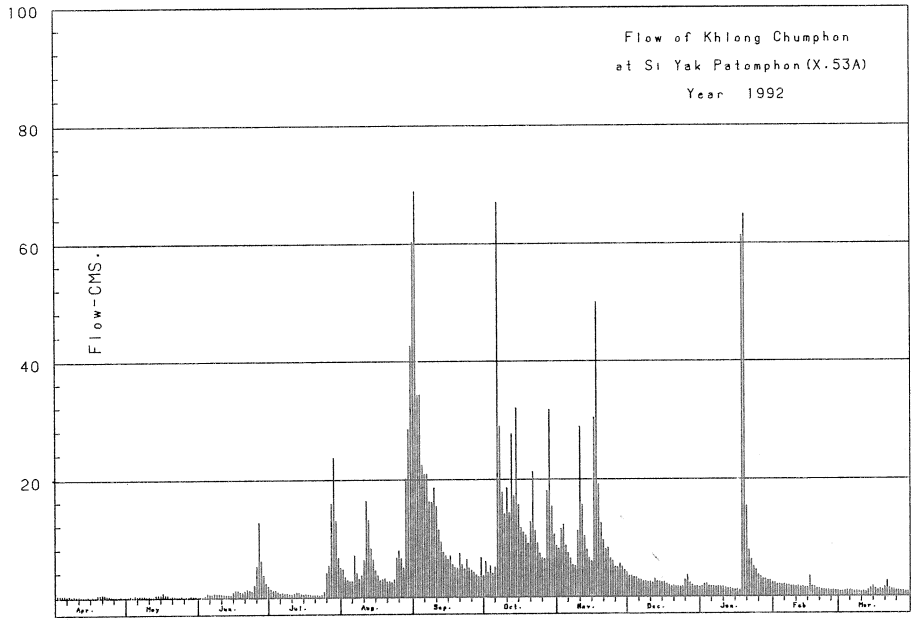
Khlong Chumphon at Ban Wang Phai, Chumphon (X.53A)

Location	Lat. 10°30'20" N., Long. 99°07'19" 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	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank about 3.30 meters from the top staff gage.
Elevation	+9.522 m.(A.D.)
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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.39	0.38	0.59	1.00	5.24	1.12	1.34	0.86	0.63	0.70	0.50	
2	0.42	0.40	0.38	0.56	0.84	3.35	0.93	1.63	0.85	0.69	0.68	0.49	
3	0.42	0.39	0.40	0.56	0.79	3.36	1.05	1.69	0.84	0.69	0.67	0.52	
4	0.42	0.42	0.48	0.52	0.75	2.51	0.92	1.40	0.82	0.65	0.67	0.52	
5	0.41	0.40	0.46	0.48	0.76	2.39	1.04	1.27	0.79	0.64	0.67	0.51	
6	0.41	0.40	0.44	0.48	1.24	2.40	5.16	1.17	0.77	0.63	0.66	0.51	
7	0.40	0.41	0.48	0.48	0.92	2.03	3.00	1.07	0.75	0.63	0.65	0.50	
8	0.40	0.41	0.46	0.47	0.81	2.01	2.15	1.04	0.74	0.63	0.64	0.50	
9	0.40	0.40	0.48	0.46	0.87	2.22	1.85	1.61	0.73	0.63	0.63	0.50	
10	0.40	0.39	0.45	0.44	1.15	1.95	2.22	2.99	0.73	0.62	0.63	0.49	
11	0.39	0.39	0.44	0.47	2.04	1.63	1.86	1.97	0.72	0.60	0.63	0.49	
12	0.39	0.39	0.44	0.51	1.76	1.45	2.91	1.53	0.79	0.59	0.62	0.49	
13	0.39	0.44	0.43	0.49	1.36	1.29	2.10	1.33	0.75	0.58	0.62	0.53	
14	0.39	0.43	0.44	0.47	1.16	1.22	3.21	1.18	0.73	0.57	0.61	0.59	
15	0.39	0.44	0.52	0.45	0.98	1.17	1.98	1.13	0.73	0.56	0.60	0.63	
16	0.39	0.49	0.55	0.45	0.87	1.22	1.65	3.10	0.72	0.55	0.85	0.57	
17	0.39	0.45	0.56	0.45	0.78	1.08	1.59	4.32	0.70	0.54	0.64	0.54	
18	0.43	0.42	0.51	0.43	0.79	1.02	1.54	2.26	0.66	4.90	0.62	0.56	
19	0.44	0.40	0.51	0.43	0.82	1.02	1.43	1.72	0.64	5.07	0.59	0.55	
20	0.45	0.40	0.54	0.42	0.74	1.27	1.73	1.47	0.65	1.96	0.57	0.61	
21	0.44	0.40	0.58	0.42	0.75	1.07	2.42	1.33	0.64	1.31	0.56	0.75	
22	0.42	0.39	0.58	0.42	0.74	1.01	1.61	1.36	0.63	1.16	0.54	0.58	
23	0.40	0.39	0.53	0.43	0.80	1.16	1.43	1.18	0.63	1.03	0.54	0.56	
24	0.39	0.40	0.69	0.52	1.19	1.01	1.27	1.13	0.63	0.98	0.53	0.55	
25	0.39	0.39	1.05	0.93	1.32	0.98	1.18	1.04	0.78	0.88	0.53	0.53	
26	0.39	0.39	1.74	1.06	1.18	0.93	1.17	1.02	0.87	0.83	0.52	0.51	
27	0.39	0.39	1.15	2.00	1.02	0.89	2.17	1.09	0.72	0.80	0.52	0.51	
28	0.39	0.40	0.88	2.61	2.34	0.84	3.19	1.03	0.66	0.78	0.51	0.50	
29	0.39	0.39	0.73	1.75	2.97	1.20	1.96	0.98	0.64	0.76		0.49	
30	0.38	0.39	0.65	1.20	3.89	0.87	1.56	0.92	0.63	0.75		0.48	
31		0.38		1.02	4.85		1.39		0.63	0.72		0.47	
Mean	0.40	0.41	0.60	0.71	1.34	1.66	1.90	1.54	0.72	1.04	0.61	0.53	
Max	0.45	0.49	1.74	2.61	4.85	5.24	5.16	4.32	0.87	5.07	0.85	0.75	5.24
Min	0.38	0.38	0.38	0.42	0.74	0.84	0.92	0.92	0.63	0.54	0.51	0.47	0.38

Annual Max Momentary Gage Height 6.40 M (A.D), at 18.00 Hours, on Jan 18, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.03 M (A.D)
Left Bank Elevation 9.69 M (A.D)
Right Bank Elevation 8.97 M (A.D), Drainage Area 305 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.24	0.18	1.44	4.80	68.96	6.00	8.20	3.61	1.74	2.30	0.90	
2	0.42	0.30	0.18	1.26	3.44	34.25	4.21	11.56	3.53	2.22	2.14	0.84	
3	0.42	0.24	0.30	1.26	3.02	34.40	5.30	12.28	3.44	2.22	2.06	1.02	
4	0.42	0.42	0.78	1.02	2.70	22.43	4.12	8.80	3.27	1.90	2.06	1.02	
5	0.36	0.30	0.66	0.78	2.78	20.87	5.20	7.50	3.02	1.82	2.06	0.96	
6	0.36	0.30	0.54	0.78	7.20	21.00	67.08	6.50	2.86	1.74	1.98	0.96	
7	0.30	0.36	0.78	0.78	4.12	16.36	29.00	5.50	2.70	1.74	1.90	0.90	
8	0.30	0.36	0.66	0.72	3.19	16.12	17.80	5.20	2.62	1.74	1.82	0.90	
9	0.30	0.30	0.78	0.66	3.70	18.66	14.20	11.32	2.54	1.74	1.74	0.90	
10	0.30	0.24	0.60	0.54	6.30	15.40	18.66	28.86	2.54	1.66	1.74	0.84	
11	0.24	0.24	0.54	0.72	16.48	11.56	14.32	15.64	2.46	1.50	1.74	0.84	
12	0.24	0.24	0.54	0.96	13.12	9.40	27.74	10.36	3.02	1.44	1.66	0.84	
13	0.24	0.54	0.48	0.84	8.40	7.70	17.20	8.10	2.70	1.38	1.66	1.08	
14	0.24	0.48	0.54	0.72	6.40	7.00	32.15	6.60	2.54	1.32	1.58	1.44	
15	0.24	0.54	1.02	0.60	4.63	6.50	15.76	6.10	2.54	1.26	1.50	1.74	
16	0.24	0.84	1.20	0.60	3.70	7.00	11.80	30.50	2.46	1.20	3.53	1.32	
17	0.24	0.60	1.26	0.60	2.94	5.60	11.08	49.96	2.30	1.14	1.82	1.14	
18	0.48	0.42	0.96	0.48	3.02	5.00	10.48	19.18	1.98	61.30	1.66	1.26	
19	0.54	0.30	0.96	0.48	3.27	5.00	9.16	12.64	1.82	65.01	1.44	1.20	
20	0.60	0.30	1.14	0.42	2.62	7.50	12.76	9.64	1.90	15.52	1.32	1.58	
21	0.54	0.30	1.38	0.42	2.70	5.50	21.26	8.10	1.82	7.90	1.26	2.70	
22	0.42	0.24	1.38	0.42	2.62	4.90	11.32	8.40	1.74	6.40	1.14	1.38	
23	0.30	0.24	1.08	0.48	3.10	6.40	9.16	6.60	1.74	5.10	1.14	1.26	
24	0.24	0.30	2.22	1.02	6.70	4.90	7.50	6.10	1.74	4.63	1.08	1.20	
25	0.24	0.24	5.30	4.21	8.00	4.63	6.60	5.20	2.94	3.78	1.08	1.08	
26	0.24	0.24	12.88	5.40	6.60	4.21	6.50	5.00	3.70	3.35	1.02	0.96	
27	0.24	0.24	6.30	16.00	5.00	3.86	18.04	5.70	2.46	3.10	1.02	0.96	
28	0.24	0.30	3.78	23.73	20.22	3.44	31.85	5.10	1.98	2.94	0.96	0.90	
29	0.24	0.24	2.54	13.00	28.58	6.80	15.52	4.63	1.82	2.78		0.84	
30	0.18	0.24	1.90	6.80	42.64	3.70	10.72	4.12	1.74	2.70		0.78	
31		0.18		5.00	60.25		8.70		1.74	2.46		0.72	
Total	9.78	10.32	52.86	92.14	292.24	389.05	481.19	333.39	77.27	214.73	46.41	34.46	2033.84 CMSDAY
Mean	0.33	0.33	1.76	2.97	9.43	12.97	15.52	11.11	2.49	6.93	1.66	1.11	5.57 CMS
Max	0.60	0.84	12.88	23.73	60.25	68.96	67.08	49.96	3.70	65.01	3.53	2.70	68.96 CMS
Min	0.18	0.18	0.18	0.42	2.62	3.44	4.12	4.12	1.74	1.14	0.96	0.72	0.18 CMS
Runoff	0.845	0.892	4.567	7.961	25.250	33.614	41.575	28.805	6.676	18.553	4.010	2.977	175.724 MCM

Momentary Peak 99.00 CMS, at 6.40 M (A.D), at 18.00 Hours, on Jan 18, 1992

Runoff Yield 18.27 Liters/Second/Square KM, Momentary Peak Yield 324.59 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENNINSULA EAST COAST

Khlong Tha Di at Ban Pak Prick, 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.

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 — Stable.

Overbank Flow Conditions — Overbank flow starts at elevation + 4.39 m.(A.D.) and is included.

General Description — Records good. Stage-discharge relation defined by 52 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

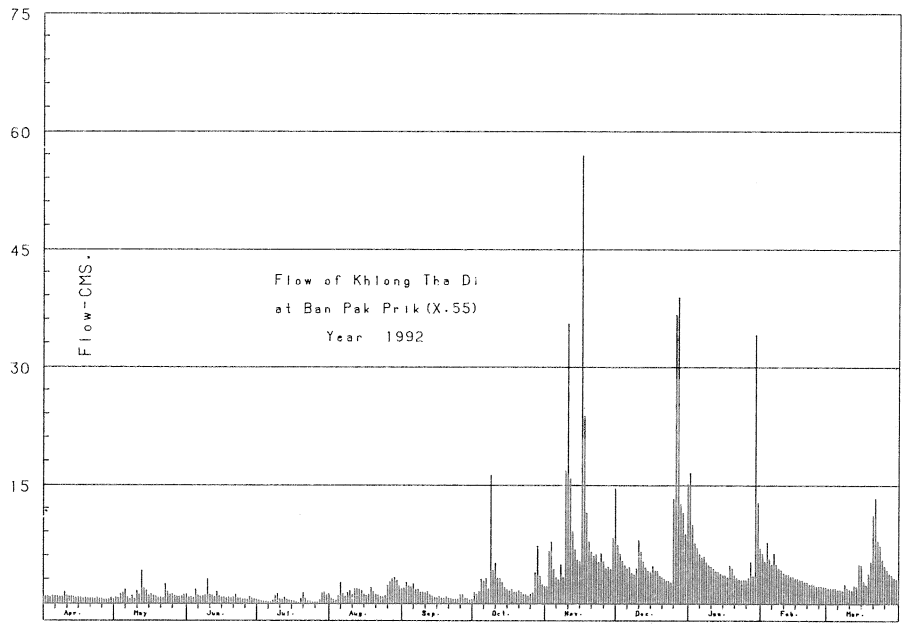
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.79	0.77	0.77	0.68	0.74	0.97	0.88	0.99	1.55	2.19	1.43	0.96	
2	0.78	0.74	0.77	0.67	0.70	1.05	0.83	1.47	1.43	1.74	1.33	0.95	
3	0.77	0.85	0.76	0.65	0.69	1.01	0.90	1.58	1.34	1.57	1.58	0.96	
4	0.79	0.86	0.93	0.66	0.81	0.98	1.10	1.24	1.29	1.50	1.36	0.95	
5	0.80	0.94	0.82	0.65	1.06	1.04	1.08	1.13	1.25	1.43	1.30	0.93	
6	0.78	0.76	0.78	0.65	0.84	0.94	1.11	1.09	1.26	1.38	1.44	0.92	
7	0.78	0.73	0.80	0.68	0.79	0.93	0.95	1.29	1.19	1.40	1.29	0.91	
8	0.77	0.80	0.81	0.81	0.86	0.88	2.17	1.13	1.16	1.32	1.25	1.03	
9	0.89	0.73	1.11	0.84	0.90	0.87	1.22	2.20	1.25	1.29	1.22	0.95	
10	0.80	0.92	0.83	0.72	0.83	0.87	1.32	3.20	1.60	1.26	1.18	0.92	
11	0.79	0.82	0.80	0.70	0.94	0.89	1.12	2.14	1.46	1.24	1.17	0.92	
12	0.78	1.25	0.78	0.76	0.96	0.83	1.11	1.68	1.33	1.21	1.16	1.01	
13	0.77	0.95	0.88	0.70	0.93	0.79	1.06	1.49	1.26	1.20	1.14	0.98	
14	0.76	0.92	0.80	0.69	0.92	0.77	0.97	1.35	1.21	1.18	1.13	1.30	
15	0.76	0.80	0.77	0.68	0.84	0.76	0.93	1.33	1.19	1.16	1.11	1.28	
16	0.75	0.83	0.76	0.66	0.80	0.78	0.91	3.97	1.28	1.15	1.10	1.07	
17	0.74	0.81	0.75	0.64	0.84	0.75	0.93	2.61	1.22	1.13	1.09	1.02	
18	0.74	0.78	0.76	0.64	0.97	0.73	0.88	1.85	1.21	1.28	1.08	1.17	
19	0.74	0.76	0.75	0.74	0.88	0.79	0.87	1.59	1.15	1.25	1.06	1.33	
20	0.73	0.75	0.76	0.87	0.84	0.73	0.92	1.46	1.12	1.15	1.05	1.83	
21	0.73	0.75	0.82	0.73	0.81	0.73	0.87	1.40	1.10	1.11	1.03	1.97	
22	0.73	1.04	0.75	0.67	0.79	0.72	0.84	1.42	1.08	1.10	1.03	1.60	
23	0.75	0.88	0.73	0.66	0.76	0.71	0.82	1.33	1.07	1.08	1.01	1.53	
24	0.74	0.83	0.72	0.65	0.81	0.73	0.80	1.44	1.06	1.09	1.00	1.36	
25	0.72	0.83	0.71	0.64	1.01	0.82	0.84	1.33	1.97	1.08	0.99	1.27	
26	0.71	0.80	0.71	0.63	1.07	0.83	0.86	1.25	3.25	1.12	0.99	1.22	
27	0.70	0.79	0.79	0.70	1.11	0.75	1.20	1.26	3.36	1.33	0.99	1.18	
28	0.72	0.77	0.73	0.87	1.12	0.72	1.53	1.24	1.92	1.14	0.97	1.15	
29	0.75	0.80	0.73	0.87	1.09	0.70	1.14	1.62	1.85	3.13		1.12	
30	0.71	0.82	0.70	0.82	1.00	0.70	1.03	2.05	1.66	1.94		1.09	
31		0.83		0.84	0.94		0.99		2.09	1.50		1.11	
Mean	0.76	0.84	0.79	0.72	0.89	0.83	1.04	1.64	1.49	1.38	1.16	1.16	
Max	0.89	1.25	1.11	0.87	1.12	1.05	2.17	3.97	3.36	3.13	1.58	1.97	3.97
Min	0.70	0.73	0.70	0.63	0.69	0.70	0.80	0.99	1.06	1.08	0.97	0.91	0.63

Annual Max Momentary Gage Height — 5.60 M (A.D), at 18.00 Hours, on Nov 9, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.40 M (A.D)

Left Bank Elevation — 4.73 M (A.D)

Right Bank Elevation — 4.38 M (A.D), Drainage Area — 105 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.95	0.85	0.85	0.40	0.70	2.02	1.48	2.14	7.50	16.65	6.30	1.96	
2	0.90	0.70	0.85	0.35	0.50	2.65	1.18	6.70	6.30	9.96	5.30	1.90	
3	0.85	1.30	0.80	0.25	0.45	2.29	1.60	7.80	5.40	7.70	7.80	1.96	
4	0.95	1.36	1.78	0.30	1.06	2.08	3.10	4.40	4.90	7.00	5.60	1.90	
5	1.00	1.84	1.12	0.25	2.74	2.56	2.92	3.37	4.50	6.30	5.00	1.78	
6	0.90	0.80	0.90	0.25	1.24	1.84	3.19	3.01	4.60	5.80	6.40	1.72	
7	0.90	0.65	1.00	0.40	0.95	1.78	1.90	4.90	3.91	6.00	4.90	1.66	
8	0.85	1.00	1.06	1.06	1.36	1.48	16.35	3.37	3.64	5.20	4.50	2.47	
9	1.54	0.65	3.19	1.24	1.60	1.42	4.20	16.80	4.50	4.90	4.20	1.90	
10	1.00	1.72	1.18	0.60	1.18	1.42	5.20	35.60	8.00	4.60	3.82	1.72	
11	0.95	1.12	1.00	0.50	1.84	1.54	3.28	15.90	6.60	4.40	3.73	1.72	
12	0.90	4.50	0.90	0.80	1.96	1.18	3.19	9.12	5.30	4.10	3.64	2.29	
13	0.85	1.90	1.48	0.50	1.78	0.95	2.74	6.90	4.60	4.00	3.46	2.08	
14	0.80	1.72	1.00	0.45	1.72	0.85	2.02	5.50	4.10	3.82	3.37	5.00	
15	0.80	1.00	0.85	0.40	1.24	0.80	1.78	5.30	3.91	3.64	3.19	4.80	
16	0.75	1.18	0.80	0.30	1.00	0.90	1.66	57.00	4.80	3.55	3.10	2.83	
17	0.70	1.06	0.75	0.20	1.24	0.75	1.78	23.80	4.20	3.37	3.01	2.38	
18	0.70	0.90	0.80	0.20	2.02	0.65	1.48	11.55	4.10	4.80	2.92	3.73	
19	0.70	0.80	0.75	0.70	1.48	0.95	1.42	7.90	3.55	4.50	2.74	5.30	
20	0.65	0.75	0.80	1.42	1.24	0.65	1.72	6.60	3.28	3.55	2.65	11.25	
21	0.65	0.75	1.12	0.65	1.06	0.65	1.42	6.00	3.10	3.19	2.47	13.35	
22	0.65	2.56	0.75	0.35	0.95	0.60	1.24	6.20	2.92	3.10	2.47	8.00	
23	0.75	1.48	0.65	0.30	0.80	0.55	1.12	5.30	2.83	2.92	2.29	7.30	
24	0.70	1.18	0.60	0.25	1.06	0.65	1.00	6.40	2.74	3.01	2.20	5.60	
25	0.60	1.18	0.55	0.20	2.29	1.12	1.24	5.30	13.35	2.92	2.14	4.70	
26	0.55	1.00	0.55	0.15	2.83	1.18	1.36	4.50	36.65	3.28	2.14	4.20	
27	0.50	0.95	0.95	0.50	3.19	0.75	4.00	4.60	38.96	5.30	2.14	3.82	
28	0.60	0.85	0.65	1.42	3.28	0.60	7.30	4.40	12.60	3.46	2.02	3.55	
29	0.75	1.00	0.65	1.42	3.01	0.50	3.46	8.28	11.55	34.20		3.28	
30	0.55	1.12	0.50	1.12	2.20	0.50	2.47	14.55	8.84	12.90		3.01	
31		1.18		1.24	1.84		2.14		15.15	7.00		3.19	
Total	23.94	39.05	28.83	18.17	49.81	35.86	88.94	303.19	246.38	195.12	103.50	120.35	1253.14 CMSDAY
Mean	0.80	1.26	0.96	0.59	1.61	1.20	2.87	10.11	7.95	6.29	3.70	3.88	3.43 CMS
Max	1.54	4.50	3.19	1.42	3.28	2.65	16.35	57.00	38.96	34.20	7.80	13.35	57.00 CMS
Min	0.50	0.65	0.50	0.15	0.45	0.50	1.00	2.14	2.74	2.92	2.02	1.66	0.15 CMS
Runoff	2.068	3.374	2.491	1.570	4.304	3.098	7.684	26.196	21.287	16.858	8.942	10.398	108.271 MCM

Momentary Peak 304.00 CMS, at 5.60 M (A.D), at 18.00 Hours, on Nov 9, 1992
Runoff Yield 32.70 Liters/Second/Square KM, Momentary Peak Yield 2895.24 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

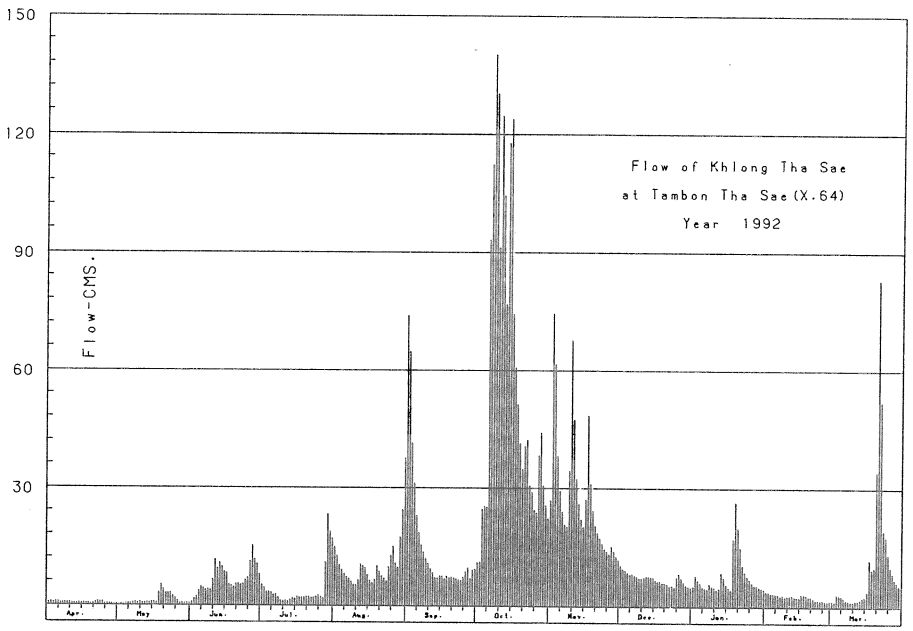
Khlong Tha Sae at Tha Sae, Chumphon (X.64)

Location	Lat. 10-39-49 N., Long. 99-10-17 E., on left bank near the Land Cooperation Office, Tambon Ban Tha Kham, Amphoe Tha Sae, Chumphon.
Drainage Area	957 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+0.00 m. (A.D.)
Bench Mark	B.M.-H.D.
Location	On left bank near the gage site.
Elevation	+11.196 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	1974-1975, 1982 to date.
Rated by Float	-
Rated by Current Meter	1974-1975, 1982 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.13	0.17	0.40	0.81	2.90	0.65	1.27	0.61	0.39	0.33	0.21	
2	0.17	0.13	0.23	0.36	0.71	2.59	0.65	2.92	0.58	0.50	0.32	0.21	
3	0.17	0.13	0.25	0.32	0.62	1.81	1.19	2.49	0.56	0.46	0.31	0.29	
4	0.17	0.14	0.33	0.31	0.56	1.44	1.21	1.69	0.54	0.42	0.30	0.29	
5	0.17	0.14	0.38	0.31	0.52	1.12	1.21	1.37	0.52	0.38	0.30	0.28	
6	0.16	0.14	0.35	0.28	0.48	0.95	3.52	1.16	0.52	0.36	0.29	0.25	
7	0.16	0.16	0.34	0.28	0.47	0.83	4.12	1.04	0.51	0.36	0.28	0.23	
8	0.16	0.17	0.34	0.25	0.43	0.75	4.95	1.01	0.49	0.41	0.28	0.21	
9	0.16	0.16	0.34	0.20	0.40	0.69	4.66	1.56	0.48	0.39	0.27	0.21	
10	0.16	0.17	0.45	0.20	0.39	0.63	3.46	2.69	0.47	0.37	0.27	0.20	
11	0.15	0.16	0.67	0.20	0.45	0.58	4.49	2.02	0.48	0.35	0.28	0.22	
12	0.15	0.16	0.57	0.20	0.62	0.53	3.88	1.48	0.50	0.36	0.28	0.22	
13	0.15	0.16	0.63	0.21	0.61	0.48	2.99	1.24	0.49	0.54	0.27	0.23	
14	0.15	0.16	0.60	0.24	0.58	0.47	4.28	1.09	0.49	0.48	0.26	0.26	
15	0.15	0.17	0.54	0.23	0.51	0.50	4.47	1.01	0.48	0.41	0.26	0.26	
16	0.15	0.17	0.52	0.25	0.44	0.49	2.91	1.28	0.46	0.37	0.29	0.33	
17	0.15	0.17	0.40	0.25	0.42	0.47	2.46	2.05	0.44	0.35	0.30	0.68	
18	0.14	0.31	0.38	0.24	0.45	0.49	2.14	1.44	0.44	0.89	0.28	0.57	
19	0.14	0.39	0.37	0.25	0.61	0.48	1.81	1.17	0.43	1.26	0.27	0.60	
20	0.14	0.34	0.40	0.25	0.54	0.48	1.57	1.03	0.42	1.00	0.26	1.55	
21	0.17	0.30	0.41	0.25	0.49	0.48	1.78	0.95	0.41	0.81	0.25	3.19	
22	0.18	0.30	0.40	0.24	0.47	0.47	1.84	0.90	0.39	0.62	0.23	2.17	
23	0.18	0.30	0.40	0.24	0.44	0.45	1.42	0.84	0.39	0.54	0.22	0.98	
24	0.17	0.27	0.45	0.26	0.59	0.45	1.35	0.79	0.38	0.50	0.22	0.91	
25	0.14	0.23	0.47	0.27	0.72	0.48	1.18	0.76	0.49	0.46	0.22	0.73	
26	0.14	0.19	0.65	0.25	0.81	0.54	1.15	0.74	0.52	0.43	0.21	0.60	
27	0.14	0.15	0.82	0.24	0.63	0.59	1.70	0.82	0.48	0.40	0.21	0.53	
28	0.13	0.15	0.67	0.65	0.59	0.47	1.90	0.76	0.43	0.39	0.21	0.47	
29	0.13	0.15	0.63	1.14	0.91	0.56	1.42	0.71	0.40	0.38		0.43	
30	0.13	0.15	0.51	0.96	1.18	0.57	1.22	0.67	0.38	0.36		0.40	
31		0.15		0.89	1.67		1.10		0.37	0.35		0.37	
Mean	0.15	0.19	0.46	0.34	0.62	0.79	2.34	1.30	0.47	0.49	0.27	0.58	
Max	0.18	0.39	0.82	1.14	1.67	2.90	4.95	2.92	0.61	1.26	0.33	3.19	4.95
Min	0.13	0.13	0.17	0.20	0.39	0.45	0.65	0.67	0.37	0.35	0.21	0.20	0.13

Annual Max Momentary Gage Height 5.57 M (A.D), at 24.00 Hours, on Oct 8, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.49 M (A.D)
Left Bank Elevation 10.76 M (A.D)
Right Bank Elevation 10.37 M (A.D), Drainage Area 957 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.84	0.36	0.84	5.40	15.05	74.00	11.20	26.82	10.24	5.18	3.86	1.40	
2	0.84	0.36	1.80	4.52	12.64	64.70	11.20	74.60	9.54	7.70	3.64	1.40	
3	0.84	0.36	2.20	3.64	10.48	41.49	24.74	61.70	9.08	6.78	3.42	3.00	
4	0.84	0.48	3.86	3.42	9.08	31.24	25.26	38.12	8.62	5.86	3.20	3.00	
5	0.84	0.48	4.96	3.42	8.16	22.92	25.26	29.42	8.16	4.96	3.20	2.80	
6	0.72	0.48	4.30	2.80	7.24	18.55	93.18	23.96	8.16	4.52	3.00	2.20	
7	0.72	0.72	4.08	2.80	7.01	15.55	112.36	20.84	7.93	4.52	2.80	1.80	
8	0.72	0.84	4.08	2.20	6.09	13.60	140.25	20.06	7.47	5.63	2.80	1.40	
9	0.72	0.72	4.08	1.20	5.40	12.16	130.24	34.48	7.24	5.18	2.60	1.40	
10	0.72	0.84	6.55	1.20	5.18	10.72	91.29	67.70	7.01	4.74	2.60	1.20	
11	0.60	0.72	11.68	1.20	6.55	9.54	124.57	47.60	7.24	4.30	2.80	1.60	
12	0.60	0.72	9.31	1.20	10.48	8.39	104.56	32.28	7.70	4.52	2.80	1.60	
13	0.60	0.72	10.72	1.40	10.24	7.24	76.70	26.04	7.47	8.62	2.60	1.80	
14	0.60	0.72	10.00	2.00	9.54	7.01	117.64	22.14	7.47	7.24	2.40	2.40	
15	0.60	0.84	8.62	1.80	7.93	7.70	123.91	20.06	7.24	5.63	2.40	2.40	
16	0.60	0.84	8.16	2.20	6.32	7.47	74.30	27.08	6.78	4.74	3.00	3.86	
17	0.60	0.84	5.40	2.20	5.86	7.01	60.80	48.50	6.32	4.30	3.20	11.92	
18	0.48	3.42	4.96	2.00	6.55	7.47	51.20	31.24	6.32	17.05	2.80	9.31	
19	0.48	5.18	4.74	2.20	10.24	7.24	41.49	24.22	6.09	26.56	2.60	10.00	
20	0.48	4.08	5.40	2.20	8.62	7.24	34.76	20.58	5.86	19.80	2.40	34.20	
21	0.84	3.20	5.63	2.20	7.47	7.24	40.64	18.55	5.63	15.05	2.20	82.89	
22	0.96	3.20	5.40	2.00	7.01	7.01	42.36	17.30	5.18	10.48	1.80	52.10	
23	0.96	3.20	5.40	2.00	6.32	6.55	30.72	15.80	5.18	8.62	1.60	19.30	
24	0.84	2.60	6.55	2.40	9.77	6.55	28.90	14.56	4.96	7.70	1.60	17.55	
25	0.48	1.80	7.01	2.60	12.88	7.24	24.48	13.84	7.47	6.78	1.60	13.12	
26	0.48	1.08	11.20	2.20	15.05	8.62	23.70	13.36	8.16	6.09	1.40	10.00	
27	0.48	0.60	15.30	2.00	10.72	9.77	38.40	15.30	7.24	5.40	1.40	8.39	
28	0.36	0.60	11.68	11.20	9.77	7.01	44.10	13.84	6.09	5.18	1.40	7.01	
29	0.36	0.60	10.72	23.44	17.55	9.08	30.72	12.64	5.40	4.96		6.09	
30	0.36	0.60	7.93	18.80	24.48	9.31	25.52	11.68	4.96	4.52		5.40	
31		0.60		17.05	37.56		22.40		4.74	4.30		4.74	
Total	19.56	41.80	202.56	134.89	327.24	459.62	1826.85	844.31	216.95	236.91	71.12	325.28	4707.09 CMSDAY
Mean	0.65	1.35	6.75	4.35	10.56	15.32	58.93	28.14	7.00	7.64	2.54	10.49	12.90 CMS
Max	0.96	5.18	15.30	23.44	37.56	74.00	140.25	74.60	10.24	26.56	3.86	82.89	140.25 CMS
Min	0.36	0.36	0.84	1.20	5.18	6.55	11.20	11.68	4.74	4.30	1.40	1.20	0.36 CMS
Runoff	1.690	3.612	17.501	11.654	28.274	39.711	157.840	72.948	18.744	20.469	6.145	28.104	406.693 MCM

Momentary Peak 161.95 CMS, at 5.57 M (A.D), at 24.00 Hours, on Oct 8, 1992

Runoff Yield 13.48 Liters/Second/Square KM, Momentary Peak Yield 169.23 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

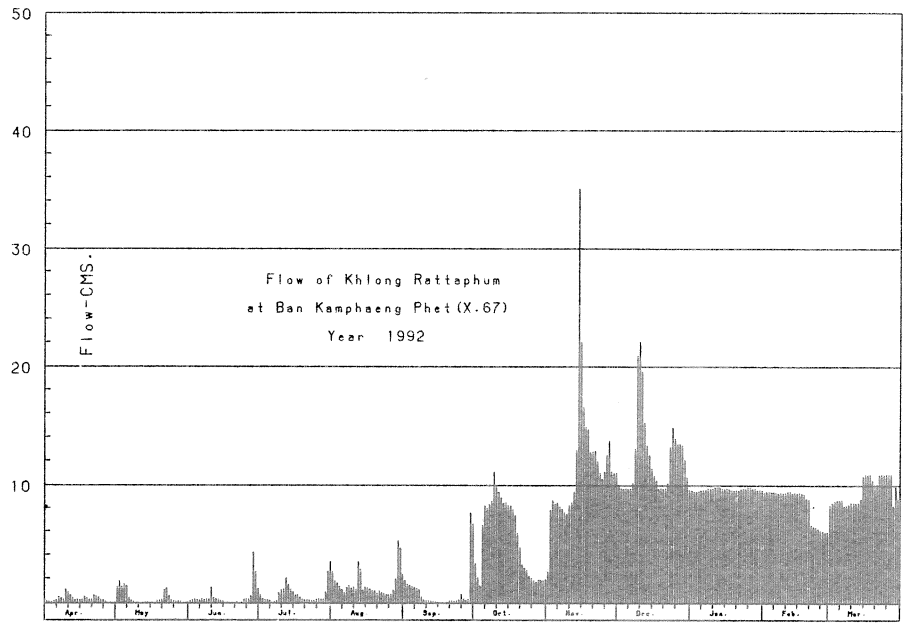
Khlong Rattaphum at Ban Kamphaeng Phet, Songkhla (X.67)

Location	Lat. 7°08'35" N., Long. 100°17'20" E., on right bank about 3 meters upstream from the bridge of Phatthalung-Songkhla Highway, Amphoe Rattaphum, Songkhla.
Drainage Area	272 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+16.00 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank under the santol tree.
Elevation	+20.413 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1967-1970, 1972, 1983 to date.
Rated by Float	-
Rated by Current Meter	1967-1970, 1972, 1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Rattaphum Weir for irrigation about 10,688 hectares. Stage-discharge relation defined by 6 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.90	17.16	16.91	17.05	17.35	17.25	17.44	17.35	18.08	18.04	18.02	17.93	
2	16.89	17.24	16.94	17.00	17.24	17.20	17.28	17.90	18.05	18.03	18.03	17.95	
3	16.87	17.17	16.98	16.95	17.22	17.19	17.18	17.97	18.05	18.03	18.03	17.96	
4	16.90	17.20	16.94	16.95	17.17	17.17	17.78	17.94	18.05	18.03	18.03	17.97	
5	16.95	17.18	16.91	16.93	17.13	17.16	17.93	17.95	18.05	18.04	18.03	17.97	
6	17.02	17.02	16.99	16.84	17.08	17.14	17.91	17.92	18.05	18.04	18.02	17.97	
7	17.01	16.93	16.96	16.88	17.16	17.13	17.94	17.91	18.09	18.04	18.02	17.93	
8	16.95	16.87	16.97	16.91	17.18	17.02	17.96	17.88	18.32	18.05	18.02	17.93	
9	17.13	16.85	16.98	17.08	17.15	16.95	18.17	17.87	18.83	18.05	18.02	17.94	
10	17.09	16.85	17.16	17.12	17.16	16.90	18.07	17.93	18.90	18.05	18.02	17.95	
11	17.05	16.85	17.01	17.13	17.13	16.90	18.03	17.95	18.75	18.06	18.03	17.95	
12	17.01	16.85	16.99	17.28	17.46	16.90	17.99	18.03	18.48	18.06	18.03	17.95	
13	16.95	16.85	16.96	17.20	17.38	16.88	17.95	18.31	18.34	18.06	18.02	17.95	
14	16.95	16.85	16.92	17.13	17.12	16.88	17.95	19.59	18.28	18.05	18.02	17.98	
15	16.95	16.85	16.89	17.09	17.16	16.85	17.93	18.90	18.19	18.05	18.02	18.14	
16	16.95	16.85	16.85	17.05	17.15	16.85	17.93	18.56	18.14	18.05	18.02	18.15	
17	17.03	16.85	16.85	17.05	17.14	16.85	17.90	18.45	18.11	18.05	18.02	18.15	
18	17.01	16.95	16.85	17.02	17.11	16.85	17.86	18.44	18.05	18.04	18.01	18.15	
19	16.96	16.92	16.85	16.96	17.11	16.90	17.71	18.30	18.05	18.04	17.98	18.11	
20	16.96	16.95	16.85	16.95	17.07	16.90	17.59	18.30	18.05	18.04	17.97	18.06	
21	17.05	17.12	16.85	16.95	17.11	16.90	17.43	18.31	18.05	18.04	17.78	18.08	
22	17.03	17.15	16.85	16.94	17.08	16.90	17.40	18.24	18.09	18.05	17.77	18.15	
23	17.02	17.04	16.86	16.91	17.07	16.90	17.37	18.16	18.33	18.05	17.76	18.15	
24	16.97	16.94	16.97	16.92	17.06	16.95	17.30	18.12	18.45	18.05	17.75	18.15	
25	16.95	16.91	16.97	16.96	17.05	17.06	17.27	18.17	18.38	18.06	17.73	18.15	
26	16.88	16.90	16.97	16.98	17.06	16.99	17.24	18.28	18.35	18.06	17.73	18.15	
27	16.85	16.90	17.04	16.97	17.12	16.95	17.23	18.37	18.35	18.05	17.72	18.15	
28	16.85	16.88	17.55	16.96	17.27	16.96	17.25	18.17	18.34	18.05	17.72	17.93	
29	16.85	16.85	17.35	17.09	17.65	17.88	17.25	18.16	18.25	18.04		18.08	
30	16.90	16.85	17.14	17.36	17.59	17.79	17.24	18.16	18.13	18.04		17.99	
31		16.85		17.46	17.32		17.26		18.04	18.04		17.98	
Mean	16.96	16.96	16.98	17.03	17.20	17.04	17.64	18.19	18.25	18.05	17.94	18.03	
Max	17.13	17.24	17.55	17.46	17.65	17.88	18.17	19.59	18.90	18.06	18.03	18.15	19.59
Min	16.85	16.85	16.85	16.84	17.05	16.85	17.18	17.35	18.04	18.03	17.72	17.93	16.84

Annual Max Momentary Gage Height 19.75 M (MSL), at 15.00 Hours, on Nov 14, 1992
Zero Gage at Bottom Elevation 16.00 M (MSL), River Bed 16.24 M (MSL)
Left Bank Elevation 21.51 M (MSL)
Right Bank Elevation 21.50 M (MSL), Drainage Area 272 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	1.36	0.22	0.70	2.65	1.95	3.36	2.65	10.06	9.58	9.34	8.26	
2	0.18	1.88	0.28	0.40	1.88	1.60	2.16	7.90	9.70	9.46	9.46	8.50	
3	0.14	1.42	0.36	0.30	1.74	1.54	1.48	8.74	9.70	9.46	9.46	8.62	
4	0.20	1.60	0.28	0.30	1.42	1.42	6.60	8.38	9.70	9.46	9.46	8.74	
5	0.30	1.48	0.22	0.26	1.18	1.36	8.26	8.50	9.70	9.58	9.46	8.74	
6	0.52	0.52	0.38	0.08	0.88	1.24	8.02	8.14	9.70	9.58	9.34	8.74	
7	0.46	0.26	0.32	0.16	1.36	1.18	8.38	8.02	10.18	9.58	9.34	8.26	
8	0.30	0.14	0.34	0.22	1.48	0.52	8.62	7.68	13.08	9.70	9.34	8.26	
9	1.18	0.10	0.36	0.88	1.30	0.30	11.14	7.57	20.91	9.70	9.34	8.38	
10	0.94	0.10	1.36	1.12	1.36	0.20	9.94	8.26	22.10	9.70	9.34	8.50	
11	0.70	0.10	0.46	1.18	1.18	0.20	9.46	8.50	19.60	9.82	9.46	8.50	
12	0.46	0.10	0.38	2.16	3.54	0.20	8.98	9.46	15.32	9.82	9.46	8.50	
13	0.30	0.10	0.32	1.60	2.86	0.16	8.50	12.94	13.36	9.82	9.34	8.50	
14	0.30	0.10	0.24	1.18	1.12	0.16	8.50	35.10	12.54	9.70	9.34	8.86	
15	0.30	0.10	0.18	0.94	1.36	0.10	8.26	22.10	11.38	9.70	9.34	10.78	
16	0.30	0.10	0.10	0.70	1.30	0.10	8.26	16.56	10.78	9.70	9.34	10.90	
17	0.58	0.10	0.10	0.70	1.24	0.10	7.90	14.90	10.42	9.70	9.34	10.90	
18	0.46	0.30	0.10	0.52	1.06	0.10	7.46	14.76	9.70	9.58	9.22	10.90	
19	0.32	0.24	0.10	0.32	1.06	0.20	5.90	12.80	9.70	9.58	8.86	10.42	
20	0.32	0.30	0.10	0.30	0.82	0.20	4.71	12.80	9.70	9.58	8.74	9.82	
21	0.70	1.12	0.10	0.30	1.06	0.20	3.27	12.94	9.70	9.58	6.60	10.06	
22	0.58	1.30	0.10	0.28	0.88	0.20	3.00	12.02	10.18	9.70	6.50	10.90	
23	0.52	0.64	0.12	0.22	0.82	0.20	2.79	11.02	13.22	9.70	6.40	10.90	
24	0.34	0.28	0.34	0.24	0.76	0.30	2.30	10.54	14.90	9.70	6.30	10.90	
25	0.30	0.22	0.34	0.32	0.70	0.76	2.09	11.14	13.92	9.82	6.10	10.90	
26	0.16	0.20	0.34	0.36	0.76	0.38	1.88	12.54	13.50	9.82	6.10	10.90	
27	0.10	0.20	0.64	0.34	1.12	0.30	1.81	13.78	13.50	9.70	6.00	10.90	
28	0.10	0.16	4.35	0.32	2.09	0.32	1.95	11.14	13.36	9.70	6.00	8.26	
29	0.10	0.10	2.65	0.94	5.30	7.68	1.95	11.02	12.15	9.58		10.06	
30	0.20	0.10	1.24	2.72	4.71	6.70	1.88	11.02	10.66	9.58		8.98	
31		0.10		3.54	2.44		2.02		9.58	9.58		8.86	
Total	11.56	14.82	16.42	23.60	51.43	29.87	170.83	352.92	382.00	299.26	236.32	294.70	1883.73 CMSDAY
Mean	0.39	0.48	0.55	0.76	1.66	1.00	5.51	11.76	12.32	9.65	8.44	9.51	5.16 CMS
Max	1.18	1.88	4.35	3.54	5.30	7.68	11.14	35.10	22.10	9.82	9.46	10.90	35.10 CMS
Min	0.10	0.10	0.10	0.08	0.70	0.10	1.48	2.65	9.58	9.46	6.00	8.26	0.08 CMS
Runoff	0.999	1.280	1.419	2.039	4.444	2.581	14.760	30.492	33.005	25.856	20.418	25.462	162.754 MCM

Momentary Peak 38.30 CMS, at 19.75 M (MSL), at 15.00 Hours, on Nov 14, 1992

Runoff Yield 18.97 Liters/Second/Square KM, Momentary Peak Yield 140.81 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Tha Khae at Ban Tha Khae, Phatthalung (X.68)

Location — Lat. 7-34-01 N., Long. 100-03-05 E., on left bank downstream side of the bridge of Phatthalung-Hat Yai Highway, Tambon Tha Khae, Amphoe Muang, Phatthalung.

Drainage Area — Flood plain.

Type of Gage — Staff gage.

Zero Gage at Bottom — +11.800 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On right bank near the gage observer's house.

Elevation — +14.916 m.(M.S.L.)

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

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

Period of Available Gage Records — 1967 to date.

Rating Operation

Period of Rating — 1967-1972, 1983 to date.

Rated by Float — -

Rated by Current Meter — 1967-1972, 1983 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — Overbank flow starts at elevation +15.52 m.(M.S.L.),records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 10 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

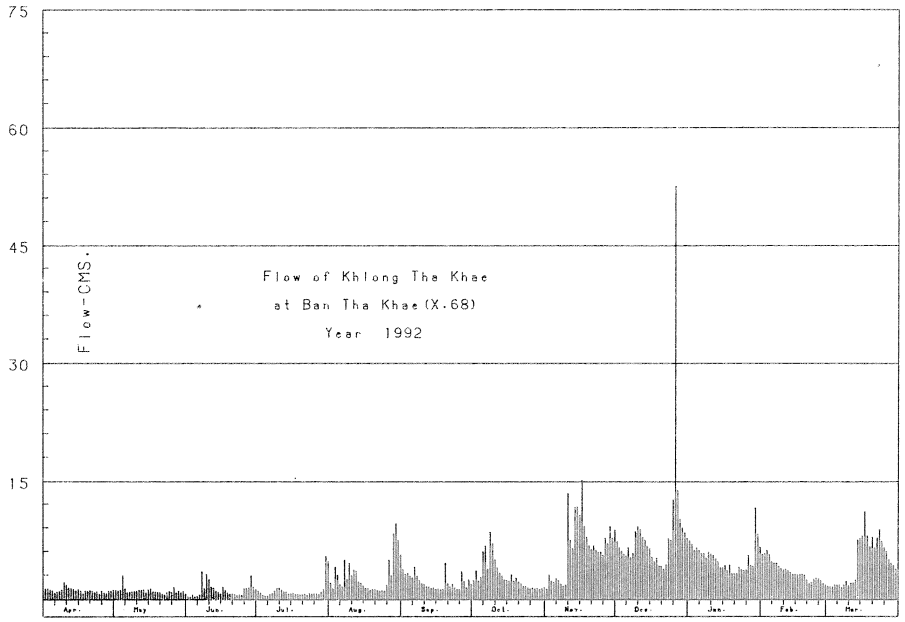
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.76	12.69	12.49	12.67	12.86	13.08	12.90	12.75	13.40	13.41	13.27	12.82	
2	12.74	12.69	12.50	12.62	12.76	13.00	13.07	12.99	13.33	13.37	13.27	12.80	
3	12.73	12.70	12.55	12.54	13.12	13.03	12.91	12.90	13.30	13.31	13.31	12.81	
4	12.68	12.99	12.51	12.53	12.99	12.97	12.95	12.87	13.26	13.33	13.26	12.83	
5	12.63	12.75	12.51	12.53	12.85	12.96	13.30	12.94	13.25	13.31	13.19	12.84	
6	12.64	12.62	12.55	12.56	12.80	13.11	13.35	12.90	13.33	13.27	13.16	12.83	
7	12.69	12.64	13.05	12.61	13.21	12.98	13.09	12.85	13.23	13.27	13.17	12.80	
8	12.71	12.65	12.75	12.67	12.93	12.90	13.49	12.81	13.27	13.23	13.12	12.83	
9	12.89	12.68	13.00	12.78	13.16	12.86	13.38	12.84	13.50	13.29	13.10	12.90	
10	12.83	12.67	12.93	12.76	12.98	12.84	13.21	13.84	13.54	13.27	13.08	12.83	
11	12.80	12.73	12.81	12.70	13.08	12.82	13.10	13.41	13.52	13.25	13.08	12.86	
12	12.77	12.73	12.77	12.67	13.05	12.80	13.03	13.33	13.44	13.22	13.07	12.87	
13	12.73	12.71	12.69	12.64	12.89	12.77	12.97	13.72	13.41	13.18	13.03	12.91	
14	12.70	12.64	12.63	12.60	12.86	12.77	12.92	13.73	13.35	13.11	13.01	13.42	
15	12.72	12.71	12.60	12.59	12.83	12.75	12.90	13.65	13.32	13.10	13.00	13.43	
16	12.68	12.74	12.79	12.60	12.78	12.73	12.89	13.94	13.23	13.13	12.99	13.45	
17	12.61	12.67	12.71	12.58	12.74	12.73	13.00	13.55	13.19	13.06	13.01	13.69	
18	12.67	12.64	12.61	12.56	12.71	12.72	12.90	13.44	13.22	13.15	13.00	13.45	
19	12.69	12.65	12.59	12.56	12.72	13.17	12.94	13.36	13.13	13.02	13.00	13.35	
20	12.69	12.62	12.57	12.56	12.72	12.86	12.89	13.32	13.12	13.01	12.91	13.44	
21	12.67	12.59	12.56	12.57	12.71	12.80	12.85	13.35	13.08	13.02	12.86	13.33	
22	12.65	12.57	12.55	12.55	12.69	12.85	12.82	13.31	13.15	13.11	12.87	13.44	
23	12.65	12.62	12.55	12.59	12.68	12.77	12.81	13.28	13.43	13.08	12.93	13.52	
24	12.59	12.66	12.56	12.60	12.68	12.75	12.79	13.29	13.41	13.06	12.94	13.40	
25	12.67	12.63	12.76	12.58	12.83	12.72	12.76	13.25	13.79	13.08	12.94	13.34	
26	12.61	12.79	12.76	12.58	13.20	13.04	12.76	13.43	15.55	13.25	12.90	13.29	
27	12.61	12.64	12.79	12.58	12.99	12.90	12.76	13.38	13.86	13.14	12.86	13.21	
28	12.67	12.67	12.99	12.66	13.48	12.80	12.75	13.55	13.62	13.12	12.83	13.16	
29	12.69	12.64	12.80	12.72	13.58	12.91	12.73	13.43	13.53	13.72		13.14	
30	12.70	12.66	12.74	13.25	13.41	12.84	12.74	13.51	13.49	13.47		13.08	
31		12.60		13.18	13.26		12.78		13.43	13.34		13.08	
Mean	12.70	12.68	12.69	12.65	12.95	12.87	12.96	13.30	13.44	13.22	13.04	13.13	
Max	12.89	12.99	13.05	13.25	13.58	13.17	13.49	13.94	15.55	13.72	13.31	13.69	15.55
Min	12.59	12.57	12.49	12.53	12.68	12.72	12.73	12.75	13.08	13.01	12.83	12.80	12.49

Annual Max Momentary Gage Height — 16.07 M (MSL), at 6.00 Hours, on Dec 26, 1992

Zero Gage at Bottom Elevation — 11.80 M (MSL), River Bed — 11.08 M (MSL)

Left Bank Elevation — 15.51 M (MSL)

Right Bank Elevation — 16.70 M (MSL), Drainage Area — Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.44	1.16	0.36	1.08	2.08	3.84	2.40	1.40	7.40	7.53	5.84	1.76	
2	1.36	1.16	0.40	0.88	1.44	3.20	3.76	3.12	6.56	7.04	5.84	1.60	
3	1.32	1.20	0.60	0.56	4.20	3.44	2.48	2.40	6.20	6.32	6.32	1.68	
4	1.12	3.12	0.44	0.52	3.12	2.96	2.80	2.16	5.72	6.56	5.72	1.84	
5	0.92	1.40	0.44	0.52	2.00	2.88	6.20	2.72	5.60	6.32	4.90	1.92	
6	0.96	0.88	0.60	0.64	1.60	4.10	6.80	2.40	6.56	5.84	4.60	1.84	
7	1.16	0.96	3.60	0.84	5.12	3.04	3.92	2.00	5.36	5.84	4.70	1.60	
8	1.24	1.00	1.40	1.08	2.64	2.40	8.57	1.68	5.84	5.36	4.20	1.84	
9	2.32	1.12	3.20	1.52	4.60	2.08	7.16	1.92	8.70	6.08	4.00	2.40	
10	1.84	1.08	2.64	1.44	3.04	1.92	5.12	13.54	9.22	5.84	3.84	1.84	
11	1.60	1.32	1.68	1.20	3.84	1.76	4.00	7.53	8.96	5.60	3.84	2.08	
12	1.48	1.32	1.48	1.08	3.60	1.60	3.44	6.56	7.92	5.24	3.76	2.16	
13	1.32	1.24	1.16	0.96	2.32	1.48	2.96	11.70	7.53	4.80	3.44	2.48	
14	1.20	0.96	0.92	0.80	2.08	1.48	2.56	11.85	6.80	4.10	3.28	7.66	
15	1.28	1.24	0.80	0.76	1.84	1.40	2.40	10.70	6.44	4.00	3.20	7.79	
16	1.12	1.36	1.56	0.80	1.52	1.32	2.32	15.14	5.36	4.30	3.12	8.05	
17	0.84	1.08	1.24	0.72	1.36	1.32	3.20	9.35	4.90	3.68	3.28	11.26	
18	1.08	0.96	0.84	0.64	1.24	1.28	2.40	7.92	5.24	4.50	3.20	8.05	
19	1.16	1.00	0.76	0.64	1.28	4.70	2.72	6.92	4.30	3.36	3.20	6.80	
20	1.16	0.88	0.68	0.64	1.28	2.08	2.32	6.44	4.20	3.28	2.48	7.92	
21	1.08	0.76	0.64	0.68	1.24	1.60	2.00	6.80	3.84	3.36	2.08	6.56	
22	1.00	0.68	0.60	0.60	1.16	2.00	1.76	6.32	4.50	4.10	2.16	7.92	
23	1.00	0.88	0.60	0.76	1.12	1.48	1.68	5.96	7.79	3.84	2.64	8.96	
24	0.76	1.04	0.64	0.80	1.12	1.40	1.56	6.08	7.53	3.68	2.72	7.40	
25	1.08	0.92	1.44	0.72	1.84	1.28	1.44	5.60	12.75	3.84	2.72	6.68	
26	0.84	1.56	1.44	0.72	5.00	3.52	1.44	7.79	52.60	5.60	2.40	6.08	
27	0.84	0.96	1.56	0.72	3.12	2.40	1.44	7.16	13.86	4.40	2.08	5.12	
28	1.08	1.08	3.12	1.04	8.44	1.60	1.40	9.35	10.28	4.20	1.84	4.60	
29	1.16	0.96	1.60	1.28	9.74	2.48	1.32	7.79	9.09	11.70		4.40	
30	1.20	1.04	1.36	5.60	7.53	1.92	1.36	8.83	8.57	8.31		3.84	
31		0.80		4.80	5.72		1.52		7.79	6.68		3.84	
Total	35.96	35.12	37.80	35.04	96.23	67.96	94.45	199.13	267.41	165.30	101.40	147.97	1283.77 CMSDAY
Mean	1.20	1.13	1.26	1.13	3.10	2.27	3.05	6.64	8.63	5.33	3.62	4.77	3.52 CMS
Max	2.32	3.12	3.60	5.60	9.74	4.70	8.57	15.14	52.60	11.70	6.32	11.26	52.60 CMS
Min	0.76	0.68	0.36	0.52	1.12	1.28	1.32	1.40	3.84	3.28	1.84	1.60	0.36 CMS
Runoff	3.107	3.034	3.266	3.027	8.314	5.872	8.160	17.205	23.104	14.282	8.761	12.785	110.918 MCM

Momentary Peak 74.59 CMS, at 16.07 M (MSL), at 6.00 Hours, on Dec 26, 1992

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

WATER YEAR 1992

SOUTHERN PENNINSULA EAST COAST

Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)

Location — Lat.08-25-35 N., Long. 99-51-53 E.,On left bank upstream side of the bridge, Ban Wang Kong, Amphoe Muang, Nakhon Si Thammarat.

Drainage Area — 39 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On left bank about 10 meters from the top staff gage.

Elevation — +7.274 m.(A.D.)

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

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

Period of Available Gage Records — 1967 to date.

Rating Operation

Period of Rating — 1967 - 1971, 1980, 1989 to date.

Rated by Float —

Rated by Current Meter — 1967 - 1971, 1980, 1989 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — Overbank flow starts at elevation + 5.67 m.(A.D.), records are channel flow only.

General Description — Records good. Stage-discharge relation defined by 51 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

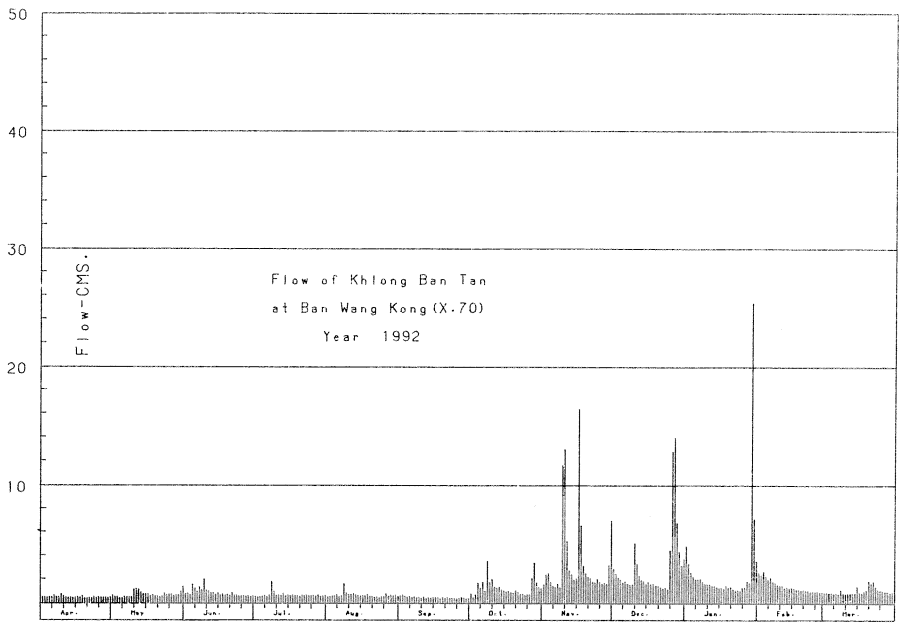
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.40	0.46	0.36	0.36	0.38	0.43	0.72	1.12	1.49	1.03	0.48	
2	0.35	0.38	0.45	0.36	0.36	0.42	0.35	0.97	1.00	1.22	0.96	0.47	
3	0.35	0.36	0.43	0.35	0.39	0.37	0.41	1.02	0.91	1.02	1.06	0.47	
4	0.35	0.34	0.70	0.38	0.38	0.36	0.75	0.76	0.83	0.93	0.92	0.46	
5	0.36	0.34	0.61	0.39	0.41	0.36	0.61	0.67	0.77	0.86	0.85	0.46	
6	0.40	0.36	0.50	0.37	0.37	0.35	0.76	0.62	0.78	0.84	0.89	0.45	
7	0.37	0.36	0.62	0.40	0.38	0.35	0.51	0.72	0.73	0.87	0.79	0.45	
8	0.35	0.36	0.56	0.80	0.74	0.34	1.27	0.63	0.68	0.77	0.74	0.54	
9	0.45	0.37	0.86	0.50	0.48	0.34	0.75	2.45	0.72	0.73	0.70	0.46	
10	0.38	0.58	0.55	0.41	0.42	0.33	0.86	2.61	1.54	0.70	0.68	0.45	
11	0.36	0.58	0.51	0.40	0.44	0.35	0.64	1.56	1.22	0.70	0.66	0.44	
12	0.35	0.58	0.49	0.40	0.45	0.32	0.59	1.08	0.94	0.67	0.62	0.46	
13	0.34	0.48	0.46	0.45	0.42	0.33	0.64	0.98	0.85	0.65	0.62	0.45	
14	0.34	0.45	0.43	0.40	0.39	0.33	0.55	0.84	0.78	0.64	0.61	0.47	
15	0.34	0.43	0.46	0.40	0.38	0.33	0.52	0.86	0.73	0.62	0.60	0.64	
16	0.35	0.44	0.42	0.40	0.38	0.35	0.51	2.98	0.77	0.60	0.58	0.47	
17	0.34	0.40	0.43	0.40	0.40	0.33	0.51	1.79	0.72	0.59	0.57	0.47	
18	0.38	0.40	0.41	0.40	0.42	0.31	0.49	1.18	0.71	0.66	0.55	0.50	
19	0.34	0.39	0.42	0.38	0.38	0.34	0.46	1.01	0.68	0.62	0.55	0.55	
20	0.33	0.37	0.41	0.38	0.36	0.32	0.55	0.93	0.65	0.62	0.54	0.79	
21	0.33	0.36	0.47	0.40	0.35	0.33	0.48	0.87	0.62	0.58	0.54	0.74	
22	0.33	0.37	0.41	0.40	0.35	0.32	0.45	0.79	0.60	0.54	0.52	0.78	
23	0.36	0.47	0.40	0.40	0.34	0.31	0.43	0.75	0.60	0.53	0.51	0.65	
24	0.34	0.41	0.39	0.40	0.36	0.32	0.41	0.87	0.57	0.53	0.50	0.56	
25	0.35	0.44	0.39	0.40	0.38	0.31	0.44	0.76	1.44	0.60	0.50	0.55	
26	0.34	0.42	0.38	0.39	0.44	0.31	0.41	0.73	2.59	0.61	0.50	0.52	
27	0.34	0.40	0.38	0.39	0.39	0.35	0.89	0.74	2.71	0.80	0.49	0.51	
28	0.34	0.40	0.38	0.40	0.40	0.32	1.24	0.73	1.83	0.74	0.48	0.49	
29	0.34	0.42	0.37	0.38	0.40	0.31	0.75	1.18	1.41	3.85		0.48	
30	0.34	0.50	0.37	0.37	0.40	0.31	0.62	1.85	1.18	1.88		0.47	
31		0.64		0.39	0.38		0.58		1.29	1.25		0.49	
Mean	0.35	0.43	0.47	0.41	0.40	0.34	0.61	1.12	1.03	0.89	0.66	0.52	
Max	0.45	0.64	0.86	0.80	0.74	0.42	1.27	2.98	2.71	3.85	1.06	0.79	3.85
Min	0.33	0.34	0.37	0.35	0.34	0.31	0.35	0.62	0.57	0.53	0.48	0.44	0.31

Annual Max Momentary Gage Height — 6.00 M (A.D), at 18.00 Hours, on Nov 9, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — 0.05 M (A.D)

Left Bank Elevation — 6.16 M (A.D)

Right Bank Elevation — 5.66 M (A.D), Drainage Area — 39 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.58	0.70	0.88	0.58	0.58	0.64	0.79	1.66	2.98	4.84	2.62	0.94	
2	0.55	0.64	0.85	0.58	0.58	0.76	0.55	2.41	2.50	3.40	2.38	0.91	
3	0.55	0.58	0.79	0.55	0.67	0.61	0.73	2.58	2.23	2.58	2.74	0.91	
4	0.55	0.52	1.60	0.64	0.64	0.58	1.75	1.78	1.99	2.29	2.26	0.88	
5	0.58	0.52	1.33	0.67	0.73	0.58	1.33	1.51	1.81	2.08	2.05	0.88	
6	0.70	0.58	1.00	0.61	0.61	0.55	1.78	1.36	1.84	2.02	2.17	0.85	
7	0.61	0.58	1.36	0.70	0.64	0.55	1.03	1.66	1.69	2.11	1.87	0.85	
8	0.55	0.58	1.18	1.90	1.72	0.52	3.65	1.39	1.54	1.81	1.72	1.12	
9	0.85	0.61	2.08	1.00	0.94	0.52	1.75	11.65	1.66	1.69	1.60	0.88	
10	0.64	1.24	1.15	0.73	0.76	0.49	2.08	13.09	5.14	1.60	1.54	0.85	
11	0.58	1.24	1.03	0.70	0.82	0.55	1.42	5.26	3.40	1.60	1.48	0.82	
12	0.55	1.24	0.97	0.70	0.85	0.46	1.27	2.82	2.32	1.51	1.36	0.88	
13	0.52	0.94	0.88	0.85	0.76	0.49	1.42	2.44	2.05	1.45	1.36	0.85	
14	0.52	0.85	0.79	0.70	0.67	0.49	1.15	2.02	1.84	1.42	1.33	0.91	
15	0.52	0.79	0.88	0.70	0.64	0.49	1.06	2.08	1.69	1.36	1.30	1.42	
16	0.55	0.82	0.76	0.70	0.64	0.55	1.03	16.42	1.81	1.30	1.24	0.91	
17	0.52	0.70	0.79	0.70	0.70	0.49	1.03	6.64	1.66	1.27	1.21	0.91	
18	0.64	0.70	0.73	0.70	0.76	0.43	0.97	3.22	1.63	1.48	1.15	1.00	
19	0.52	0.67	0.76	0.64	0.64	0.52	0.88	2.54	1.54	1.36	1.15	1.15	
20	0.49	0.61	0.73	0.64	0.58	0.46	1.15	2.29	1.45	1.36	1.12	1.87	
21	0.49	0.58	0.91	0.70	0.55	0.49	0.94	2.11	1.36	1.24	1.12	1.72	
22	0.49	0.61	0.73	0.70	0.55	0.46	0.85	1.87	1.30	1.12	1.06	1.84	
23	0.58	0.91	0.70	0.70	0.52	0.43	0.79	1.75	1.30	1.09	1.03	1.45	
24	0.52	0.73	0.67	0.70	0.58	0.46	0.73	2.11	1.21	1.09	1.00	1.18	
25	0.55	0.82	0.67	0.70	0.64	0.43	0.82	1.78	4.54	1.30	1.00	1.15	
26	0.52	0.76	0.64	0.67	0.82	0.43	0.73	1.69	12.91	1.33	1.00	1.06	
27	0.52	0.70	0.64	0.67	0.67	0.55	2.17	1.72	13.99	1.90	0.97	1.03	
28	0.52	0.70	0.64	0.70	0.70	0.46	3.50	1.69	6.88	1.72	0.94	0.97	
29	0.52	0.76	0.61	0.64	0.70	0.43	1.75	3.22	4.36	25.45		0.94	
30	0.52	1.00	0.61	0.61	0.70	0.43	1.36	7.00	3.22	7.18		0.91	
31		1.42		0.67	0.64		1.24		3.75	3.55		0.97	
Total	16.80	24.10	27.36	22.45	22.00	15.30	41.70	109.76	97.59	85.50	41.77	33.01	537.34 CMSDAY
Mean	0.56	0.78	0.91	0.72	0.71	0.51	1.35	3.66	3.15	2.76	1.49	1.06	1.47 CMS
Max	0.85	1.42	2.08	1.90	1.72	0.76	3.65	16.42	13.99	25.45	2.74	1.87	25.45 CMS
Min	0.49	0.52	0.61	0.55	0.52	0.43	0.55	1.36	1.21	1.09	0.94	0.82	0.43 CMS
Runoff	1.452	2.082	2.364	1.940	1.901	1.322	3.603	9.483	8.432	7.387	3.609	2.852	46.426 MCM

Momentary Peak 54.60 CMS, at 6.00 M (A.D), at 18.00 Hours, on Nov 9, 1992
Runoff Yield 37.75 Liters/Second/Square KM, Momentary Peak Yield 1400.00 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

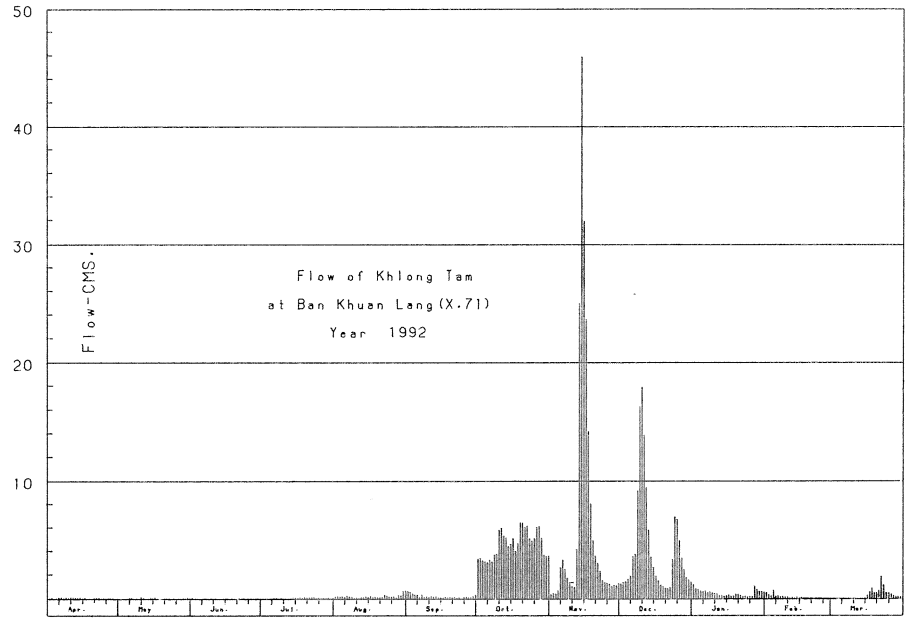
Khlong Tam at Ban Khuan Lang(3), Songkhla (X.71)

Location	Lat. 6°-59'-55" N., Long. 100°-25'-58" E., on right bank downstream side of the bridge of Phet Kasem Highway at Khuan Lang(3), Amphoe Hat Yai, Songkhla.
Drainage Area	127 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.65 m. (M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank about 40 meters from the top staff gage.
Elevation	+7.064 m. (M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1967 to date.
Rating Operation	
Period of Rating	1967-1972, 1983 to date.
Rated by Float	-
Rated by Current Meter	1967-1972, 1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.71	2.66	2.68	2.68	2.82	3.09	3.89	2.96	3.33	3.30	3.05	2.65	
2	2.72	2.64	2.65	2.66	2.80	3.04	3.89	2.98	3.36	3.20	2.93	2.65	
3	2.70	2.67	2.63	2.66	2.82	2.99	3.86	2.98	3.40	3.14	2.87	2.64	
4	2.70	2.68	2.63	2.64	2.80	2.92	3.83	3.09	3.45	3.10	3.11	2.65	
5	2.74	2.68	2.64	2.68	2.82	2.94	3.83	3.74	3.56	3.08	2.87	2.66	
6	2.73	2.67	2.66	2.70	2.84	2.77	3.86	3.87	3.92	3.08	2.85	2.65	
7	2.73	2.67	2.66	2.68	2.83	2.93	3.84	3.70	3.97	3.04	2.82	2.69	
8	2.75	2.66	2.65	2.72	2.77	2.78	3.96	3.50	4.84	3.04	2.80	2.68	
9	2.74	2.66	2.64	2.69	2.73	2.78	3.96	3.36	5.65	3.03	2.79	2.67	
10	2.75	2.75	2.63	2.66	2.71	2.79	4.34	3.25	5.82	2.98	2.77	2.66	
11	2.76	2.73	2.63	2.64	2.71	2.81	4.38	3.24	5.40	2.96	2.75	2.64	
12	2.74	2.67	2.63	2.68	2.73	2.81	4.27	4.04	4.89	2.92	2.73	2.64	
13	2.74	2.67	2.63	2.67	2.78	2.79	4.23	6.43	4.34	2.89	2.73	2.64	
14	2.73	2.73	2.63	2.76	2.78	2.75	4.10	7.33	3.92	2.88	2.74	2.65	
15	2.71	2.73	2.63	2.72	2.80	2.75	4.13	6.89	3.73	2.91	2.72	2.75	
16	2.71	2.73	2.62	2.69	2.82	2.75	4.22	6.32	3.54	2.91	2.72	2.90	
17	2.67	2.70	2.61	2.72	2.77	2.74	4.02	5.44	3.43	2.87	2.70	3.07	
18	2.71	2.64	2.61	2.74	2.75	2.75	4.14	4.69	3.30	2.84	2.69	3.19	
19	2.70	2.64	2.67	2.74	2.78	2.74	4.46	4.20	3.24	2.97	2.69	3.04	
20	2.69	2.68	2.69	2.74	2.75	2.75	4.44	3.93	3.21	2.94	2.69	3.00	
21	2.70	2.69	2.68	2.71	2.78	2.74	4.38	3.81	3.18	2.90	2.68	3.12	
22	2.72	2.66	2.65	2.79	2.93	2.72	4.41	3.66	3.23	2.84	2.67	3.56	
23	2.69	2.65	2.67	2.73	2.85	2.71	4.23	3.44	3.87	2.82	2.67	3.29	
24	2.68	2.65	2.66	2.71	2.77	2.68	4.18	3.36	4.53	2.81	2.67	3.03	
25	2.67	2.64	2.64	2.70	2.81	2.75	4.23	3.36	4.49	2.80	2.67	2.99	
26	2.68	2.64	2.64	2.69	2.78	2.79	4.38	3.31	4.20	2.84	2.67	2.97	
27	2.67	2.67	2.63	2.72	2.74	2.77	4.40	3.27	3.90	3.27	2.67	2.87	
28	2.68	2.67	2.69	2.72	2.89	2.76	4.23	3.28	3.69	3.14	2.65	2.82	
29	2.67	2.72	2.68	2.70	2.92	2.81	3.95	3.29	3.52	3.09		2.79	
30	2.67	2.72	2.67	2.70	3.07	2.93	3.92	3.33	3.43	3.06		2.78	
31		2.72		2.70	3.09		3.93		3.39	3.03		2.77	
Mean	2.71	2.68	2.65	2.70	2.81	2.81	4.13	4.00	3.93	2.99	2.76	2.84	
Max	2.76	2.75	2.69	2.79	3.09	3.09	4.46	7.33	5.82	3.30	3.11	3.56	7.33
Min	2.67	2.64	2.61	2.64	2.71	2.68	3.83	2.96	3.18	2.80	2.65	2.64	2.61

Annual Max Momentary Gage Height 7.34 M (MSL), at 12.00 Hours, on Nov 14, 1992
Zero Gage at Bottom Elevation 0.65 M (MSL), River Bed 2.05 M (MSL)
Left Bank Elevation 8.07 M (MSL)
Right Bank Elevation 8.15 M (MSL), Drainage Area 127 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.11	0.06	0.08	0.08	0.22	0.68	3.45	0.42	1.29	1.20	0.60	0.05	
2	0.12	0.04	0.05	0.06	0.20	0.58	3.45	0.46	1.38	0.90	0.36	0.05	
3	0.10	0.07	0.03	0.06	0.22	0.48	3.30	0.46	1.50	0.78	0.27	0.04	
4	0.10	0.08	0.03	0.04	0.20	0.34	3.15	0.68	1.65	0.70	0.72	0.05	
5	0.14	0.08	0.04	0.08	0.22	0.38	3.15	2.70	1.98	0.66	0.27	0.06	
6	0.13	0.07	0.06	0.10	0.24	0.17	3.30	3.35	3.60	0.66	0.25	0.05	
7	0.13	0.07	0.06	0.08	0.23	0.36	3.20	2.50	3.85	0.58	0.22	0.09	
8	0.15	0.06	0.05	0.12	0.17	0.18	3.80	1.80	9.18	0.58	0.20	0.08	
9	0.14	0.06	0.04	0.09	0.13	0.18	3.80	1.38	16.30	0.56	0.19	0.07	
10	0.15	0.15	0.03	0.06	0.11	0.19	5.84	1.05	18.02	0.46	0.17	0.06	
11	0.16	0.13	0.03	0.04	0.11	0.21	6.08	1.02	13.90	0.42	0.15	0.04	
12	0.14	0.07	0.03	0.08	0.13	0.21	5.42	4.20	9.53	0.34	0.13	0.04	
13	0.14	0.07	0.03	0.07	0.18	0.19	5.18	24.99	5.84	0.29	0.13	0.04	
14	0.13	0.13	0.03	0.16	0.18	0.15	4.50	45.97	3.60	0.28	0.14	0.05	
15	0.11	0.13	0.03	0.12	0.20	0.15	4.65	32.02	2.65	0.32	0.12	0.15	
16	0.11	0.13	0.02	0.09	0.22	0.15	5.12	23.64	1.92	0.32	0.12	0.30	
17	0.07	0.10	0.01	0.12	0.17	0.14	4.10	14.26	1.59	0.27	0.10	0.64	
18	0.11	0.04	0.01	0.14	0.15	0.15	4.70	8.13	1.20	0.24	0.09	0.88	
19	0.10	0.04	0.07	0.14	0.18	0.14	6.56	5.00	1.02	0.44	0.09	0.58	
20	0.09	0.08	0.09	0.14	0.15	0.15	6.44	3.65	0.93	0.38	0.09	0.50	
21	0.10	0.09	0.08	0.11	0.18	0.14	6.08	3.05	0.86	0.30	0.08	0.74	
22	0.12	0.06	0.05	0.19	0.36	0.12	6.26	2.34	0.99	0.24	0.07	1.98	
23	0.09	0.05	0.07	0.13	0.25	0.11	5.18	1.62	3.35	0.22	0.07	1.17	
24	0.08	0.05	0.06	0.11	0.17	0.08	4.90	1.38	7.01	0.21	0.07	0.56	
25	0.07	0.04	0.04	0.10	0.21	0.15	5.18	1.38	6.74	0.20	0.07	0.48	
26	0.08	0.04	0.04	0.09	0.18	0.19	6.08	1.23	5.00	0.24	0.07	0.44	
27	0.07	0.07	0.03	0.12	0.14	0.17	6.20	1.11	3.50	1.11	0.07	0.27	
28	0.08	0.07	0.09	0.12	0.29	0.16	5.18	1.14	2.46	0.78	0.05	0.22	
29	0.07	0.12	0.08	0.10	0.34	0.21	3.75	1.17	1.86	0.68		0.19	
30	0.07	0.12	0.07	0.10	0.64	0.36	3.60	1.29	1.59	0.62		0.18	
31		0.12		0.10	0.68		3.65		1.47	0.56		0.17	
Total	3.26	2.49	1.43	3.14	7.05	6.87	145.25	193.39	135.76	15.54	4.96	10.22	529.36 CMSDAY
Mean	0.11	0.08	0.05	0.10	0.23	0.23	4.69	6.45	4.38	0.50	0.18	0.33	1.45 CMS
Max	0.16	0.15	0.09	0.19	0.68	0.68	6.56	45.97	18.02	1.20	0.72	1.98	45.97 CMS
Min	0.07	0.04	0.01	0.04	0.11	0.08	3.15	0.42	0.86	0.20	0.05	0.04	0.01 CMS
Runoff	0.282	0.215	0.124	0.271	0.609	0.594	12.550	16.709	11.730	1.343	0.429	0.883	45.737 MCM

Momentary Peak 46.46 CMS, at 7.34 M (MSL), at 12.00 Hours, on Nov 14, 1992

Runoff Yield 11.42 Liters/Second/Square KM, Momentary Peak Yield 365.83 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Tan Yong Mat at Rangae, Narathiwat (X.73)

Location — Lat. 6°-17'-44" N., Long. 101°-44'-04" E., on right bank about 20 meters upstream from the bridge on highway, Amphoe Rangae, Narathiwat.

Drainage Area — 336 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On right bank near the top staff gage.

Elevation — +6.096 m.(A.D.)

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

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

Period of Available Gage Records — 1967 to date.

Rating Operation

Period of Rating — 1985 to date.

Rated by Float — -

Rated by Current Meter — 1985 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 48 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

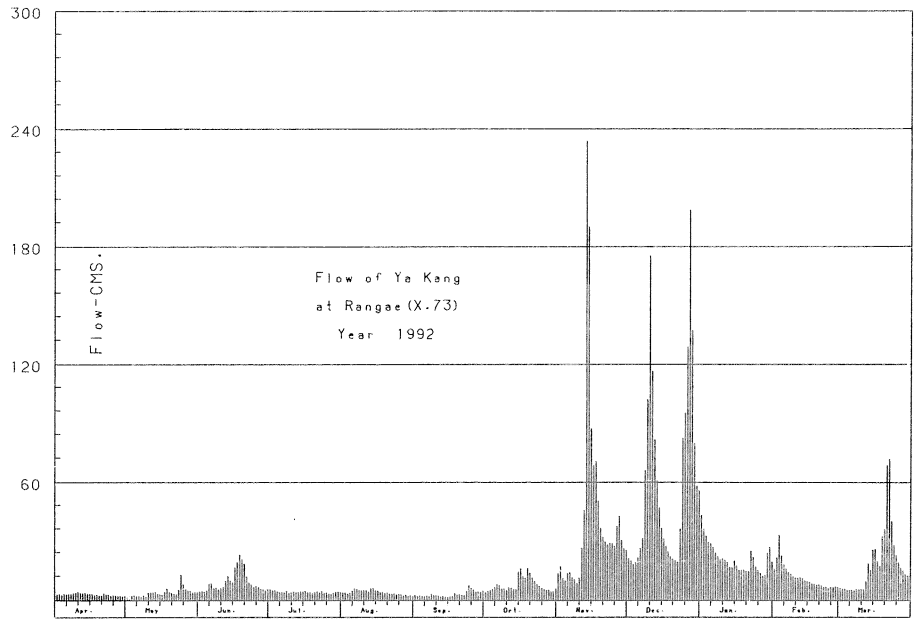
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.82	0.71	0.92	1.03	0.91	0.74	0.92	1.63	2.09	3.21	1.79	1.10	
2	0.81	0.74	0.98	1.02	0.87	0.73	0.95	1.87	2.01	2.86	2.10	1.09	
3	0.79	0.74	0.91	0.99	0.85	0.72	1.03	1.47	1.93	2.70	2.72	1.06	
4	0.81	0.73	1.01	0.96	0.85	0.73	1.04	1.41	1.96	2.52	2.18	1.04	
5	0.83	0.71	1.28	0.92	1.00	0.72	1.16	1.67	2.12	2.51	1.92	1.03	
6	0.81	0.70	1.28	0.90	1.08	0.71	1.28	1.66	2.36	2.38	1.78	1.00	
7	0.83	0.69	1.12	0.92	1.08	0.74	1.20	1.53	2.64	2.25	1.69	1.01	
8	0.86	0.73	1.11	0.96	0.99	0.80	1.10	1.43	4.21	2.13	1.61	1.04	
9	0.91	0.70	1.06	0.89	1.02	0.77	1.06	1.32	5.30	2.06	1.55	1.07	
10	0.92	0.86	1.09	0.88	0.99	0.73	1.03	1.49	5.82	2.07	1.49	1.04	
11	0.90	0.92	1.17	0.92	0.99	0.71	1.12	2.36	5.46	2.05	1.48	1.03	
12	0.88	0.92	1.38	0.92	0.95	0.70	1.13	3.31	4.80	1.98	1.52	1.38	
13	0.87	0.93	1.57	0.89	1.11	0.69	1.04	6.08	3.97	1.85	1.47	1.95	
14	0.84	0.84	1.39	0.96	1.09	0.68	1.07	5.89	3.39	1.82	1.42	1.73	
15	0.82	0.79	1.35	0.96	1.01	0.67	1.71	4.97	2.88	2.03	1.38	2.31	
16	0.80	0.76	1.84	0.95	0.97	0.66	1.79	4.31	2.61	1.87	1.34	2.35	
17	0.78	0.95	1.97	0.92	0.93	0.74	1.56	4.37	2.43	1.76	1.30	1.99	
18	0.77	1.08	2.20	0.89	0.90	0.83	1.48	3.54	2.26	1.74	1.26	1.88	
19	0.76	0.94	2.05	0.88	0.88	0.79	1.82	2.90	2.15	1.77	1.24	2.67	
20	0.77	0.86	1.94	0.90	0.87	0.78	1.65	2.65	2.06	1.70	1.23	2.85	
21	0.85	0.81	1.53	0.93	0.85	0.74	1.49	2.53	2.02	1.72	1.20	4.31	
22	0.81	0.81	1.34	0.92	0.84	0.77	1.40	2.47	2.00	2.30	1.16	4.42	
23	0.77	1.05	1.23	0.95	0.82	0.99	1.27	2.49	2.88	2.11	1.14	3.06	
24	0.75	1.59	1.16	0.89	0.81	1.23	1.18	2.50	4.81	1.86	1.11	2.45	
25	0.74	1.25	1.18	0.87	0.80	1.10	1.11	2.41	5.19	1.73	1.14	2.16	
26	0.73	1.09	1.17	0.85	0.78	1.02	1.08	2.94	5.55	1.64	1.17	1.96	
27	0.72	1.01	1.08	0.83	0.76	0.95	1.03	3.17	5.93	1.57	1.18	1.82	
28	0.72	0.96	1.04	0.85	0.75	0.92	1.01	2.59	5.61	1.58	1.13	1.71	
29	0.72	0.91	1.02	0.94	0.74	0.93	0.96	2.36	4.72	2.24		1.62	
30	0.70	0.89	1.04	0.91	0.73	0.97	0.93	2.30	3.87	2.39		1.55	
31		0.92		0.90	0.72		1.09		3.75	1.98		1.50	
Mean	0.80	0.89	1.31	0.92	0.90	0.81	1.22	2.72	3.51	2.08	1.49	1.84	
Max	0.92	1.59	2.20	1.03	1.11	1.23	1.82	6.08	5.93	3.21	2.72	4.42	6.08
Min	0.70	0.69	0.91	0.83	0.72	0.66	0.92	1.32	1.93	1.57	1.11	1.00	0.66

Annual Max Momentary Gage Height — 6.15 M (A.D), at 12.00 Hours, on Nov 13, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -1.94 M (A.D)

Left Bank Elevation — 8.25 M (A.D)

Right Bank Elevation — 7.47 M (A.D), Drainage Area 336 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	2.10	4.20	5.33	4.10	2.40	4.20	13.48	21.42	43.61	16.04	6.10	
2	3.10	2.40	4.80	5.22	3.70	2.30	4.50	17.46	19.98	36.26	21.60	5.99	
3	2.90	2.40	4.10	4.90	3.50	2.20	5.33	11.05	18.54	33.00	33.40	5.66	
4	3.10	2.30	5.11	4.60	3.50	2.30	5.44	10.15	19.08	29.48	23.04	5.44	
5	3.30	2.10	8.44	4.20	5.00	2.20	6.88	14.12	21.96	29.29	18.36	5.33	
6	3.10	2.00	8.44	4.00	5.88	2.10	8.44	13.96	26.44	26.82	15.88	5.00	
7	3.30	1.92	6.36	4.20	5.88	2.40	7.40	11.95	31.80	24.35	14.44	5.11	
8	3.60	2.30	6.23	4.60	4.90	3.00	6.10	10.45	66.35	22.14	13.16	5.44	
9	4.10	2.00	5.66	3.90	5.22	2.70	5.66	8.96	102.00	20.88	12.25	5.77	
10	4.20	3.60	5.99	3.80	4.90	2.30	5.33	11.35	175.20	21.06	11.35	5.44	
11	4.00	4.20	7.01	4.20	4.90	2.10	6.36	26.44	116.82	20.70	11.20	5.33	
12	3.80	4.20	9.74	4.20	4.50	2.00	6.49	45.72	82.00	19.44	11.80	9.74	
13	3.70	4.30	12.55	3.90	6.23	1.92	5.44	234.10	60.81	17.10	11.05	18.90	
14	3.40	3.40	9.87	4.60	5.99	1.84	5.77	189.90	47.48	16.56	10.30	15.08	
15	3.20	2.90	9.35	4.60	5.11	1.76	14.76	87.51	36.68	20.34	9.74	25.49	
16	3.00	2.60	16.92	4.50	4.70	1.68	16.04	68.86	31.20	17.46	9.22	26.25	
17	2.80	4.50	19.26	4.20	4.30	2.40	12.40	70.42	27.77	15.56	8.70	19.62	
18	2.70	5.88	23.40	3.90	4.00	3.30	11.20	50.92	24.54	15.24	8.18	17.64	
19	2.60	4.40	20.70	3.80	3.80	2.90	16.56	37.10	22.50	15.72	7.92	32.40	
20	2.70	3.60	18.72	4.00	3.70	2.80	13.80	32.00	20.88	14.60	7.79	36.05	
21	3.50	3.10	11.95	4.30	3.50	2.40	11.35	29.67	20.16	14.92	7.40	68.86	
22	3.10	3.10	9.22	4.20	3.40	2.70	10.00	28.53	19.80	25.30	6.88	71.72	
23	2.70	5.55	7.79	4.50	3.20	4.90	8.31	28.91	36.68	21.78	6.62	40.46	
24	2.50	12.85	6.88	3.90	3.10	7.79	7.14	29.10	82.32	17.28	6.23	28.15	
25	2.40	8.05	7.14	3.70	3.00	6.10	6.23	27.39	95.60	15.08	6.62	22.68	
26	2.30	5.99	7.01	3.50	2.80	5.22	5.88	37.94	128.75	13.64	7.01	19.08	
27	2.20	5.11	5.88	3.30	2.60	4.50	5.33	42.77	198.75	12.55	7.14	16.56	
28	2.20	4.60	5.44	3.50	2.50	4.20	5.11	30.81	137.60	12.70	6.49	14.76	
29	2.20	4.10	5.22	4.40	2.40	4.30	4.60	26.44	79.68	24.16		13.32	
30	2.00	3.90	5.44	4.10	2.30	4.70	4.30	25.30	58.51	27.01		12.25	
31		4.20		4.00	2.20		5.99		55.75	19.44		11.50	
Total	90.90	123.65	278.82	130.05	124.81	93.41	242.34	1272.76	1887.05	663.47	329.81	581.12	5818.19 CMSDAY
Mean	3.03	3.99	9.29	4.20	4.03	3.11	7.82	42.43	60.87	21.40	11.78	18.75	15.94 CMS
Max	4.20	12.85	23.40	5.33	6.23	7.79	16.56	234.10	198.75	43.61	33.40	71.72	234.10 CMS
Min	2.00	1.92	4.10	3.30	2.20	1.68	4.20	8.96	18.54	12.55	6.23	5.00	1.68 CMS
Runoff	7.854	10.683	24.090	11.236	10.784	8.071	20.938	109.966	163.041	57.324	28.496	50.209	502.692 MCM

Momentary Peak 251.75 CMS, at 6.15 M (A.D), at 12.00 Hours, on Nov 13, 1992
Runoff Yield 47.44 Liters/Second/Square KM, Momentary Peak Yield 749.26 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

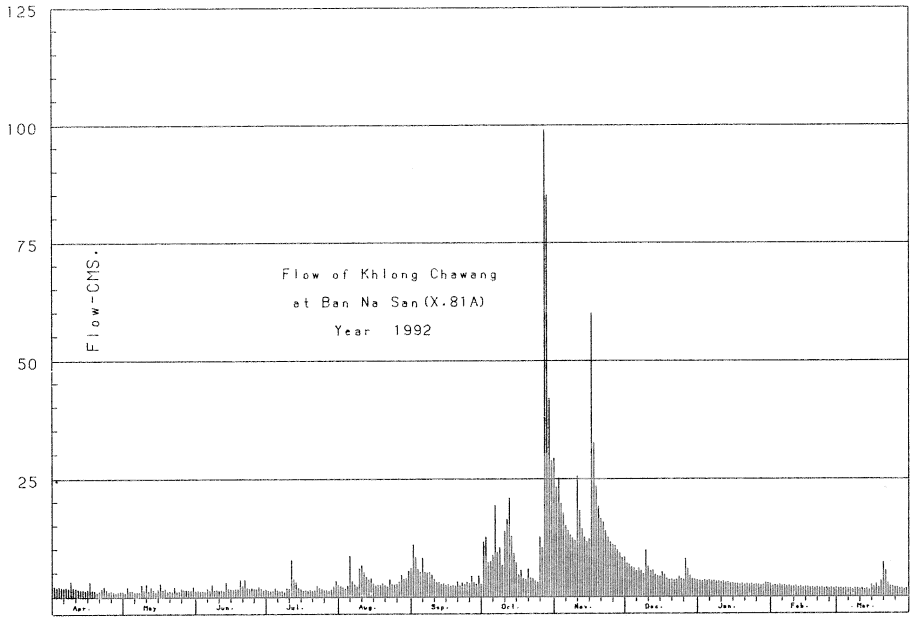
Khlong Chawang at Ban Na San, Surat Thani (X.81A)

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	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 72 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	0.60	0.64	0.64	0.77	1.08	1.09	1.33	0.98	0.85	0.77	0.71	
2	0.74	0.73	0.64	0.64	0.72	1.01	1.12	1.36	0.97	0.86	0.77	0.70	
3	0.74	0.65	0.63	0.63	0.71	0.95	0.98	1.27	0.96	0.86	0.77	0.70	
4	0.74	0.64	0.63	0.72	0.76	0.93	0.99	1.23	0.95	0.86	0.78	0.70	
5	0.73	0.62	0.69	0.65	1.02	1.01	1.02	1.18	0.94	0.86	0.77	0.70	
6	0.73	0.60	0.64	0.64	0.86	0.93	1.26	1.15	0.95	0.86	0.77	0.69	
7	0.72	0.62	0.80	0.63	0.79	0.93	1.04	1.13	0.94	0.85	0.76	0.68	
8	0.85	0.78	0.67	0.62	0.76	0.93	1.06	1.11	0.92	0.85	0.76	0.69	
9	0.72	0.65	0.66	0.70	0.95	0.92	0.97	1.10	1.05	0.84	0.75	0.71	
10	0.71	0.81	0.66	0.71	0.97	0.88	1.15	1.37	0.96	0.84	0.75	0.69	
11	0.67	0.65	0.65	1.00	0.93	0.84	1.21	1.24	0.94	0.84	0.75	0.69	
12	0.68	0.75	0.65	0.89	0.91	0.83	1.29	1.16	0.94	0.83	0.74	0.68	
13	0.66	0.66	0.84	0.83	0.87	0.81	1.12	1.12	0.92	0.83	0.74	0.68	
14	0.66	0.62	0.69	0.73	0.90	0.81	1.03	1.09	0.91	0.82	0.73	0.67	
15	0.67	0.67	0.68	0.68	0.81	0.79	0.98	1.11	0.91	0.81	0.73	0.77	
16	0.85	0.81	0.68	0.66	0.78	0.79	0.92	1.80	0.93	0.81	0.73	0.73	
17	0.67	0.68	0.68	0.65	0.78	0.77	0.94	1.48	0.92	0.80	0.73	0.79	
18	0.64	0.69	0.70	0.65	0.79	0.77	0.90	1.33	0.89	0.80	0.72	0.73	
19	0.62	0.63	0.88	0.66	0.81	0.77	0.87	1.26	0.88	0.80	0.72	0.86	
20	0.64	0.63	0.76	0.65	0.77	0.84	0.95	1.21	0.87	0.80	0.72	0.98	
21	0.69	0.63	0.87	0.65	0.76	0.78	0.90	1.20	0.87	0.80	0.72	0.94	
22	0.76	0.73	0.73	0.78	0.89	0.82	0.90	1.15	0.87	0.80	0.72	0.81	
23	0.66	0.63	0.69	0.71	0.79	0.81	0.85	1.12	0.91	0.80	0.71	0.76	
24	0.63	0.62	0.73	0.70	0.80	0.83	0.84	1.09	0.88	0.79	0.71	0.74	
25	0.63	0.71	0.71	0.67	0.81	0.82	1.12	1.08	0.88	0.80	0.71	0.73	
26	0.60	0.66	0.68	0.65	0.84	0.91	1.06	1.07	1.00	0.78	0.71	0.71	
27	0.60	0.68	0.75	0.65	0.92	0.84	2.12	1.05	0.95	0.78	0.71	0.70	
28	0.60	0.65	0.69	0.67	0.88	0.80	2.01	1.03	0.91	0.78	0.71	0.69	
29	0.64	0.67	0.67	0.76	0.89	0.91	1.60	1.01	0.89	0.83		0.68	
30	0.61	0.74	0.67	0.85	0.94	0.81	1.42	1.01	0.87	0.81		0.68	
31		0.65		0.78	0.95		1.43		0.87	0.80		0.69	
Mean	0.69	0.67	0.70	0.70	0.84	0.86	1.13	1.19	0.92	0.82	0.74	0.73	
Max	0.85	0.81	0.88	1.00	1.02	1.08	2.12	1.80	1.05	0.86	0.78	0.98	2.12
Min	0.60	0.60	0.63	0.62	0.71	0.77	0.84	1.01	0.87	0.78	0.71	0.67	0.60

Annual Max Momentary Gage Height 2.69 M (A.D), at 21.00 Hours, on Oct 27, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.30 M (A.D)
Left Bank Elevation 6.12 M (A.D)
Right Bank Elevation 5.63 M (A.D), Drainage Area 220 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.25	1.00	1.32	1.32	2.43	11.20	11.60	23.37	7.20	3.35	2.43	1.89	
2	2.16	2.07	1.32	1.32	1.98	8.40	12.80	25.14	6.80	3.48	2.43	1.80	
3	2.16	1.40	1.24	1.24	1.89	6.00	7.20	19.92	6.40	3.48	2.43	1.80	
4	2.16	1.32	1.24	1.98	2.34	5.20	7.60	17.68	6.00	3.48	2.52	1.80	
5	2.07	1.16	1.72	1.40	8.80	8.40	8.80	15.20	5.60	3.48	2.43	1.80	
6	2.07	1.00	1.32	1.32	3.48	5.20	19.36	14.00	6.00	3.48	2.43	1.72	
7	1.98	1.16	2.70	1.24	2.61	5.20	9.60	13.20	5.60	3.35	2.34	1.64	
8	3.35	2.52	1.56	1.16	2.34	5.20	10.40	12.40	4.80	3.35	2.34	1.72	
9	1.98	1.40	1.48	1.80	6.00	4.80	6.80	12.00	10.00	3.22	2.25	1.89	
10	1.89	2.83	1.48	1.89	6.80	3.74	14.00	25.73	6.40	3.22	2.25	1.72	
11	1.56	1.40	1.40	8.00	5.20	3.22	16.56	18.24	5.60	3.22	2.25	1.72	
12	1.64	2.25	1.40	3.87	4.40	3.09	21.04	14.40	5.60	3.09	2.16	1.64	
13	1.48	1.48	3.22	3.09	3.61	2.83	12.80	12.80	4.80	3.09	2.16	1.64	
14	1.48	1.16	1.72	2.07	4.00	2.83	9.20	11.60	4.40	2.96	2.07	1.56	
15	1.56	1.56	1.64	1.64	2.83	2.61	7.20	12.40	4.40	2.83	2.07	2.43	
16	3.35	2.83	1.64	1.48	2.52	2.61	4.80	60.00	5.20	2.83	2.07	2.07	
17	1.56	1.64	1.64	1.40	2.52	2.43	5.60	32.70	4.80	2.70	2.07	2.61	
18	1.32	1.72	1.80	1.40	2.61	2.43	4.00	23.37	3.87	2.70	1.98	2.07	
19	1.16	1.24	3.74	1.48	2.83	2.43	3.61	19.36	3.74	2.70	1.98	3.48	
20	1.32	1.24	2.34	1.40	2.43	3.22	6.00	16.56	3.61	2.70	1.98	7.20	
21	1.72	1.24	3.61	1.40	2.34	2.52	4.00	16.00	3.61	2.70	1.98	5.60	
22	2.34	2.07	2.07	2.52	3.87	2.96	4.00	14.00	3.61	2.70	1.98	2.83	
23	1.48	1.24	1.72	1.89	2.61	2.83	3.35	12.80	4.40	2.70	1.89	2.34	
24	1.24	1.16	2.07	1.80	2.70	3.09	3.22	11.60	3.74	2.61	1.89	2.16	
25	1.24	1.89	1.89	1.56	2.83	2.96	12.80	11.20	3.74	2.70	1.89	2.07	
26	1.00	1.48	1.64	1.40	3.22	4.40	10.40	10.80	8.00	2.52	1.89	1.89	
27	1.00	1.64	2.25	1.40	4.80	3.22	98.92	10.00	6.00	2.52	1.89	1.80	
28	1.00	1.40	1.72	1.56	3.74	2.70	85.22	9.20	4.40	2.52	1.89	1.72	
29	1.32	1.56	1.56	2.34	3.87	4.40	42.00	8.40	3.87	3.09		1.64	
30	1.08	2.16	1.56	3.35	5.60	2.83	28.80	8.40	3.61	2.83		1.64	
31		1.40		2.52	6.00		29.45		3.61	2.70		1.72	
Total	51.92	49.62	56.01	62.24	113.20	122.95	521.13	512.47	159.41	92.30	59.94	69.61	1870.80 CMSDAY
Mean	1.73	1.60	1.87	2.01	3.65	4.10	16.81	17.08	5.14	2.98	2.14	2.25	5.13 CMS
Max	3.35	2.83	3.74	8.00	8.80	11.20	98.92	60.00	10.00	3.48	2.52	7.20	98.92 CMS
Min	1.00	1.00	1.24	1.16	1.89	2.43	3.22	8.40	3.61	2.52	1.89	1.56	1.00 CMS
Runoff	4.486	4.287	4.839	5.378	9.780	10.623	45.026	44.277	13.773	7.975	5.179	6.014	161.637 MCM

Momentary Peak 194.90 CMS, at 2.69 M (A.D), at 21.00 Hours, on Oct 27, 1992
Runoff Yield 23.30 Liters/Second/Square KM, Momentary Peak Yield 885.91 Liters/Second/Square KM

WATER YEAR 1992

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.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.680 m. (M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank about 28 meters from the top staff gage.

Elevation — +8.335 m.(M.S.L.)

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

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

Period of Available Gage Records — 1971 to date.

Rating Operation

Period of Rating — 1971-1972, 1979 to date.

Rated by Float — -

Rated by Current Meter — 1971-1972, 1979 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — Overbank flow starts at elevation + 8.40 m.(M.S.L.),records are channel flow only.

General Description — Records good. Stage-discharge relation defined by 39 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

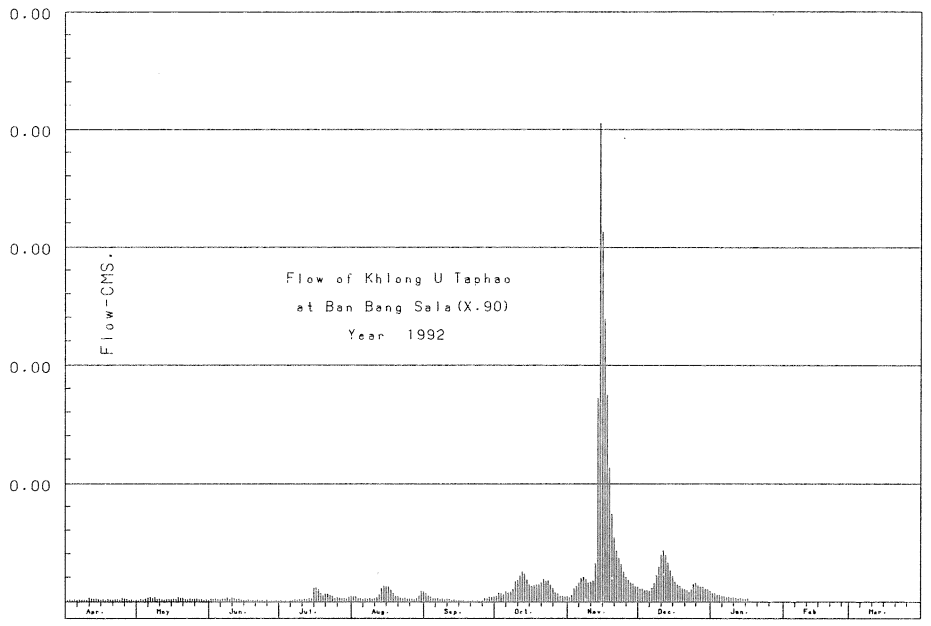
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.10	1.08	1.24	1.00	1.64	1.89	1.64	1.52	2.33	1.96	1.43	0.80	
2	1.09	1.20	1.32	1.02	1.55	1.72	1.99	1.69	2.26	1.89	1.30	0.80	
3	1.09	1.19	1.26	1.04	1.41	1.52	1.89	2.36	2.20	1.79	1.23	0.80	
4	1.13	1.25	1.24	1.02	1.33	1.41	1.84	2.50	2.14	1.72	1.17	0.79	
5	1.11	1.49	1.22	1.06	1.31	1.39	2.13	2.82	2.16	1.69	1.16	0.79	
6	1.11	1.49	1.24	1.10	1.31	1.34	1.92	3.20	2.33	1.58	1.15	0.79	
7	1.10	1.45	1.37	1.13	1.35	1.29	2.08	3.20	2.81	1.55	1.15	0.79	
8	1.11	1.49	1.43	1.16	1.33	1.26	2.24	3.12	3.33	1.50	1.15	0.78	
9	1.13	1.30	1.32	1.20	1.31	1.25	2.96	2.77	3.87	1.47	1.12	0.78	
10	1.41	1.24	1.43	1.19	1.31	1.23	3.01	2.86	4.54	1.44	1.07	0.78	
11	1.35	1.25	1.32	1.22	1.44	1.19	3.35	3.00	4.75	1.40	1.04	0.77	
12	1.35	1.21	1.27	1.25	1.86	1.13	3.60	4.01	4.52	1.37	1.02	0.81	
13	1.27	1.15	1.23	1.32	2.38	1.11	3.42	7.81	4.06	1.36	1.01	0.86	
14	1.18	1.19	1.16	1.38	2.52	1.10	3.09	9.31	3.66	1.33	0.98	0.90	
15	1.16	1.24	1.13	2.42	2.54	1.07	2.63	8.85	3.26	1.31	0.96	1.03	
16	1.15	1.26	1.12	2.37	2.45	1.04	2.50	8.37	2.93	1.28	0.95	1.42	
17	1.15	1.30	1.10	2.27	2.25	1.01	2.62	7.84	2.68	1.26	0.94	1.44	
18	1.20	1.49	1.09	1.89	1.91	0.98	2.61	7.20	2.50	1.25	0.93	1.44	
19	1.21	1.47	1.07	1.73	1.69	0.98	2.70	6.25	2.34	1.24	0.91	1.42	
20	1.19	1.38	1.07	1.84	1.58	0.97	2.79	5.37	2.23	1.22	0.88	1.49	
21	1.17	1.29	1.07	1.91	1.48	0.98	3.06	4.77	2.14	1.23	0.87	1.36	
22	1.15	1.22	1.05	1.79	1.41	0.99	2.99	4.36	2.05	1.23	0.87	1.32	
23	1.16	1.29	1.04	1.61	1.39	0.98	2.96	3.97	2.27	1.25	0.87	1.34	
24	1.38	1.32	1.04	1.46	1.34	0.98	2.68	3.58	2.67	1.24	0.86	1.36	
25	1.38	1.26	1.03	1.46	1.27	0.99	2.32	3.22	2.77	1.22	0.84	1.28	
26	1.19	1.25	1.00	1.47	1.22	1.44	2.04	3.01	2.61	1.20	0.83	1.18	
27	1.13	1.23	1.05	1.42	1.24	1.40	1.86	2.85	2.51	1.18	0.82	1.10	
28	1.11	1.19	1.03	1.35	1.33	1.50	1.69	2.69	2.44	1.16	0.82	1.04	
29	1.09	1.14	1.02	1.33	1.73	1.58	1.58	2.54	2.33	1.15		1.00	
30	1.08	1.12	1.02	1.49	2.09	1.53	1.60	2.43	2.22	1.26		0.97	
31		1.12		1.60	2.09		1.58		2.08	1.41		0.95	
Mean	1.18	1.28	1.17	1.47	1.65	1.24	2.43	4.25	2.81	1.39	1.01	1.04	
Max	1.41	1.49	1.43	2.42	2.54	1.89	3.60	9.31	4.75	1.96	1.43	1.49	9.31
Min	1.08	1.08	1.00	1.00	1.22	0.97	1.58	1.52	2.05	1.15	0.82	0.77	0.77

Annual Max Momentary Gage Height — 9.45 M (MSL), at 3.00 Hours, on Nov 14, 1992

Zero Gage at Bottom Elevation — 0.68 M (MSL), River Bed — 0.05 M (MSL)

Left Bank Elevation — 8.97 M (MSL)

Right Bank Elevation — 8.39 M (MSL), Drainage Area — 1562 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	1.40	2.20	1.00	4.80	6.90	4.80	3.90	11.30	7.60	3.23	0.00	
2	1.45	2.00	2.60	1.10	4.13	5.40	7.90	5.18	10.60	6.90	2.50	0.00	
3	1.45	1.95	2.30	1.20	3.08	3.90	6.90	11.60	10.00	5.93	2.15	0.00	
4	1.65	2.25	2.20	1.10	2.65	3.08	6.40	13.00	9.40	5.40	1.85	0.00	
5	1.55	3.68	2.10	1.30	2.55	2.95	9.30	16.20	9.60	5.18	1.80	0.00	
6	1.55	3.68	2.20	1.50	2.55	2.70	7.20	20.50	11.30	4.35	1.75	0.00	
7	1.50	3.38	2.85	1.65	2.75	2.45	8.80	20.50	16.10	4.13	1.75	0.00	
8	1.55	3.68	3.23	1.80	2.65	2.30	10.40	19.50	22.12	3.75	1.75	0.00	
9	1.65	2.50	2.60	2.00	2.55	2.25	17.60	15.70	30.05	3.53	1.60	0.00	
10	3.08	2.20	3.23	1.95	2.55	2.15	18.12	16.60	40.10	3.30	1.35	0.00	
11	2.75	2.25	2.60	2.10	3.30	1.95	22.37	18.00	43.25	3.00	1.20	0.00	
12	2.75	2.05	2.35	2.25	6.60	1.65	26.00	32.15	39.80	2.85	1.10	0.05	
13	2.35	1.75	2.15	2.60	11.80	1.55	23.30	172.15	32.90	2.80	1.05	0.30	
14	1.90	1.95	1.80	2.90	13.20	1.50	19.12	405.75	26.90	2.65	0.90	0.50	
15	1.80	2.20	1.65	12.20	13.40	1.35	14.30	313.50	21.25	2.55	0.80	1.15	
16	1.75	2.30	1.60	11.70	12.50	1.20	13.00	239.10	17.30	2.40	0.75	3.15	
17	1.75	2.50	1.50	10.70	10.50	1.05	14.20	175.60	14.80	2.30	0.70	3.30	
18	2.00	3.68	1.45	6.90	7.10	0.90	14.10	114.00	13.00	2.25	0.65	3.30	
19	2.05	3.53	1.35	5.48	5.18	0.90	15.00	74.25	11.40	2.20	0.55	3.15	
20	1.95	2.90	1.35	6.40	4.35	0.85	15.90	54.40	10.30	2.10	0.40	3.68	
21	1.85	2.45	1.35	7.10	3.60	0.90	18.75	43.55	9.40	2.15	0.35	2.80	
22	1.75	2.10	1.25	5.93	3.08	0.95	17.90	37.40	8.50	2.15	0.35	2.60	
23	1.80	2.45	1.20	4.58	2.95	0.90	17.60	31.55	10.70	2.25	0.35	2.70	
24	2.90	2.60	1.20	3.45	2.70	0.90	14.80	25.70	14.70	2.20	0.30	2.80	
25	2.90	2.30	1.15	3.45	2.35	0.95	11.20	20.75	15.70	2.10	0.20	2.40	
26	1.95	2.25	1.00	3.53	2.10	3.30	8.40	18.12	14.10	2.00	0.15	1.90	
27	1.65	2.15	1.25	3.15	2.20	3.00	6.60	16.50	13.10	1.90	0.10	1.50	
28	1.55	1.95	1.15	2.75	2.65	3.75	5.18	14.90	12.40	1.80	0.10	1.20	
29	1.45	1.70	1.10	2.65	5.48	4.35	4.35	13.40	11.30	1.75		1.00	
30	1.40	1.60	1.10	3.68	8.90	3.98	4.50	12.30	10.20	2.30		0.85	
31		1.60		4.50	8.90		4.35		8.80	3.08		0.75	
Total	57.18	74.98	55.06	122.60	163.10	69.96	388.34	1975.75	530.37	98.85	29.73	39.08	3605.00 CMSDAY
Mean	1.91	2.42	1.84	3.95	5.26	2.33	12.53	65.86	17.11	3.19	1.06	1.26	9.88 CMS
Max	3.08	3.68	3.23	12.20	13.40	6.90	26.00	405.75	43.25	7.60	3.23	3.68	405.75 CMS
Min	1.40	1.40	1.00	1.00	2.10	0.85	4.35	3.90	8.50	1.75	0.10	0.00	0.00 CMS
Runoff	4.940	6.478	4.757	10.593	14.092	6.045	33.553	170.705	45.824	8.541	2.569	3.377	311.472 MCM

Momentary Peak 438.00 CMS, at 9.45 M (MSL), at 3.00 Hours, on Nov 14, 1992
Runoff Yield 6.32 Liters/Second/Square KM, Momentary Peak Yield 280.41 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

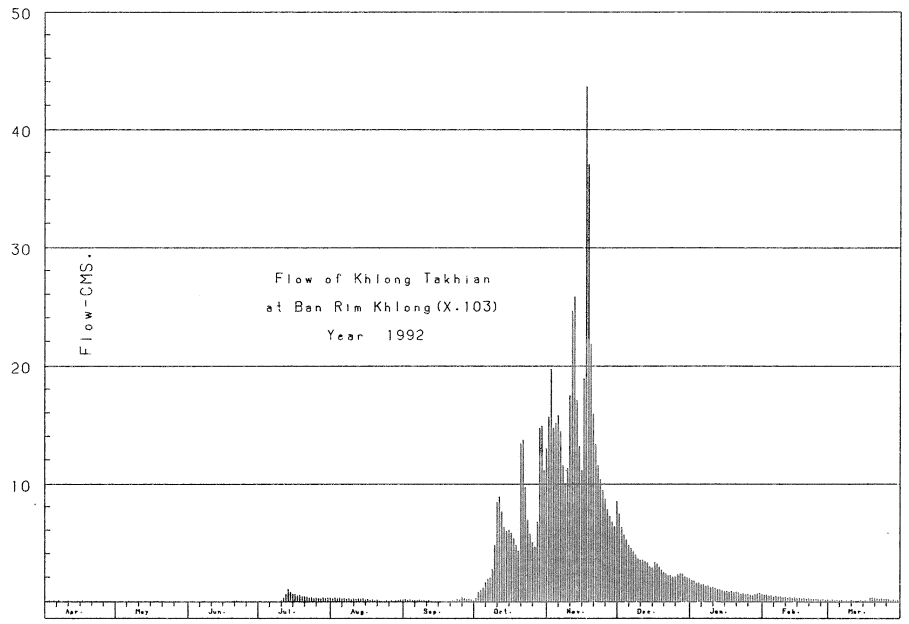
Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103)

Location	Lat. 9°-25'-31" N., Long. 99°-09'-44" E., on right bank at Ban Rim Khlong, Amphoe Chaiya, Surat Thani.
Drainage Area	180 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+7.201 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank at the abutment of the bridge.
Elevation	+14.745 m.(M.S.L.)
Gage Reading Frequency	13-time daily readings at 06.00-18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.65	7.62	7.62	7.62	7.75	7.69	7.73	9.78	9.05	8.21	7.87	7.67	
2	7.65	7.62	7.61	7.61	7.76	7.69	7.95	10.10	8.91	8.18	7.85	7.67	
3	7.65	7.62	7.61	7.61	7.75	7.68	7.98	9.70	8.84	8.15	7.84	7.67	
4	7.65	7.63	7.63	7.60	7.75	7.68	8.05	9.73	8.78	8.14	7.83	7.66	
5	7.65	7.62	7.60	7.60	7.74	7.68	8.16	9.79	8.73	8.12	7.82	7.66	
6	7.65	7.62	7.61	7.60	7.73	7.68	8.22	9.67	8.69	8.11	7.82	7.66	
7	7.64	7.62	7.63	7.60	7.73	7.67	8.27	9.43	8.66	8.09	7.81	7.65	
8	7.64	7.63	7.60	7.61	7.72	7.67	8.42	9.30	8.62	8.08	7.80	7.65	
9	7.64	7.62	7.60	7.61	7.71	7.66	8.73	9.41	8.58	8.06	7.79	7.65	
10	7.64	7.62	7.59	7.68	7.72	7.66	9.15	9.93	8.55	8.05	7.78	7.66	
11	7.64	7.62	7.59	7.75	7.73	7.65	9.19	10.44	8.55	8.03	7.77	7.66	
12	7.63	7.62	7.60	7.89	7.72	7.64	9.07	10.52	8.54	8.02	7.76	7.65	
13	7.63	7.62	7.62	8.01	7.73	7.63	8.91	9.89	8.51	8.00	7.76	7.65	
14	7.65	7.62	7.62	7.95	7.72	7.63	8.87	9.57	8.47	7.99	7.76	7.65	
15	7.65	7.62	7.61	7.90	7.71	7.63	8.89	9.40	8.44	7.97	7.75	7.65	
16	7.65	7.66	7.60	7.87	7.70	7.63	8.85	10.04	8.52	7.96	7.75	7.65	
17	7.64	7.66	7.61	7.85	7.69	7.63	8.80	11.49	8.51	7.95	7.74	7.66	
18	7.64	7.63	7.61	7.85	7.68	7.63	8.72	11.16	8.46	7.95	7.73	7.78	
19	7.63	7.63	7.63	7.83	7.67	7.64	8.67	10.26	8.41	7.94	7.72	7.76	
20	7.63	7.63	7.66	7.81	7.67	7.65	9.59	9.80	8.38	7.93	7.72	7.74	
21	7.63	7.62	7.64	7.79	7.66	7.64	9.61	9.58	8.34	7.91	7.71	7.74	
22	7.63	7.62	7.65	7.78	7.66	7.66	9.27	9.43	8.31	7.90	7.71	7.72	
23	7.63	7.62	7.64	7.77	7.65	7.69	9.00	9.33	8.30	7.89	7.70	7.71	
24	7.63	7.61	7.65	7.76	7.66	7.70	8.84	9.24	8.28	7.88	7.69	7.71	
25	7.62	7.61	7.66	7.76	7.65	7.80	8.75	9.17	8.27	7.87	7.69	7.70	
26	7.62	7.61	7.65	7.76	7.65	7.74	8.71	9.09	8.33	7.86	7.69	7.69	
27	7.62	7.61	7.64	7.75	7.65	7.72	8.97	9.03	8.35	7.85	7.68	7.67	
28	7.62	7.62	7.64	7.76	7.65	7.70	9.70	8.97	8.33	7.86	7.68	7.67	
29	7.62	7.61	7.63	7.76	7.68	7.68	9.71	8.93	8.29	7.91		7.66	
30	7.62	7.60	7.63	7.75	7.68	7.67	9.40	9.15	8.25	7.90		7.66	
31		7.59		7.75	7.70		9.55		8.23	7.87		7.66	
Mean	7.64	7.62	7.62	7.75	7.70	7.67	8.83	9.71	8.50	7.99	7.76	7.68	
Max	7.65	7.66	7.66	8.01	7.76	7.80	9.71	11.49	9.05	8.21	7.87	7.78	11.49
Min	7.62	7.59	7.59	7.60	7.65	7.63	7.73	8.93	8.23	7.85	7.68	7.65	7.59

Annual Max Momentary Gage Height 11.63 M (MSL), at 18.00 Hours, on Nov 17, 1992
Zero Gage at Bottom Elevation 7.20 M (MSL), River Bed 6.95 M (MSL)
Left Bank Elevation 15.41 M (MSL)
Right Bank Elevation 14.97 M (MSL), Drainage Area 180 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.04	0.04	0.04	0.30	0.18	0.26	15.76	7.50	1.84	0.61	0.14	
2	0.10	0.04	0.02	0.02	0.32	0.18	0.85	19.70	6.28	1.72	0.55	0.14	
3	0.10	0.04	0.02	0.02	0.30	0.16	0.94	14.80	5.72	1.60	0.52	0.14	
4	0.10	0.06	0.06	0.00	0.30	0.16	1.20	15.16	5.24	1.56	0.49	0.12	
5	0.10	0.04	0.00	0.00	0.28	0.16	1.64	15.88	4.84	1.48	0.46	0.12	
6	0.10	0.04	0.02	0.00	0.26	0.16	1.88	14.44	4.52	1.44	0.46	0.12	
7	0.08	0.04	0.06	0.00	0.26	0.14	2.08	11.56	4.28	1.36	0.43	0.10	
8	0.08	0.06	0.00	0.02	0.24	0.14	2.72	10.10	3.96	1.32	0.40	0.10	
9	0.08	0.04	0.00	0.02	0.22	0.12	4.84	11.32	3.68	1.24	0.38	0.10	
10	0.08	0.04	0.00	0.16	0.24	0.12	8.50	17.56	3.50	1.20	0.36	0.12	
11	0.08	0.04	0.00	0.30	0.26	0.10	8.90	24.64	3.50	1.12	0.34	0.12	
12	0.06	0.04	0.00	0.67	0.24	0.08	7.70	25.92	3.44	1.08	0.32	0.10	
13	0.06	0.04	0.04	1.04	0.26	0.06	6.28	17.08	3.26	1.00	0.32	0.10	
14	0.10	0.04	0.04	0.85	0.24	0.06	5.96	13.24	3.02	0.97	0.32	0.10	
15	0.10	0.04	0.02	0.70	0.22	0.06	6.12	11.20	2.84	0.91	0.30	0.10	
16	0.10	0.12	0.00	0.61	0.20	0.06	5.80	18.92	3.32	0.88	0.30	0.10	
17	0.08	0.12	0.02	0.55	0.18	0.06	5.40	43.69	3.26	0.85	0.28	0.12	
18	0.08	0.06	0.02	0.55	0.16	0.06	4.76	37.04	2.96	0.85	0.26	0.36	
19	0.06	0.06	0.06	0.49	0.14	0.08	4.36	21.90	2.66	0.82	0.24	0.32	
20	0.06	0.06	0.12	0.43	0.14	0.10	13.48	16.00	2.52	0.79	0.24	0.28	
21	0.06	0.04	0.08	0.38	0.12	0.08	13.72	13.36	2.36	0.73	0.22	0.28	
22	0.06	0.04	0.10	0.36	0.12	0.12	9.77	11.56	2.24	0.70	0.22	0.24	
23	0.06	0.04	0.08	0.34	0.10	0.18	7.00	10.43	2.20	0.67	0.20	0.22	
24	0.06	0.02	0.10	0.32	0.12	0.20	5.72	9.44	2.12	0.64	0.18	0.22	
25	0.04	0.02	0.12	0.32	0.10	0.40	5.00	8.70	2.08	0.61	0.18	0.20	
26	0.04	0.02	0.10	0.32	0.10	0.28	4.68	7.90	2.32	0.58	0.18	0.18	
27	0.04	0.02	0.08	0.30	0.10	0.24	6.76	7.30	2.40	0.55	0.16	0.14	
28	0.04	0.04	0.08	0.32	0.10	0.20	14.80	6.76	2.32	0.58	0.16	0.14	
29	0.04	0.02	0.06	0.32	0.16	0.16	14.92	6.44	2.16	0.73		0.12	
30	0.04	0.00	0.06	0.30	0.16	0.14	11.20	8.50	2.00	0.70		0.12	
31		0.00		0.30	0.20		13.00		1.92	0.61		0.12	
Total	2.18	1.32	1.40	10.05	6.14	4.24	200.24	466.30	104.42	31.13	9.08	4.88	841.38 CMSDAY
Mean	0.07	0.04	0.05	0.32	0.20	0.14	6.46	15.54	3.37	1.00	0.32	0.16	2.31 CMS
Max	0.10	0.12	0.12	1.04	0.32	0.40	14.92	43.69	7.50	1.84	0.61	0.36	43.69 CMS
Min	0.04	0.00	0.00	0.00	0.10	0.06	0.26	6.44	1.92	0.55	0.16	0.10	0.00 CMS
Runoff	0.188	0.114	0.121	0.868	0.530	0.366	17.301	40.288	9.022	2.690	0.785	0.422	72.695 MCM

Momentary Peak 46.63 CMS, at 11.63 M (MSL), at 18.00 Hours, on Nov 17, 1992

Runoff Yield 12.81 Liters/Second/Square KM, Momentary Peak Yield 259.06 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104)

Location — Lat. 9°-34'-47" N., Long. 99°-08'-14" E., on left bank at Ban Samo Thong, Amphoe Tha Chana, Surat Thani.

Drainage Area — 354 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +6.702 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On left bank about 21 meters downstream from the top staff gage.

Elevation — +15.447 m.(M.S.L.)

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

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

Period of Available Gage Records — 1978 to date.

Rating Operation

Period of Rating — 1978 to date.

Rated by Float — -

Rated by Current Meter — 1978 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 23 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

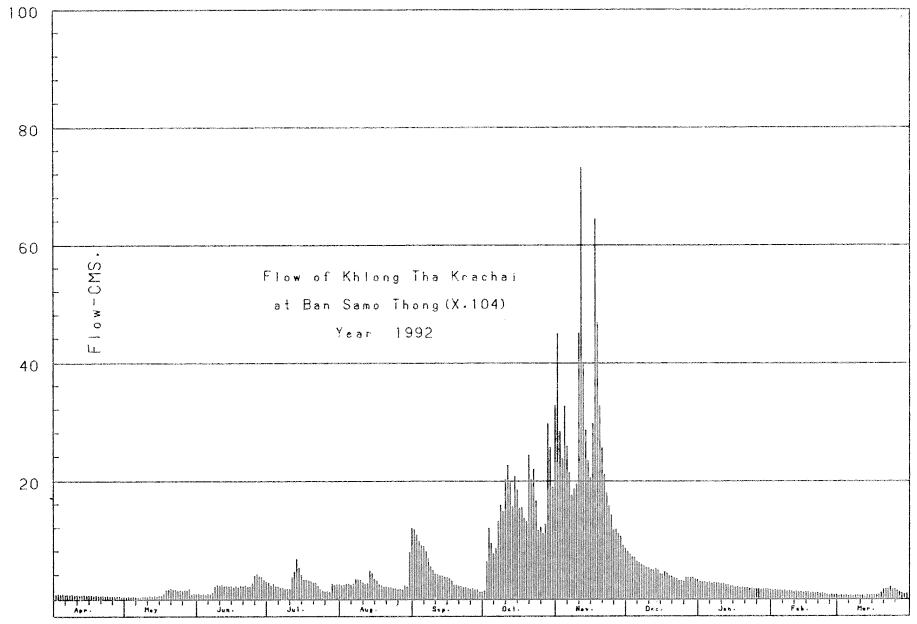
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.99	6.93	6.99	7.18	7.14	7.70	7.05	8.69	7.52	7.20	7.06	6.96	
2	6.99	6.93	6.98	7.14	7.14	7.66	7.42	8.27	7.49	7.20	7.06	6.96	
3	6.99	6.93	6.98	7.16	7.17	7.60	7.71	8.13	7.47	7.19	7.06	6.96	
4	6.99	6.93	6.98	7.13	7.16	7.57	7.59	8.40	7.46	7.19	7.05	6.96	
5	6.98	6.93	6.99	7.11	7.15	7.56	7.50	8.20	7.43	7.19	7.05	6.95	
6	6.98	6.92	6.99	7.10	7.16	7.52	7.54	8.06	7.41	7.18	7.05	6.95	
7	6.98	6.92	7.01	7.09	7.24	7.45	7.77	7.94	7.40	7.18	7.04	6.95	
8	6.98	6.93	7.12	7.08	7.23	7.38	7.88	7.97	7.38	7.18	7.04	6.95	
9	6.97	6.94	7.14	7.07	7.22	7.34	7.84	8.00	7.37	7.17	7.04	6.96	
10	6.97	6.94	7.14	7.08	7.19	7.31	8.02	8.69	7.36	7.17	7.03	6.96	
11	6.97	6.94	7.14	7.26	7.15	7.30	8.10	9.28	7.35	7.16	7.03	6.95	
12	6.97	6.94	7.13	7.33	7.18	7.29	8.01	8.58	7.34	7.15	7.03	6.96	
13	6.97	6.95	7.12	7.45	7.34	7.28	7.87	8.28	7.36	7.14	7.02	6.96	
14	6.97	6.95	7.13	7.36	7.31	7.27	8.04	8.12	7.34	7.13	7.02	6.96	
15	6.96	6.95	7.12	7.29	7.24	7.26	7.97	8.03	7.31	7.12	7.02	6.96	
16	6.96	6.95	7.11	7.23	7.21	7.25	7.86	8.31	7.30	7.11	7.02	6.96	
17	6.96	7.00	7.12	7.22	7.16	7.21	7.86	9.11	7.33	7.11	7.01	6.97	
18	6.96	7.05	7.11	7.22	7.13	7.15	7.79	8.73	7.31	7.10	7.01	6.97	
19	6.96	7.07	7.12	7.20	7.12	7.14	7.76	8.40	7.29	7.10	7.01	7.02	
20	6.95	7.08	7.13	7.19	7.11	7.13	8.15	8.19	7.27	7.10	7.01	7.06	
21	6.95	7.07	7.13	7.18	7.11	7.12	8.02	8.05	7.26	7.09	7.00	7.08	
22	6.95	7.06	7.12	7.13	7.10	7.11	8.08	7.95	7.24	7.09	7.00	7.07	
23	6.95	7.05	7.11	7.07	7.09	7.10	7.91	7.88	7.22	7.08	7.00	7.12	
24	6.94	7.05	7.18	7.05	7.08	7.09	7.69	7.81	7.21	7.08	6.97	7.09	
25	6.94	7.05	7.29	7.04	7.07	7.08	7.72	7.70	7.21	7.08	6.97	7.08	
26	6.94	7.05	7.30	7.03	7.07	7.08	7.67	7.70	7.26	7.07	6.97	7.04	
27	6.94	7.06	7.28	7.03	7.07	7.07	7.74	7.67	7.25	7.07	6.97	7.03	
28	6.94	7.07	7.26	7.16	7.13	7.06	8.31	7.64	7.26	7.07	6.97	7.00	
29	6.93	6.98	7.23	7.15	7.12	7.03	8.19	7.57	7.25	7.07		6.99	
30	6.93	6.99	7.19	7.15	7.51	7.02	7.98	7.54	7.24	7.07		6.99	
31		6.99		7.15	7.71		8.40		7.22	7.06		6.99	
Mean	6.96	6.99	7.12	7.16	7.19	7.27	7.85	8.16	7.33	7.13	7.02	6.99	
Max	6.99	7.08	7.30	7.45	7.71	7.70	8.40	9.28	7.52	7.20	7.06	7.12	9.28
Min	6.93	6.92	6.98	7.03	7.07	7.02	7.05	7.54	7.21	7.06	6.97	6.95	6.92

Annual Max Momentary Gage Height — 9.60 M (MSL), at 18.00 Hours, on Nov 17, 1992

Zero Gage at Bottom Elevation — 6.70 M (MSL), River Bed — 6.62 M (MSL)

Left Bank Elevation — 16.79 M (MSL)

Right Bank Elevation — 16.02 M (MSL), Drainage Area — 354 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	0.44	0.92	2.80	2.40	11.80	1.50	45.05	8.20	3.00	1.60	0.68	
2	0.92	0.44	0.84	2.40	2.40	11.00	6.36	28.38	7.62	3.00	1.60	0.68	
3	0.92	0.44	0.84	2.60	2.70	9.80	12.02	23.76	7.26	2.90	1.60	0.68	
4	0.92	0.44	0.84	2.30	2.60	9.20	9.60	32.80	7.08	2.90	1.50	0.68	
5	0.84	0.44	0.92	2.10	2.50	9.00	7.80	26.00	6.54	2.90	1.50	0.60	
6	0.84	0.36	0.92	2.00	2.60	8.20	8.60	21.52	6.18	2.80	1.50	0.60	
7	0.84	0.36	1.10	1.90	3.48	6.90	13.34	17.68	6.00	2.80	1.40	0.60	
8	0.84	0.44	2.20	1.80	3.36	5.64	15.92	18.64	5.64	2.80	1.40	0.60	
9	0.76	0.52	2.40	1.70	3.24	4.92	14.96	19.60	5.46	2.70	1.40	0.68	
10	0.76	0.52	2.40	1.80	2.90	4.38	20.24	45.05	5.28	2.70	1.30	0.68	
11	0.76	0.52	2.40	3.72	2.50	4.20	22.80	73.16	5.10	2.60	1.30	0.60	
12	0.76	0.52	2.30	4.74	2.80	4.08	19.92	40.18	4.92	2.50	1.30	0.68	
13	0.76	0.60	2.20	6.90	4.92	3.96	15.68	28.72	5.28	2.40	1.20	0.68	
14	0.76	0.60	2.30	5.28	4.38	3.84	20.88	23.44	4.92	2.30	1.20	0.68	
15	0.68	0.60	2.20	4.08	3.48	3.72	18.64	20.56	4.38	2.20	1.20	0.68	
16	0.68	0.60	2.10	3.36	3.12	3.60	15.44	29.74	4.20	2.10	1.20	0.68	
17	0.68	1.00	2.20	3.24	2.60	3.12	15.44	64.50	4.74	2.10	1.10	0.76	
18	0.68	1.50	2.10	3.24	2.30	2.50	13.78	46.85	4.38	2.00	1.10	0.76	
19	0.68	1.70	2.20	3.00	2.20	2.40	13.12	32.80	4.08	2.00	1.10	1.20	
20	0.60	1.80	2.30	2.90	2.10	2.30	24.40	25.68	3.84	2.00	1.10	1.60	
21	0.60	1.70	2.30	2.80	2.10	2.20	20.24	21.20	3.72	1.90	1.00	1.80	
22	0.60	1.60	2.20	2.30	2.00	2.10	22.16	18.00	3.48	1.90	1.00	1.70	
23	0.60	1.50	2.10	1.70	1.90	2.00	16.72	15.92	3.24	1.80	1.00	2.20	
24	0.52	1.50	2.80	1.50	1.80	1.90	11.60	14.24	3.12	1.80	0.76	1.90	
25	0.52	1.50	4.08	1.40	1.70	1.80	12.24	11.80	3.12	1.80	0.76	1.80	
26	0.52	1.50	4.20	1.30	1.70	1.80	11.20	11.80	3.72	1.70	0.76	1.40	
27	0.52	1.60	3.96	1.30	1.70	1.70	12.68	11.20	3.60	1.70	0.76	1.30	
28	0.52	1.70	3.72	2.60	2.30	1.60	29.74	10.60	3.72	1.70	0.76	1.00	
29	0.44	0.84	3.36	2.50	2.20	1.30	25.68	9.20	3.60	1.70		0.92	
30	0.44	0.92	2.90	2.50	8.00	1.20	18.96	8.60	3.48	1.70		0.92	
31		0.92		2.50	12.02		32.80		3.24	1.60		0.92	
Total	20.88	29.12	67.30	84.26	96.00	132.16	504.46	796.67	149.14	70.00	33.40	30.66	2014.05 CMSDAY
Mean	0.70	0.94	2.24	2.72	3.10	4.41	16.27	26.56	4.81	2.26	1.19	0.99	5.52 CMS
Max	0.92	1.80	4.20	6.90	12.02	11.80	32.80	73.16	8.20	3.00	1.60	2.20	73.16 CMS
Min	0.44	0.36	0.84	1.30	1.70	1.20	1.50	8.60	3.12	1.60	0.76	0.60	0.36 CMS
Runoff	1.804	2.516	5.815	7.280	8.294	11.419	43.585	68.832	12.886	6.048	2.886	2.649	174.014 MCM

Momentary Peak 90.20 CMS, at 9.60 M (MSL), at 18.00 Hours, on Nov 17, 1992

Runoff Yield 15.59 Liters/Second/Square KM, Momentary Peak Yield 254.80 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Mai Siap at Ban Mai Siap, Nakhon Si Thammarat (X.105)

Location — Lat. 7-51-01 N., Long. 99-55-53 E., on left bank at the bridge of Nakhon Si Thammarat-Phatthalung Highway, at Ban Mai Siap, Amphoe Cha-Uat, Nakhon Si Thammarat.

Drainage Area — 155 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +10.49 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — Infront of the station office.

Elevation — +20.279 m.(M.S.L.)

Gage Reading Frequency — 13-time daily readings at 06.00-18.00 hours.

Basis of Mean Daily Gage Height — Arithmetic mean of 13 readings.

Period of Available Gage Records — 1978 to date.

Rating Operation

Period of Rating — 1979 to date.

Rated by Float — -

Rated by Current Meter — 1979 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 5 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

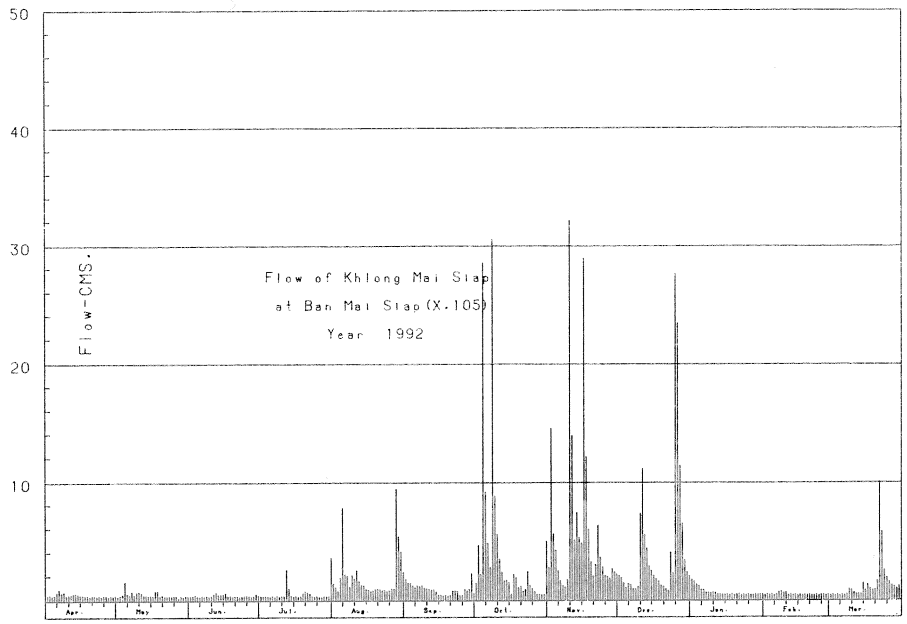
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.18	11.15	11.14	11.15	11.50	11.56	11.49	11.77	11.63	11.56	11.20	11.19	
2	11.18	11.16	11.16	11.15	11.42	11.51	11.97	12.72	11.58	11.52	11.20	11.19	
3	11.17	11.22	11.17	11.14	11.33	11.49	11.64	12.07	11.51	11.48	11.20	11.18	
4	11.17	11.53	11.16	11.16	11.58	11.46	13.28	11.93	11.41	11.44	11.20	11.19	
5	11.30	11.24	11.15	11.14	12.29	11.43	12.38	11.71	11.49	11.38	11.19	11.18	
6	11.37	11.18	11.15	11.15	11.64	11.45	11.99	11.53	11.46	11.35	11.20	11.19	
7	11.28	11.31	11.15	11.14	11.63	11.45	11.77	11.46	11.40	11.28	11.30	11.19	
8	11.29	11.19	11.15	11.16	11.44	11.45	13.34	11.42	11.38	11.26	11.29	11.20	
9	11.19	11.30	11.15	11.14	11.63	11.42	12.36	11.55	11.44	11.27	11.27	11.39	
10	11.18	11.29	11.15	11.15	11.57	11.40	12.06	13.39	12.24	11.26	11.26	11.34	
11	11.22	11.28	11.21	11.14	11.72	11.38	11.85	12.69	12.51	11.25	11.20	11.28	
12	11.25	11.18	11.29	11.73	11.54	11.38	11.69	12.01	12.06	11.23	11.20	11.23	
13	11.24	11.17	11.19	11.39	11.47	11.36	11.54	12.25	11.94	11.20	11.20	11.21	
14	11.23	11.16	11.22	11.18	11.45	11.31	11.54	12.03	11.79	11.21	11.19	11.23	
15	11.17	11.16	11.23	11.16	11.40	11.20	11.50	11.99	11.70	11.21	11.19	11.50	
16	11.17	11.15	11.25	11.15	11.36	11.18	11.22	13.29	11.62	11.20	11.19	11.34	
17	11.17	11.34	11.17	11.15	11.33	11.18	11.64	12.58	11.57	11.20	11.19	11.47	
18	11.16	11.31	11.16	11.14	11.33	11.17	11.60	12.10	11.52	11.21	11.19	11.41	
19	11.15	11.17	11.15	11.26	11.39	11.17	11.43	11.83	11.46	11.20	11.19	11.33	
20	11.16	11.17	11.14	11.31	11.39	11.17	11.44	11.61	11.43	11.20	11.19	11.36	
21	11.16	11.16	11.14	11.27	11.37	11.32	11.30	11.80	11.38	11.21	11.19	11.54	
22	11.16	11.16	11.14	11.25	11.36	11.34	11.39	12.14	11.34	11.20	11.19	12.44	
23	11.16	11.15	11.14	11.15	11.35	11.31	11.70	11.87	11.91	11.20	11.19	12.08	
24	11.15	11.16	11.17	11.14	11.33	11.19	11.45	11.76	11.66	11.20	11.19	11.72	
25	11.16	11.15	11.16	11.15	11.33	11.18	11.40	11.63	13.25	11.20	11.19	11.58	
26	11.15	11.15	11.16	11.14	11.39	11.40	11.32	11.60	13.10	11.20	11.19	11.51	
27	11.15	11.10	11.15	11.14	11.41	11.36	11.22	11.58	12.53	11.20	11.19	11.46	
28	11.16	11.14	11.14	11.14	12.40	11.37	11.20	11.73	12.15	11.20	11.19	11.43	
29	11.16	11.14	11.24	11.16	12.04	11.67	11.20	11.69	11.84	11.21		11.41	
30	11.16	11.15	11.16	11.14	11.92	11.23	11.20	11.64	11.69	11.20		11.44	
31		11.15		11.86	11.68		12.00		11.61	11.20		11.36	
Mean	11.19	11.20	11.17	11.21	11.55	11.35	11.71	11.98	11.79	11.26	11.21	11.41	
Max	11.37	11.53	11.29	11.86	12.40	11.67	13.34	13.39	13.25	11.56	11.30	12.44	13.39
Min	11.15	11.10	11.14	11.14	11.33	11.17	11.20	11.42	11.34	11.20	11.19	11.18	11.10

Annual Max Momentary Gage Height — 15.36 M (MSL), at 18.00 Hours, on Dec 25, 1992

Zero Gage at Bottom Elevation — 10.49 M (MSL), River Bed — 10.58 M (MSL)

Left Bank Elevation — 20.53 M (MSL)

Right Bank Elevation — 20.55 M (MSL), Drainage Area — 155 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.37	0.35	0.37	1.50	1.80	1.45	2.85	2.15	1.80	0.50	0.47	
2	0.45	0.40	0.40	0.37	1.10	1.55	4.70	14.56	1.90	1.60	0.50	0.47	
3	0.43	0.55	0.43	0.35	0.83	1.45	2.20	5.70	1.55	1.40	0.50	0.45	
4	0.43	1.65	0.40	0.40	1.90	1.30	28.60	4.30	1.05	1.20	0.50	0.47	
5	0.75	0.60	0.37	0.35	7.90	1.15	9.20	2.55	1.45	0.95	0.47	0.45	
6	0.93	0.45	0.37	0.37	2.20	1.25	4.90	1.65	1.30	0.88	0.50	0.47	
7	0.70	0.78	0.37	0.35	2.15	1.25	2.85	1.30	1.00	0.70	0.75	0.47	
8	0.73	0.47	0.37	0.40	1.20	1.25	30.55	1.10	0.95	0.65	0.73	0.50	
9	0.47	0.75	0.37	0.35	2.15	1.10	8.90	1.75	1.20	0.68	0.68	0.98	
10	0.45	0.73	0.37	0.37	1.85	1.00	5.60	32.18	7.40	0.65	0.65	0.85	
11	0.55	0.70	0.53	0.35	2.60	0.95	3.50	14.03	11.15	0.63	0.50	0.70	
12	0.63	0.45	0.73	2.65	1.70	0.95	2.45	5.10	5.60	0.57	0.50	0.57	
13	0.60	0.43	0.47	0.98	1.35	0.90	1.70	7.50	4.40	0.50	0.50	0.53	
14	0.57	0.40	0.55	0.45	1.25	0.78	1.70	5.30	2.95	0.53	0.47	0.57	
15	0.43	0.40	0.57	0.40	1.00	0.50	1.50	4.90	2.50	0.53	0.47	1.50	
16	0.43	0.37	0.63	0.37	0.90	0.45	0.55	28.93	2.10	0.50	0.47	0.85	
17	0.43	0.85	0.43	0.37	0.83	0.45	2.20	12.20	1.85	0.50	0.47	1.35	
18	0.40	0.78	0.40	0.35	0.83	0.43	2.00	6.00	1.60	0.53	0.47	1.05	
19	0.37	0.43	0.37	0.65	0.98	0.43	1.15	3.30	1.30	0.50	0.47	0.83	
20	0.40	0.43	0.35	0.78	0.98	0.43	1.20	2.05	1.15	0.50	0.47	0.90	
21	0.40	0.40	0.35	0.68	0.93	0.80	0.75	3.00	0.95	0.53	0.47	1.70	
22	0.40	0.40	0.35	0.63	0.90	0.85	0.98	6.40	0.85	0.50	0.47	10.10	
23	0.40	0.37	0.35	0.37	0.88	0.78	2.50	3.70	4.10	0.50	0.47	5.80	
24	0.37	0.40	0.43	0.35	0.83	0.47	1.25	2.80	2.30	0.50	0.47	2.60	
25	0.40	0.37	0.40	0.37	0.83	0.45	1.00	2.15	27.63	0.50	0.47	1.90	
26	0.37	0.37	0.40	0.35	0.98	1.00	0.80	2.00	23.50	0.50	0.47	1.55	
27	0.37	0.25	0.37	0.35	1.05	0.90	0.55	1.90	11.45	0.50	0.47	1.30	
28	0.40	0.35	0.35	0.35	9.50	0.93	0.50	2.65	6.50	0.50	0.47	1.15	
29	0.40	0.35	0.60	0.40	5.40	2.35	0.50	2.45	3.40	0.53		1.05	
30	0.40	0.37	0.40	0.35	4.20	0.57	0.50	2.20	2.45	0.50		1.20	
31		0.37		3.60	2.40		5.00		2.05	0.50		0.90	
Total	14.51	15.99	12.83	18.83	63.10	28.47	131.23	186.50	139.73	21.36	14.33	43.68	690.56 CMSDAY
Mean	0.48	0.52	0.43	0.61	2.04	0.95	4.23	6.22	4.51	0.69	0.51	1.41	1.89 CMS
Max	0.93	1.65	0.73	3.60	9.50	2.35	30.55	32.18	27.63	1.80	0.75	10.10	32.18 CMS
Min	0.37	0.25	0.35	0.35	0.83	0.43	0.50	1.10	0.85	0.50	0.47	0.45	0.25 CMS
Runoff	1.254	1.382	1.109	1.627	5.452	2.460	11.338	16.114	12.073	1.846	1.238	3.774	59.664 MCM

Momentary Peak 126.50 CMS, at 15.36 M (MSL), at 18.00 Hours, on Dec 25, 1992

Runoff Yield 12.21 Liters/Second/Square KM, Momentary Peak Yield 816.13 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

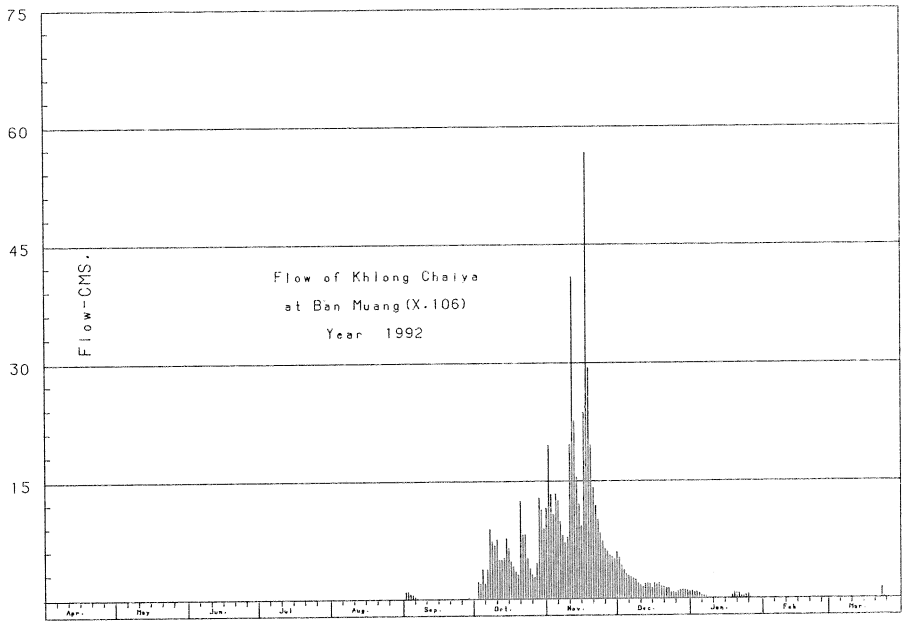
Khlong Chaiya at Ban Muang, Surat Thani (X.106)

Location	Lat. 9-23-46 N., Long. 99-10-31 E., on left bank at Ban Muang, Amphoe Chaiya, Surat Thani.
Drainage Area	309 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+7.063 m.(M.S.L.)
Bench Mark	B.M.-H.D.
Location	On left bank infront of the gage observer's house.
Elevation	+10.248 m.(M.S.L.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1978 to date.
Rating Operation	
Period of Rating	1978 to date.
Rated by Float	-
Rated by Current Meter	1978 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 7 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.73	6.63	6.70	6.91	6.75	7.19	6.91	8.82	7.71	7.18	6.86	6.68	
2	6.71	6.62	6.74	6.83	6.75	7.18	7.38	8.39	7.60	7.16	6.87	6.68	
3	6.68	6.62	6.75	6.80	6.74	7.12	7.34	8.19	7.55	7.15	6.91	6.67	
4	6.67	6.61	6.78	6.77	6.73	7.08	7.56	8.39	7.49	7.13	6.81	6.67	
5	6.65	6.60	6.76	6.76	6.73	7.03	7.35	8.33	7.47	7.04	6.79	6.66	
6	6.63	6.59	6.74	6.74	6.76	7.01	7.55	8.11	7.44	7.06	6.78	6.66	
7	6.62	6.57	6.79	6.73	6.76	6.96	8.04	7.97	7.43	7.02	6.77	6.65	
8	6.61	6.58	6.76	6.71	6.75	6.93	7.90	7.88	7.40	7.00	6.76	6.64	
9	6.61	6.63	6.76	6.71	6.74	6.91	7.86	7.94	7.35	6.99	6.76	6.64	
10	6.60	6.66	6.76	6.78	6.74	6.87	7.92	8.83	7.31	6.99	6.76	6.64	
11	6.59	6.64	6.75	6.76	6.73	6.86	7.67	9.93	7.29	6.97	6.91	6.64	
12	6.59	6.63	6.74	6.86	6.73	6.82	7.68	9.01	7.33	6.95	6.83	6.63	
13	6.58	6.64	6.76	6.96	6.73	6.78	7.70	8.54	7.35	6.93	6.82	6.63	
14	6.59	6.71	6.76	6.84	6.89	6.75	7.94	8.29	7.33	6.92	6.81	6.63	
15	6.58	6.80	6.77	6.77	6.85	6.76	7.82	8.07	7.27	6.96	6.79	6.63	
16	6.58	6.79	6.75	6.75	6.80	6.75	7.66	9.07	7.34	6.90	6.78	6.63	
17	6.58	6.78	6.76	6.76	6.76	6.76	7.59	10.32	7.33	6.96	6.76	6.64	
18	6.57	6.77	6.76	6.75	6.75	6.76	7.53	9.39	7.34	7.07	6.75	6.68	
19	6.57	6.75	6.75	6.75	6.74	6.75	7.48	8.82	7.30	7.15	6.75	6.69	
20	6.57	6.73	6.87	6.73	6.72	6.77	8.32	8.45	7.28	7.13	6.76	6.88	
21	6.56	6.71	6.83	6.72	6.69	6.75	7.97	8.28	7.26	7.11	6.75	6.85	
22	6.55	6.72	6.92	6.71	6.65	6.74	7.98	8.13	7.25	7.04	6.75	6.79	
23	6.58	6.73	6.80	6.71	6.63	6.76	7.70	7.99	7.15	7.02	6.74	7.26	
24	6.75	6.74	6.76	6.70	6.60	6.76	7.57	7.90	7.14	7.05	6.74	7.04	
25	6.78	6.74	6.77	6.70	6.58	6.77	7.48	7.82	7.14	7.10	6.74	6.88	
26	6.76	6.73	6.75	6.70	6.56	6.76	7.45	7.78	7.17	7.00	6.74	6.80	
27	6.73	6.71	6.72	6.73	6.56	6.84	7.63	7.74	7.22	6.93	6.74	6.74	
28	6.69	6.74	6.76	6.76	6.59	6.99	8.35	7.71	7.21	6.94	6.74	6.71	
29	6.68	6.75	6.75	6.75	6.73	6.90	8.24	7.68	7.22	6.93		6.66	
30	6.65	6.73	6.74	6.74	6.69	6.85	8.04	7.78	7.19	6.86		6.65	
31		6.71		6.74	6.92		8.25		7.18	6.87		6.65	
Mean	6.63	6.69	6.77	6.76	6.72	6.87	7.74	8.39	7.32	7.02	6.78	6.72	
Max	6.78	6.80	6.92	6.96	6.92	7.19	8.35	10.32	7.71	7.18	6.91	7.26	10.32
Min	6.55	6.57	6.70	6.70	6.56	6.74	6.91	7.68	7.14	6.86	6.74	6.63	6.55

Annual Max Momentary Gage Height 10.42 M (MSL), at 6.00 Hours, on Nov 17, 1992
Zero Gage at Bottom Elevation 7.06 M (MSL), River Bed 6.48 M (MSL)
Left Bank Elevation 10.66 M (MSL)
Right Bank Elevation 11.03 M (MSL), Drainage Area 309 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.96	0.00	19.52	5.30	0.92	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.92	2.24	13.37	4.20	0.84	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.68	1.92	10.78	3.70	0.80	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.52	3.80	13.37	3.12	0.72	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.32	2.00	12.59	2.96	0.36	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.24	3.70	9.82	2.72	0.44	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.04	8.98	8.14	2.64	0.28	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	7.30	7.08	2.40	0.20	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	6.86	7.78	2.00	0.16	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	7.54	19.68	1.68	0.16	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	4.90	40.81	1.54	0.08	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	5.00	22.67	1.84	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.04	0.00	0.00	5.20	15.46	2.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	7.78	12.07	1.84	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	6.42	9.34	1.42	0.04	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	4.80	23.69	1.92	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	4.10	56.74	1.84	0.04	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	3.50	29.41	1.92	0.48	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	3.04	19.52	1.60	0.80	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	12.46	14.20	1.48	0.72	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	8.14	11.94	1.36	0.64	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	8.26	10.06	1.30	0.36	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	5.20	8.38	0.80	0.28	0.00	1.36	
24	0.00	0.00	0.00	0.00	0.00	0.00	3.90	7.30	0.76	0.40	0.00	0.36	
25	0.00	0.00	0.00	0.00	0.00	0.00	3.04	6.42	0.76	0.60	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.00	2.80	6.00	0.88	0.20	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.00	4.50	5.60	1.12	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.16	12.85	5.30	1.06	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	0.00	11.42	5.00	1.12	0.00		0.00	
30	0.00	0.00	0.00	0.00	0.00	0.00	8.98	6.00	0.96	0.00		0.00	
31		0.00		0.00	0.00		11.55		0.92	0.00		0.00	
Total	0.00	0.00	0.00	0.04	0.00	3.84	182.18	438.04	59.16	9.52	0.00	1.72	694.50 CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	0.13	5.88	14.60	1.91	0.31	0.00	0.06	1.90 CMS
Max	0.00	0.00	0.00	0.04	0.00	0.96	12.85	56.74	5.30	0.92	0.00	1.36	56.74 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.76	0.00	0.00	0.00	0.00 CMS
Runoff	0.000	0.000	0.000	0.003	0.000	0.332	15.740	37.847	5.111	0.823	0.000	0.149	60.005 MCM

Momentary Peak 63.36 CMS, at 10.42 M (MSL), at 6.00 Hours, on Nov 17, 1992
Runoff Yield 6.16 Liters/Second/Square KM, Momentary Peak Yield 205.05 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Bang Kaeo at Ban Khuan In No Mo, Phatthalung (X.109)

Location — Lat. 7-20-36 N., Long. 100-03-33 E., on left bank at Ban Khuan In Nomo, Amphoe Khao Chai Son, Phatthalung.

Drainage Area — 133 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m. (A.D.)

Bench Mark — B.M.-H.D.

Location — Infront of the Health Office.

Elevation — +9.575 m.(A.D.)

Gage Reading Frequency — 13-time daily readings at 06.00-18.00 hours.

Basis of Mean Daily Gage Height — Arithmetic mean of 13 readings.

Period of Available Gage Records — 1979 to date.

Rating Operation

Period of Rating — 1979 to date.

Rated by Float — -

Rated by Current Meter — 1979 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 15 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

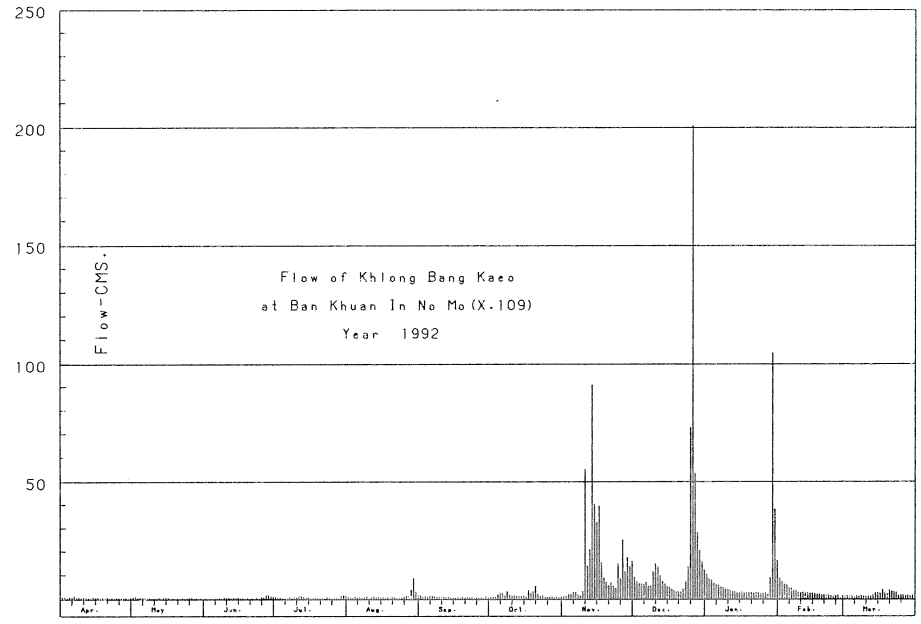
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.59	0.50	0.58	0.62	0.71	0.56	0.61	1.41	1.46	1.38	0.72	
2	0.56	0.60	0.50	0.56	0.58	0.66	0.65	0.71	1.27	1.36	1.27	0.72	
3	0.56	0.55	0.50	0.55	0.59	0.67	0.59	0.80	1.23	1.31	1.21	0.72	
4	0.60	0.53	0.50	0.54	0.62	0.63	0.82	0.84	1.20	1.24	1.16	0.71	
5	0.57	0.52	0.51	0.53	0.58	0.67	0.87	0.90	1.20	1.20	1.09	0.71	
6	0.66	0.52	0.54	0.53	0.57	0.72	0.88	0.92	1.24	1.15	1.05	0.71	
7	0.58	0.52	0.53	0.57	0.57	0.65	0.72	0.79	1.15	1.12	1.01	0.70	
8	0.57	0.52	0.51	0.54	0.55	0.62	0.96	0.74	1.13	1.08	0.98	0.72	
9	0.57	0.52	0.57	0.60	0.66	0.60	0.77	0.93	1.54	1.04	0.93	0.72	
10	0.57	0.53	0.56	0.57	0.58	0.60	0.73	3.38	1.70	1.01	0.91	0.70	
11	0.56	0.52	0.53	0.65	0.59	0.59	0.70	1.67	1.65	0.98	0.90	0.70	
12	0.56	0.54	0.55	0.71	0.63	0.59	0.70	2.00	1.43	0.95	0.89	0.71	
13	0.56	0.52	0.53	0.58	0.60	0.58	0.64	4.51	1.29	0.93	0.88	0.77	
14	0.56	0.54	0.57	0.58	0.60	0.58	0.71	2.84	1.20	0.90	0.87	0.89	
15	0.55	0.58	0.54	0.56	0.58	0.57	0.71	2.54	1.14	0.90	0.86	0.88	
16	0.55	0.54	0.55	0.54	0.57	0.56	0.65	2.82	1.09	0.90	0.85	0.85	
17	0.55	0.52	0.54	0.53	0.55	0.55	0.98	1.73	1.05	0.89	0.84	1.03	
18	0.54	0.52	0.53	0.54	0.55	0.55	0.88	1.39	0.98	0.87	0.82	0.87	
19	0.54	0.51	0.52	0.53	0.57	0.60	0.93	1.25	0.95	0.90	0.81	0.86	
20	0.54	0.52	0.51	0.55	0.60	0.58	1.15	1.17	0.93	0.87	0.79	0.98	
21	0.53	0.52	0.51	0.54	0.56	0.57	0.82	1.23	0.95	0.86	0.78	0.97	
22	0.54	0.52	0.51	0.53	0.55	0.59	0.70	1.13	1.02	0.91	0.77	0.92	
23	0.53	0.51	0.51	0.58	0.54	0.56	0.73	1.08	1.28	0.87	0.75	0.92	
24	0.53	0.62	0.53	0.54	0.55	0.56	0.65	1.70	1.64	0.85	0.75	0.83	
25	0.53	0.55	0.61	0.52	0.64	0.57	0.61	1.37	3.97	0.84	0.74	0.79	
26	0.52	0.53	0.55	0.52	0.68	0.56	0.60	2.22	5.98	0.88	0.73	0.77	
27	0.52	0.52	0.80	0.51	0.72	0.55	0.60	1.52	3.33	0.83	0.73	0.75	
28	0.52	0.51	0.74	0.53	1.03	0.54	0.60	1.85	2.35	1.37	0.72	0.74	
29	0.52	0.50	0.67	0.70	1.37	0.64	0.60	1.66	2.00	4.86		0.73	
30	0.52	0.50	0.61	0.78	0.91	0.58	0.59	1.75	1.74	2.76		0.73	
31		0.50		0.71	0.77		0.60		1.58	1.77		0.72	
Mean	0.55	0.53	0.55	0.57	0.65	0.60	0.73	1.60	1.63	1.22	0.91	0.79	
Max	0.66	0.62	0.80	0.78	1.37	0.72	1.15	4.51	5.98	4.86	1.38	1.03	5.98
Min	0.52	0.50	0.50	0.51	0.54	0.54	0.56	0.61	0.93	0.83	0.72	0.70	0.50

Annual Max Momentary Gage Height — 6.72 M (A.D), at 2.00 Hours, on Dec 26, 1992

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

Left Bank Elevation — 7.78 M (A.D)

Right Bank Elevation — 8.58 M (A.D), Drainage Area 133 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.95	0.50	0.90	1.10	1.55	0.80	1.05	9.68	10.55	9.20	1.60	
2	0.80	1.00	0.50	0.80	0.90	1.30	1.25	1.55	7.55	8.90	7.55	1.60	
3	0.80	0.75	0.50	0.75	0.95	1.35	0.95	2.00	6.95	8.15	6.65	1.60	
4	1.00	0.65	0.50	0.70	1.10	1.15	2.20	2.40	6.50	7.10	6.00	1.55	
5	0.85	0.60	0.55	0.65	0.90	1.35	2.70	3.00	6.50	6.50	5.13	1.55	
6	1.30	0.60	0.70	0.65	0.85	1.60	2.80	3.20	7.10	5.87	4.62	1.55	
7	0.90	0.60	0.65	0.85	0.85	1.25	1.60	1.95	5.87	5.50	4.13	1.50	
8	0.85	0.60	0.55	0.70	0.75	1.10	3.60	1.70	5.62	5.00	3.80	1.60	
9	0.85	0.60	0.85	1.00	1.30	1.00	1.85	3.30	11.95	4.50	3.30	1.60	
10	0.85	0.65	0.80	0.85	0.90	1.00	1.65	55.13	15.00	4.13	3.10	1.50	
11	0.80	0.60	0.65	1.25	0.95	0.95	1.50	14.40	14.00	3.80	3.00	1.50	
12	0.80	0.70	0.75	1.55	1.15	0.95	1.50	21.00	10.02	3.50	2.90	1.55	
13	0.80	0.60	0.65	0.90	1.00	0.90	1.20	91.35	7.85	3.30	2.80	1.85	
14	0.80	0.70	0.85	0.90	1.00	0.90	1.55	40.50	6.50	3.00	2.70	2.90	
15	0.75	0.90	0.70	0.80	0.90	0.85	1.55	33.00	5.75	3.00	2.60	2.80	
16	0.75	0.70	0.75	0.70	0.85	0.80	1.25	40.00	5.13	3.00	2.50	2.50	
17	0.75	0.60	0.70	0.65	0.75	0.75	3.80	15.60	4.62	2.90	2.40	4.37	
18	0.70	0.60	0.65	0.70	0.75	0.75	2.80	9.35	3.80	2.70	2.20	2.70	
19	0.70	0.55	0.60	0.65	0.85	1.00	3.30	7.25	3.50	3.00	2.10	2.60	
20	0.70	0.60	0.55	0.75	1.00	0.90	5.87	6.12	3.30	2.70	1.95	3.80	
21	0.65	0.60	0.55	0.70	0.80	0.85	2.20	6.95	3.50	2.60	1.90	3.70	
22	0.70	0.60	0.55	0.65	0.75	0.95	1.50	5.62	4.25	3.10	1.85	3.20	
23	0.65	0.55	0.55	0.90	0.70	0.80	1.65	5.00	7.70	2.70	1.75	3.20	
24	0.65	1.10	0.65	0.70	0.75	0.80	1.25	15.00	13.80	2.50	1.75	2.30	
25	0.65	0.75	1.05	0.60	1.20	0.85	1.05	9.05	73.02	2.40	1.70	1.95	
26	0.60	0.65	0.75	0.60	1.40	0.80	1.00	25.45	200.80	2.80	1.65	1.85	
27	0.60	0.60	2.00	0.55	1.60	0.75	1.00	11.60	53.70	2.30	1.65	1.75	
28	0.60	0.55	1.70	0.65	4.37	0.70	1.00	18.00	28.37	9.05	1.60	1.70	
29	0.60	0.50	1.35	1.50	9.05	1.20	1.00	14.20	21.00	104.85		1.65	
30	0.60	0.50	1.05	1.90	3.10	0.90	0.95	16.00	15.80	38.50		1.65	
31		0.50		1.55	1.85		1.00		12.65	16.40		1.60	
Total	22.85	20.45	23.15	27.00	44.37	30.00	57.32	480.72	581.78	284.30	92.48	66.77	1731.19 CMSDAY
Mean	0.76	0.66	0.77	0.87	1.43	1.00	1.85	16.02	18.77	9.17	3.30	2.15	4.74 CMS
Max	1.30	1.10	2.00	1.90	9.05	1.60	5.87	91.35	200.80	104.85	9.20	4.37	200.80 CMS
Min	0.60	0.50	0.50	0.55	0.70	0.70	0.80	1.05	3.30	2.30	1.60	1.50	0.50 CMS
Runoff	1.974	1.767	2.000	2.333	3.834	2.592	4.952	41.534	50.266	24.564	7.990	5.769	149.575 MCM

Momentary Peak 345.60 CMS, at 6.72 M (A.D), at 2.00 Hours, on Dec 26, 1992
Runoff Yield 35.66 Liters/Second/Square KM, Momentary Peak Yield 2598.50 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

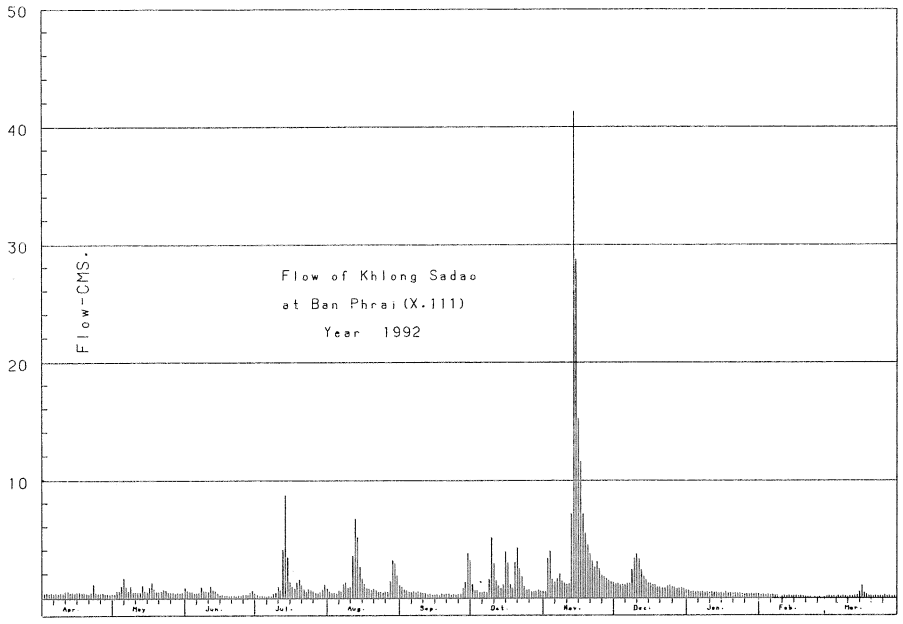
Khlong Sadao at Ban Phrai, Songkhla (X.111)

Location	Lat. 6-39-37 N., Long. 100-26-09 E., on left bank at Ban Phrai, Amphoe Sadao, Songkhla.
Drainage Area	256 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	Near the top staff gage.
Elevation	+5.698 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.18	0.42	0.08	0.36	0.58	0.69	0.41	0.73	0.43	0.12	0.01	
2	0.24	0.40	0.39	0.02	0.28	0.50	0.46	1.56	0.72	0.40	0.12	0.01	
3	0.24	0.43	0.32	0.02	0.26	0.43	0.43	1.78	0.69	0.37	0.12	0.01	
4	0.23	0.62	0.28	0.01	0.26	0.39	0.36	0.90	0.68	0.36	0.12	0.01	
5	0.24	0.97	0.28	0.01	0.45	0.38	0.35	0.81	0.68	0.36	0.11	0.01	
6	0.25	0.60	0.28	0.01	0.37	0.37	0.33	0.92	0.72	0.36	0.10	0.01	
7	0.25	0.43	0.61	0.02	0.72	0.32	0.35	1.10	0.75	0.35	0.07	0.01	
8	0.26	0.61	0.40	0.20	0.77	0.38	0.90	0.82	1.22	0.33	0.04	0.01	
9	0.27	0.36	0.40	0.32	0.56	0.34	2.10	0.76	1.58	0.32	0.04	0.01	
10	0.38	0.32	0.41	0.58	0.57	0.24	1.43	0.68	1.68	0.32	0.03	0.01	
11	0.42	0.30	0.60	0.44	1.63	0.21	0.89	0.74	1.56	0.32	0.03	0.01	
12	0.32	0.34	0.47	1.80	2.50	0.18	0.62	2.58	1.22	0.32	0.03	0.01	
13	0.29	0.67	0.40	3.00	2.09	0.17	0.55	4.22	1.02	0.28	0.02	0.02	
14	0.30	0.41	0.27	1.61	1.35	0.14	0.67	3.98	0.88	0.26	0.02	0.13	
15	0.30	0.39	0.10	0.81	0.94	0.14	1.74	3.64	0.76	0.26	0.02	0.36	
16	0.29	0.56	0.10	0.59	0.70	0.11	1.43	3.45	0.73	0.24	0.02	0.67	
17	0.31	0.79	0.07	0.54	0.55	0.10	0.71	2.60	0.70	0.33	0.02	0.34	
18	0.27	0.50	0.04	0.77	0.50	0.19	0.52	2.18	0.66	0.27	0.01	0.16	
19	0.25	0.39	0.02	0.92	0.48	0.17	1.46	1.94	0.59	0.26	0.01	0.06	
20	0.22	0.34	0.02	0.66	0.50	0.16	1.87	1.68	0.56	0.25	-0.02	0.02	
21	0.29	0.43	0.02	0.48	0.46	0.18	1.25	1.48	0.55	0.25	-0.03	0.02	
22	0.72	0.50	0.03	0.40	0.38	0.15	1.01	1.32	0.53	0.24	-0.04	0.02	
23	0.28	0.44	0.04	0.49	0.34	0.12	0.60	1.48	0.63	0.22	-0.05	0.02	
24	0.23	0.35	0.07	0.47	0.32	0.12	0.48	1.25	0.65	0.19	-0.06	0.02	
25	0.22	0.30	0.11	0.37	0.36	0.12	0.46	1.06	0.61	0.17	-0.07	0.03	
26	0.22	0.27	0.14	0.32	0.32	0.21	0.41	0.98	0.56	0.16	-0.08	0.08	
27	0.21	0.26	0.14	0.26	0.85	0.55	0.40	0.95	0.53	0.17	-0.09	0.04	
28	0.18	0.28	0.29	0.33	1.52	0.78	0.40	0.85	0.52	0.17	-0.11	0.01	
29	0.18	0.30	0.45	0.49	1.41	1.72	0.48	0.81	0.56	0.17		0.01	
30	0.18	0.30	0.23	0.68	1.03	1.50	0.39	0.76	0.50	0.17		0.01	
31		0.58		0.54	0.69		0.38		0.46	0.16		0.01	
Mean	0.28	0.44	0.25	0.56	0.76	0.36	0.78	1.59	0.78	0.27	0.02	0.07	
Max	0.72	0.97	0.61	3.00	2.50	1.72	2.10	4.22	1.68	0.43	0.12	0.67	4.22
Min	0.18	0.18	0.02	0.01	0.26	0.10	0.33	0.41	0.46	0.16	-0.11	0.01	-0.11

Annual Max Momentary Gage Height 4.40 M (A.D), at 15.00 Hours, on Nov 13, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.48 M (A.D)
Left Bank Elevation 6.20 M (A.D)
Right Bank Elevation 6.14 M (A.D), Drainage Area 256 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.38	0.64	0.28	0.56	0.96	1.18	0.62	1.26	0.66	0.32	0.21	
2	0.44	0.60	0.59	0.22	0.48	0.80	0.72	3.38	1.24	0.60	0.32	0.21	
3	0.44	0.66	0.52	0.22	0.46	0.66	0.66	4.04	1.18	0.57	0.32	0.21	
4	0.43	1.04	0.48	0.21	0.46	0.59	0.56	1.60	1.16	0.56	0.32	0.21	
5	0.44	1.78	0.48	0.21	0.70	0.58	0.55	1.42	1.16	0.56	0.31	0.21	
6	0.45	1.00	0.48	0.21	0.57	0.57	0.53	1.65	1.24	0.56	0.30	0.21	
7	0.45	0.66	1.02	0.22	1.24	0.52	0.55	2.10	1.30	0.55	0.27	0.21	
8	0.46	1.02	0.60	0.40	1.34	0.58	1.60	1.44	2.40	0.53	0.24	0.21	
9	0.47	0.56	0.60	0.52	0.92	0.54	5.20	1.32	3.44	0.52	0.24	0.21	
10	0.58	0.52	0.62	0.96	0.94	0.44	2.99	1.16	3.74	0.52	0.23	0.21	
11	0.64	0.50	1.00	0.68	3.59	0.41	1.58	1.28	3.38	0.52	0.23	0.21	
12	0.52	0.54	0.74	4.10	6.80	0.38	1.04	7.12	2.40	0.52	0.23	0.21	
13	0.49	1.14	0.60	8.80	5.16	0.37	0.90	41.36	1.90	0.48	0.22	0.22	
14	0.50	0.62	0.47	3.53	2.75	0.34	1.14	28.72	1.56	0.46	0.22	0.33	
15	0.50	0.59	0.30	1.42	1.70	0.34	3.92	15.22	1.32	0.46	0.22	0.56	
16	0.49	0.92	0.30	0.98	1.20	0.31	2.99	11.65	1.26	0.44	0.22	1.14	
17	0.51	1.38	0.27	0.88	0.90	0.30	1.22	7.20	1.20	0.53	0.22	0.54	
18	0.47	0.80	0.24	1.34	0.80	0.39	0.84	5.52	1.12	0.47	0.21	0.36	
19	0.45	0.59	0.22	1.65	0.76	0.37	3.08	4.56	0.98	0.46	0.21	0.26	
20	0.42	0.54	0.22	1.12	0.80	0.36	4.31	3.74	0.92	0.45	0.18	0.22	
21	0.49	0.66	0.22	0.76	0.72	0.38	2.48	3.14	0.90	0.45	0.17	0.22	
22	1.24	0.80	0.23	0.60	0.58	0.35	1.88	2.66	0.86	0.44	0.16	0.22	
23	0.48	0.68	0.24	0.78	0.54	0.32	1.00	3.14	1.06	0.42	0.15	0.22	
24	0.43	0.55	0.27	0.74	0.52	0.32	0.76	2.48	1.10	0.39	0.14	0.22	
25	0.42	0.50	0.31	0.57	0.56	0.32	0.72	2.00	1.02	0.37	0.13	0.23	
26	0.42	0.47	0.34	0.52	0.52	0.41	0.62	1.80	0.92	0.36	0.12	0.28	
27	0.41	0.46	0.34	0.46	1.50	0.90	0.60	1.73	0.86	0.37	0.11	0.24	
28	0.38	0.48	0.49	0.53	3.26	1.36	0.60	1.50	0.84	0.37	0.09	0.21	
29	0.38	0.50	0.70	0.78	2.93	3.86	0.76	1.42	0.92	0.37		0.21	
30	0.38	0.50	0.43	1.16	1.92	3.20	0.59	1.32	0.80	0.37		0.21	
31		0.96		0.88	1.18		0.58		0.72	0.36		0.21	
Total	14.64	22.40	13.96	35.73	46.36	21.23	46.15	166.29	44.16	14.69	6.10	8.62	440.33 CMSDAY
Mean	0.49	0.72	0.47	1.15	1.50	0.71	1.49	5.54	1.42	0.47	0.22	0.28	1.21 CMS
Max	1.24	1.78	1.02	8.80	6.80	3.86	5.20	41.36	3.74	0.66	0.32	1.14	41.36 CMS
Min	0.38	0.38	0.22	0.21	0.46	0.30	0.53	0.62	0.72	0.36	0.09	0.21	0.09 CMS
Runoff	1.265	1.935	1.206	3.087	4.006	1.834	3.987	14.367	3.815	1.269	0.527	0.745	38.045 MCM

Momentary Peak 54.80 CMS, at 4.40 M (A.D), at 15.00 Hours, on Nov 13, 1992
Runoff Yield 4.71 Liters/Second/Square KM, Momentary Peak Yield 214.06 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

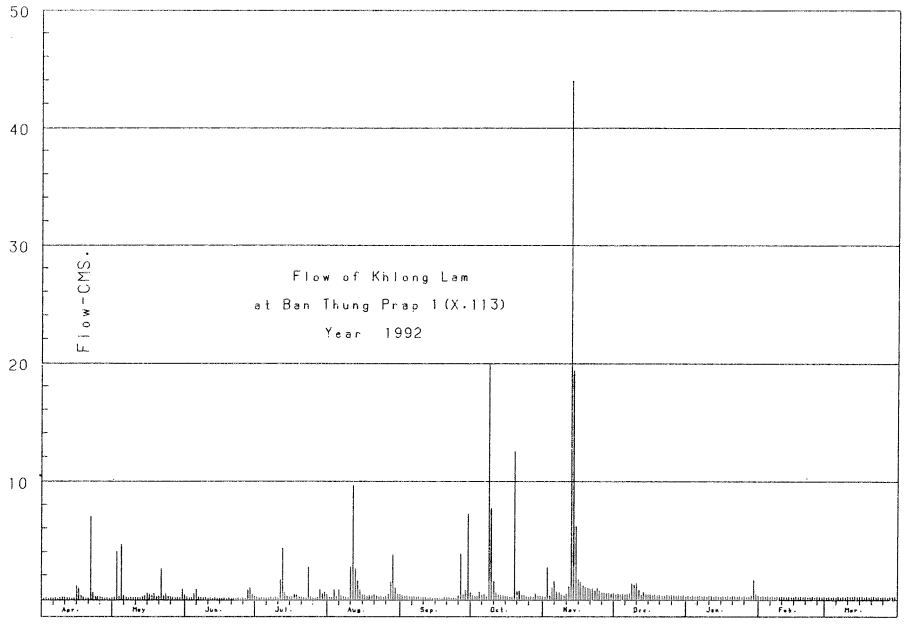
Khlong Lam at Ban Thung Prap (1), Songkhla (X.113)

Location	Lat. 6°-37'-59" N., Long. 100°-23'-46" E., on right bank at Ban Thung Prap (i), Amphoe Sadao, Songkhla.
Drainage Area	129 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	About 10 meters from the gage observer's house.
Elevation	+7.140 m.(A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1979 to date.
Rating Operation	
Period of Rating	1979 to date.
Rated by Float	-
Rated by Current Meter	1979 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation + 5.62 m.(A.D.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.18	1.28	1.26	1.24	1.26	1.37	1.37	1.28	1.50	1.33	1.31	1.24	
2	1.18	2.73	1.21	1.21	1.21	1.34	1.32	2.43	1.50	1.32	1.31	1.24	
3	1.16	1.34	1.19	1.20	1.72	1.32	1.29	1.38	1.49	1.34	1.31	1.24	
4	1.17	2.83	1.52	1.20	1.32	1.31	1.63	1.83	1.48	1.33	1.30	1.24	
5	1.18	1.36	1.76	1.19	1.76	1.30	1.43	2.07	1.47	1.33	1.29	1.24	
6	1.16	1.28	1.28	1.18	1.35	1.28	1.44	1.63	1.46	1.31	1.27	1.24	
7	1.15	1.23	1.21	1.24	1.32	1.28	1.33	1.64	1.57	1.31	1.26	1.24	
8	1.20	1.20	1.20	1.19	1.23	1.26	4.77	1.40	1.98	1.31	1.26	1.24	
9	1.26	1.21	1.20	1.23	1.21	1.21	3.36	1.39	1.96	1.30	1.26	1.25	
10	1.23	1.21	1.18	1.20	2.44	1.20	2.11	1.51	1.99	1.30	1.26	1.27	
11	1.22	1.21	1.18	2.18	3.65	1.20	1.59	1.87	1.74	1.30	1.26	1.28	
12	1.19	1.20	1.18	2.79	2.42	1.19	1.48	5.62	1.45	1.30	1.26	1.28	
13	1.17	1.31	1.18	1.61	2.13	1.18	1.40	4.72	1.62	1.30	1.26	1.27	
14	1.17	1.34	1.16	1.36	1.72	1.18	1.42	3.13	1.49	1.30	1.26	1.27	
15	1.92	1.60	1.16	1.28	1.48	1.18	1.36	2.19	1.46	1.29	1.26	1.25	
16	1.79	1.47	1.16	1.24	1.39	1.17	1.30	2.04	1.44	1.29	1.26	1.25	
17	1.39	1.43	1.16	1.50	1.34	1.16	1.27	1.91	1.42	1.29	1.26	1.25	
18	1.22	1.52	1.16	1.39	1.35	1.16	1.27	1.82	1.40	1.29	1.26	1.24	
19	1.19	1.30	1.16	1.28	1.39	1.22	4.05	1.82	1.38	1.29	1.26	1.24	
20	1.18	1.30	1.16	1.23	1.42	1.22	1.68	1.75	1.38	1.29	1.25	1.24	
21	3.26	2.40	1.16	1.20	1.37	1.18	1.68	1.77	1.37	1.29	1.25	1.28	
22	1.62	1.35	1.16	1.19	1.30	1.17	1.45	1.70	1.37	1.29	1.25	1.25	
23	1.31	1.50	1.16	2.45	1.28	1.16	1.38	1.81	1.38	1.28	1.25	1.24	
24	1.27	1.33	1.16	1.27	1.26	1.16	1.32	1.68	1.39	1.28	1.25	1.24	
25	1.29	1.25	1.16	1.22	1.27	1.37	1.29	1.63	1.38	1.28	1.25	1.24	
26	1.20	1.23	1.16	1.19	1.52	2.69	1.28	1.59	1.36	1.28	1.24	1.23	
27	1.19	1.22	1.73	1.21	2.09	1.48	1.28	1.57	1.36	1.28	1.24	1.23	
28	1.18	1.21	1.80	1.73	2.66	1.71	1.51	1.55	1.36	1.34	1.24	1.23	
29	1.17	1.21	1.51	1.56	1.80	3.30	1.38	1.54	1.35	2.15		1.25	
30	1.17	1.78	1.29	1.62	1.53	1.63	1.30	1.53	1.35	1.45		1.24	
31		1.40		1.44	1.43		1.27		1.33	1.35		1.28	
Mean	1.33	1.46	1.27	1.42	1.63	1.39	1.68	1.99	1.49	1.34	1.26	1.25	
Max	3.26	2.83	1.80	2.79	3.65	3.30	4.77	5.62	1.99	2.15	1.31	1.28	5.62
Min	1.15	1.20	1.16	1.18	1.21	1.16	1.27	1.28	1.33	1.28	1.24	1.23	1.15

Annual Max Momentary Gage Height 7.05 M (A.D), at 16.00 Hours, on Nov 12, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.68 M (A.D)
Left Bank Elevation 5.61 M (A.D)
Right Bank Elevation 6.59 M (A.D), Drainage Area 129 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.28	0.26	0.24	0.26	0.37	0.37	0.28	0.50	0.33	0.31	0.24	
2	0.18	4.15	0.21	0.21	0.21	0.34	0.32	2.72	0.50	0.32	0.31	0.24	
3	0.16	0.34	0.19	0.20	0.84	0.32	0.29	0.38	0.49	0.34	0.31	0.24	
4	0.17	4.65	0.52	0.20	0.32	0.31	0.66	1.06	0.48	0.33	0.30	0.24	
5	0.18	0.36	0.92	0.19	0.92	0.30	0.43	1.54	0.47	0.33	0.29	0.24	
6	0.16	0.28	0.28	0.18	0.35	0.28	0.44	0.66	0.46	0.31	0.27	0.24	
7	0.15	0.23	0.21	0.24	0.32	0.28	0.33	0.68	0.57	0.31	0.26	0.24	
8	0.20	0.20	0.20	0.19	0.23	0.26	20.01	0.40	1.36	0.31	0.26	0.24	
9	0.26	0.21	0.20	0.23	0.21	0.21	7.74	0.39	1.32	0.30	0.26	0.25	
10	0.23	0.21	0.18	0.20	2.76	0.20	1.62	0.51	1.38	0.30	0.26	0.27	
11	0.22	0.21	0.18	1.76	9.75	0.20	0.59	1.14	0.88	0.30	0.26	0.28	
12	0.19	0.20	0.18	4.45	2.68	0.19	0.48	44.06	0.45	0.30	0.26	0.28	
13	0.17	0.31	0.18	0.62	1.66	0.18	0.40	19.36	0.64	0.30	0.26	0.27	
14	0.17	0.34	0.16	0.36	0.84	0.18	0.42	6.28	0.49	0.30	0.26	0.27	
15	1.24	0.60	0.16	0.28	0.48	0.18	0.36	1.78	0.46	0.29	0.26	0.25	
16	0.98	0.47	0.16	0.24	0.39	0.17	0.30	1.48	0.44	0.29	0.26	0.25	
17	0.39	0.43	0.16	0.50	0.34	0.16	0.27	1.22	0.42	0.29	0.26	0.25	
18	0.22	0.52	0.16	0.39	0.35	0.16	0.27	1.04	0.40	0.29	0.26	0.24	
19	0.19	0.30	0.16	0.28	0.39	0.22	12.60	1.04	0.38	0.29	0.26	0.24	
20	0.18	0.30	0.16	0.23	0.42	0.22	0.76	0.90	0.38	0.29	0.25	0.24	
21	7.09	2.60	0.16	0.20	0.37	0.18	0.76	0.94	0.37	0.29	0.25	0.28	
22	0.64	0.35	0.16	0.19	0.30	0.17	0.45	0.80	0.37	0.29	0.25	0.25	
23	0.31	0.50	0.16	2.80	0.28	0.16	0.38	1.02	0.38	0.28	0.25	0.24	
24	0.27	0.33	0.16	0.27	0.26	0.16	0.32	0.76	0.39	0.28	0.25	0.24	
25	0.29	0.25	0.16	0.22	0.27	0.37	0.29	0.66	0.38	0.28	0.25	0.24	
26	0.20	0.23	0.16	0.19	0.52	3.95	0.28	0.59	0.36	0.28	0.24	0.23	
27	0.19	0.22	0.86	0.21	1.58	0.48	0.28	0.57	0.36	0.28	0.24	0.23	
28	0.18	0.21	1.00	0.86	3.80	0.82	0.51	0.55	0.36	0.34	0.24	0.23	
29	0.17	0.21	0.51	0.56	1.00	7.35	0.38	0.54	0.35	1.70		0.25	
30	0.17	0.96	0.29	0.64	0.53	0.66	0.30	0.53	0.35	0.45		0.24	
31		0.40		0.44	0.43		0.27		0.33	0.35		0.28	
Total	15.33	20.85	8.45	17.77	33.06	19.03	52.88	93.88	16.47	10.94	7.39	7.72	303.77 CMSDAY
Mean	0.51	0.67	0.28	0.57	1.07	0.63	1.71	3.13	0.53	0.35	0.26	0.25	0.83 CMS
Max	7.09	4.65	1.00	4.45	9.75	7.35	20.01	44.06	1.38	1.70	0.31	0.28	44.06 CMS
Min	0.15	0.20	0.16	0.18	0.21	0.16	0.27	0.28	0.33	0.28	0.24	0.23	0.15 CMS
Runoff	1.325	1.801	0.730	1.535	2.856	1.644	4.569	8.111	1.423	0.945	0.638	0.667	26.246 MCM

Momentary Peak 150.00 CMS, at 7.05 M (A.D), at 16.00 Hours, on Nov 12, 1992

Runoff Yield 6.45 Liters/Second/Square KM, Momentary Peak Yield 1162.79 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

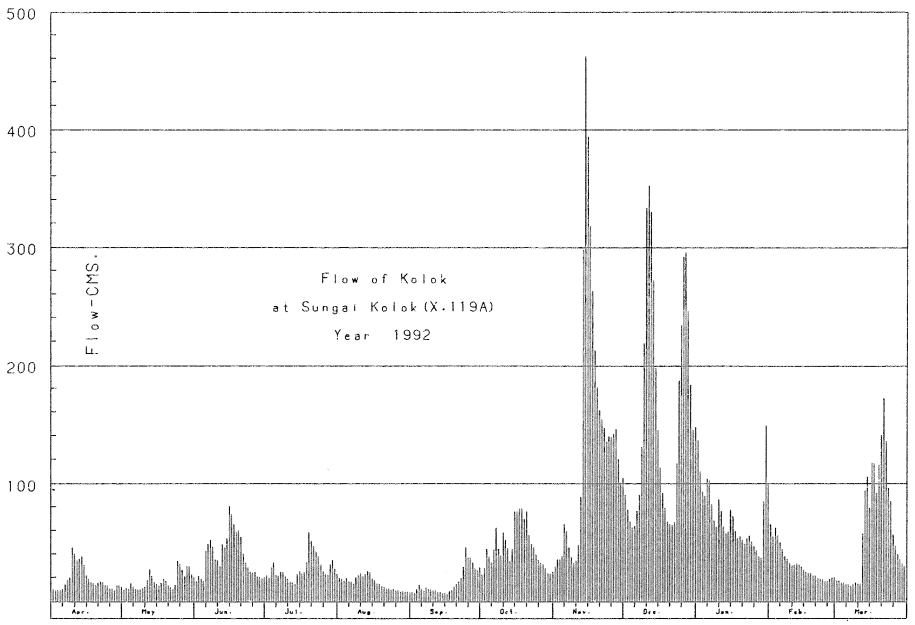
Kolok River at Sungai Kolok, Narathiwat (X.119A)

Location	Lat. 6-01-07 N., Long. 101-58-43 E., on left bank at the railway bridge near the Immigration Division, Amphoe Sungai Kolok, Narathiwat.
Drainage Area	1,358 sq.km.
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 + 6.53 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 61 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	0.93	1.22	1.37	1.32	0.80	1.39	1.62	2.99	3.80	2.49	1.25	
2	0.89	0.96	1.35	1.32	1.27	0.79	1.59	1.78	2.75	3.35	2.26	1.21	
3	0.88	0.97	1.29	1.60	1.24	0.93	2.02	1.79	2.55	3.05	2.44	1.18	
4	0.90	1.14	1.21	1.70	1.29	1.10	1.84	1.85	2.43	2.97	2.28	1.16	
5	0.93	1.02	1.98	1.40	1.22	0.94	1.72	2.49	2.47	3.25	2.16	1.13	
6	1.12	0.96	2.11	1.36	1.19	0.89	1.99	2.36	2.72	3.21	2.00	1.10	
7	1.26	0.93	2.21	1.49	1.15	0.99	2.43	2.05	3.00	2.83	1.87	1.07	
8	1.31	0.90	2.05	1.46	1.31	0.96	2.02	1.84	3.71	2.57	1.79	1.10	
9	2.05	1.00	1.79	1.37	1.40	0.91	1.86	1.69	4.92	2.44	1.71	1.19	
10	1.90	1.01	1.75	1.27	1.43	0.90	2.35	1.76	5.97	2.92	1.65	1.15	
11	1.77	1.25	1.63	1.21	1.37	0.87	2.21	2.09	6.10	2.73	1.65	1.12	
12	1.79	1.56	2.10	1.16	1.41	0.83	2.02	2.97	5.95	2.45	1.68	2.33	
13	1.86	1.35	2.05	1.14	1.51	0.80	1.75	5.71	5.47	2.33	1.67	3.07	
14	1.65	1.20	2.22	1.40	1.46	0.77	2.00	6.66	4.68	2.35	1.60	3.27	
15	1.39	1.11	2.81	1.51	1.31	0.75	2.72	6.34	3.92	2.74	1.54	2.77	
16	1.27	1.08	2.66	1.42	1.23	0.73	2.71	5.86	3.41	2.64	1.47	3.49	
17	1.19	1.14	2.50	1.48	1.16	0.83	2.76	5.39	3.03	2.38	1.46	3.47	
18	1.14	1.29	2.36	1.73	1.12	0.91	2.76	4.86	2.77	2.23	1.43	3.02	
19	1.09	1.21	2.37	2.34	1.07	1.02	2.59	4.45	2.55	2.28	1.39	3.46	
20	1.15	1.09	2.25	2.19	1.02	1.14	2.73	4.18	2.49	2.20	1.36	3.86	
21	1.22	0.99	1.92	2.07	0.98	1.19	2.29	4.06	2.47	2.13	1.32	4.33	
22	1.17	0.95	1.72	1.96	0.95	1.32	2.13	3.96	2.54	2.22	1.29	3.79	
23	1.10	1.08	1.58	1.85	0.93	1.59	2.04	3.78	3.48	2.29	1.25	3.11	
24	1.05	1.76	1.49	1.67	0.92	2.06	1.90	3.84	4.53	2.16	1.22	2.88	
25	0.98	1.67	1.44	1.51	0.90	1.84	1.78	3.83	5.10	2.08	1.21	2.31	
26	0.94	1.53	1.47	1.41	0.87	1.82	1.69	3.87	5.66	1.97	1.27	2.07	
27	0.90	1.37	1.36	1.41	0.85	1.72	1.68	3.94	5.69	1.86	1.33	1.91	
28	1.09	1.63	1.32	1.66	0.84	1.56	1.56	3.54	5.22	1.81	1.31	1.78	
29	1.07	1.61	1.30	1.78	0.83	1.52	1.45	3.18	4.49	2.89		1.69	
30	1.01	1.42	1.32	1.55	0.81	1.58	1.41	3.25	3.92	3.99		1.61	
31		1.31		1.41	0.81		1.47		3.97	3.15		1.55	
Mean	1.23	1.21	1.83	1.55	1.13	1.14	2.03	3.50	3.90	2.62	1.65	2.21	
Max	2.05	1.76	2.81	2.34	1.51	2.06	2.76	6.66	6.10	3.99	2.49	4.33	6.66
Min	0.88	0.90	1.21	1.14	0.81	0.73	1.39	1.62	2.43	1.81	1.21	1.07	0.73

Annual Max Momentary Gage Height 6.67 M (A.D), at 9.00 Hours, on Nov 14, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.19 M (A.D)
Left Bank Elevation 8.11 M (A.D)
Right Bank Elevation 6.52 M (A.D), Drainage Area 1358 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.40	10.60	17.60	22.10	20.60	8.00	22.70	30.20	90.50	137.50	65.55	18.50	
2	9.80	11.20	21.50	20.60	19.10	7.80	29.15	35.80	78.50	110.25	55.20	17.30	
3	9.60	11.40	19.70	29.50	18.20	10.60	45.30	36.15	68.50	93.75	63.30	16.50	
4	10.00	15.50	17.30	33.00	19.70	14.50	38.10	38.50	62.85	89.50	56.10	16.00	
5	10.60	12.50	43.70	23.00	17.60	10.80	33.70	65.55	64.65	104.75	50.90	15.25	
6	15.00	11.20	48.90	21.80	16.75	9.80	44.10	59.70	77.00	102.55	44.50	14.50	
7	18.80	10.60	52.95	25.70	15.75	11.80	62.85	46.50	91.00	82.50	39.30	13.75	
8	20.30	10.00	46.50	24.80	20.30	11.20	45.30	38.10	131.65	69.50	36.15	14.50	
9	46.50	12.00	36.15	22.10	23.00	10.20	38.90	32.65	218.80	63.30	33.35	16.75	
10	40.50	12.25	34.75	19.10	23.90	10.00	59.25	35.10	333.50	87.00	31.25	15.75	
11	35.45	18.50	30.55	17.30	22.10	9.40	52.95	48.10	353.00	77.50	31.25	15.00	
12	36.15	28.10	48.50	16.00	23.30	8.60	45.30	89.50	330.50	63.75	32.30	58.35	
13	38.90	21.50	46.50	15.50	26.35	8.00	34.75	298.30	271.70	58.35	31.95	94.85	
14	31.25	17.00	53.40	23.00	24.80	7.40	44.50	462.40	198.50	59.25	29.50	105.85	
15	22.70	14.75	81.50	26.35	20.30	7.00	77.00	394.60	145.30	78.00	27.40	79.50	
16	19.10	14.00	74.00	23.60	17.90	6.60	76.50	317.80	113.60	73.00	25.10	118.40	
17	16.75	15.50	66.00	25.40	16.00	8.60	79.00	263.00	92.65	60.60	24.80	117.20	
18	15.50	19.70	59.70	34.05	15.00	10.20	79.00	213.40	79.50	53.85	23.90	92.10	
19	14.25	17.30	60.15	58.80	13.75	12.50	70.50	181.50	68.50	56.10	22.70	116.60	
20	15.75	14.25	54.75	52.10	12.50	15.50	77.50	162.60	65.55	52.50	21.80	141.40	
21	17.60	11.80	41.30	47.30	11.60	16.75	56.55	154.40	64.65	49.70	20.60	173.10	
22	16.25	11.00	33.70	42.90	11.00	20.60	49.70	147.90	68.00	53.40	19.70	136.85	
23	14.50	14.00	28.80	38.50	10.60	29.15	46.10	136.20	117.80	56.55	18.50	97.05	
24	13.25	35.10	25.70	31.95	10.40	46.90	40.50	140.10	187.25	50.90	17.60	85.00	
25	11.60	31.95	24.20	26.35	10.00	38.10	35.80	139.45	235.00	47.70	17.30	57.45	
26	10.80	27.05	25.10	23.30	9.40	37.30	32.65	142.05	292.60	43.30	19.10	47.30	
27	10.00	22.10	21.80	23.30	9.00	33.70	32.30	146.60	295.90	38.90	20.90	40.90	
28	14.25	30.55	20.60	31.60	8.80	28.10	28.10	121.40	246.00	36.90	20.30	35.80	
29	13.75	29.85	20.00	35.80	8.60	26.70	24.50	100.90	184.30	85.50		32.65	
30	12.25	23.60	20.60	27.75	8.20	28.80	23.30	104.75	145.30	149.85		29.85	
31		20.30		23.30	8.20		25.10		148.55	99.25		27.75	
Total	571.55	555.15	1175.90	885.85	492.70	504.60	1450.95	4183.20	4921.10	2285.45	900.30	1861.75	19788.50 CMSDAY
Mean	19.05	17.91	39.20	28.58	15.89	16.82	46.80	139.44	158.75	73.72	32.15	60.06	54.22 CMS
Max	46.50	35.10	81.50	58.80	26.35	46.90	79.00	462.40	353.00	149.85	65.55	173.10	462.40 CMS
Min	9.60	10.00	17.30	15.50	8.20	6.60	22.70	30.20	62.85	36.90	17.30	13.75	6.60 CMS
Runoff	49.382	47.965	101.598	76.537	42.569	43.597	125.362	361.428	425.183	197.463	77.786	160.855	1709.726 MCM

Momentary Peak 464.80 CMS, at 6.67 M (A.D), at 9.00 Hours, on Nov 14, 1992

Runoff Yield 39.92 Liters/Second/Square KM, Momentary Peak Yield 342.27 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

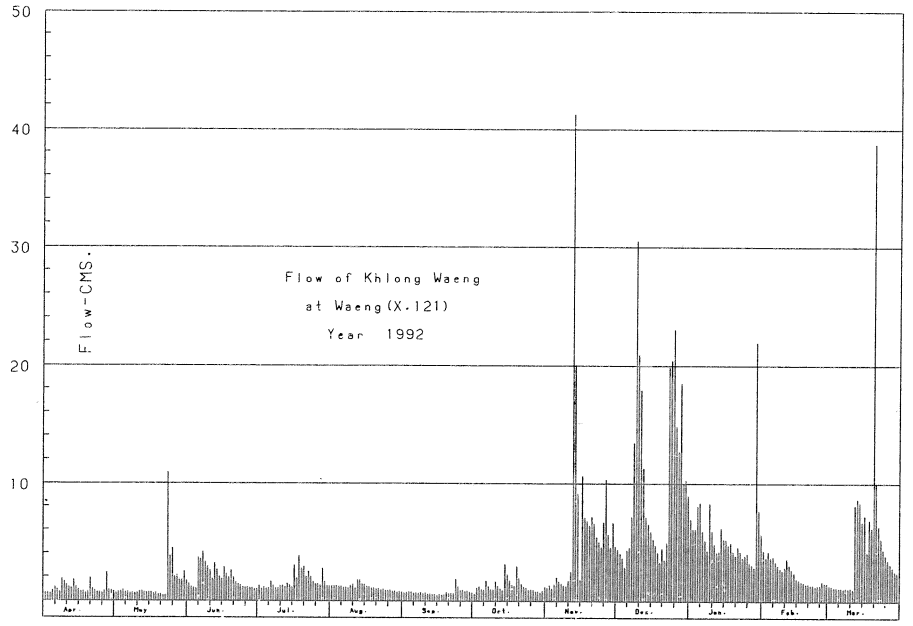
Khlong Waeng at Waeng, Narathiwat (X.121)

Location	Lat. 5-55-26 N., Long. 101-53-14 E., on right bank at the bridge of Sungai Kolok -Malasia Highway, Amphoe Waeng, Narathiwat.
Drainage Area	43 sq.km.
Type of Gage	Water-stage recorder.
Zero Gage at Bottom	+15.853 m.(M.S.L.)
Bench Mark	B.M-H.D.
Location	On right bank at abutment of the bridge.
Elevation	+20.347 m.(M.S.L.)
Gage Reading Frequency	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	1981 to date.
Rated by Float	-
Rated by Current Meter	1981 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +20.38 m.(M.S.L.),records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 56 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.53	17.53	17.69	17.66	17.65	17.53	17.51	17.62	18.04	18.31	18.03	17.67	
2	17.52	17.54	17.65	17.62	17.67	17.53	17.62	17.68	18.01	18.22	17.97	17.65	
3	17.52	17.57	17.62	17.63	17.66	17.56	17.64	17.61	17.96	18.22	18.02	17.64	
4	17.56	17.58	17.62	17.62	17.66	17.54	17.61	17.69	17.88	18.41	17.96	17.63	
5	17.64	17.55	17.97	17.62	17.65	17.53	17.58	17.78	18.04	18.43	17.98	17.63	
6	17.59	17.54	17.95	17.73	17.64	17.52	17.74	17.72	18.06	18.21	17.93	17.62	
7	17.55	17.53	18.02	17.66	17.63	17.53	17.66	17.70	18.33	18.13	17.89	17.62	
8	17.75	17.52	17.93	17.63	17.63	17.53	17.59	17.66	18.84	18.03	17.87	17.62	
9	17.73	17.52	17.88	17.62	17.66	17.52	17.60	17.66	19.88	18.43	17.84	17.62	
10	17.67	17.54	17.85	17.67	17.68	17.52	17.73	17.73	19.33	18.21	17.88	17.62	
11	17.63	17.55	17.76	17.66	17.63	17.51	17.65	17.83	19.15	18.09	17.95	17.61	
12	17.63	17.57	17.91	17.65	17.75	17.50	17.62	20.19	18.68	18.02	17.90	18.41	
13	17.75	17.53	17.85	17.69	17.74	17.50	17.57	19.28	18.32	18.02	17.85	18.46	
14	17.64	17.54	17.79	17.68	17.70	17.49	17.90	18.50	18.27	18.23	17.82	18.43	
15	17.59	17.53	17.75	17.63	17.68	17.48	17.81	17.75	18.20	18.14	17.76	18.28	
16	17.56	17.53	17.88	17.89	17.66	17.49	17.73	18.62	18.14	18.13	17.74	18.34	
17	17.55	17.52	17.81	17.77	17.64	17.49	17.68	18.32	18.08	18.08	17.73	18.02	
18	17.53	17.52	17.77	17.98	17.63	17.48	17.65	18.29	18.02	18.11	17.71	18.30	
19	17.54	17.50	17.85	17.87	17.62	17.53	17.89	18.26	17.92	18.02	17.70	18.23	
20	17.77	17.49	17.78	17.88	17.62	17.52	17.76	18.33	18.05	17.99	17.69	20.14	
21	17.62	17.48	17.71	17.78	17.61	17.51	17.70	18.27	17.95	18.07	17.68	18.57	
22	17.57	17.47	17.70	17.84	17.60	17.52	17.65	18.16	18.11	18.02	17.67	18.25	
23	17.55	18.65	17.67	17.78	17.60	17.76	17.62	18.11	19.27	17.97	17.66	18.14	
24	17.53	17.98	17.65	17.73	17.59	17.64	17.59	18.07	19.30	17.98	17.66	18.04	
25	17.53	18.06	17.64	17.70	17.59	17.59	17.59	18.28	19.47	18.01	17.68	17.99	
26	17.56	17.78	17.63	17.69	17.58	17.58	17.58	18.60	18.94	17.92	17.72	17.94	
27	17.83	17.80	17.63	17.68	17.57	17.57	17.56	18.18	18.79	17.90	17.71	17.91	
28	17.58	17.75	17.62	17.87	17.56	17.56	17.55	18.06	19.18	17.87	17.70	17.87	
29	17.59	17.74	17.61	17.72	17.55	17.55	17.54	18.28	18.57	19.40		17.84	
30	17.55	17.84	17.60	17.67	17.55	17.52	17.56	18.07	18.59	18.37		17.83	
31		17.74		17.65	17.54		17.65		18.48	18.18		17.80	
Mean	17.61	17.64	17.76	17.72	17.63	17.54	17.65	18.14	18.51	18.17	17.81	18.02	
Max	17.83	18.65	18.02	17.98	17.75	17.76	17.90	20.19	19.88	19.40	18.03	20.14	20.19
Min	17.52	17.47	17.60	17.62	17.54	17.48	17.51	17.61	17.88	17.87	17.66	17.61	17.47

Annual Max Momentary Gage Height 20.92 M (MSL), at 15.00 Hours, on Nov 12, 1992
Zero Gage at Bottom Elevation 15.85 M (MSL), River Bed 17.19 M (MSL)
Left Bank Elevation 20.37 M (MSL)
Right Bank Elevation 20.65 M (MSL), Drainage Area 43 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.72	1.45	1.30	1.25	0.72	0.64	1.10	4.36	7.01	4.27	1.35	
2	0.68	0.76	1.25	1.10	1.35	0.72	1.10	1.40	4.09	6.10	3.73	1.25	
3	0.68	0.88	1.10	1.15	1.30	0.84	1.20	1.05	3.64	6.10	4.18	1.20	
4	0.84	0.92	1.10	1.10	1.30	0.76	1.05	1.45	2.92	8.12	3.64	1.15	
5	1.20	0.80	3.73	1.10	1.25	0.72	0.92	2.06	4.36	8.36	3.82	1.15	
6	0.96	0.76	3.55	1.71	1.20	0.68	1.78	1.64	4.54	6.00	3.37	1.10	
7	0.80	0.72	4.18	1.30	1.15	0.72	1.30	1.50	7.23	5.20	3.01	1.10	
8	1.85	0.68	3.37	1.15	1.15	0.72	0.96	1.30	13.46	4.27	2.83	1.10	
9	1.71	0.68	2.92	1.10	1.30	0.68	1.00	1.30	30.60	8.36	2.56	1.10	
10	1.35	0.76	2.65	1.35	1.40	0.68	1.71	1.71	20.88	6.00	2.92	1.10	
11	1.15	0.80	1.92	1.30	1.15	0.64	1.25	2.47	18.00	4.81	3.55	1.05	
12	1.15	0.88	3.19	1.25	1.85	0.60	1.10	41.30	11.36	4.18	3.10	8.12	
13	1.85	0.72	2.65	1.45	1.78	0.60	0.88	20.08	7.12	4.18	2.65	8.72	
14	1.20	0.76	2.13	1.40	1.50	0.56	3.10	9.20	6.60	6.20	2.38	8.36	
15	0.96	0.72	1.85	1.15	1.40	0.52	2.29	1.85	5.90	5.30	1.92	6.70	
16	0.84	0.72	2.92	3.01	1.30	0.56	1.71	10.64	5.30	5.20	1.78	7.34	
17	0.80	0.68	2.29	1.99	1.20	0.56	1.40	7.12	4.72	4.72	1.71	4.18	
18	0.72	0.68	1.99	3.82	1.15	0.52	1.25	6.80	4.18	5.00	1.57	6.90	
19	0.76	0.60	2.65	2.83	1.10	0.72	3.01	6.50	3.28	4.18	1.50	6.20	
20	1.99	0.56	2.06	2.92	1.10	0.68	1.92	7.23	4.45	3.91	1.45	38.80	
21	1.10	0.52	1.57	2.06	1.05	0.64	1.50	6.60	3.55	4.63	1.40	10.04	
22	0.88	0.48	1.50	2.56	1.00	0.68	1.25	5.50	5.00	4.18	1.35	6.40	
23	0.80	11.00	1.35	2.06	1.00	1.92	1.10	5.00	19.92	3.73	1.30	5.30	
24	0.72	3.82	1.25	1.71	0.96	1.20	0.96	4.63	20.40	3.82	1.30	4.36	
25	0.72	4.54	1.20	1.50	0.96	0.96	0.96	6.70	23.12	4.09	1.40	3.91	
26	0.84	2.06	1.15	1.45	0.92	0.92	0.92	10.40	14.86	3.28	1.64	3.46	
27	2.47	2.20	1.15	1.40	0.88	0.88	0.84	5.70	12.77	3.10	1.57	3.19	
28	0.92	1.85	1.10	2.83	0.84	0.84	0.80	4.54	18.48	2.83	1.50	2.83	
29	0.96	1.78	1.05	1.64	0.80	0.80	0.76	6.70	10.04	22.00		2.56	
30	0.80	2.56	1.00	1.35	0.80	0.68	0.84	4.63	10.28	7.67		2.47	
31		1.78		1.25	0.76		1.25		8.96	5.70		2.20	
Total	32.42	47.39	61.27	53.29	36.15	22.72	40.75	188.10	314.37	178.23	67.40	154.69	1196.78 CMSDAY
Mean	1.08	1.53	2.04	1.72	1.17	0.76	1.31	6.27	10.14	5.75	2.41	4.99	3.28 CMS
Max	2.47	11.00	4.18	3.82	1.85	1.92	3.10	41.30	30.60	22.00	4.27	38.80	41.30 CMS
Min	0.68	0.48	1.00	1.10	0.76	0.52	0.64	1.05	2.92	2.83	1.30	1.05	0.48 CMS
Runoff	2.801	4.094	5.294	4.604	3.123	1.963	3.521	16.252	27.162	15.399	5.823	13.365	103.402 MCM

Momentary Peak 113.12 CMS, at 20.92 M (MSL), at 15.00 Hours, on Nov 12, 1992
Runoff Yield 76.25 Liters/Second/Square KM, Momentary Peak Yield 2630.70 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA WEST COAST

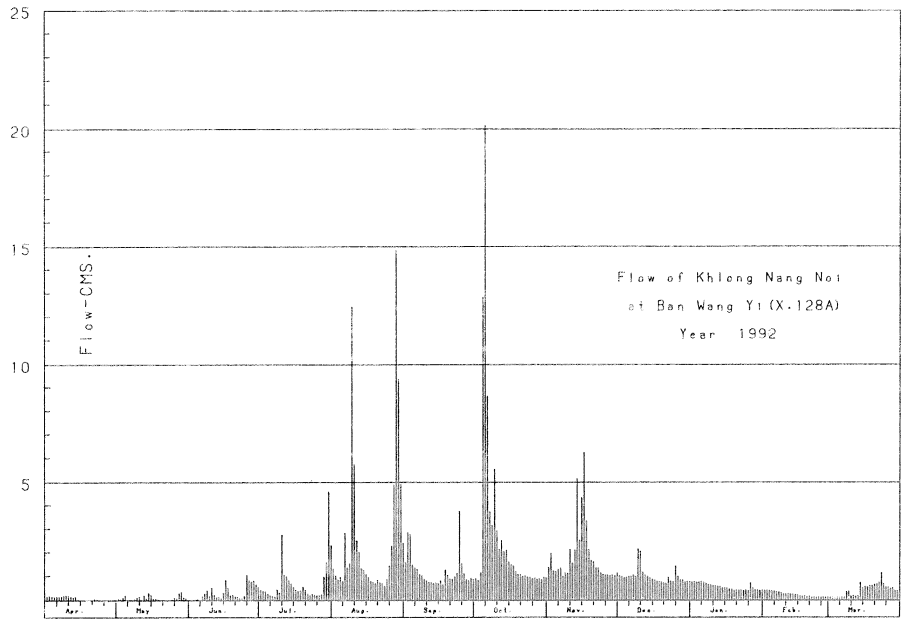
Khlong Nang Noi at Ban Wang Yi, Trang (X.128A)

Location	Lat. 7-35-28 N., Long. 99-44-13 E., on right bank about 2.00 meters upstream from the bridge at Ban Wang Yi, Amphoe Muang, Trang.
Drainage Area	75 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 5 meters from the top staff gage.
Elevation	+5.730 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1984, 1987 to date.
Rated by Float	-
Rated by Current Meter	1984, 1987 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 10 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.11	-0.15	-0.17	-0.02	0.28	0.35	0.14	0.30	0.19	0.10	-0.02	-0.12	
2	-0.11	-0.16	-0.17	-0.03	0.18	0.64	0.12	0.45	0.17	0.10	-0.02	-0.12	
3	-0.11	-0.13	-0.17	-0.04	0.13	0.62	0.23	0.26	0.16	0.10	-0.02	-0.12	
4	-0.12	-0.07	-0.15	-0.07	0.16	0.33	2.22	0.24	0.16	0.10	-0.03	-0.12	
5	-0.11	-0.16	-0.18	-0.09	0.11	0.30	3.08	0.28	0.18	0.10	-0.03	-0.12	
6	-0.12	-0.17	-0.11	-0.11	0.63	0.27	1.64	0.29	0.17	0.09	-0.04	-0.12	
7	-0.11	-0.18	-0.07	-0.11	0.30	0.21	0.81	0.18	0.20	0.08	-0.04	-0.12	
8	-0.10	-0.15	-0.02	-0.01	0.34	0.18	0.70	0.22	0.17	0.06	-0.06	-0.04	
9	-0.09	-0.13	-0.11	-0.06	2.17	0.14	1.13	0.22	0.50	0.06	-0.07	-0.03	
10	-0.10	-0.12	0.01	0.62	1.16	0.11	0.65	0.49	0.47	0.05	-0.07	-0.10	
11	-0.11	-0.16	-0.09	0.20	0.57	0.10	0.49	0.35	0.24	0.04	-0.07	-0.10	
12	-0.12	-0.09	-0.12	0.17	0.46	0.09	0.57	0.49	0.19	0.04	-0.07	-0.11	
13	-0.12	-0.15	-0.12	0.12	0.29	0.08	0.47	1.06	0.18	0.03	-0.08	-0.10	
14	-0.16	-0.06	-0.14	0.07	0.26	0.08	0.48	0.57	0.15	0.02	-0.08	0.09	
15	-0.16	-0.09	-0.06	0.03	0.21	0.08	0.36	0.93	0.14	0.01	-0.09	0.01	
16	-0.16	-0.15	0.13	-0.02	0.16	0.11	0.33	1.25	0.12	0.01	-0.10	0.03	
17	-0.18	-0.15	0.01	-0.03	0.11	0.06	0.32	0.74	0.11	0.00	-0.10	0.03	
18	-0.17	-0.16	-0.09	-0.03	0.09	0.27	0.24	0.49	0.10	-0.01	-0.10	0.04	
19	-0.18	-0.17	-0.09	0.03	0.08	0.19	0.21	0.38	0.10	-0.02	-0.11	0.05	
20	-0.18	-0.18	-0.11	-0.02	0.12	0.14	0.20	0.36	0.08	-0.02	-0.11	0.06	
21	-0.15	-0.17	-0.12	-0.07	0.09	0.13	0.18	0.30	0.08	-0.02	-0.12	0.07	
22	-0.16	-0.18	-0.14	-0.09	0.07	0.17	0.18	0.29	0.16	-0.02	-0.12	0.09	
23	-0.17	-0.17	-0.15	-0.08	0.04	0.22	0.17	0.23	0.11	-0.02	-0.12	0.23	
24	-0.17	-0.15	-0.10	-0.09	0.13	0.82	0.16	0.20	0.10	-0.02	-0.12	0.07	
25	-0.17	-0.13	0.19	-0.10	0.32	0.34	0.15	0.20	0.32	-0.02	-0.12	0.03	
26	-0.17	-0.12	0.12	-0.10	0.52	0.21	0.15	0.19	0.17	0.09	-0.12	0.02	
27	-0.18	-0.06	0.10	-0.08	1.02	0.13	0.14	0.19	0.13	0.01	-0.12	0.01	
28	-0.17	-0.05	0.11	0.17	2.48	0.11	0.14	0.19	0.12	-0.01	-0.12	0.01	
29	-0.17	-0.13	0.06	0.35	1.74	0.15	0.13	0.19	0.10	-0.02		-0.02	
30	-0.18	-0.15	0.02	0.97	1.02	0.13	0.16	0.22	0.10	-0.02		-0.03	
31		-0.16		0.53	0.55		0.16		0.10	-0.02		-0.04	
Mean	-0.14	-0.14	-0.06	0.06	0.51	0.23	0.52	0.39	0.17	0.03	-0.08	-0.02	
Max	-0.09	-0.05	0.19	0.97	2.48	0.82	3.08	1.25	0.50	0.10	-0.02	0.23	3.08
Min	-0.18	-0.18	-0.18	-0.11	0.04	0.06	0.12	0.18	0.08	-0.02	-0.12	-0.12	-0.18

Annual Max Momentary Gage Height 3.92 M (A.D), at 12.00 Hours, on Oct 5, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.04 M (A.D)
Left Bank Elevation 5.54 M (A.D)
Right Bank Elevation 5.53 M (A.D), Drainage Area 75 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.08	0.03	0.44	1.34	1.60	0.92	1.40	1.07	0.80	0.44	0.15	
2	0.18	0.05	0.03	0.41	1.04	2.90	0.86	2.00	1.01	0.80	0.44	0.15	
3	0.18	0.13	0.03	0.38	0.89	2.80	1.19	1.28	0.98	0.80	0.44	0.15	
4	0.15	0.29	0.08	0.29	0.98	1.52	12.85	1.22	0.98	0.80	0.41	0.15	
5	0.18	0.05	0.00	0.23	0.83	1.40	20.16	1.34	1.04	0.80	0.41	0.15	
6	0.15	0.03	0.18	0.18	2.85	1.31	8.68	1.37	1.01	0.77	0.38	0.15	
7	0.18	0.00	0.29	0.18	1.40	1.13	3.75	1.04	1.10	0.74	0.38	0.15	
8	0.20	0.08	0.44	0.47	1.56	1.04	3.20	1.16	1.01	0.68	0.32	0.38	
9	0.23	0.13	0.18	0.32	12.48	0.92	5.58	1.16	2.20	0.68	0.29	0.41	
10	0.20	0.15	0.53	2.80	5.76	0.83	2.95	2.16	2.08	0.65	0.29	0.20	
11	0.18	0.05	0.23	1.10	2.55	0.80	2.16	1.60	1.22	0.62	0.29	0.20	
12	0.15	0.23	0.15	1.01	2.04	0.77	2.55	2.16	1.07	0.62	0.29	0.18	
13	0.15	0.08	0.15	0.86	1.37	0.74	2.08	5.16	1.04	0.59	0.26	0.20	
14	0.05	0.32	0.10	0.71	1.28	0.74	2.12	2.55	0.95	0.56	0.26	0.77	
15	0.05	0.23	0.32	0.59	1.13	0.74	1.64	4.38	0.92	0.53	0.23	0.53	
16	0.05	0.08	0.89	0.44	0.98	0.83	1.52	6.30	0.86	0.53	0.20	0.59	
17	0.00	0.08	0.53	0.41	0.83	0.68	1.48	3.40	0.83	0.50	0.20	0.59	
18	0.03	0.05	0.23	0.41	0.77	1.31	1.22	2.16	0.80	0.47	0.20	0.62	
19	0.00	0.03	0.23	0.59	0.74	1.07	1.13	1.72	0.80	0.44	0.18	0.65	
20	0.00	0.00	0.18	0.44	0.86	0.92	1.10	1.64	0.74	0.44	0.18	0.68	
21	0.08	0.03	0.15	0.29	0.77	0.89	1.04	1.40	0.74	0.44	0.15	0.71	
22	0.05	0.00	0.10	0.23	0.71	1.01	1.04	1.37	0.98	0.44	0.15	0.77	
23	0.03	0.03	0.08	0.26	0.62	1.16	1.01	1.19	0.83	0.44	0.15	1.19	
24	0.03	0.08	0.20	0.23	0.89	3.80	0.98	1.10	0.80	0.44	0.15	0.71	
25	0.03	0.13	1.07	0.20	1.48	1.56	0.95	1.10	1.48	0.44	0.15	0.59	
26	0.03	0.15	0.86	0.20	2.30	1.13	0.95	1.07	1.01	0.77	0.15	0.56	
27	0.00	0.32	0.80	0.26	4.92	0.89	0.92	1.07	0.89	0.53	0.15	0.53	
28	0.03	0.35	0.83	1.01	14.84	0.83	0.92	1.07	0.86	0.47	0.15	0.53	
29	0.03	0.13	0.68	1.60	9.38	0.95	0.89	1.07	0.80	0.44		0.44	
30	0.00	0.08	0.56	4.62	4.92	0.89	0.98	1.16	0.80	0.44		0.41	
31		0.05		2.35	2.45		0.98		0.80	0.44		0.38	
Total	2.80	3.49	10.13	23.51	84.96	37.16	87.80	56.80	31.70	18.11	7.29	13.87	377.62 CMSDAY
Mean	0.09	0.11	0.34	0.76	2.74	1.24	2.83	1.89	1.02	0.58	0.26	0.45	1.03 CMS
Max	0.23	0.35	1.07	4.62	14.84	3.80	20.16	6.30	2.20	0.80	0.44	1.19	20.16 CMS
Min	0.00	0.00	0.00	0.18	0.62	0.68	0.86	1.04	0.74	0.44	0.15	0.15	0.00 CMS
Runoff	0.242	0.302	0.875	2.031	7.341	3.211	7.586	4.908	2.739	1.565	0.630	1.198	32.626 MCM

Momentary Peak 29.24 CMS, at 3.92 M (A.D), at 12.00 Hours, on Oct 5, 1992
Runoff Yield 13.79 Liters/Second/Square KM, Momentary Peak Yield 389.87 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Tha Ma Dua at Ban Khlong Ai To, Phatthalung (X.129)

Location — Lat. 07°-23'-19" N., Long. 100°-06'-44" n., on right bank near Wat Ban Ai To, Ban Khlong Ai To, Amphoe Khao Chai Son, Phatthalung.

Drainage Area — 332 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +13.30 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On right bank about 30 meters from the top staff gage.

Elevation — +20.510 m.(M.S.L.)

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

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

Period of Available Gage Records — 1982 to date.

Rating Operation

Period of Rating — 1983 to date.

Rated by Float — -

Rated by Current Meter — 1983 to date.

Stability of Channel Regimes — Stable.

Overbank Flow Conditions — Overbank flow starts at elevation +20.50 m.(M.S.L.),records are channel flow only.

General Description — Records fair. Stage-discharge relation defined by 15 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

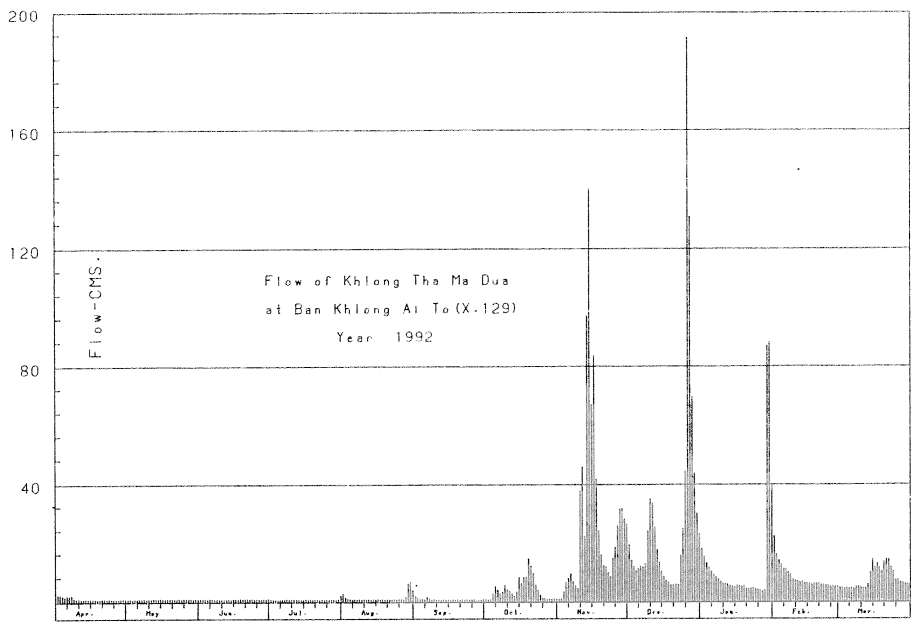
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.76	13.58	13.60	13.58	13.80	13.73	13.57	13.60	14.97	14.91	15.13	14.02	
2	13.75	13.58	13.60	13.57	13.68	13.64	13.57	13.60	14.68	14.75	14.80	13.99	
3	13.73	13.58	13.59	13.56	13.60	13.60	13.57	13.87	14.54	14.63	14.68	13.99	
4	13.68	13.58	13.59	13.56	13.60	13.58	13.81	14.16	14.45	14.52	14.59	13.99	
5	13.73	13.58	13.59	13.56	13.58	13.58	14.04	14.27	14.50	14.44	14.50	13.99	
6	13.71	13.58	13.59	13.56	13.58	13.69	13.94	14.39	14.54	14.36	14.49	13.99	
7	13.74	13.59	13.58	13.58	13.58	13.61	13.79	14.20	14.54	14.32	14.43	13.98	
8	13.62	13.59	13.58	13.58	13.58	13.58	13.87	14.06	14.60	14.25	14.37	14.02	
9	13.59	13.59	13.58	13.58	13.58	13.58	14.08	13.98	15.22	14.20	14.25	14.06	
10	13.59	13.58	13.57	13.58	13.58	13.56	13.94	15.84	15.72	14.14	14.22	14.01	
11	13.58	13.58	13.57	13.58	13.58	13.56	13.88	16.19	15.67	14.12	14.20	13.98	
12	13.58	13.59	13.58	13.58	13.58	13.56	13.81	15.12	15.27	14.11	14.19	14.00	
13	13.58	13.59	13.58	13.57	13.58	13.56	13.71	18.06	14.89	14.09	14.18	14.11	
14	13.58	13.59	13.58	13.57	13.58	13.56	13.87	19.32	14.63	14.04	14.16	14.42	
15	13.58	13.60	13.59	13.57	13.58	13.56	14.30	17.04	14.43	14.01	14.14	14.69	
16	13.58	13.60	13.59	13.57	13.58	13.56	14.15	17.61	14.33	14.08	14.13	14.52	
17	13.58	13.60	13.59	13.57	13.58	13.57	14.30	16.02	14.23	14.06	14.12	14.62	
18	13.55	13.60	13.60	13.57	13.58	13.56	14.31	15.21	14.17	14.05	14.13	14.52	
19	13.57	13.60	13.60	13.57	13.58	13.58	14.72	14.79	14.11	14.06	14.14	14.44	
20	13.58	13.60	13.60	13.57	13.58	13.57	14.55	14.57	14.08	13.98	14.13	14.64	
21	13.58	13.60	13.60	13.57	13.58	13.57	14.40	14.53	14.10	13.95	14.11	14.69	
22	13.58	13.60	13.60	13.56	13.58	13.57	14.11	14.41	14.11	13.99	14.10	14.70	
23	13.58	13.60	13.60	13.57	13.58	13.57	13.92	14.31	14.78	13.98	14.09	14.54	
24	13.57	13.60	13.59	13.57	13.58	13.58	13.76	14.71	15.25	13.96	14.07	14.43	
25	13.57	13.60	13.59	13.57	13.58	13.57	13.65	14.92	16.13	13.94	14.05	14.24	
26	13.57	13.60	13.59	13.57	13.58	13.57	13.61	15.30	20.66	13.90	14.04	14.23	
27	13.57	13.60	13.59	13.57	13.58	13.57	13.60	15.58	19.06	13.88	14.04	14.19	
28	13.58	13.60	13.59	13.57	13.67	13.57	13.59	15.58	17.13	13.91	14.04	14.15	
29	13.58	13.60	13.60	13.57	14.15	13.57	13.60	15.42	16.10	17.73		14.13	
30	13.58	13.60	13.60	13.58	14.18	13.57	13.60	15.32	15.52	17.77		14.11	
31		13.60		13.74	13.91		13.59		15.16	15.95		14.09	
Mean	13.61	13.59	13.59	13.58	13.64	13.58	13.91	15.20	15.21	14.45	14.27	14.24	
Max	13.76	13.60	13.60	13.74	14.18	13.73	14.72	19.32	20.66	17.77	15.13	14.70	20.66
Min	13.55	13.58	13.57	13.56	13.58	13.56	13.57	13.60	14.08	13.88	14.04	13.98	13.55

Annual Max Momentary Gage Height — 20.70 M (MSL), at 9.00 Hours, on Dec 26, 1992

Zero Gage at Bottom Elevation — 13.30 M (MSL), River Bed — 13.00 M (MSL)

Left Bank Elevation — 20.49 M (MSL)

Right Bank Elevation — 20.55 M (MSL), Drainage Area — 332 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.60	1.06	1.20	1.06	3.00	2.30	0.99	1.20	19.46	18.38	22.60	5.20	
2	2.50	1.06	1.20	0.99	1.84	1.52	0.99	1.20	14.36	15.55	16.40	4.90	
3	2.30	1.06	1.13	0.92	1.20	1.20	0.99	3.70	12.10	13.51	14.36	4.90	
4	1.84	1.06	1.13	0.92	1.20	1.06	3.10	6.72	10.75	11.80	12.85	4.90	
5	2.30	1.06	1.13	0.92	1.06	1.06	5.40	8.11	11.50	10.60	11.50	4.90	
6	2.10	1.06	1.13	0.92	1.06	1.92	4.40	9.85	12.10	9.40	11.35	4.90	
7	2.40	1.13	1.06	1.06	1.06	1.28	2.90	7.20	12.10	8.80	10.45	4.80	
8	1.36	1.13	1.06	1.06	1.06	1.06	3.70	5.60	13.00	7.85	9.55	5.20	
9	1.13	1.13	1.06	1.06	1.06	1.06	5.80	4.80	24.40	7.20	7.85	5.60	
10	1.13	1.06	0.99	1.06	1.06	0.92	4.40	37.72	34.96	6.48	7.46	5.10	
11	1.06	1.06	0.99	1.06	1.06	0.92	3.80	45.96	33.81	6.24	7.20	4.80	
12	1.06	1.13	1.06	1.06	1.06	0.92	3.10	22.40	25.40	6.12	7.08	5.00	
13	1.06	1.13	1.06	0.99	1.06	0.92	2.10	97.36	18.02	5.90	6.96	6.12	
14	1.06	1.13	1.06	0.99	1.06	0.92	3.70	140.20	13.51	5.40	6.72	10.30	
15	1.06	1.20	1.13	0.99	1.06	0.92	8.50	67.28	10.45	5.10	6.48	14.53	
16	1.06	1.20	1.13	0.99	1.06	0.92	6.60	83.69	8.95	5.80	6.36	11.80	
17	1.06	1.20	1.13	0.99	1.06	0.99	8.50	41.88	7.59	5.60	6.24	13.34	
18	0.85	1.20	1.20	0.99	1.06	0.92	8.65	24.20	6.84	5.50	6.36	11.80	
19	0.99	1.20	1.20	0.99	1.06	1.06	15.04	16.23	6.12	5.60	6.48	10.60	
20	1.06	1.20	1.20	0.99	1.06	0.99	12.25	12.55	5.80	4.80	6.36	13.68	
21	1.06	1.20	1.20	0.99	1.06	0.99	10.00	11.95	6.00	4.50	6.12	14.53	
22	1.06	1.20	1.20	0.92	1.06	0.99	6.12	10.15	6.12	4.90	6.00	14.70	
23	1.06	1.20	1.20	0.99	1.06	0.99	4.20	8.65	16.06	4.80	5.90	12.10	
24	0.99	1.20	1.13	0.99	1.06	1.06	2.60	14.87	25.00	4.60	5.70	10.45	
25	0.99	1.20	1.13	0.99	1.06	0.99	1.60	18.56	44.52	4.40	5.50	7.72	
26	0.99	1.20	1.13	0.99	1.06	0.99	1.28	26.00	191.50	4.00	5.40	7.59	
27	0.99	1.20	1.13	0.99	1.06	0.99	1.20	31.76	131.10	3.80	5.40	7.08	
28	1.06	1.20	1.13	0.99	1.76	0.99	1.13	31.76	69.77	4.10	5.40	6.60	
29	1.06	1.20	1.20	0.99	6.60	0.99	1.20	28.40	43.80	87.20		6.36	
30	1.06	1.20	1.20	1.06	6.96	0.99	1.20	26.40	30.44	88.40		6.12	
31		1.20		2.40	4.10		1.13		23.20	40.25		5.90	
Total	40.30	35.66	33.90	32.31	51.04	32.83	136.57	846.35	888.73	416.58	236.03	251.52	3001.82 CMSDAY
Mean	1.34	1.15	1.13	1.04	1.65	1.09	4.41	28.21	28.67	13.44	8.43	8.11	8.22 CMS
Max	2.60	1.20	1.20	2.40	6.96	2.30	15.04	140.20	191.50	88.40	22.60	14.70	191.50 CMS
Min	0.85	1.06	0.99	0.92	1.06	0.92	0.99	1.20	5.80	3.80	5.40	4.80	0.85 CMS
Runoff	3.482	3.081	2.929	2.792	4.410	2.837	11.800	73.125	76.786	35.993	20.393	21.731	259.357 MCM

Momentary Peak 193.10 CMS, at 20.70 M (MSL), at 9.00 Hours, on Dec 26, 1992

Runoff Yield 24.77 Liters/Second/Square KM, Momentary Peak Yield 581.63 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Klai at Ban Thai Na, Nakhon Si Thammarat (X.149)

Location — Lat. 8°-43'-48" N., Long. 99°-44'-52" E., on left bank at Ban Thai Na, Amphoe Tha Sa La, Nakhon Si Thammarat.

Drainage Area — 469 sq.km.

Type of Gage — Staff gage.

Zero Gage at Bottom — +28.30 m.(M.S.L.)

Bench Mark — B.M.-H.D.

- Location — On left bank near the station office.
- Elevation — +34.588 m.(M.S.L.)

Gage Reading Frequency — 13-time daily readings at 06.00-18.00 hours.

Basis of Mean Daily Gage Height — Arithmetic mean of 13 readings.

Period of Available Gage Records — 1984 to date

Rating Operation

- Period of Rating — 1984 to date
- Rated by Float —
- Rated by Current Meter — 1984 to date

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 57 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

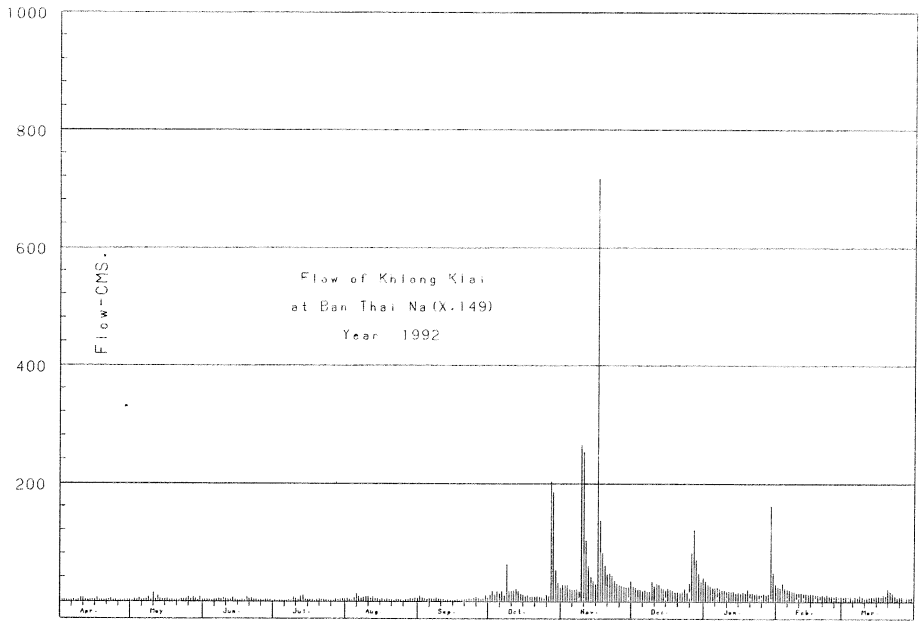
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.71	28.67	28.70	28.65	28.80	28.86	28.94	29.25	29.23	29.34	29.19	28.84	
2	28.70	28.73	28.73	28.64	28.71	28.82	29.05	29.26	29.17	29.28	29.15	28.83	
3	28.70	28.72	28.69	28.63	28.70	28.75	28.94	29.24	29.14	29.22	29.31	28.85	
4	28.70	28.78	28.70	28.67	28.82	28.74	29.03	29.15	29.10	29.19	29.15	28.84	
5	28.70	28.71	28.74	28.65	28.98	28.77	28.98	29.09	29.08	29.16	29.14	28.82	
6	28.70	28.68	28.70	28.65	28.84	28.73	29.04	29.11	29.08	29.20	29.09	28.82	
7	28.69	28.75	28.77	28.64	28.79	28.76	28.90	29.11	29.05	29.13	29.06	28.82	
8	28.69	28.82	28.70	28.69	28.80	28.78	29.64	29.06	29.03	29.10	29.03	28.89	
9	28.82	28.72	28.81	28.84	28.87	28.75	29.04	30.63	29.35	29.08	29.01	28.85	
10	28.78	29.02	28.73	28.74	28.84	28.73	29.07	30.59	29.21	29.06	29.00	28.82	
11	28.72	28.75	28.70	28.72	28.80	28.71	29.06	29.91	29.31	29.05	28.98	28.82	
12	28.71	28.90	28.73	28.86	28.83	28.69	29.15	29.60	29.26	29.05	28.98	28.84	
13	28.70	28.75	28.80	28.93	28.78	28.68	29.04	29.43	29.18	29.03	28.96	28.82	
14	28.70	28.71	28.73	28.75	28.77	28.68	28.97	29.34	29.13	29.00	28.95	28.84	
15	28.69	28.75	28.69	28.72	28.74	28.67	28.91	29.29	29.10	29.00	28.95	28.84	
16	28.83	28.73	28.69	28.68	28.72	28.69	28.87	31.84	29.15	28.98	28.94	28.85	
17	28.71	28.71	28.69	28.68	28.71	28.68	28.89	30.11	29.13	29.00	28.93	28.86	
18	28.69	28.70	28.69	28.66	28.73	28.67	28.85	29.78	29.07	29.00	28.91	28.91	
19	28.70	28.69	28.86	28.70	28.73	28.66	28.83	29.62	29.04	29.11	28.90	28.90	
20	28.70	28.68	28.73	28.76	28.70	28.73	28.85	29.46	29.02	29.00	28.90	29.13	
21	28.74	28.70	28.78	28.69	28.68	28.69	28.84	29.49	29.01	28.98	28.89	29.06	
22	28.75	28.75	28.73	28.72	28.75	28.76	28.85	29.44	29.02	28.96	28.92	28.97	
23	28.70	28.72	28.70	28.68	28.69	28.70	28.80	29.36	29.13	28.96	28.87	28.89	
24	28.68	28.77	28.69	28.69	28.69	28.79	28.78	29.29	29.02	28.94	28.86	28.85	
25	28.68	28.82	28.69	28.67	28.69	28.80	28.93	29.27	29.31	28.94	28.86	28.84	
26	28.67	28.73	28.68	28.67	28.70	28.79	28.85	29.22	29.79	28.96	28.85	28.82	
27	28.67	28.85	28.73	28.73	28.73	28.74	30.40	29.22	30.02	28.94	28.85	28.81	
28	28.66	28.74	28.68	28.72	28.75	28.73	30.32	29.17	29.70	28.94	28.84	28.80	
29	28.69	28.71	28.69	28.72	28.75	28.91	29.54	29.21	29.48	30.23		28.80	
30	28.66	28.82	28.66	28.77	28.77	28.77	29.30	29.34	29.34	29.49		28.79	
31		28.72		28.73	28.80		29.19		29.40	29.29		28.79	
Mean	28.71	28.75	28.72	28.71	28.76	28.74	29.09	29.53	29.23	29.12	28.98	28.86	
Max	28.83	29.02	28.86	28.93	28.98	28.91	30.40	31.84	30.02	30.23	29.31	29.13	31.84
Min	28.66	28.67	28.66	28.63	28.68	28.66	28.78	29.06	29.01	28.94	28.84	28.79	28.63

Annual Max Momentary Gage Height — 33.12 M (MSL), at 10.00 Hours, on Nov 16, 1992

Zero Gage at Bottom Elevation — 28.30 M (MSL), River Bed — 25.29 M (MSL)

Left Bank Elevation — 34.94 M (MSL)

Right Bank Elevation — 34.72 M (MSL), Drainage Area — 469 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.96	3.12	3.60	2.80	7.20	9.48	12.80	28.00	26.80	34.60	24.50	8.72	
2	3.60	4.68	4.68	2.64	3.96	7.96	17.75	28.60	23.50	29.80	22.50	8.34	
3	3.60	4.32	3.44	2.48	3.60	5.40	12.80	27.40	22.00	26.20	31.90	9.10	
4	3.60	6.48	3.60	3.12	7.96	5.04	16.85	22.50	20.00	24.50	22.50	8.72	
5	3.60	3.96	5.04	2.80	14.60	6.12	14.60	19.55	19.10	23.00	22.00	7.96	
6	3.60	3.28	3.60	2.80	8.72	4.68	17.30	20.50	19.10	25.00	19.55	7.96	
7	3.44	5.40	6.12	2.64	6.84	5.76	11.00	20.50	17.75	21.50	18.20	7.96	
8	3.44	7.96	3.60	3.44	7.20	6.48	64.28	18.20	16.85	20.00	16.85	10.62	
9	7.96	4.32	7.58	8.72	9.86	5.40	17.30	265.20	35.50	19.10	15.95	9.10	
10	6.48	16.40	4.68	5.04	8.72	4.68	18.65	254.49	25.60	18.20	15.50	7.96	
11	4.32	5.40	3.60	4.32	7.20	3.96	18.20	103.34	31.90	17.75	14.60	7.96	
12	3.96	11.00	4.68	9.48	8.34	3.44	22.50	60.20	28.60	17.75	14.60	8.72	
13	3.60	5.40	7.20	12.35	6.48	3.28	17.30	43.00	24.00	16.85	13.70	7.96	
14	3.60	3.96	4.68	5.40	6.12	3.28	14.15	34.60	21.50	15.50	13.25	8.72	
15	3.44	5.40	3.44	4.32	5.04	3.12	11.45	30.40	20.00	15.50	13.25	8.72	
16	8.34	4.68	3.44	3.28	4.32	3.44	9.86	718.00	22.50	14.60	12.80	9.10	
17	3.96	3.96	3.44	3.28	3.96	3.28	10.62	138.78	21.50	15.50	12.35	9.48	
18	3.44	3.60	3.44	2.96	4.68	3.12	9.10	82.08	18.65	15.50	11.45	11.45	
19	3.60	3.44	9.48	3.60	4.68	2.96	8.34	62.24	17.30	20.50	11.00	11.00	
20	3.60	3.28	4.68	5.76	3.60	4.68	9.10	46.00	16.40	15.50	11.00	21.50	
21	5.04	3.60	6.48	3.44	3.28	3.44	8.72	49.00	15.95	14.60	10.62	18.20	
22	5.40	5.40	4.68	4.32	5.40	5.76	9.10	44.00	16.40	13.70	11.90	14.15	
23	3.60	4.32	3.60	3.28	3.44	3.60	7.20	36.40	21.50	13.70	9.86	10.62	
24	3.28	6.12	3.44	3.44	3.44	6.84	6.48	30.40	16.40	12.80	9.48	9.10	
25	3.28	7.96	3.44	3.12	3.44	7.20	12.35	29.20	31.90	12.80	9.48	8.72	
26	3.12	4.68	3.28	3.12	3.60	6.84	9.10	26.20	83.54	13.70	9.10	7.96	
27	3.12	9.10	4.68	4.68	4.68	5.04	204.90	26.20	122.56	12.80	9.10	7.58	
28	2.96	5.04	3.28	4.32	5.40	4.68	185.38	23.50	70.40	12.80	8.72	7.20	
29	3.44	3.96	3.44	4.32	5.40	11.45	54.08	25.60	48.00	163.77		7.20	
30	2.96	7.96	2.96	6.12	6.12	6.12	31.00	34.60	34.60	49.00		6.84	
31		4.32		4.68	7.20		24.50		40.00	30.40		6.84	
Total	121.34	172.50	133.30	136.07	184.48	156.53	886.76	2348.68	949.80	756.92	415.71	295.46	6557.55 CMSDAY
Mean	4.04	5.56	4.44	4.39	5.95	5.22	28.61	78.29	30.64	24.42	14.85	9.53	17.97 CMS
Max	8.34	16.40	9.48	12.35	14.60	11.45	204.90	718.00	122.56	163.77	31.90	21.50	718.00 CMS
Min	2.96	3.12	2.96	2.48	3.28	2.96	6.48	18.20	15.95	12.80	8.72	6.84	2.48 CMS
Runoff	10.484	14.904	11.517	11.756	15.939	13.524	76.616	202.926	82.063	65.398	35.917	25.528	566.572 MCM

Momentary Peak 1472.40 CMS, at 33.12 M (MSL), at 10.00 Hours, on Nov 16, 1992
Runoff Yield 38.31 Liters/Second/Square KM, Momentary Peak Yield 3139.44 Liters/Second/Square KM

WATER YEAR 1992

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 — +0.00 m.(A.D.)

Bench Mark — B.M.-A.D.

Location — On right bank about 100 meters from the top staff gage.

Elevation — +8.839 m.(A.D.)

Gage Reading Frequency — 5-time daily readings at 06.00, 09.00, 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 — Rather unstable.

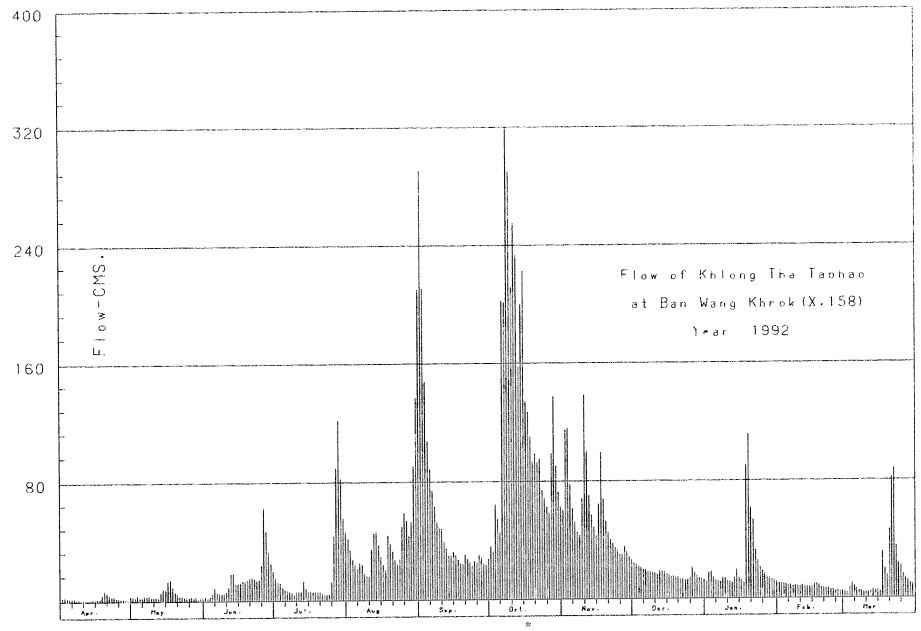
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 47 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.15	0.14	0.58	1.17	4.50	1.05	1.49	0.80	0.48	0.44	0.21	
2	0.13	0.14	0.11	0.50	1.00	3.58	0.97	2.36	0.77	0.63	0.42	0.20	
3	0.12	0.18	0.14	0.47	0.87	2.80	1.56	2.37	0.75	0.66	0.43	0.34	
4	0.11	0.14	0.25	0.39	0.78	2.25	1.40	1.78	0.72	0.55	0.41	0.42	
5	0.11	0.12	0.38	0.34	0.73	1.96	1.23	1.52	0.70	0.50	0.40	0.37	
6	0.09	0.17	0.28	0.30	0.81	1.72	3.48	1.36	0.69	0.47	0.39	0.29	
7	0.07	0.18	0.24	0.29	0.80	1.55	3.47	1.24	0.67	0.47	0.38	0.26	
8	0.07	0.16	0.24	0.25	0.65	1.36	4.82	1.19	0.66	0.54	0.38	0.23	
9	0.06	0.14	0.24	0.21	0.62	1.30	4.49	1.63	0.65	0.55	0.38	0.22	
10	0.04	0.12	0.30	0.27	0.60	1.28	3.59	2.68	0.63	0.49	0.38	0.21	
11	0.04	0.12	0.39	0.27	1.01	1.12	4.09	2.14	0.61	0.46	0.38	0.20	
12	0.04	0.12	0.66	0.28	1.24	1.02	3.84	1.66	0.66	0.45	0.36	0.23	
13	0.06	0.28	0.65	0.52	1.25	0.92	2.93	1.44	0.67	0.54	0.35	0.26	
14	0.07	0.36	0.47	0.37	1.08	0.91	3.45	1.29	0.65	0.68	0.35	0.25	
15	0.07	0.35	0.46	0.29	0.90	0.98	3.72	1.19	0.63	0.55	0.35	0.26	
16	0.07	0.51	0.48	0.27	0.79	0.92	2.62	1.56	0.60	0.49	0.40	0.26	
17	0.10	0.56	0.53	0.28	0.70	0.86	2.53	2.13	0.58	0.45	0.42	0.94	
18	0.21	0.40	0.51	0.27	1.21	0.79	2.29	1.62	0.57	1.98	0.39	0.70	
19	0.33	0.30	0.55	0.28	1.09	0.80	2.03	1.37	0.56	2.31	0.34	0.58	
20	0.26	0.23	0.57	0.27	0.99	0.93	2.12	1.23	0.55	1.51	0.32	1.26	
21	0.19	0.17	0.58	0.23	0.85	0.87	2.03	1.14	0.53	1.39	0.32	1.85	
22	0.17	0.15	0.57	0.20	0.80	0.81	2.06	1.08	0.51	0.99	0.31	1.95	
23	0.15	0.15	0.52	0.20	0.87	0.77	1.72	1.03	0.51	0.83	0.29	1.04	
24	0.12	0.15	0.55	0.22	1.31	0.83	1.63	0.98	0.50	0.73	0.27	0.78	
25	0.09	0.14	0.79	0.51	1.47	0.81	1.54	0.93	0.56	0.67	0.25	0.75	
26	0.07	0.13	1.53	1.21	1.39	0.93	1.46	0.92	0.72	0.62	0.24	0.60	
27	0.07	0.12	1.27	1.97	1.20	0.88	2.12	1.05	0.64	0.57	0.23	0.54	
28	0.06	0.13	0.98	2.46	1.37	0.79	2.66	0.96	0.58	0.54	0.23	0.48	
29	0.05	0.10	0.82	1.86	1.99	0.78	1.99	0.89	0.55	0.52		0.43	
30	0.18	0.14	0.69	1.41	2.66	0.87	1.70	0.84	0.52	0.49		0.39	
31		0.15		1.25	3.57		1.53		0.50	0.46		0.35	
Mean	0.11	0.20	0.53	0.59	1.15	1.33	2.46	1.44	0.62	0.73	0.35	0.54	
Max	0.33	0.56	1.53	2.46	3.57	4.50	4.82	2.68	0.80	2.31	0.44	1.95	4.82
Min	0.04	0.10	0.11	0.20	0.60	0.77	0.97	0.84	0.50	0.45	0.23	0.20	0.04

Annual Max Momentary Gage Height 4.94 M (A.D), at 18.00 Hours, on Sep 12, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.64 M (A.D)
Left Bank Elevation 9.73 M (A.D)
Right Bank Elevation 10.15 M (A.D), Drainage Area 1819 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.80	3.00	2.80	15.52	42.30	291.00	36.40	60.40	24.80	12.12	10.76	4.26	
2	2.60	2.80	2.20	12.80	34.00	210.90	32.62	115.28	23.48	17.46	10.08	4.00	
3	2.40	3.60	2.80	11.78	28.02	148.00	64.60	115.96	22.60	18.72	10.42	7.72	
4	2.20	2.80	5.30	9.12	23.92	107.90	55.00	77.98	21.28	14.50	9.74	10.08	
5	2.20	2.40	8.84	7.72	21.72	89.12	45.48	62.20	20.40	12.80	9.40	8.56	
6	1.80	3.40	6.08	6.60	25.26	74.32	202.40	52.76	19.98	11.78	9.12	6.34	
7	1.40	3.60	5.04	6.34	24.80	64.00	201.55	46.04	19.14	11.78	8.84	5.56	
8	1.40	3.20	5.04	5.30	18.30	52.76	319.80	43.30	18.72	14.16	8.84	4.78	
9	1.20	2.80	5.04	4.26	17.04	49.40	290.10	68.83	18.30	14.50	8.84	4.52	
10	0.80	2.40	6.60	5.82	16.20	48.28	211.75	138.88	17.46	12.46	8.84	4.26	
11	0.80	2.40	9.12	5.82	34.48	39.80	254.83	100.64	16.62	11.44	8.84	4.00	
12	0.80	2.40	18.72	6.08	46.04	34.96	233.24	70.66	18.72	11.10	8.28	4.78	
13	1.20	6.08	18.30	13.48	46.60	30.32	158.01	57.40	19.14	14.16	8.00	5.56	
14	1.40	8.28	11.78	8.56	37.84	29.86	199.85	48.84	18.30	19.56	8.00	5.30	
15	1.40	8.00	11.44	6.34	29.40	33.08	222.92	43.30	17.46	14.50	8.00	5.56	
16	1.40	13.14	12.12	5.82	24.36	30.32	134.32	64.60	16.20	12.46	9.40	5.56	
17	2.00	14.84	13.82	6.08	20.40	27.56	127.48	99.98	15.52	11.10	10.08	31.24	
18	4.26	9.40	13.14	5.82	44.36	24.36	110.54	68.22	15.18	90.36	9.12	20.40	
19	7.44	6.60	14.50	6.08	38.32	24.80	93.52	53.32	14.84	111.88	7.72	15.52	
20	5.56	4.78	15.18	5.82	33.54	30.78	99.32	45.48	14.50	61.60	7.16	47.16	
21	3.80	3.40	15.52	4.78	27.10	28.02	93.52	40.80	13.82	54.44	7.16	82.30	
22	3.40	3.00	15.18	4.00	24.80	25.26	95.44	37.84	13.14	33.54	6.88	88.50	
23	3.00	3.00	13.48	4.00	28.02	23.48	74.32	35.44	13.14	26.18	6.34	35.92	
24	2.40	3.00	14.50	4.52	49.96	26.18	68.83	33.08	12.80	21.72	5.82	23.92	
25	1.80	2.80	24.36	13.14	59.20	25.26	63.40	30.78	14.84	19.14	5.30	22.60	
26	1.40	2.60	62.80	44.36	54.44	30.78	58.60	30.32	21.28	17.04	5.04	16.20	
27	1.40	2.40	47.72	89.74	43.80	28.48	99.32	36.40	17.88	15.18	4.78	14.16	
28	1.20	2.60	33.08	122.32	53.32	24.36	137.36	32.16	15.52	14.16	4.78	12.12	
29	1.00	2.00	25.72	82.92	90.98	23.92	90.98	28.94	14.50	13.48		10.42	
30	3.60	2.80	19.98	55.60	137.36	28.02	73.10	26.64	13.48	12.46		9.12	
31		3.00		46.60	210.05		62.80		12.80	11.44		8.00	
Total	68.06	136.52	460.20	627.14	1385.93	1705.28	4011.40	1766.47	535.84	737.22	225.58	528.42	12188.06 CMSDAY
Mean	2.27	4.40	15.34	20.23	44.71	56.84	129.40	58.88	17.29	23.78	8.06	17.05	33.39 CMS
Max	7.44	14.84	62.80	122.32	210.05	291.00	319.80	138.88	24.80	111.88	10.76	88.50	319.80 CMS
Min	0.80	2.00	2.20	4.00	16.20	23.48	32.62	26.64	12.80	11.10	4.78	4.00	0.80 CMS
Runoff	5.880	11.795	39.761	54.185	119.744	147.336	346.585	152.623	46.297	63.696	19.490	45.655	1053.048 MCM

Momentary Peak 330.60 CMS, at 4.94 M (A.D), at 18.00 Hours, on Sep 12, 1992
Runoff Yield 18.36 Liters/Second/Square KM, Momentary Peak Yield 181.75 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong To Daeng at Ban Kwa Ro Krung, Narathiwat (X.159)

Location — Lat. 6-05-08 N., Long. 102-01-20 E., on right bank downstream from the bridge of Ban Lu Bo Lu Song-Ban Khlong Chang Road, Amphoe Sungai Kolok, Narathiwat.

Drainage Area — Flood plain.

Type of Gage — Water-stage recorder.

Zero Gage at Bottom — +2.100 m.(M.S.L.)

Bench Mark — B.M.-H.D.

Location — On right bank at the abutment of the bridge.

Elevation — +4.549 m.(M.S.L.)

Gage Reading Frequency — Recording.

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

Period of Available Gage Records — 1984 to date.

Rating Operation

Period of Rating — 1987 to date.

Rated by Float —

Rated by Current Meter — 1987 to date.

Stability of Channel Regimes — Rather unstable.

Overbank Flow Conditions — Overbank flow starts at elevation +3.02 m.(M.S.L.) , records are channel flow only.

General Description — Records good. Stage-discharge relation defined by 48 discharge measurements made in 1992.

Gage Height in Meter (MSL), Water Year April 1, 1992 to March 31, 1993

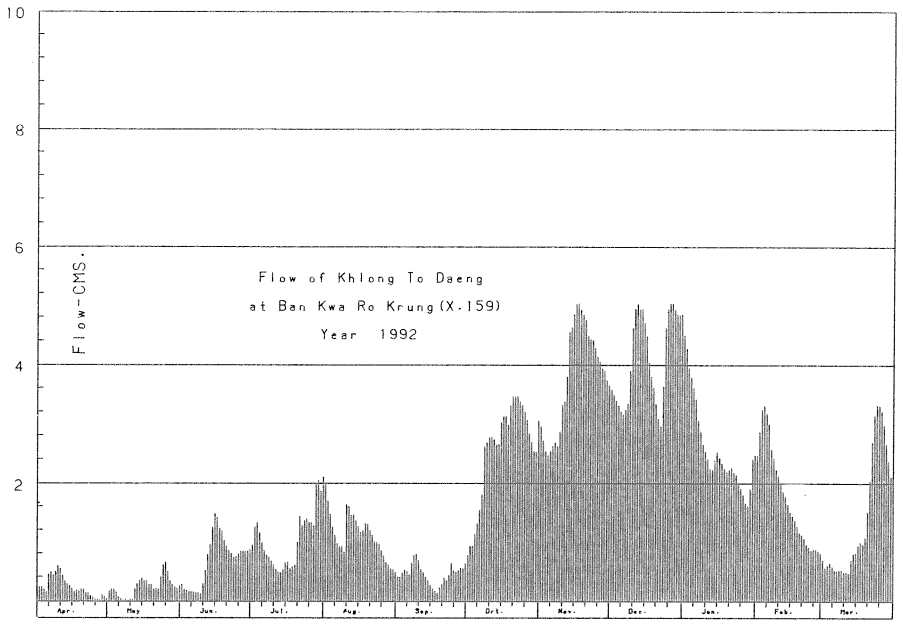
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.28	2.23	2.30	2.73	3.23	2.40	2.64	3.60	3.78	3.95	3.43	2.59	
2	2.27	2.24	2.25	2.90	3.11	2.39	2.72	3.52	3.76	3.92	3.57	2.50	
3	2.25	2.25	2.23	2.93	3.00	2.45	2.73	3.46	3.73	3.86	3.69	2.53	
4	2.21	2.21	2.22	2.85	2.90	2.48	2.83	3.43	3.71	3.83	3.71	2.55	
5	2.43	2.16	2.22	2.76	2.82	2.46	2.93	3.46	3.68	3.79	3.67	2.52	
6	2.45	2.13	2.21	2.68	2.75	2.43	3.03	3.49	3.66	3.74	3.61	2.48	
7	2.42	2.12	2.21	2.64	2.72	2.56	3.16	3.51	3.69	3.63	3.47	2.46	
8	2.46	2.12	2.20	2.61	2.72	2.63	3.49	3.49	3.72	3.57	3.41	2.48	
9	2.53	2.10	2.19	2.58	2.67	2.65	3.51	3.57	3.85	3.50	3.34	2.47	
10	2.49	2.12	2.31	2.53	3.08	2.58	3.54	3.71	3.97	3.46	3.29	2.46	
11	2.42	2.13	2.48	2.49	3.06	2.49	3.54	3.73	4.01	3.41	3.23	2.45	
12	2.35	2.26	2.64	2.45	2.99	2.45	3.53	3.83	4.02	3.34	3.18	2.44	
13	2.31	2.31	2.74	2.45	3.00	2.40	3.50	3.96	4.01	3.34	3.14	2.58	
14	2.29	2.36	2.89	2.48	2.95	2.35	3.50	3.97	4.01	3.40	3.08	2.65	
15	2.25	2.37	3.01	2.56	2.90	2.30	3.62	4.00	3.98	3.45	3.02	2.65	
16	2.22	2.35	2.97	2.56	2.85	2.25	3.65	4.02	3.95	3.42	2.98	2.73	
17	2.23	2.34	2.89	2.50	2.87	2.22	3.65	4.02	3.88	3.38	2.95	2.76	
18	2.23	2.31	2.86	2.51	2.93	2.20	3.61	4.01	3.83	3.35	2.90	2.74	
19	2.24	2.30	2.78	2.54	2.92	2.27	3.71	4.00	3.79	3.32	2.85	2.80	
20	2.25	2.25	2.72	2.76	2.87	2.30	3.75	3.99	3.72	3.34	2.82	3.02	
21	2.21	2.25	2.68	2.98	2.82	2.38	3.75	3.95	3.64	3.35	2.79	3.26	
22	2.20	2.25	2.66	2.91	2.77	2.36	3.75	3.94	3.60	3.32	2.74	3.51	
23	2.17	2.40	2.62	2.95	2.76	2.42	3.73	3.94	3.80	3.30	2.71	3.66	
24	2.14	2.53	2.62	2.96	2.75	2.55	3.71	3.92	3.97	3.24	2.69	3.71	
25	2.13	2.57	2.65	2.94	2.69	2.48	3.68	3.90	4.01	3.20	2.69	3.71	
26	2.12	2.46	2.67	2.93	2.63	2.45	3.63	3.88	4.02	3.15	2.69	3.68	
27	2.12	2.35	2.68	2.91	2.57	2.48	3.56	3.86	4.02	3.09	2.68	3.61	
28	2.18	2.30	2.67	3.24	2.53	2.50	3.51	3.85	4.01	3.06	2.65	3.50	
29	2.15	2.28	2.68	3.26	2.50	2.50	3.46	3.82	4.00	3.20		3.39	
30	2.13	2.25	2.69	3.18	2.48	2.55	3.45	3.80	4.00	3.41		3.29	
31		2.29		3.29	2.45		3.63		4.00	3.43		3.27	
Mean	2.27	2.28	2.56	2.78	2.82	2.43	3.44	3.79	3.87	3.44	3.11	2.92	
Max	2.53	2.57	3.01	3.29	3.23	2.65	3.75	4.02	4.02	3.95	3.71	3.71	4.02
Min	2.12	2.10	2.19	2.45	2.45	2.20	2.64	3.43	3.60	3.06	2.65	2.44	2.10

Annual Max Momentary Gage Height — 4.04 M (MSL), at 18.00 Hours, on Dec 25, 1992

Zero Gage at Bottom Elevation — 2.10 M (MSL), River Bed — 2.14 M (MSL)

Left Bank Elevation — 4.12 M (MSL)

Right Bank Elevation — 3.01 M (MSL), Drainage Area — Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	0.18	0.28	0.95	1.98	0.42	0.79	2.97	3.58	4.50	2.47	0.70	
2	0.24	0.20	0.21	1.27	1.71	0.41	0.93	2.72	3.50	4.29	2.88	0.56	
3	0.21	0.21	0.18	1.33	1.48	0.49	0.95	2.55	3.39	3.95	3.25	0.61	
4	0.15	0.15	0.17	1.17	1.27	0.53	1.14	2.47	3.32	3.80	3.32	0.64	
5	0.46	0.08	0.17	1.00	1.12	0.50	1.33	2.55	3.22	3.61	3.19	0.59	
6	0.49	0.04	0.15	0.86	0.98	0.46	1.54	2.63	3.16	3.43	3.00	0.53	
7	0.45	0.03	0.15	0.79	0.93	0.66	1.82	2.69	3.25	3.06	2.58	0.50	
8	0.50	0.03	0.14	0.74	0.93	0.77	2.63	2.63	3.35	2.88	2.42	0.53	
9	0.61	0.00	0.13	0.69	0.84	0.81	2.69	2.88	3.90	2.66	2.24	0.52	
10	0.55	0.03	0.29	0.61	1.65	0.69	2.78	3.32	4.64	2.55	2.12	0.50	
11	0.45	0.04	0.53	0.55	1.61	0.55	2.78	3.39	4.95	2.42	1.98	0.49	
12	0.35	0.22	0.79	0.49	1.46	0.49	2.75	3.80	5.04	2.24	1.87	0.48	
13	0.29	0.29	0.97	0.49	1.48	0.42	2.66	4.57	4.95	2.24	1.78	0.69	
14	0.27	0.36	1.25	0.53	1.38	0.35	2.66	4.64	4.95	2.39	1.65	0.81	
15	0.21	0.38	1.50	0.66	1.27	0.28	3.03	4.85	4.71	2.53	1.52	0.81	
16	0.17	0.35	1.42	0.66	1.17	0.21	3.13	5.04	4.50	2.44	1.44	0.95	
17	0.18	0.34	1.25	0.56	1.21	0.17	3.13	5.04	4.05	2.34	1.38	1.00	
18	0.18	0.29	1.19	0.58	1.33	0.14	3.00	4.95	3.80	2.26	1.27	0.97	
19	0.20	0.28	1.04	0.62	1.31	0.24	3.32	4.85	3.61	2.19	1.17	1.08	
20	0.21	0.21	0.93	1.00	1.21	0.28	3.47	4.78	3.35	2.24	1.12	1.52	
21	0.15	0.21	0.86	1.44	1.12	0.39	3.47	4.50	3.09	2.26	1.06	2.05	
22	0.14	0.21	0.82	1.29	1.02	0.36	3.47	4.43	2.97	2.19	0.97	2.69	
23	0.10	0.42	0.75	1.38	1.00	0.45	3.39	4.43	3.65	2.14	0.91	3.16	
24	0.06	0.61	0.75	1.40	0.98	0.64	3.32	4.29	4.64	2.00	0.87	3.32	
25	0.04	0.67	0.81	1.35	0.87	0.53	3.22	4.15	4.95	1.91	0.87	3.32	
26	0.03	0.50	0.84	1.33	0.77	0.49	3.06	4.05	5.04	1.80	0.87	3.22	
27	0.03	0.35	0.86	1.29	0.67	0.53	2.85	3.95	5.04	1.67	0.86	3.00	
28	0.11	0.28	0.84	2.00	0.61	0.56	2.69	3.90	4.95	1.61	0.81	2.66	
29	0.07	0.25	0.86	2.05	0.56	0.56	2.55	3.75	4.85	1.91		2.37	
30	0.04	0.21	0.87	1.87	0.53	0.64	2.53	3.65	4.85	2.42		2.12	
31		0.27		2.12	0.49		3.06		4.85	2.47		2.07	
Total	7.19	7.69	21.00	33.07	34.94	14.02	80.14	114.42	128.10	80.40	49.87	44.46	615.30 CMSDAY
Mean	0.24	0.25	0.70	1.07	1.13	0.47	2.59	3.81	4.13	2.59	1.78	1.43	1.69 CMS
Max	0.61	0.67	1.50	2.12	1.98	0.81	3.47	5.04	5.04	4.50	3.32	3.32	5.04 CMS
Min	0.03	0.00	0.13	0.49	0.49	0.14	0.79	2.47	2.97	1.61	0.81	0.48	0.00 CMS
Runoff	0.621	0.664	1.814	2.857	3.019	1.211	6.924	9.886	11.068	6.947	4.309	3.841	53.162 MCM

Momentary Peak 5.23 CMS, at 4.04 M (MSL), at 18.00 Hours, on Dec 25, 1992
Runoff Yield ********* Liters/Second/Square KM, Momentary Peak Yield ********* Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Chandi at Ban Chandi Nua, Nakhon Si Thammarat (X.163)

Location — Lat. 8°-20'-34" N., Long. 99°-37'-12" E., on left bank at the bridge on road near Wat Manao Wan, Amphoe Chawang, Nakhon Si Thammarat.

Drainage Area — 97 sq.k.m.

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

Location — On left bank about 5.80 meters from the top staff gage.

Elevation — +6.007 m.(A.D.)

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

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

Period of Available Gage Records — 1986 to date.

Rating Operation

Period of Rating — 1987 to date.

Rated by Float — -

Rated by Current Meter — 1987 to date.

Stability of Channel Regimes — Fairly stable.

Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 30 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

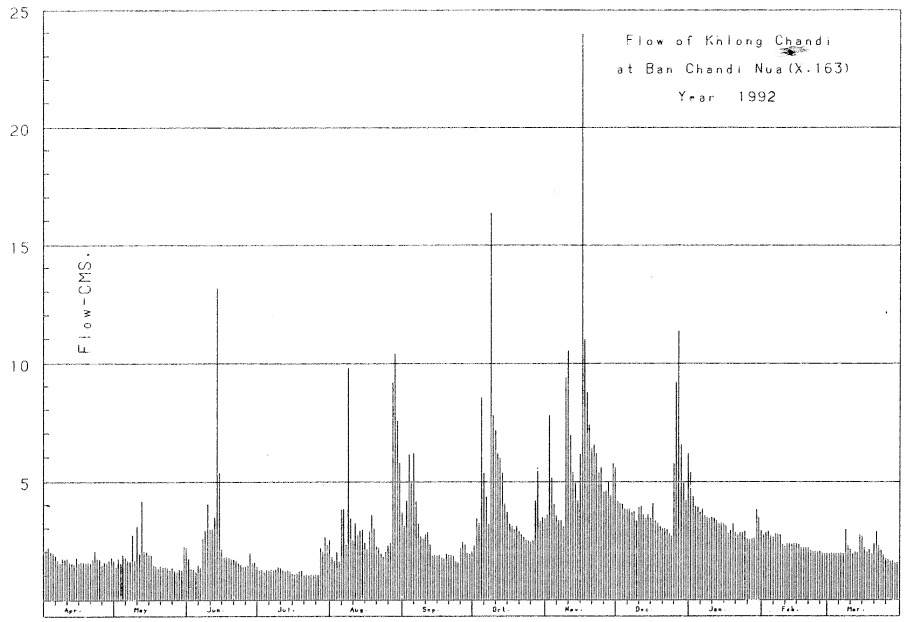
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	0.40	0.44	0.38	0.45	0.61	0.51	0.65	0.70	0.76	0.57	0.47	
2	0.50	0.44	0.39	0.38	0.43	0.70	0.64	0.88	0.69	0.71	0.58	0.47	
3	0.48	0.42	0.38	0.37	0.48	0.80	0.62	0.75	0.69	0.68	0.59	0.47	
4	0.47	0.46	0.37	0.38	0.43	0.74	0.92	0.69	0.67	0.68	0.56	0.47	
5	0.46	0.45	0.41	0.38	0.67	0.80	0.76	0.65	0.67	0.66	0.56	0.47	
6	0.43	0.43	0.39	0.38	0.67	0.70	0.71	0.63	0.67	0.67	0.58	0.47	
7	0.42	0.43	0.55	0.38	0.52	0.62	0.62	0.63	0.66	0.65	0.57	0.47	
8	0.44	0.57	0.59	0.38	0.98	0.56	1.31	0.61	0.66	0.64	0.57	0.60	
9	0.44	0.43	0.69	0.40	0.64	0.55	0.88	0.96	0.63	0.64	0.52	0.51	
10	0.44	0.61	0.60	0.39	0.54	0.57	0.85	1.02	0.68	0.64	0.51	0.49	
11	0.42	0.47	0.60	0.38	0.62	0.58	0.80	0.84	0.68	0.64	0.52	0.47	
12	0.42	0.70	0.64	0.37	0.57	0.52	0.79	0.76	0.65	0.63	0.52	0.48	
13	0.41	0.48	1.15	0.38	0.59	0.46	0.76	0.74	0.64	0.62	0.52	0.47	
14	0.45	0.48	0.76	0.37	0.60	0.46	0.69	0.70	0.65	0.62	0.52	0.57	
15	0.42	0.46	0.49	0.36	0.53	0.46	0.66	0.80	0.64	0.62	0.52	0.56	
16	0.42	0.46	0.45	0.35	0.49	0.46	0.62	1.64	0.69	0.61	0.52	0.50	
17	0.42	0.41	0.45	0.36	0.59	0.45	0.61	1.04	0.63	0.58	0.50	0.48	
18	0.42	0.40	0.45	0.37	0.65	0.44	0.60	0.93	0.62	0.59	0.50	0.49	
19	0.42	0.39	0.44	0.38	0.60	0.47	0.61	0.86	0.61	0.62	0.50	0.47	
20	0.42	0.40	0.44	0.35	0.51	0.46	0.59	0.81	0.60	0.58	0.50	0.52	
21	0.44	0.40	0.43	0.35	0.50	0.46	0.57	0.82	0.60	0.57	0.49	0.59	
22	0.48	0.40	0.42	0.35	0.47	0.46	0.56	0.80	0.60	0.58	0.48	0.51	
23	0.44	0.39	0.41	0.35	0.45	0.43	0.54	0.76	0.58	0.58	0.48	0.49	
24	0.44	0.38	0.40	0.35	0.48	0.42	0.54	0.77	0.56	0.59	0.48	0.46	
25	0.41	0.39	0.40	0.35	0.51	0.50	0.53	0.72	0.78	0.55	0.48	0.44	
26	0.42	0.37	0.41	0.35	0.53	0.53	0.54	0.72	0.95	0.54	0.47	0.44	
27	0.42	0.37	0.47	0.50	0.95	0.52	0.70	0.74	1.06	0.55	0.47	0.43	
28	0.43	0.38	0.42	0.48	1.01	0.47	0.77	0.71	0.82	0.55	0.47	0.43	
29	0.45	0.38	0.42	0.56	0.87	0.47	0.63	0.78	0.74	0.67		0.42	
30	0.43	0.51	0.40	0.52	0.78	0.48	0.64	0.77	0.70	0.64		0.42	
31		0.50		0.54	0.66		0.64		0.80	0.59		0.49	
Mean	0.44	0.44	0.50	0.39	0.61	0.54	0.68	0.81	0.69	0.62	0.52	0.48	
Max	0.50	0.70	1.15	0.56	1.01	0.80	1.31	1.64	1.06	0.76	0.59	0.60	1.64
Min	0.41	0.37	0.37	0.35	0.43	0.42	0.51	0.61	0.56	0.54	0.47	0.42	0.35

Annual Max Momentary Gage Height — 2.00 M (A.D), at 6.00 Hours, on Oct 8, 1992

Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed -0.13 M (A.D)

Left Bank Elevation — 5.23 M (A.D)

Right Bank Elevation — 5.21 M (A.D), Drainage Area 97 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.12	1.40	1.72	1.26	1.80	3.12	2.28	3.60	4.20	5.40	2.76	1.96	
2	2.20	1.72	1.33	1.26	1.64	4.20	3.48	7.80	4.08	4.40	2.84	1.96	
3	2.04	1.56	1.26	1.19	2.04	6.20	3.24	5.20	4.08	3.96	2.92	1.96	
4	1.96	1.88	1.19	1.26	1.64	5.00	8.60	4.08	3.84	3.96	2.68	1.96	
5	1.88	1.80	1.48	1.26	3.84	6.20	5.40	3.60	3.84	3.72	2.68	1.96	
6	1.64	1.64	1.33	1.26	3.84	4.20	4.40	3.36	3.84	3.84	2.84	1.96	
7	1.56	1.64	2.60	1.26	2.36	3.24	3.24	3.36	3.72	3.60	2.76	1.96	
8	1.72	2.76	2.92	1.26	9.80	2.68	16.40	3.12	3.72	3.48	2.76	3.00	
9	1.72	1.64	4.08	1.40	3.48	2.60	7.80	9.40	3.36	3.48	2.36	2.28	
10	1.72	3.12	3.00	1.33	2.52	2.76	7.20	10.60	3.96	3.48	2.28	2.12	
11	1.56	1.96	3.00	1.26	3.24	2.84	6.20	7.00	3.96	3.48	2.36	1.96	
12	1.56	4.20	3.48	1.19	2.76	2.36	6.00	5.40	3.60	3.36	2.36	2.04	
13	1.48	2.04	13.20	1.26	2.92	1.88	5.40	5.00	3.48	3.24	2.36	1.96	
14	1.80	2.04	5.40	1.19	3.00	1.88	4.08	4.20	3.60	3.24	2.36	2.76	
15	1.56	1.88	2.12	1.12	2.44	1.88	3.72	6.20	3.48	3.24	2.36	2.68	
16	1.56	1.88	1.80	1.05	2.12	1.88	3.24	24.00	4.08	3.12	2.36	2.20	
17	1.56	1.48	1.80	1.12	2.92	1.80	3.12	11.00	3.36	2.84	2.20	2.04	
18	1.56	1.40	1.80	1.19	3.60	1.72	3.00	8.80	3.24	2.92	2.20	2.12	
19	1.56	1.33	1.72	1.26	3.00	1.96	3.12	7.40	3.12	3.24	2.20	1.96	
20	1.56	1.40	1.72	1.05	2.28	1.88	2.92	6.40	3.00	2.84	2.20	2.36	
21	1.72	1.40	1.64	1.05	2.20	1.88	2.76	6.60	3.00	2.76	2.12	2.92	
22	2.04	1.40	1.56	1.05	1.96	1.88	2.68	6.20	3.00	2.84	2.04	2.28	
23	1.72	1.33	1.48	1.05	1.80	1.64	2.52	5.40	2.84	2.84	2.04	2.12	
24	1.72	1.26	1.40	1.05	2.04	1.56	2.52	5.60	2.68	2.92	2.04	1.88	
25	1.48	1.33	1.40	1.05	2.28	2.20	2.44	4.60	5.80	2.60	2.04	1.72	
26	1.56	1.19	1.48	1.05	2.44	2.44	2.52	4.60	9.20	2.52	1.96	1.72	
27	1.56	1.19	1.96	2.20	9.20	2.36	4.20	5.00	11.40	2.60	1.96	1.64	
28	1.64	1.26	1.56	2.04	10.40	1.96	5.60	4.40	6.60	2.60	1.96	1.64	
29	1.80	1.26	1.56	2.68	7.60	1.96	3.36	5.80	5.00	3.84		1.56	
30	1.64	2.28	1.40	2.36	5.80	2.04	3.48	5.60	4.20	3.48		1.56	
31		2.20		2.52	3.72		3.48		6.20	2.92		2.12	
Total	51.20	54.87	72.39	42.53	110.68	80.20	138.40	193.32	133.48	102.76	66.00	64.36	1110.19 CMSDAY
Mean	1.71	1.77	2.41	1.37	3.57	2.67	4.46	6.44	4.31	3.31	2.36	2.08	3.04 CMS
Max	2.20	4.20	13.20	2.68	10.40	6.20	16.40	24.00	11.40	5.40	2.92	3.00	24.00 CMS
Min	1.48	1.19	1.19	1.05	1.64	1.56	2.28	3.12	2.68	2.52	1.96	1.56	1.05 CMS
Runoff	4.424	4.741	6.254	3.675	9.563	6.929	11.958	16.703	11.533	8.878	5.702	5.561	95.920 MCM

Momentary Peak 35.50 CMS, at 2.00 M (A.D), at 6.00 Hours, on Oct 8, 1992
Runoff Yield 31.36 Liters/Second/Square KM, Momentary Peak Yield 365.98 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENNINSULA EAST COAST

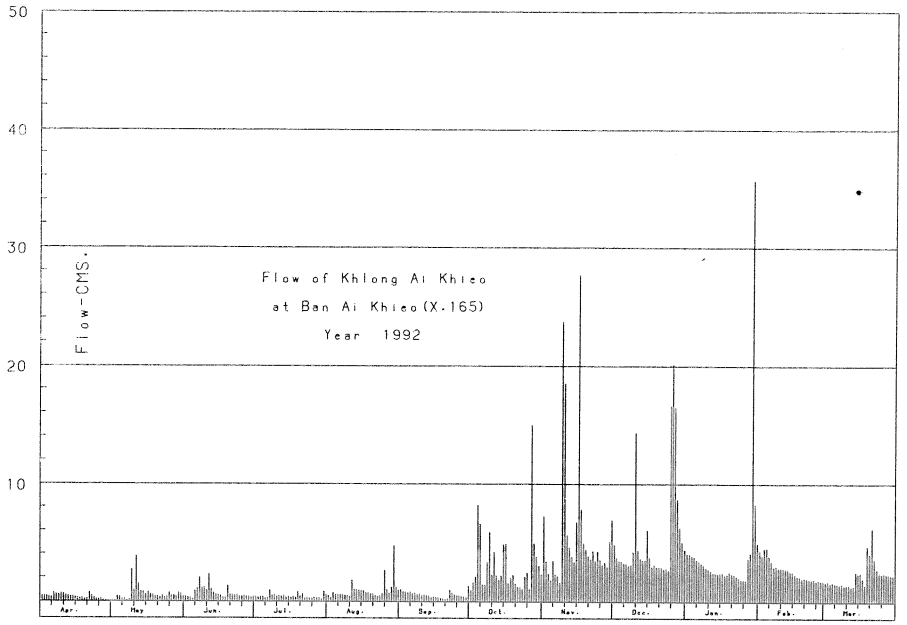
Khlong Ai Khieo at Ban Ai Khieo, Nakhon Si Thammarat (X.165)

Location	Lat. 08-33-47 N., Long. 99-48-59 E., on right bank at Ban Ai Khieo, Amphoe Phrom Khiri, Nakhon Si Thammarat.
Drainage Area	25 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 9 meters from the top staff gage.
Elevation	+9.738 m.(A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1986 to date.
Rating Operation	
Period of Rating	1989 to date.
Rated by Float	-
Rated by Current Meter	1989 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.76	0.72	0.75	0.75	0.76	0.82	0.82	1.39	1.21	1.13	1.15	0.89	
2	0.76	0.71	0.75	0.75	0.75	0.81	0.88	1.06	1.09	1.12	1.11	0.89	
3	0.76	0.76	0.74	0.75	0.79	0.80	0.93	0.96	1.07	1.11	1.17	0.88	
4	0.75	0.75	0.73	0.75	0.78	0.80	1.45	0.90	1.06	1.10	1.18	0.88	
5	0.75	0.73	0.81	0.74	0.77	0.80	1.35	1.07	1.05	1.08	1.11	0.88	
6	0.79	0.73	0.83	0.74	0.78	0.79	0.87	0.95	1.04	1.06	1.06	0.87	
7	0.78	0.72	0.93	0.82	0.77	0.79	0.86	0.94	1.03	1.05	1.02	0.87	
8	0.77	0.72	0.84	0.77	0.77	0.78	1.06	0.88	1.03	1.03	1.02	0.87	
9	0.79	0.99	0.84	0.77	0.76	0.78	1.31	2.23	1.14	1.01	1.01	0.86	
10	0.78	0.82	0.82	0.76	0.76	0.77	0.95	2.00	1.78	1.00	1.01	0.86	
11	0.77	1.11	0.95	0.76	0.90	0.77	1.14	1.29	1.16	0.98	1.00	0.86	
12	0.76	0.87	0.83	0.76	0.83	0.77	0.94	1.18	1.09	0.97	1.00	0.85	
13	0.76	0.81	0.79	0.76	0.82	0.76	0.91	1.10	1.07	0.96	0.99	0.85	
14	0.75	0.80	0.78	0.75	0.82	0.75	0.94	1.06	1.07	0.96	0.98	0.97	
15	0.75	0.78	0.77	0.75	0.81	0.75	1.21	1.36	1.32	0.96	0.97	0.96	
16	0.74	0.80	0.76	0.75	0.81	0.75	1.21	2.39	1.10	0.96	0.95	0.96	
17	0.74	0.78	0.75	0.75	0.80	0.74	0.88	1.43	1.02	0.95	0.94	0.92	
18	0.74	0.77	0.74	0.75	0.79	0.74	0.92	1.22	1.03	0.95	0.93	0.86	
19	0.73	0.76	0.86	0.80	0.79	0.73	0.95	1.16	1.02	0.97	0.92	1.19	
20	0.73	0.75	0.78	0.76	0.78	0.73	0.87	1.11	1.01	0.96	0.92	1.13	
21	0.80	0.75	0.77	0.78	0.77	0.73	0.85	1.08	1.01	0.95	0.92	1.33	
22	0.76	0.76	0.77	0.74	0.76	0.82	0.84	1.15	1.00	0.94	0.91	1.08	
23	0.75	0.75	0.77	0.74	0.76	0.79	0.83	1.07	1.00	0.92	0.91	1.00	
24	0.74	0.75	0.76	0.74	0.79	0.78	0.93	1.15	0.99	0.91	0.91	0.97	
25	0.73	0.80	0.76	0.74	0.99	0.77	0.97	1.08	1.90	0.91	0.90	0.96	
26	0.73	0.76	0.76	0.74	0.82	0.76	0.83	1.03	2.07	0.90	0.90	0.96	
27	0.72	0.77	0.76	0.74	0.79	0.76	1.81	1.05	1.89	1.09	0.90	0.96	
28	0.71	0.75	0.75	0.74	0.84	0.75	1.22	1.02	1.48	1.13	0.89	0.95	
29	0.71	0.80	0.75	0.73	1.20	0.75	1.10	1.23	1.33	2.71		0.95	
30	0.71	0.78	0.75	0.81	0.84	0.85	1.03	1.37	1.23	1.45		0.94	
31		0.76		0.77	0.82		0.95		1.16	1.22		0.93	
Mean	0.75	0.78	0.79	0.76	0.81	0.77	1.03	1.23	1.21	1.08	0.99	0.95	
Max	0.80	1.11	0.95	0.82	1.20	0.85	1.81	2.39	2.07	2.71	1.18	1.33	2.71
Min	0.71	0.71	0.73	0.73	0.75	0.73	0.82	0.88	0.99	0.90	0.89	0.85	0.71

Annual Max Momentary Gage Height 4.37 M (A.D), at 15.00 Hours, on Nov 9, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.69 M (A.D)
Left Bank Elevation 9.52 M (A.D)
Right Bank Elevation 10.43 M (A.D), Drainage Area 25 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.48	0.16	0.40	0.40	0.48	1.00	1.00	7.24	4.90	4.10	4.30	1.70	
2	0.48	0.08	0.40	0.40	0.40	0.90	1.60	3.40	3.70	4.00	3.90	1.70	
3	0.48	0.48	0.32	0.40	0.72	0.80	2.10	2.40	3.50	3.90	4.50	1.60	
4	0.40	0.40	0.24	0.40	0.64	0.80	8.25	1.80	3.40	3.80	4.60	1.60	
5	0.40	0.24	0.90	0.32	0.56	0.80	6.60	3.50	3.30	3.60	3.90	1.60	
6	0.72	0.24	1.10	0.32	0.64	0.72	1.50	2.30	3.20	3.40	3.40	1.50	
7	0.64	0.16	2.10	1.00	0.56	0.72	1.40	2.20	3.10	3.30	3.00	1.50	
8	0.56	0.16	1.20	0.56	0.56	0.64	3.40	1.60	3.10	3.10	3.00	1.50	
9	0.72	2.70	1.20	0.56	0.48	0.64	5.96	23.75	4.20	2.90	2.90	1.40	
10	0.64	1.00	1.00	0.48	0.48	0.56	2.30	18.60	14.42	2.80	2.90	1.40	
11	0.56	3.90	2.30	0.48	1.80	0.56	4.20	5.70	4.40	2.60	2.80	1.40	
12	0.48	1.50	1.10	0.48	1.10	0.56	2.20	4.60	3.70	2.50	2.80	1.30	
13	0.48	0.90	0.72	0.48	1.00	0.48	1.90	3.80	3.50	2.40	2.70	1.30	
14	0.40	0.80	0.64	0.40	1.00	0.40	2.20	3.40	3.50	2.40	2.60	2.50	
15	0.40	0.64	0.56	0.40	0.90	0.40	4.90	6.76	6.12	2.40	2.50	2.40	
16	0.32	0.80	0.48	0.40	0.90	0.40	4.90	27.75	3.80	2.40	2.30	2.40	
17	0.32	0.64	0.40	0.40	0.80	0.32	1.60	7.91	3.00	2.30	2.20	2.00	
18	0.32	0.56	0.32	0.40	0.72	0.32	2.00	5.00	3.10	2.30	2.10	1.40	
19	0.24	0.48	1.40	0.80	0.72	0.24	2.30	4.40	3.00	2.50	2.00	4.70	
20	0.24	0.40	0.64	0.48	0.64	0.24	1.50	3.90	2.90	2.40	2.00	4.10	
21	0.80	0.40	0.56	0.64	0.56	0.24	1.30	3.60	2.90	2.30	2.00	6.28	
22	0.48	0.48	0.56	0.32	0.48	1.00	1.20	4.30	2.80	2.20	1.90	3.60	
23	0.40	0.40	0.56	0.32	0.48	0.72	1.10	3.50	2.80	2.00	1.90	2.80	
24	0.32	0.40	0.48	0.32	0.72	0.64	2.10	4.30	2.70	1.90	1.90	2.50	
25	0.24	0.80	0.48	0.32	2.70	0.56	2.50	3.60	16.70	1.90	1.80	2.40	
26	0.24	0.48	0.48	0.32	1.00	0.48	1.10	3.10	20.14	1.80	1.80	2.40	
27	0.16	0.56	0.48	0.32	0.72	0.48	14.99	3.30	16.51	3.70	1.80	2.40	
28	0.08	0.40	0.40	0.32	1.20	0.40	5.00	3.00	8.76	4.10	1.70	2.30	
29	0.08	0.80	0.40	0.24	4.80	0.40	3.80	5.10	6.28	35.75		2.30	
30	0.08	0.64	0.40	0.90	1.20	1.30	3.10	6.92	5.10	8.25		2.20	
31		0.48		0.56	1.00		2.30		4.40	5.00		2.10	
Total	12.16	22.08	22.22	14.14	29.96	17.72	100.30	180.73	172.93	128.00	75.20	70.28	845.72 CMSDAY
Mean	0.41	0.71	0.74	0.46	0.97	0.59	3.24	6.02	5.58	4.13	2.69	2.27	2.32 CMS
Max	0.80	3.90	2.30	1.00	4.80	1.30	14.99	27.75	20.14	35.75	4.60	6.28	35.75 CMS
Min	0.08	0.08	0.24	0.24	0.40	0.24	1.00	1.60	2.70	1.80	1.70	1.30	0.08 CMS
Runoff	1.051	1.908	1.920	1.222	2.589	1.531	8.666	15.615	14.941	11.059	6.497	6.072	73.070 MCM

Momentary Peak 86.18 CMS, at 4.37 M (A.D), at 15.00 Hours, on Nov 9, 1992

Runoff Yield 92.68 Liters/Second/Square KM, Momentary Peak Yield 3447.20 Liters/Second/Square KM

WATER YEAR 1992

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 on road, 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.

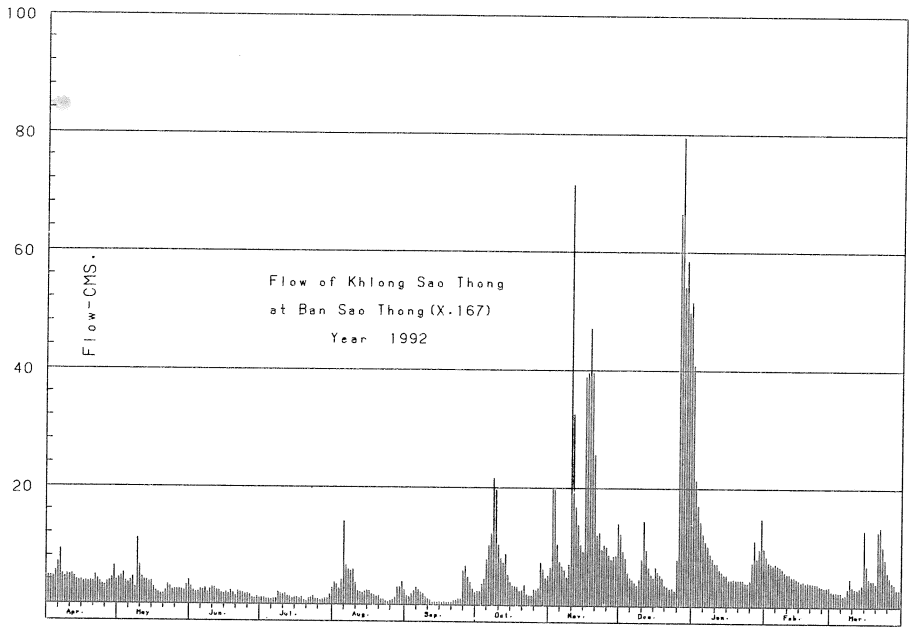
Overbank Flow Conditions — No overbank flow.

General Description — Records fair. Stage-discharge relation defined by 17 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.63	0.53	0.36	0.59	0.40	0.48	0.74	1.02	2.15	0.84	0.50	
2	0.64	0.64	0.49	0.37	0.56	0.39	0.49	1.38	0.88	1.43	0.80	0.50	
3	0.64	0.68	0.45	0.34	0.52	0.43	0.57	1.36	0.83	1.25	0.78	0.49	
4	0.69	0.59	0.47	0.35	0.61	0.50	0.63	0.94	0.69	1.12	0.77	0.49	
5	0.78	0.58	0.51	0.34	1.12	0.53	0.81	0.80	0.65	1.03	0.78	0.48	
6	0.89	0.60	0.49	0.34	0.75	0.51	0.93	0.75	0.62	0.96	0.77	0.44	
7	0.66	0.64	0.52	0.36	0.72	0.46	1.02	0.72	0.60	0.93	0.75	0.44	
8	0.64	0.52	0.45	0.46	0.70	0.45	1.44	0.65	0.56	0.86	0.74	0.54	
9	0.66	0.98	0.50	0.43	0.72	0.38	1.36	0.77	0.63	0.83	0.70	0.64	
10	0.66	0.75	0.53	0.43	0.58	0.36	0.93	3.06	0.82	0.79	0.69	0.56	
11	0.66	0.64	0.52	0.43	0.49	0.33	0.82	1.86	1.13	0.78	0.68	0.53	
12	0.64	0.61	0.50	0.40	0.46	0.30	0.79	1.23	0.89	0.73	0.66	0.53	
13	0.60	0.60	0.48	0.38	0.46	0.30	0.86	1.10	0.74	0.70	0.65	0.54	
14	0.60	0.59	0.45	0.36	0.47	0.30	0.67	0.93	0.68	0.68	0.64	0.58	
15	0.60	0.59	0.44	0.37	0.50	0.30	0.60	0.88	0.64	0.67	0.62	1.06	
16	0.59	0.52	0.45	0.37	0.48	0.30	0.55	2.08	0.75	0.62	0.61	0.77	
17	0.59	0.48	0.44	0.36	0.44	0.30	0.55	2.10	0.70	0.63	0.61	0.64	
18	0.59	0.44	0.48	0.37	0.41	0.30	0.54	2.35	0.67	0.63	0.60	0.63	
19	0.59	0.43	0.45	0.33	0.40	0.29	0.50	2.10	0.65	0.63	0.60	0.62	
20	0.59	0.42	0.39	0.30	0.40	0.30	0.50	1.61	0.57	0.62	0.60	0.59	
21	0.65	0.49	0.47	0.35	0.35	0.32	0.56	1.01	0.55	0.63	0.59	1.05	
22	0.62	0.56	0.46	0.37	0.34	0.34	0.44	1.03	0.53	0.62	0.59	1.08	
23	0.58	0.53	0.44	0.39	0.32	0.35	0.41	0.90	0.53	0.60	0.58	0.93	
24	0.56	0.50	0.43	0.35	0.29	0.36	0.42	0.93	0.51	0.59	0.57	0.82	
25	0.54	0.50	0.43	0.34	0.33	0.71	0.51	0.92	0.82	0.62	0.56	0.71	
26	0.58	0.50	0.42	0.33	0.33	0.75	0.50	0.85	2.92	0.79	0.54	0.65	
27	0.60	0.51	0.37	0.34	0.38	0.65	0.53	0.82	3.27	0.97	0.55	0.61	
28	0.63	0.49	0.35	0.35	0.53	0.59	0.79	0.84	2.56	0.83	0.55	0.58	
29	0.74	0.49	0.39	0.36	0.54	0.52	0.72	0.85	2.69	0.90		0.53	
30	0.60	0.55	0.35	0.42	0.60	0.46	0.64	1.11	2.43	1.15		0.52	
31		0.61		0.52	0.50		0.66		2.48	0.91		0.53	
Mean	0.64	0.57	0.46	0.37	0.51	0.42	0.68	1.22	1.10	0.86	0.66	0.63	
Max	0.89	0.98	0.53	0.52	1.12	0.75	1.44	3.06	3.27	2.15	0.84	1.08	3.27
Min	0.54	0.42	0.35	0.30	0.29	0.29	0.41	0.65	0.51	0.59	0.54	0.44	0.29

Annual Max Momentary Gage Height — 3.28 M (A.D), at 15.00 Hours, on Dec 27, 1992
Zero Gage at Bottom Elevation — 0.00 M (A.D), River Bed — -0.99 M (A.D)
Left Bank Elevation — 6.49 M (A.D)
Right Bank Elevation — 6.13 M (A.D), Drainage Area — 268 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.85	4.51	2.95	1.10	3.85	1.50	2.30	6.42	12.12	41.00	8.34	2.50	
2	4.68	4.68	2.40	1.20	3.40	1.40	2.40	20.14	9.18	21.32	7.50	2.50	
3	4.68	5.36	2.00	0.90	2.80	1.80	3.55	19.68	8.13	17.15	7.14	2.40	
4	5.53	3.85	2.20	1.00	4.17	2.50	4.51	10.44	5.53	14.24	6.96	2.40	
5	7.14	3.70	2.65	0.90	14.24	2.95	7.71	7.50	4.85	12.33	7.14	2.30	
6	9.39	4.00	2.40	0.90	6.60	2.65	10.23	6.60	4.34	10.86	6.96	1.90	
7	5.02	4.68	2.80	1.10	6.06	2.10	12.12	6.06	4.00	10.23	6.60	1.90	
8	4.68	2.80	2.00	2.10	5.70	2.00	21.56	4.85	3.40	8.76	6.42	3.10	
9	5.02	11.28	2.50	1.80	6.06	1.30	19.68	6.96	4.51	8.13	5.70	4.68	
10	5.02	6.60	2.95	1.80	3.70	1.10	10.23	71.46	7.92	7.32	5.53	3.40	
11	5.02	4.68	2.80	1.80	2.40	0.80	7.92	32.48	14.46	7.14	5.36	2.95	
12	4.68	4.17	2.50	1.50	2.10	0.50	7.32	16.69	9.39	6.24	5.02	2.95	
13	4.00	4.00	2.30	1.30	2.10	0.50	8.76	13.80	6.42	5.70	4.85	3.10	
14	4.00	3.85	2.00	1.10	2.20	0.50	5.19	10.23	5.36	5.36	4.68	3.70	
15	4.00	3.85	1.90	1.20	2.50	0.50	4.00	9.18	4.68	5.19	4.34	12.96	
16	3.85	2.80	2.00	1.20	2.30	0.50	3.25	38.90	6.60	4.34	4.17	6.96	
17	3.85	2.30	1.90	1.10	1.90	0.50	3.25	39.50	5.70	4.51	4.17	4.68	
18	3.85	1.90	2.30	1.20	1.60	0.50	3.10	47.20	5.19	4.51	4.00	4.51	
19	3.85	1.80	2.00	0.80	1.50	0.45	2.50	39.50	4.85	4.51	4.00	4.34	
20	3.85	1.70	1.40	0.50	1.50	0.50	2.50	25.76	3.55	4.34	4.00	3.85	
21	4.85	2.40	2.20	1.00	1.00	0.70	3.40	11.91	3.25	4.51	3.85	12.75	
22	4.34	3.40	2.10	1.20	0.90	0.90	1.90	12.33	2.95	4.34	3.85	13.38	
23	3.70	2.95	1.90	1.40	0.70	1.00	1.60	9.60	2.95	4.00	3.70	10.23	
24	3.40	2.50	1.80	1.00	0.45	1.10	1.70	10.23	2.65	3.85	3.55	7.92	
25	3.10	2.50	1.80	0.90	0.80	5.88	2.65	10.02	7.92	4.34	3.40	5.88	
26	3.70	2.50	1.70	0.80	0.80	6.60	2.50	8.55	66.50	7.32	3.10	4.85	
27	4.00	2.65	1.20	0.90	1.30	4.85	2.95	7.92	79.54	11.07	3.25	4.17	
28	4.51	2.40	1.00	1.00	2.95	3.85	7.32	8.34	54.24	8.13	3.25	3.70	
29	6.42	2.40	1.40	1.10	3.10	2.80	6.06	8.55	58.66	9.60		2.95	
30	4.00	3.25	1.00	1.70	4.00	2.10	4.68	14.02	49.82	14.90		2.80	
31		4.17		2.80	2.50		5.02		51.52	9.81		2.95	
Total	138.98	113.63	62.05	38.30	95.18	54.33	181.86	534.82	510.18	285.05	140.83	148.66	2303.87 CMSDAY
Mean	4.63	3.67	2.07	1.24	3.07	1.81	5.87	17.83	16.46	9.20	5.03	4.80	6.31 CMS
Max	9.39	11.28	2.95	2.80	14.24	6.60	21.56	71.46	79.54	41.00	8.34	13.38	79.54 CMS
Min	3.10	1.70	1.00	0.50	0.45	0.45	1.60	4.85	2.65	3.85	3.10	1.90	0.45 CMS
Runoff	12.008	9.818	5.361	3.309	8.224	4.694	15.713	46.208	44.080	24.628	12.168	12.844	199.054 MCM

Momentary Peak 79.96 CMS, at 3.28 M (A.D), at 15.00 Hours, on Dec 27, 1992

Runoff Yield 23.55 Liters/Second/Square KM, Momentary Peak Yield 298.36 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

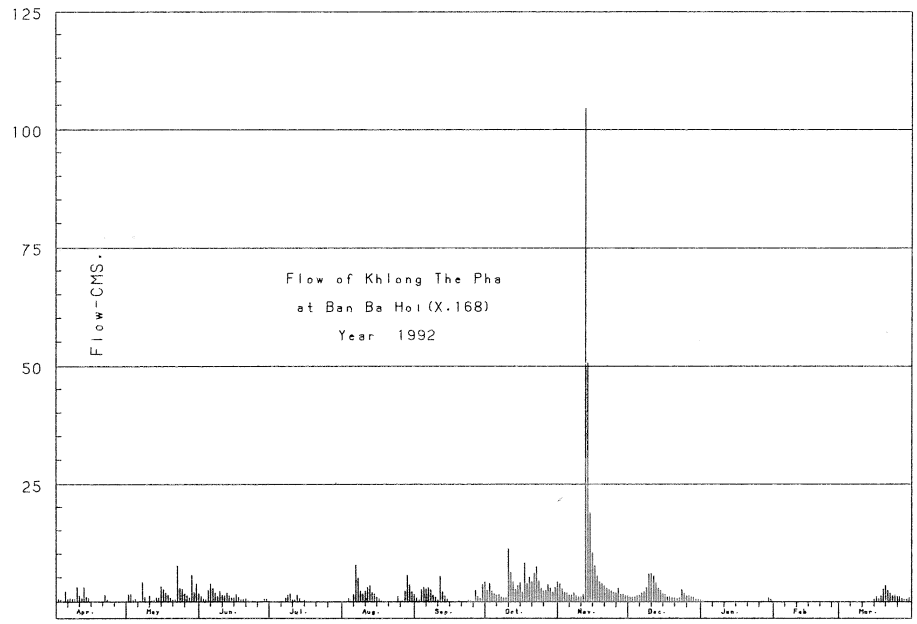
Khlong The Pha at Ban Ba Hoi, Yala (X.168)

Location	Lat. 6°-25'-40" N., Long. 100°-55'-41" E., on right bank at the bridge on road near Wat Bahoi, Tambon Bahoi, Amphoe Yaha, Yala.
Drainage Area	315 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.38 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	5-time daily readings at 06.00, 09.00, 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 65 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	0.71	0.67	0.59	0.53	0.65	0.76	0.84	0.67	0.62	0.56	0.57	
2	0.62	0.70	0.64	0.58	0.51	0.63	0.85	0.78	0.66	0.61	0.55	0.56	
3	0.57	0.62	0.62	0.57	0.64	0.77	0.75	0.74	0.67	0.61	0.55	0.56	
4	0.75	0.63	0.77	0.57	0.63	0.81	0.72	0.72	0.68	0.60	0.55	0.56	
5	0.64	0.59	0.84	0.56	0.71	0.78	0.69	0.70	0.70	0.60	0.55	0.56	
6	0.64	0.54	0.80	0.58	1.04	0.80	0.71	0.69	0.72	0.60	0.53	0.56	
7	0.64	0.86	0.72	0.66	0.91	0.78	0.67	0.73	0.75	0.59	0.53	0.56	
8	0.63	0.66	0.68	0.69	0.75	0.70	0.65	0.68	0.80	0.58	0.52	0.56	
9	0.81	0.59	0.75	0.72	0.72	0.66	0.66	0.67	0.95	0.58	0.51	0.56	
10	0.68	0.69	0.70	0.63	0.75	0.63	1.18	0.66	0.95	0.59	0.50	0.56	
11	0.65	0.62	0.68	0.62	0.80	0.93	0.97	0.71	0.93	0.59	0.50	0.56	
12	0.80	0.62	0.73	0.70	0.83	0.75	0.86	3.11	0.85	0.58	0.50	0.56	
13	0.67	0.66	0.68	0.64	0.74	0.68	0.78	2.15	0.80	0.57	0.50	0.57	
14	0.64	0.65	0.66	0.61	0.71	0.64	0.82	1.40	0.76	0.60	0.50	0.56	
15	0.61	0.81	0.65	0.62	0.67	0.61	0.85	1.15	0.72	0.61	0.50	0.64	
16	0.59	0.78	0.70	0.59	0.64	0.59	0.74	1.03	0.70	0.60	0.49	0.67	
17	0.57	0.72	0.67	0.58	0.62	0.58	1.06	0.93	0.67	0.60	0.49	0.65	
18	0.56	0.70	0.63	0.58	0.60	0.58	0.85	0.86	0.67	0.58	0.56	0.68	
19	0.55	0.65	0.63	0.58	0.59	0.61	0.91	0.85	0.66	0.57	0.55	0.78	
20	0.58	0.62	0.65	0.54	0.59	0.60	0.86	0.82	0.65	0.56	0.54	0.83	
21	0.70	0.63	0.62	0.53	0.58	0.60	0.96	0.80	0.65	0.56	0.54	0.77	
22	0.62	1.04	0.61	0.53	0.58	0.58	1.02	0.77	0.65	0.58	0.54	0.72	
23	0.57	0.80	0.61	0.52	0.58	0.62	0.88	0.76	0.78	0.58	0.54	0.69	
24	0.56	0.78	0.60	0.52	0.67	0.62	0.80	0.73	0.72	0.57	0.55	0.70	
25	0.55	0.72	0.59	0.51	0.61	0.60	0.75	0.73	0.69	0.56	0.55	0.68	
26	0.54	0.68	0.59	0.51	0.61	0.77	0.77	0.79	0.68	0.56	0.56	0.67	
27	0.53	0.66	0.60	0.51	0.76	0.67	0.83	0.71	0.67	0.55	0.57	0.65	
28	0.53	0.94	0.64	0.60	0.94	0.65	0.79	0.70	0.66	0.55	0.57	0.63	
29	0.54	0.73	0.63	0.58	0.83	0.84	0.74	0.69	0.64	0.66		0.64	
30	0.57	0.84	0.61	0.55	0.75	0.86	0.81	0.68	0.63	0.63		0.65	
31		0.72		0.54	0.70		0.86		0.63	0.58		0.64	
Mean	0.62	0.71	0.67	0.58	0.70	0.69	0.82	0.92	0.72	0.59	0.53	0.63	
Max	0.81	1.04	0.84	0.72	1.04	0.93	1.18	3.11	0.95	0.66	0.57	0.83	3.11
Min	0.53	0.54	0.59	0.51	0.51	0.58	0.65	0.66	0.63	0.55	0.49	0.56	0.49

Annual Max Momentary Gage Height 5.47 M (A.D), at 15.00 Hours, on Nov 12, 1992
Zero Gage at Bottom Elevation 0.38 M (A.D), River Bed 0.15 M (A.D)
Left Bank Elevation 8.16 M (A.D)
Right Bank Elevation 8.33 M (A.D), Drainage Area 315 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.53	1.69	1.12	0.09	0.06	0.82	2.42	3.80	1.12	0.39	0.08	0.08	
2	0.39	1.55	0.68	0.09	0.05	0.53	4.00	2.71	0.97	0.24	0.08	0.08	
3	0.08	0.39	0.39	0.08	0.68	2.56	2.27	2.13	1.12	0.24	0.08	0.08	
4	2.27	0.53	2.56	0.08	0.53	3.20	1.84	1.84	1.26	0.10	0.08	0.08	
5	0.68	0.09	3.80	0.08	1.69	2.71	1.40	1.55	1.55	0.10	0.08	0.08	
6	0.68	0.07	3.00	0.09	7.80	3.00	1.69	1.40	1.84	0.10	0.06	0.08	
7	0.68	4.20	1.84	0.97	5.20	2.71	1.12	1.99	2.27	0.09	0.06	0.08	
8	0.53	0.97	1.26	1.40	2.27	1.55	0.82	1.26	3.00	0.09	0.06	0.08	
9	3.20	0.09	2.27	1.84	1.84	0.97	0.97	1.12	6.00	0.09	0.05	0.08	
10	1.26	1.40	1.55	0.53	2.27	0.53	11.40	0.97	6.00	0.09	0.05	0.08	
11	0.82	0.39	1.26	0.39	3.00	5.60	6.40	1.69	5.60	0.09	0.05	0.08	
12	3.00	0.39	1.99	1.55	3.60	2.27	4.20	104.60	4.00	0.09	0.05	0.08	
13	1.12	0.97	1.26	0.68	2.13	1.26	2.71	50.50	3.00	0.08	0.05	0.08	
14	0.68	0.82	0.97	0.24	1.69	0.68	3.40	19.00	2.42	0.10	0.05	0.08	
15	0.24	3.20	0.82	0.39	1.12	0.24	4.00	10.50	1.84	0.24	0.05	0.68	
16	0.09	2.71	1.55	0.09	0.68	0.09	2.13	7.60	1.55	0.10	0.04	1.12	
17	0.08	1.84	1.12	0.09	0.39	0.09	8.20	5.60	1.12	0.10	0.04	0.82	
18	0.08	1.55	0.53	0.09	0.10	0.09	4.00	4.20	1.12	0.09	0.08	1.26	
19	0.08	0.82	0.53	0.09	0.09	0.24	5.20	4.00	0.97	0.08	0.08	2.71	
20	0.09	0.39	0.82	0.07	0.09	0.10	4.20	3.40	0.82	0.08	0.07	3.60	
21	1.55	0.53	0.39	0.06	0.09	0.10	6.20	3.00	0.82	0.08	0.07	2.56	
22	0.39	7.80	0.24	0.06	0.09	0.09	7.40	2.56	0.82	0.09	0.07	1.84	
23	0.08	3.00	0.24	0.06	0.09	0.39	4.60	2.42	2.71	0.09	0.07	1.40	
24	0.08	2.71	0.10	0.06	1.12	0.39	3.00	1.99	1.84	0.08	0.08	1.55	
25	0.08	1.84	0.09	0.05	0.24	0.10	2.27	1.99	1.40	0.08	0.08	1.26	
26	0.07	1.26	0.09	0.05	0.24	2.56	2.56	2.86	1.26	0.08	0.08	1.12	
27	0.06	0.97	0.10	0.05	2.42	1.12	3.60	1.69	1.12	0.08	0.08	0.82	
28	0.06	5.80	0.68	0.10	5.80	0.82	2.86	1.55	0.97	0.08	0.08	0.53	
29	0.07	1.99	0.53	0.09	3.60	3.80	2.13	1.40	0.68	0.97		0.68	
30	0.08	3.80	0.24	0.08	2.27	4.20	3.20	1.26	0.53	0.53		0.82	
31		1.84		0.07	1.55		4.20		0.53	0.09		0.68	
Total	19.10	55.60	32.02	9.66	52.79	42.81	114.39	250.58	60.25	4.83	1.85	24.57	668.45 CMSDAY
Mean	0.64	1.79	1.07	0.31	1.70	1.43	3.69	8.35	1.94	0.16	0.07	0.79	1.83 CMS
Max	3.20	7.80	3.80	1.84	7.80	5.60	11.40	104.60	6.00	0.97	0.08	3.60	104.60 CMS
Min	0.06	0.07	0.09	0.05	0.05	0.09	0.82	0.97	0.53	0.08	0.04	0.08	0.04 CMS
Runoff	1.650	4.804	2.767	0.835	4.561	3.699	9.883	21.650	5.206	0.417	0.160	2.123	57.754 MCM

Momentary Peak 299.70 CMS, at 5.47 M (A.D), at 15.00 Hours, on Nov 12, 1992

Runoff Yield 5.81 Liters/Second/Square KM, Momentary Peak Yield 951.43 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENNINSULA EAST COAST

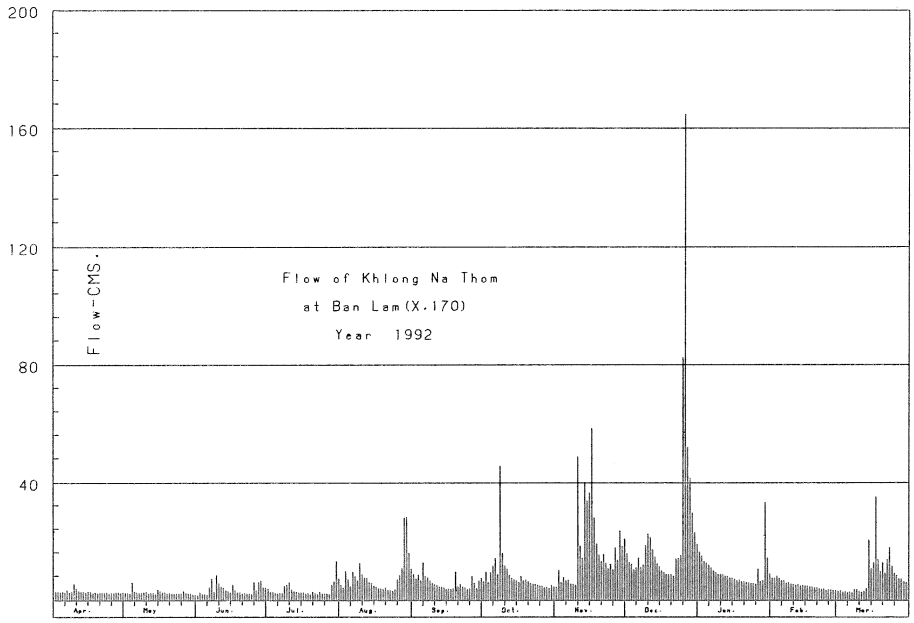
Khlong Na Thom at Ban Lam, Phattalung (X.170)

Location	Lat. 07-33-22 N., Long. 99-59-31 E., on left bank at the bridge on road, 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 fair. Stage-discharge relation defined by 13 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.78	0.74	0.83	0.87	0.99	0.91	0.85	1.17	1.19	0.96	0.81	
2	0.79	0.77	0.78	0.80	0.84	0.95	1.02	1.03	1.10	1.15	0.95	0.81	
3	0.79	0.77	0.76	0.79	1.02	0.99	0.91	0.91	1.08	1.11	0.98	0.80	
4	0.79	0.90	0.75	0.78	0.94	0.93	1.01	0.96	1.04	1.09	0.95	0.80	
5	0.79	0.80	0.75	0.77	0.86	1.10	1.07	0.93	1.05	1.08	0.93	0.79	
6	0.81	0.78	0.85	0.77	1.02	0.97	1.13	0.93	1.14	1.05	0.92	0.79	
7	0.79	0.78	0.94	0.78	0.97	0.96	1.00	0.89	1.05	1.03	0.90	0.79	
8	0.79	0.77	0.79	0.86	0.93	0.92	1.76	0.88	1.08	1.01	0.90	0.82	
9	0.89	0.79	0.99	0.88	1.09	0.90	1.18	0.88	1.24	1.00	0.89	0.83	
10	0.83	0.79	0.89	0.90	0.99	0.88	1.07	1.81	1.33	1.00	0.88	0.80	
11	0.81	0.77	0.86	0.82	0.96	0.87	1.04	1.24	1.31	0.99	0.88	0.80	
12	0.80	0.78	0.84	0.81	0.95	0.86	0.99	1.13	1.21	0.98	0.88	0.81	
13	0.79	0.77	0.82	0.79	0.91	0.85	0.95	1.66	1.14	0.97	0.87	0.83	
14	0.79	0.76	0.80	0.79	0.89	0.85	0.94	1.54	1.09	0.96	0.87	1.29	
15	0.79	0.82	0.79	0.79	0.87	0.83	0.92	1.59	1.06	0.95	0.87	1.04	
16	0.79	0.80	0.88	0.78	0.85	0.83	0.91	1.95	1.03	0.94	0.86	1.10	
17	0.78	0.79	0.81	0.77	0.84	0.83	0.97	1.44	1.01	0.93	0.86	1.57	
18	0.78	0.78	0.79	0.77	0.83	0.83	0.93	1.26	1.00	0.93	0.85	1.12	
19	0.78	0.77	0.78	0.76	0.83	1.02	0.93	1.16	0.99	0.92	0.85	1.02	
20	0.78	0.77	0.77	0.79	0.84	0.86	0.92	1.11	0.99	0.91	0.84	1.10	
21	0.78	0.77	0.77	0.77	0.82	0.88	0.89	1.17	0.98	0.91	0.84	1.01	
22	0.78	0.76	0.77	0.76	0.81	0.86	0.89	1.09	1.13	0.90	0.83	1.12	
23	0.78	0.76	0.76	0.79	0.81	0.84	0.88	1.05	1.13	0.90	0.83	1.22	
24	0.77	0.77	0.76	0.77	0.82	0.83	0.88	1.08	1.16	0.89	0.82	1.07	
25	0.77	0.76	0.91	0.76	0.94	0.83	0.87	1.04	2.28	0.89	0.82	1.01	
26	0.77	0.80	0.81	0.76	0.98	0.97	0.86	1.22	3.22	1.04	0.82	0.98	
27	0.79	0.78	0.91	0.76	1.05	0.90	0.85	1.12	1.86	0.92	0.82	0.95	
28	0.78	0.77	0.92	0.88	1.44	0.84	0.85	1.35	1.68	0.92	0.81	0.94	
29	0.78	0.76	0.85	0.91	1.44	0.92	0.84	1.23	1.47	1.53		0.92	
30	0.78	0.75	0.84	1.11	1.18	0.95	0.87	1.30	1.34	1.14		0.90	
31		0.74		0.95	1.04		0.86		1.25	1.00		0.89	
Mean	0.79	0.78	0.82	0.81	0.96	0.90	0.97	1.19	1.28	1.01	0.87	0.96	
Max	0.89	0.90	0.99	1.11	1.44	1.10	1.76	1.95	3.22	1.53	0.98	1.57	3.22
Min	0.77	0.74	0.74	0.76	0.81	0.83	0.84	0.85	0.98	0.89	0.81	0.79	0.74

Annual Max Momentary Gage Height 4.39 M (A.D), at 6.00 Hours, on Dec 26, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.00 M (A.D)
Left Bank Elevation 6.84 M (A.D)
Right Bank Elevation 6.77 M (A.D), Drainage Area 269 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.00	2.60	1.80	3.90	5.10	8.70	6.30	4.50	15.80	16.60	7.80	3.30	
2	2.80	2.40	2.60	3.00	4.20	7.50	9.80	10.20	13.00	15.00	7.50	3.30	
3	2.80	2.40	2.20	2.80	9.80	8.70	6.30	6.30	12.20	13.40	8.40	3.00	
4	2.80	6.00	2.00	2.60	7.20	6.90	9.40	7.80	10.60	12.60	7.50	3.00	
5	2.80	3.00	2.00	2.40	4.80	13.00	11.80	6.90	11.00	12.20	6.90	2.80	
6	3.30	2.60	4.50	2.40	9.80	8.10	14.20	6.90	14.60	11.00	6.60	2.80	
7	2.80	2.60	7.20	2.60	8.10	7.80	9.00	5.70	11.00	10.20	6.00	2.80	
8	2.80	2.40	2.80	4.80	6.90	6.60	45.80	5.40	12.20	9.40	6.00	3.60	
9	5.70	2.80	8.70	5.40	12.60	6.00	16.20	5.40	18.60	9.00	5.70	3.90	
10	3.90	2.80	5.70	6.00	8.70	5.40	11.80	48.70	22.50	9.00	5.40	3.00	
11	3.30	2.40	4.80	3.60	7.80	5.10	10.60	18.60	21.50	8.70	5.40	3.00	
12	3.00	2.60	4.20	3.30	7.50	4.80	8.70	14.20	17.40	8.40	5.40	3.30	
13	2.80	2.40	3.60	2.80	6.30	4.50	7.50	40.30	14.60	8.10	5.10	3.90	
14	2.80	2.20	3.00	2.80	5.70	4.50	7.20	33.70	12.60	7.80	5.10	20.60	
15	2.80	3.60	2.80	2.80	5.10	3.90	6.60	36.45	11.40	7.50	5.10	10.60	
16	2.80	3.00	5.40	2.60	4.50	3.90	6.30	58.50	10.20	7.20	4.80	13.00	
17	2.60	2.80	3.30	2.40	4.20	3.90	8.10	28.20	9.40	6.90	4.80	35.35	
18	2.60	2.60	2.80	2.40	3.90	3.90	6.90	19.40	9.00	6.90	4.50	13.80	
19	2.60	2.40	2.60	2.20	3.90	9.80	6.90	15.40	8.70	6.60	4.50	9.80	
20	2.60	2.40	2.40	2.80	4.20	4.80	6.60	13.40	8.70	6.30	4.20	13.00	
21	2.60	2.40	2.40	2.40	3.60	5.40	5.70	15.80	8.40	6.30	4.20	9.40	
22	2.60	2.20	2.40	2.20	3.30	4.80	5.70	12.60	14.20	6.00	3.90	13.80	
23	2.60	2.20	2.20	2.80	3.30	4.20	5.40	11.00	14.20	6.00	3.90	17.80	
24	2.40	2.40	2.20	2.40	3.60	3.90	5.40	12.20	15.40	5.70	3.60	11.80	
25	2.40	2.20	6.30	2.20	7.20	3.90	5.10	10.60	82.40	5.70	3.60	9.40	
26	2.40	3.00	3.30	2.20	8.40	8.10	4.80	17.80	165.00	10.60	3.60	8.40	
27	2.80	2.60	6.30	2.20	11.00	6.00	4.50	13.80	52.20	6.60	3.60	7.50	
28	2.60	2.40	6.60	5.40	28.20	4.20	4.50	23.50	41.40	6.60	3.30	7.20	
29	2.60	2.20	4.50	6.30	28.20	6.60	4.20	18.20	29.85	33.15		6.60	
30	2.60	2.00	4.20	13.40	16.20	7.50	5.10	21.00	23.00	14.60		6.00	
31		1.80		7.50	10.60		4.80		19.00	9.00		5.70	
Total	86.20	81.40	114.80	112.60	253.90	182.40	271.20	542.45	730.05	303.05	146.40	261.45	3085.90 CMSDAY
Mean	2.87	2.63	3.83	3.63	8.19	6.08	8.75	18.08	23.55	9.78	5.23	8.43	8.45 CMS
Max	5.70	6.00	8.70	13.40	28.20	13.00	45.80	58.50	165.00	33.15	8.40	35.35	165.00 CMS
Min	2.40	1.80	1.80	2.20	3.30	3.90	4.20	4.50	8.40	5.70	3.30	2.80	1.80 CMS
Runoff	7.448	7.033	9.919	9.729	21.937	15.759	23.432	46.868	63.076	26.184	12.649	22.589	266.622 MCM

Momentary Peak 294.80 CMS, at 4.39 M (A.D), at 6.00 Hours, on Dec 26, 1992
Runoff Yield 31.43 Liters/Second/Square KM, Momentary Peak Yield 1095.91 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA WEST COAST

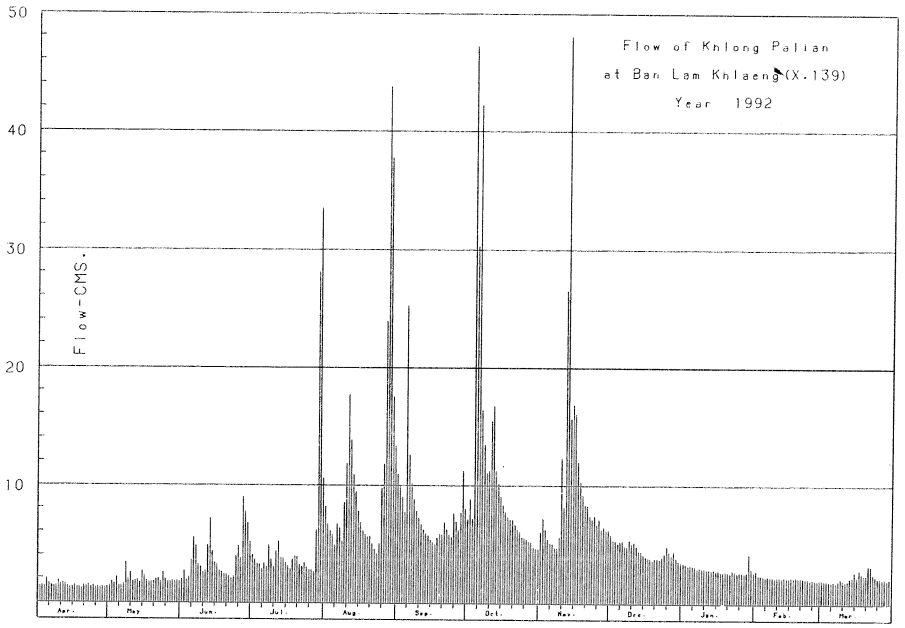
Khlong Palian at Ban Lam Khlaeng(2), Trang (X.139)

Location	Lat. 7-19-08 N., Long. 99-49-03 n., on right bank at Ban Lam Khlaeng(2), Amphoe Palian, Trang.
Drainage Area	153 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.00 m.(A.D.)
Bench Mark	B.M.-H.D.
Location	On right bank about 11 meters from the top staff gage.
Elevation	+5.106 m.(A.D.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings.
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1983 to date.
Rated by Float	-
Rated by Current Meter	1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +4.32 m.(A.D.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 92 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.87	0.88	0.96	1.20	1.52	1.71	1.43	1.35	1.33	1.14	1.07	0.96	
2	0.87	0.93	1.07	1.16	1.40	1.64	1.57	1.44	1.30	1.13	1.03	0.96	
3	0.87	0.90	0.96	1.13	1.36	1.58	1.44	1.37	1.29	1.12	1.02	0.95	
4	0.97	1.00	0.99	1.12	1.33	1.48	3.40	1.30	1.28	1.12	1.02	0.95	
5	0.90	0.88	1.16	1.09	1.26	2.48	2.71	1.28	1.29	1.12	1.01	0.94	
6	0.88	0.87	1.31	1.13	1.40	1.82	3.21	1.27	1.29	1.11	1.01	0.94	
7	0.87	0.90	1.26	1.11	1.38	1.66	2.04	1.25	1.26	1.10	1.01	0.93	
8	0.87	1.14	1.12	1.26	1.29	1.56	1.87	1.24	1.25	1.10	1.00	0.95	
9	0.95	0.96	1.11	1.16	1.54	1.49	1.72	1.32	1.30	1.10	1.00	0.99	
10	0.89	1.04	1.05	1.11	1.77	1.44	1.73	1.80	1.27	1.09	1.00	0.96	
11	0.92	0.94	1.06	1.22	2.12	1.40	1.99	1.51	1.28	1.09	1.00	0.95	
12	0.89	0.95	1.26	1.29	1.89	1.37	2.06	2.54	1.26	1.08	1.00	0.96	
13	0.87	0.95	1.44	1.18	1.71	1.34	1.73	3.43	1.23	1.08	1.00	0.99	
14	0.84	0.93	1.22	1.17	1.61	1.33	1.66	2.00	1.22	1.08	1.00	1.01	
15	0.86	1.07	1.14	1.14	1.49	1.30	1.58	2.07	1.20	1.07	1.00	1.06	
16	0.87	1.01	1.12	1.11	1.41	1.28	1.53	2.02	1.19	1.07	1.00	1.00	
17	0.86	0.94	1.07	1.09	1.36	1.27	1.48	1.78	1.18	1.06	1.00	1.09	
18	0.85	0.93	1.05	1.16	1.33	1.31	1.45	1.67	1.17	1.05	1.00	1.04	
19	0.84	0.92	1.03	1.19	1.32	1.34	1.43	1.59	1.16	1.07	1.00	1.03	
20	0.87	0.94	1.02	1.18	1.32	1.33	1.43	1.53	1.17	1.05	0.99	1.02	
21	0.87	0.96	1.00	1.12	1.27	1.41	1.40	1.52	1.17	1.05	0.99	1.12	
22	0.88	0.98	0.98	1.11	1.24	1.37	1.37	1.46	1.17	1.08	0.99	1.12	
23	0.86	0.93	1.00	1.14	1.21	1.33	1.35	1.43	1.18	1.06	0.98	1.04	
24	0.87	1.05	1.19	1.10	1.27	1.32	1.32	1.46	1.21	1.05	0.97	1.01	
25	0.85	0.96	1.26	1.08	1.63	1.47	1.31	1.40	1.26	1.05	0.97	1.00	
26	0.85	0.94	1.17	1.07	1.77	1.42	1.30	1.43	1.22	1.05	0.97	0.99	
27	0.85	0.94	1.58	1.06	2.42	1.36	1.29	1.37	1.20	1.05	0.96	0.98	
28	0.85	0.94	1.48	1.36	3.27	1.48	1.28	1.38	1.22	1.05	0.96	0.98	
29	0.85	0.94	1.41	2.61	3.03	1.73	1.25	1.36	1.18	1.21		0.97	
30	0.85	0.94	1.28	2.85	2.11	1.50	1.24	1.36	1.15	1.09		0.98	
31		0.93		1.69	1.86		1.24		1.14	1.06		0.98	
Mean	0.87	0.95	1.16	1.27	1.64	1.48	1.67	1.60	1.23	1.08	1.00	1.00	
Max	0.97	1.14	1.58	2.85	3.27	2.48	3.40	3.43	1.33	1.21	1.07	1.12	3.43
Min	0.84	0.87	0.96	1.06	1.21	1.27	1.24	1.24	1.14	1.05	0.96	0.93	0.84

Annual Max Momentary Gage Height 4.81 M (A.D), at 1.00 Hours, on Nov 13, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed 0.57 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, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.42	1.48	1.96	4.10	8.26	10.95	7.09	6.05	5.79	3.44	2.76	1.96	
2	1.42	1.78	2.76	3.66	6.70	9.90	8.91	7.22	5.40	3.33	2.44	1.96	
3	1.42	1.60	1.96	3.33	6.18	9.04	7.22	6.31	5.27	3.22	2.36	1.90	
4	2.02	2.20	2.14	3.22	5.79	7.74	47.20	5.40	5.14	3.22	2.36	1.90	
5	1.60	1.48	3.66	2.92	4.88	25.26	30.32	5.14	5.27	3.22	2.28	1.84	
6	1.48	1.42	5.53	3.33	6.70	12.64	42.26	5.01	5.27	3.11	2.28	1.84	
7	1.42	1.60	4.88	3.11	6.44	10.20	16.38	4.75	4.88	3.00	2.28	1.78	
8	1.42	3.44	3.22	4.88	5.27	8.78	13.49	4.62	4.75	3.00	2.20	1.90	
9	1.90	1.96	3.11	3.66	8.52	7.87	11.10	5.66	5.40	3.00	2.20	2.14	
10	1.54	2.52	2.60	3.11	11.85	7.22	11.25	12.30	5.01	2.92	2.20	1.96	
11	1.72	1.84	2.68	4.36	17.74	6.70	15.53	8.13	5.14	2.92	2.20	1.90	
12	1.54	1.90	4.88	5.27	13.83	6.31	16.72	26.58	4.88	2.84	2.20	1.96	
13	1.42	1.90	7.22	3.88	10.95	5.92	11.25	48.04	4.49	2.84	2.20	2.14	
14	1.24	1.78	4.36	3.77	9.45	5.79	10.20	15.70	4.36	2.84	2.20	2.28	
15	1.36	2.76	3.44	3.44	7.87	5.40	9.04	16.89	4.10	2.76	2.20	2.68	
16	1.42	2.28	3.22	3.11	6.83	5.14	8.39	16.04	3.99	2.76	2.20	2.20	
17	1.36	1.84	2.76	2.92	6.18	5.01	7.74	12.00	3.88	2.68	2.20	2.92	
18	1.30	1.78	2.60	3.66	5.79	5.53	7.35	10.35	3.77	2.60	2.20	2.52	
19	1.24	1.72	2.44	3.99	5.66	5.92	7.09	9.17	3.66	2.76	2.20	2.44	
20	1.42	1.84	2.36	3.88	5.66	5.79	7.09	8.39	3.77	2.60	2.14	2.36	
21	1.42	1.96	2.20	3.22	5.01	6.83	6.70	8.26	3.77	2.60	2.14	3.22	
22	1.48	2.08	2.08	3.11	4.62	6.31	6.31	7.48	3.77	2.84	2.14	3.22	
23	1.36	1.78	2.20	3.44	4.23	5.79	6.05	7.09	3.88	2.68	2.08	2.52	
24	1.42	2.60	3.99	3.00	5.01	5.66	5.66	7.48	4.23	2.60	2.02	2.28	
25	1.30	1.96	4.88	2.84	9.75	7.61	5.53	6.70	4.88	2.60	2.02	2.20	
26	1.30	1.84	3.77	2.76	11.85	6.96	5.40	7.09	4.36	2.60	2.02	2.14	
27	1.30	1.84	9.04	2.68	23.94	6.18	5.27	6.31	4.10	2.60	1.96	2.08	
28	1.30	1.84	7.74	6.18	43.82	7.74	5.14	6.44	4.36	2.60	1.96	2.08	
29	1.30	1.84	6.83	28.12	37.75	11.25	4.75	6.18	3.88	4.23		2.02	
30	1.30	1.84	5.14	33.47	17.57	8.00	4.62	6.18	3.55	2.92		2.08	
31		1.78		10.65	13.32		4.62		3.44	2.68		2.08	
Total	43.14	60.48	115.65	173.07	337.42	239.44	355.67	302.96	138.44	90.01	61.64	68.50	1986.42 CMSDAY
Mean	1.44	1.95	3.85	5.58	10.88	7.98	11.47	10.10	4.47	2.90	2.20	2.21	5.44 CMS
Max	2.02	3.44	9.04	33.47	43.82	25.26	47.20	48.04	5.79	4.23	2.76	3.22	48.04 CMS
Min	1.24	1.42	1.96	2.68	4.23	5.01	4.62	4.62	3.44	2.60	1.96	1.78	1.24 CMS
Runoff	3.727	5.225	9.992	14.953	29.153	20.688	30.730	26.176	11.961	7.777	5.326	5.918	171.627 MCM

Momentary Peak 90.35 CMS, at 4.81 M (A.D), at 1.00 Hours, on Nov 13, 1992
Runoff Yield 35.57 Liters/Second/Square KM, Momentary Peak Yield 590.52 Liters/Second/Square KM

WATER YEAR 1992

SOUTHERN PENINSULA WEST COAST

Khlong Langu at Ban Wang Pa Khian, Satun (X.150)

Location — Lat. 6°-56'-30" N., Long. 99°-52'-33" E., on right bank at Ban Wang Pa Khian, Amphoe Langu, Satun.

Drainage Area — 552 sq.km..

Type of Gage — Staff gage.

Zero Gage at Bottom — +0.00 m.(A.D.)

Bench Mark — B.M.-H.D.

- Location — On right bank about 5 meters from the top staff gage.
- Elevation — +8.520 m.(A.D.)

Gage Reading Frequency — 13-time daily readings at 06.00-18.00 hours.

Basis of Mean Daily Gage Height — Arithmetic mean of 13 readings.

Period of Available Gage Records — 1984 to date

Rating Operation

- Period of Rating — 1984 to date
- Rated by Float — -
- Rated by Current Meter — 1984 to date

Stability of Channel Regimes — Rather unstable.

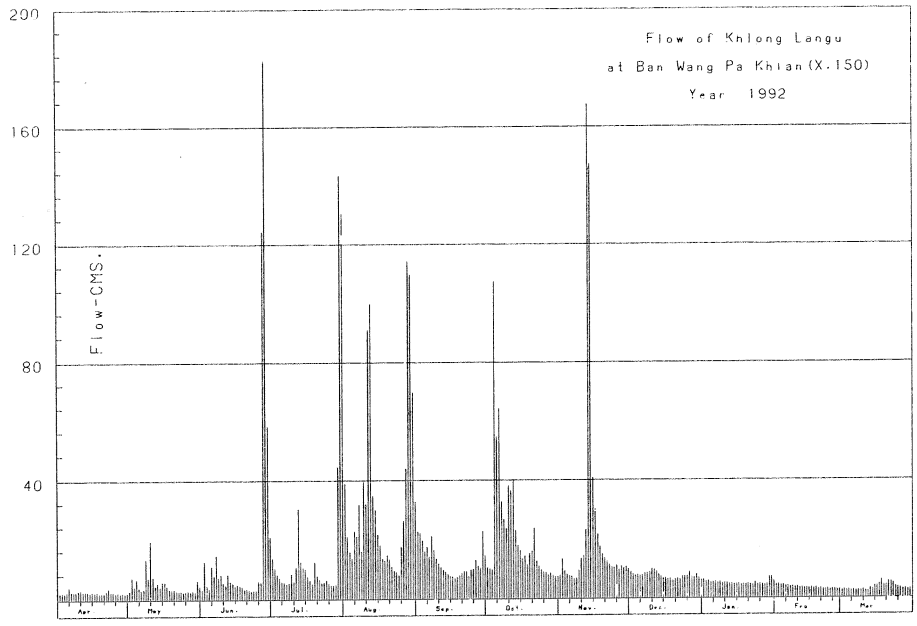
Overbank Flow Conditions — No overbank flow.

General Description — Records good. Stage-discharge relation defined by 88 discharge measurements made in 1992.

Gage Height in Meter (A.D), Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	0.67	0.73	1.52	2.74	2.00	1.31	1.13	1.23	1.02	0.88	0.66	
2	0.60	1.11	1.45	1.30	1.90	1.96	1.30	1.50	1.16	0.99	0.86	0.66	
3	0.61	0.84	0.87	1.18	1.64	1.84	1.26	1.25	1.14	0.98	0.85	0.65	
4	0.62	1.05	0.73	1.08	1.50	1.63	4.92	1.16	1.14	0.96	0.84	0.65	
5	0.81	0.81	1.37	1.00	2.01	1.73	3.31	1.14	1.13	0.96	0.82	0.64	
6	0.67	0.69	1.15	0.95	1.90	1.53	3.66	1.10	1.13	0.95	0.80	0.64	
7	0.64	0.76	1.58	0.93	2.43	1.92	2.47	1.06	1.19	0.94	0.79	0.63	
8	0.63	1.51	1.09	0.93	1.65	1.66	2.19	1.05	1.18	0.94	0.78	0.63	
9	0.70	1.08	1.18	1.19	2.75	1.51	2.05	1.26	1.22	0.92	0.78	0.64	
10	0.69	1.83	0.95	1.01	2.43	1.40	2.69	1.49	1.28	0.91	0.77	0.65	
11	0.66	1.12	0.89	1.33	4.46	1.32	2.62	1.56	1.26	0.91	0.76	0.63	
12	0.67	0.87	1.17	2.37	4.71	1.27	2.79	2.01	1.23	0.91	0.75	0.62	
13	0.63	0.94	1.00	1.44	2.55	1.22	2.02	6.29	1.16	0.89	0.75	0.71	
14	0.63	0.83	0.96	1.33	2.35	1.17	1.75	5.86	1.10	0.89	0.74	0.70	
15	0.63	0.98	0.87	1.28	1.95	1.13	1.66	2.81	1.07	0.89	0.74	0.79	
16	0.63	1.00	0.89	1.11	1.75	1.10	1.49	2.35	1.06	0.88	0.74	0.79	
17	0.63	0.84	0.87	1.02	1.51	1.08	1.56	1.95	1.05	0.87	0.74	0.88	
18	0.60	0.75	0.81	0.94	1.46	1.09	1.39	1.72	1.04	0.86	0.73	1.00	
19	0.59	0.70	0.75	1.45	1.58	1.14	1.59	1.59	1.01	0.88	0.72	0.84	
20	0.59	0.72	0.73	1.14	1.48	1.18	1.65	1.50	1.03	0.88	0.71	0.81	
21	0.70	0.69	0.69	1.04	1.34	1.23	2.04	1.44	1.04	0.86	0.70	0.94	
22	0.76	0.67	0.68	0.96	1.26	1.24	1.46	1.39	1.04	0.86	0.70	0.95	
23	0.65	0.65	0.67	0.95	1.21	1.12	1.34	1.33	1.12	0.93	0.69	0.88	
24	0.62	0.64	0.70	1.04	1.16	1.26	1.27	1.30	1.09	0.88	0.68	0.79	
25	0.61	0.64	1.00	0.92	1.73	1.28	1.21	1.37	1.12	0.88	0.68	0.74	
26	0.60	0.66	0.99	0.88	2.17	1.48	1.20	1.26	1.21	0.88	0.68	0.71	
27	0.59	0.65	5.36	0.85	2.93	1.36	1.16	1.35	1.12	0.87	0.67	0.69	
28	0.58	0.66	6.59	0.90	5.10	1.30	1.18	1.29	1.08	0.87	0.66	0.69	
29	0.58	0.65	3.45	2.95	4.98	2.00	1.14	1.34	1.16	1.10		0.68	
30	0.57	1.02	1.90	5.78	3.85	1.55	1.09	1.27	1.06	1.08		0.67	
31		0.83		5.50	2.46		1.12		1.03	0.97		0.68	
Mean	0.64	0.87	1.40	1.49	2.35	1.42	1.87	1.77	1.13	0.92	0.75	0.73	
Max	0.81	1.83	6.59	5.78	5.10	2.00	4.92	6.29	1.28	1.10	0.88	1.00	6.59
Min	0.57	0.64	0.67	0.85	1.16	1.08	1.09	1.05	1.01	0.86	0.66	0.62	0.57

Annual Max Momentary Gage Height 7.03 M (A.D), at 6.00 Hours, on Jun 28, 1992
Zero Gage at Bottom Elevation 0.00 M (A.D), River Bed -0.04 M (A.D)
Left Bank Elevation 10.21 M (A.D)
Right Bank Elevation 9.98 M (A.D), Drainage Area 552 Square Kilometers



Discharge, in Cubic Meter per Second, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.29	2.83	3.37	13.96	39.36	23.00	10.45	7.82	9.25	6.28	4.80	2.74	
2	2.20	7.54	12.70	10.30	21.00	22.20	10.30	13.60	8.24	5.90	4.60	2.74	
3	2.29	4.40	4.70	8.52	16.12	19.80	9.70	9.55	7.96	5.80	4.50	2.65	
4	2.38	6.70	3.37	7.12	13.60	15.94	107.52	8.24	7.96	5.60	4.40	2.65	
5	4.10	4.10	11.35	6.00	23.20	17.74	54.68	7.96	7.82	5.60	4.20	2.56	
6	2.83	3.01	8.10	5.50	21.00	14.14	64.48	7.40	7.82	5.50	4.00	2.56	
7	2.56	3.64	15.04	5.30	32.09	21.40	33.01	6.84	8.66	5.40	3.91	2.47	
8	2.47	13.78	7.26	5.30	16.30	16.48	26.80	6.70	8.52	5.40	3.82	2.47	
9	3.10	7.12	8.52	8.66	39.60	13.78	24.00	9.70	9.10	5.20	3.82	2.56	
10	3.01	19.60	5.50	6.14	32.09	11.80	38.16	13.42	10.00	5.10	3.73	2.65	
11	2.74	7.68	4.90	10.75	90.96	10.60	36.48	14.68	9.70	5.10	3.64	2.47	
12	2.83	4.70	8.38	30.74	99.96	9.85	40.56	23.20	9.25	5.10	3.55	2.38	
13	2.47	5.40	6.00	12.52	34.85	9.10	23.40	167.72	8.24	4.90	3.55	3.19	
14	2.47	4.30	5.60	10.75	30.30	8.38	18.10	147.12	7.40	4.90	3.46	3.10	
15	2.47	5.80	4.70	10.00	22.00	7.82	16.48	41.06	6.98	4.90	3.46	3.91	
16	2.47	6.00	4.90	7.54	18.10	7.40	13.42	30.30	6.84	4.80	3.46	3.91	
17	2.47	4.40	4.70	6.28	13.78	7.12	14.68	22.00	6.70	4.70	3.46	4.80	
18	2.20	3.55	4.10	5.40	12.88	7.26	11.65	17.56	6.56	4.60	3.37	6.00	
19	2.14	3.10	3.55	12.70	15.04	7.96	15.22	15.22	6.14	4.80	3.28	4.40	
20	2.14	3.28	3.37	7.96	13.24	8.52	16.30	13.60	6.42	4.80	3.19	4.10	
21	3.10	3.01	3.01	6.56	10.90	9.25	23.80	12.52	6.56	4.60	3.10	5.40	
22	3.64	2.83	2.92	5.60	9.70	9.40	12.88	11.65	6.56	4.60	3.10	5.50	
23	2.65	2.65	2.83	5.50	8.95	7.68	10.90	10.75	7.68	5.30	3.01	4.80	
24	2.38	2.56	3.10	6.56	8.24	9.70	9.85	10.30	7.26	4.80	2.92	3.91	
25	2.29	2.56	6.00	5.20	17.74	10.00	8.95	11.35	7.68	4.80	2.92	3.46	
26	2.20	2.74	5.90	4.80	26.40	13.24	8.80	9.70	8.95	4.80	2.92	3.19	
27	2.14	2.65	124.60	4.50	44.18	11.20	8.24	11.05	7.68	4.70	2.83	3.01	
28	2.08	2.74	182.50	5.00	114.30	10.30	8.52	10.15	7.12	4.70	2.74	3.01	
29	2.08	2.65	58.60	44.70	109.68	23.00	7.96	10.90	8.24	7.40		2.92	
30	2.02	6.28	21.00	143.38	69.95	14.50	7.26	9.85	6.84	7.12		2.83	
31		4.30		130.60	32.78		7.68		6.42	5.70		2.92	
Total	76.21	155.90	540.57	553.84	1058.29	378.56	700.23	691.91	240.55	162.90	99.74	105.26	4763.96 CMSDAY
Mean	2.54	5.03	18.02	17.87	34.14	12.62	22.59	23.06	7.76	5.25	3.56	3.40	13.05 CMS
Max	4.10	19.60	182.50	143.38	114.30	23.00	107.52	167.72	10.00	7.40	4.80	6.00	182.50 CMS
Min	2.02	2.56	2.83	4.50	8.24	7.12	7.26	6.70	6.14	4.60	2.74	2.38	2.02 CMS
Runoff	6.585	13.470	46.705	47.852	91.436	32.708	60.500	59.781	20.784	14.075	8.618	9.094	411.606 MCM

Momentary Peak 205.97 CMS, at 7.03 M (A.D), at 6.00 Hours, on Jun 28, 1992

Runoff Yield 23.64 Liters/Second/Square KM, Momentary Peak Yield 373.13 Liters/Second/Square KM

SUSPENDED SEDIMENT STATION

1. Ping River at Ban Tha Khae, Tak (P.2A)
2. Mae Taeng River at Mae Taeng, Chiang Mai (P.4A)
3. Nam Mae Chaem at Kaeng Ob Luang, Chiang Mai (P.14)
4. Khlong Khlung at Ban Pang Wai, Kamphaeng Phet (P.35)
5. Mae Taeng River at Ban Muang Pok, Chiantg Mai (P.65)
6. Wang River at Ban Wang Man, Tak (W.4A)
7. Yom River at Ban Ngao Sak, Phrae (Y.20)
8. Nan River at Forestry Office, Nan (N.1)
9. Chao Phraya River at Khai Chira Prawat, Nakhon Sawan (C.2)
10. Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M.7)
11. Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80)
12. Khlong Samo Pun at Haew Narok, Prachin Buri (Ny.4)
13. Prachin Buri River at Kabin Buri, Prachin Buri (Kgt.3)
14. Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (Kgt.10)
15. Khlong Phra Prong at Ban Kaeng, Prachin Buri (Kgt.12)
16. Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt.18)
17. Khlong Luang at Ban Mai, Chon Buri (Kgt.19)
18. Huai Tha Khaei at Ban Bung, Ratchaburi (K.25)
19. Huai Mae Prachan at Ban Kariang, Phetchaburi (B.8)
20. Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)
21. Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan (Gt.9)
22. Khlong Cha Kra at Ban Cha Kra Bon, Prachuap Khiri Khan (Gt.18)
23. Khlong Phum Duang at Khiri Ratthanikhom, Surat Thani (X.36)
24. Tapi River at Prasaeng, Surat Thani (X.37A)
25. Khlong Tha Di at Ban Pak Prik, Nakhon Si Thammarat (X.55)
26. Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)
27. Khlong Tan Yong Mat at Rangae, Narathiwat (X.73)
28. Khlong U Taphao at Ban Bang Sala, Songkhla (X.90)
29. Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103)
30. Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104)
31. Khlong Sadao at Ban Phrai, Songkhla (X.111)
32. Khlong Lam at Ban Thung Prap(1), Songkhla (X.113)
33. Kolok River at Sungai Kolok, Narathiwat (X.119A)
34. Khlong Waeng at Waeng, Narathiwat (X.121)
35. Khlong Palian at Ban Lam Khlaeng(2), Trang (X.139)
36. Khlong Chandi at Ban Chandi Nua, Nakhon Si Thammarat (X.163)

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 1-APR-1994 09:35:24.76
Station - Ban Tha Khae, Muang, Tak, (P.2A)
Stream - Ping
River - Ping
River System - Ping River

LQS/LQS02DL/1
Royal Irrigation Department
Thailand
Hydrology Division 090693
1.15736
QS = 2.3099 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2080.74	2169.98	328.60	83.09	214.74	33.57	709.58	642.46	1209.32	328.60	612.68	674.75	
2	2080.74	1909.81	851.15	60.91	289.07	33.57	1143.81	443.81	1341.77	289.07	1209.32	1408.68	
3	1937.15	2051.10	762.26	136.79	161.76	40.98	996.02	368.78	1253.26	246.73	1078.81	1559.34	
4	1964.55	1909.81	869.09	456.95	146.15	37.45	1100.42	308.75	1364.03	404.71	1078.81	1532.80	
5	1909.81	2110.43	348.61	109.26	83.09	37.45	1078.81	298.89	1165.59	851.15	996.02	1386.33	
6	923.20	1719.90	430.73	50.20	113.79	36.28	1035.77	246.73	391.79	744.64	1143.81	1386.33	
7	1585.95	2080.74	404.71	368.78	122.92	41.38	762.26	417.69	404.71	510.02	674.75	1773.88	
8	1937.15	1964.55	118.34	657.43	141.46	246.73	597.86	470.15	1319.57	744.64	539.09	727.08	
9	2051.10	1855.27	348.61	524.53	83.09	193.60	553.70	238.68	1364.03	417.69	996.02	1506.31	
10	1964.55	1855.27	289.07	156.53	100.28	167.01	524.53	193.60	977.74	358.68	1639.35	1612.62	
11	1666.14	1035.77	118.34	44.96	104.76	146.15	430.73	177.58	851.15	182.90	1453.53	1612.62	
12	1506.31	1559.34	43.36	41.77	172.28	156.53	391.79	167.01	1532.80	657.43	1585.95	1639.35	
13	1209.32	1746.86	40.59	38.62	177.58	151.33	338.58	151.33	727.08	597.86	1231.26	1453.53	
14	1319.57	1275.31	417.69	43.76	146.15	146.15	318.65	132.14	271.10	612.68	674.75	1275.31	
15	1386.33	1035.77	151.33	42.96	246.73	146.15	271.10	118.34	1143.81	483.39	553.70	815.44	
16	1719.90	1386.33	127.52	43.76	132.14	262.94	404.71	118.34	1187.43	923.20	1364.03	1612.62	
17	2169.98	923.20	141.46	77.46	83.09	657.43	762.26	797.65	1408.68	510.02	1364.03	1666.14	
18	2080.74	692.14	83.09	44.56	44.56	627.55	1187.43	762.26	709.58	156.53	1297.41	1666.14	
19	1746.86	1386.33	83.09	42.96	109.26	368.78	1035.77	869.09	642.46	833.27	1506.31	1639.35	
20	1479.89	1275.31	60.91	44.16	55.52	612.68	1122.08	959.51	568.37	1100.42	1453.53	1692.99	
21	2229.76	1209.32	44.96	42.57	55.52	404.71	1275.31	597.86	141.46	1143.81	727.08	1364.03	
22	2169.98	1165.59	44.56	42.96	44.16	318.65	1431.08	358.68	727.08	1122.08	709.58	797.65	
23	2080.74	1078.81	94.50	113.79	71.88	308.75	1532.80	271.10	1122.08	378.92	1364.03	1612.62	
24	2199.84	1014.34	122.92	94.50	43.76	553.70	1275.31	887.08	833.27	368.78	1341.77	1666.14	
25	2051.10	568.37	141.46	104.76	40.98	657.43	1122.08	887.08	1143.81	289.07	1341.77	1692.99	
26	1506.31	869.09	109.26	88.77	39.80	779.93	1035.77	959.51	391.79	996.02	1479.89	1746.86	
27	1014.34	851.15	161.76	44.56	37.84	797.65	815.44	996.02	246.73	1035.77	1453.53	1746.86	
28	2199.84	923.20	113.79	77.46	37.06	744.64	692.14	887.08	597.86	941.33	887.08	1585.95	
29	2021.52	851.15	71.88	122.92	35.50	674.75	959.51	583.09	959.51	1078.81		1122.08	
30	2110.43	959.51	55.52	132.14	35.11	657.43	941.33	308.75	1231.26	1209.32		1692.99	
31		539.09		136.79	33.95		1035.77		744.64	744.64		1719.90	
Total	54303.84	41972.84	6979.16	4070.66	3203.98	10041.35	26882.40	14619.04	27973.76	20262.18	31757.89	45389.67	287456.81 Ton
Mean	1810.13	1353.96	232.64	131.31	103.35	334.71	867.17	487.30	902.38	653.62	1134.21	1464.18	
Max	2229.76	2169.98	869.09	657.43	289.07	797.65	1532.80	996.02	1532.80	1209.32	1639.35	1773.88	2229.76
Min	923.20	539.09	40.59	38.62	33.95	33.57	271.10	118.34	141.46	156.53	539.09	674.75	33.57

WATER YEAR 1992

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.D - 49
Period of Available Records	1992
Actual Measurement	1992
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:07:43.11

LQS/LQS02DL/1

Station - Mae Taeng, Mae Taeng, Chiang Mai, (P.4A)
Stream - Mae Taeng
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division

1.81742
QS = 1.6146 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.20	6.60	0.44	332.39	20.33	577.09	109.93	73.94	34.14	0.58	0.41	
2	0.09	0.20	6.60	0.44	918.45	16.81	224.81	84.06	152.66	34.14	0.58	0.41	
3	0.09	0.20	6.22	0.44	1368.63	26.37	481.84	65.02	143.26	32.54	0.58	0.41	
4	0.09	0.16	6.22	0.44	159.08	12.69	1123.71	56.91	143.26	23.95	0.58	0.36	
5	0.09	0.16	6.22	0.44	263.48	5.85	848.45	54.31	138.88	2.35	0.58	0.36	
6	0.09	0.16	5.85	0.44	2365.43	31.41	602.11	54.31	134.56	1.13	0.58	0.36	
7	0.09	0.16	5.49	0.31	2475.59	18.45	40.90	46.86	134.56	1.47	0.58	0.36	
8	0.09	0.25	5.49	0.25	501.05	1.50	12.62	102.22	147.71	11.89	0.58	0.36	
9	0.09	0.25	612.67	0.25	96.61	124.03	4.79	126.10	178.55	11.89	0.58	0.36	
10	0.09	0.44	602.11	0.25	27.41	24.25	2.86	848.45	143.26	11.89	0.58	0.36	
11	0.06	8.85	20.33	0.25	34.37	15.41	2.60	564.77	143.26	11.89	0.58	0.36	
12	0.06	9.36	21.26	0.25	31.41	435.31	2.35	324.38	143.26	2.60	0.58	0.36	
13	0.06	10.29	26.37	0.25	1.64	263.48	2.35	300.88	143.26	2.11	0.58	0.36	
14	0.06	13.37	31.41	0.31	0.60	178.07	2.35	308.63	134.56	2.11	0.58	0.36	
15	0.06	16.81	51.22	0.38	0.60	27.41	2.35	212.53	162.80	2.11	0.58	0.36	
16	0.06	14.06	41.91	0.44	1.64	2326.63	5.18	212.53	167.98	1.39	0.58	0.41	
17	0.09	40.27	25.25	0.51	0.60	4179.21	42.67	206.51	147.71	0.84	0.58	0.41	
18	0.09	0.25	22.30	0.51	0.60	4861.39	102.22	212.53	147.71	0.70	0.53	0.41	
19	0.09	0.25	21.26	0.51	0.60	4743.59	59.56	183.95	143.26	0.70	0.53	0.41	
20	0.12	0.44	0.00	0.51	0.20	2539.55	22.68	167.98	121.97	0.64	0.47	0.41	
21	0.16	0.78	1.20	0.51	0.09	1305.37	2.60	162.80	106.05	0.64	0.47	0.36	
22	0.12	0.89	1.64	0.60	0.09	3183.47	2.35	157.70	102.22	0.64	0.41	0.36	
23	0.12	0.89	0.60	0.60	0.12	5040.52	2.35	157.70	87.57	0.64	0.41	0.32	
24	0.12	8.35	0.44	702.39	0.20	1752.32	2.35	152.66	278.17	0.64	0.41	0.32	
25	0.12	14.06	0.44	581.23	0.16	1202.94	59.56	152.66	4743.59	0.64	0.41	0.32	
26	0.16	14.69	0.44	249.15	0.25	748.15	300.88	162.80	790.44	0.64	0.41	0.32	
27	0.16	14.69	0.51	203.14	18.45	627.60	470.48	285.65	293.22	0.64	0.41	0.28	
28	0.16	15.41	0.51	56.18	1.20	589.54	493.33	256.85	167.98	0.64	0.41	0.28	
29	0.16	13.37	0.51	8.35	0.25	972.58	493.33	250.29	113.88	0.64		0.24	
30	0.16	10.29	0.44	6.60	0.20	1862.72	417.29	243.80	91.13	0.64		0.20	
31		7.93		87.21	0.16		493.33		56.91	0.64		0.20	
Total	3.09	217.48	1531.51	1903.58	8601.55	37136.95	6901.34	6225.77	9677.57	197.52	14.73	10.80	72421.89 Ton
Mean	0.10	7.02	51.05	61.41	277.47	1237.90	222.62	207.53	312.18	6.37	0.53	0.35	
Max	0.16	40.27	612.67	702.39	2475.59	5040.52	1123.71	848.45	4743.59	34.14	0.58	0.41	5040.52
Min	0.06	0.16	0.00	0.25	0.09	1.50	2.35	46.86	56.91	0.64	0.41	0.20	0.00

WATER YEAR 1992

PING RIVER BASIN

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

Location	Lat. 18°-13'-49" N., Long. 98°-33'-35" E., on right bank near the bridge of Hot-Mae Sariang Highway at guidepost 7+500, Amphoe Hot, Chiang Mai.
Drainage Area	3,853 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1967 - Cont'd
Actual Measurement	1970 - 1971, 1983 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:07:55.28

LQS/LQS02DL/1

Station - Kaeng Ob Luang, Hot, Chiang Mai, (P.14)
Stream - Nam Mae Chaem
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division
1.99301
QS = 1.3996 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	73.2	63.1	41.2	58.4	8370.0	3735.3	8312.7	1313.1	689.6	435.6	173.2	48.4	
2	63.1	53.8	45.2	63.1	6001.5	10961.5	6441.3	1196.0	639.1	415.4	152.9	48.4	
3	63.1	49.4	49.4	58.4	4030.8	9638.2	7447.2	1129.2	590.6	362.9	143.3	48.4	
4	63.1	41.2	41.2	58.4	3111.3	6237.8	5965.6	1032.7	590.6	329.9	136.1	52.4	
5	63.1	37.4	45.2	63.1	2916.0	4655.5	4961.7	970.8	567.0	283.3	129.1	56.6	
6	63.1	34.9	41.2	98.2	2789.2	3663.2	3583.4	940.5	543.9	283.3	129.1	52.4	
7	63.1	32.4	34.9	98.2	4337.6	3451.0	3009.7	910.7	521.3	283.3	122.3	48.4	
8	58.4	30.1	49.4	186.4	3881.7	3313.0	2759.8	881.4	521.3	268.5	115.6	44.6	
9	58.4	27.8	105.8	277.0	2789.2	4030.8	2520.7	852.6	499.1	268.5	109.2	44.6	
10	53.8	32.4	196.8	432.7	1980.7	3808.1	2348.5	970.8	456.3	268.5	102.9	56.6	
11	53.8	37.4	229.5	329.0	2033.8	4259.8	2348.5	1355.7	456.3	254.2	102.9	79.7	
12	53.8	63.1	138.8	241.0	3808.1	3808.1	2182.4	1096.6	397.5	254.2	109.2	143.3	
13	58.4	58.4	113.6	157.0	5769.8	2604.4	1919.0	970.8	380.0	229.5	96.8	102.9	
14	58.4	130.1	113.6	113.6	2916.0	4106.5	1769.0	970.8	380.0	206.0	90.9	90.9	
15	58.4	98.2	207.4	130.1	2310.3	5885.1	1672.5	910.7	362.9	194.8	96.8	79.7	
16	49.4	83.9	264.7	1725.2	4106.5	12287.2	1672.5	910.7	346.2	183.9	90.9	65.4	
17	45.2	68.0	186.4	1110.5	6848.3	20275.8	3404.7	881.4	346.2	183.9	85.2	52.4	
18	45.2	53.8	147.8	486.7	4416.0	21720.2	4751.2	881.4	346.2	183.9	79.7	40.9	
19	41.2	58.4	176.3	289.6	3245.1	16506.9	4146.8	881.4	329.9	183.9	79.7	35.0	
20	45.2	105.8	147.8	218.3	2852.2	18722.0	3009.7	881.4	298.4	183.9	74.8	30.5	
21	45.2	83.9	98.2	186.4	2604.4	46724.2	2348.5	824.2	283.3	183.9	70.0	30.5	
22	41.2	83.9	105.8	432.7	2142.3	31261.8	1970.3	824.2	268.5	194.8	70.0	26.2	
23	34.9	78.5	83.9	329.0	1676.3	24995.1	1919.0	796.3	268.5	206.0	70.0	24.2	
24	32.4	58.4	68.0	804.3	1876.4	41108.2	1970.3	768.9	2520.7	194.8	70.0	24.2	
25	30.1	53.8	58.4	1447.2	3591.7	30488.3	1769.0	742.0	11667.5	183.9	70.0	24.2	
26	32.4	45.2	53.8	1145.8	4945.4	13977.4	2022.3	742.0	3766.6	183.9	65.4	24.2	
27	41.2	41.2	53.8	992.7	5769.8	7578.0	1868.3	689.6	1271.3	173.2	65.4	24.2	
28	58.4	41.2	53.8	804.3	11477.8	10864.6	1720.4	715.6	881.4	162.9	56.6	24.2	
29	63.1	41.2	58.4	881.4	9638.2	20954.9	1487.4	852.6	664.1	162.9		24.2	
30	58.4	37.4	58.4	6478.6	4337.6	13028.5	1313.1	742.0	543.9	183.9		20.4	
31		37.4		4259.8	3735.3		1271.3		499.1	183.9		20.4	
Total	1568.7	1761.7	3068.7	23957.1	130309.3	404651.4	93886.8	27636.1	31897.3	7271.5	2758.0	1488.4	730255.1 Ton
Mean	52.3	56.8	102.3	772.8	4203.5	13488.4	3028.6	921.2	1028.9	234.6	98.5	48.0	
Max	73.2	130.1	264.7	6478.6	11477.8	46724.2	8312.7	1355.7	11667.5	435.6	173.2	143.3	46724.2
Min	30.1	27.8	34.9	58.4	1676.3	2604.4	1271.3	689.6	268.5	162.9	56.6	20.4	20.4

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:08:07.17

LQS/LQS02DL/1

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
1.37593
QS = 3.8274 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.02	0.21	723.10	197.99	239.72	802.06	26.23	12.97	3.31	1.35	
2	0.00	0.00	0.02	0.16	1002.20	129.12	314.12	613.51	25.67	11.18	3.52	1.35	
3	0.00	0.00	0.00	0.12	1421.70	74.80	450.11	463.04	24.56	11.18	3.52	1.47	
4	0.00	0.00	0.12	0.12	608.35	76.29	324.97	346.96	24.01	10.85	3.11	1.35	
5	0.00	0.00	0.08	0.08	350.67	115.82	257.43	266.45	22.38	10.85	3.31	1.35	
6	0.00	0.00	0.00	0.08	1315.40	164.98	242.58	217.19	22.38	10.18	3.31	1.35	
7	0.00	0.00	0.00	0.08	634.26	99.51	284.75	174.78	21.84	8.57	3.31	1.35	
8	0.00	0.00	0.00	0.05	365.59	83.84	266.45	152.95	20.78	10.18	3.31	1.35	
9	0.00	0.00	0.08	0.05	211.66	203.43	562.46	132.99	20.27	9.85	3.31	1.24	
10	0.00	0.00	0.00	0.02	189.91	287.83	895.58	112.09	18.74	8.57	3.11	1.24	
11	0.00	0.00	0.00	0.02	346.96	281.68	1386.02	108.40	17.74	8.57	3.11	1.35	
12	0.00	0.00	1.47	0.05	523.72	217.19	1183.56	90.02	15.78	7.69	2.91	1.35	
13	0.00	0.00	1.24	0.36	518.98	119.58	841.80	83.84	15.78	7.18	2.53	1.24	
14	0.00	1.35	1.98	0.16	782.39	50.44	542.79	74.80	15.78	6.44	2.53	1.47	
15	0.00	0.70	22.92	0.36	504.83	43.04	384.85	67.95	15.30	5.26	2.53	1.47	
16	0.00	0.31	10.18	2.16	332.26	42.23	2252.74	61.96	14.83	5.03	2.34	1.47	
17	0.00	0.21	4.36	36.96	119.58	65.53	8031.78	57.27	13.89	4.36	2.34	1.35	
18	0.00	0.12	2.72	48.22	115.82	52.69	4865.82	57.27	12.52	4.36	2.34	1.24	
19	0.00	0.08	20.78	18.74	108.40	48.22	2609.66	52.69	12.97	4.36	2.34	1.24	
20	0.00	0.00	59.60	7.69	64.33	43.84	1582.42	47.12	12.97	4.58	2.34	1.12	
21	0.00	0.00	31.57	2.53	29.76	82.31	993.77	43.84	12.52	6.20	2.34	1.01	
22	0.00	0.00	10.85	0.90	22.38	284.75	700.26	41.43	12.07	5.03	2.16	1.01	
23	0.00	0.00	5.03	0.60	14.83	143.52	587.83	38.36	10.85	4.15	2.16	4.36	
24	0.00	0.00	2.72	0.36	29.16	160.14	458.46	35.58	11.18	3.31	1.98	3.72	
25	0.00	4.36	1.35	0.26	117.70	203.43	441.80	34.21	21.84	3.31	1.81	2.72	
26	0.00	0.60	1.01	0.26	80.79	445.95	441.80	32.19	43.84	3.93	1.64	2.53	
27	0.00	0.26	0.80	0.36	51.56	757.72	433.54	30.97	32.86	3.52	1.47	2.16	
28	0.00	0.21	0.42	1.01	119.58	425.31	332.26	29.16	22.92	3.52	1.47	1.64	
29	0.00	0.16	0.31	1.24	102.92	284.75	260.43	28.57	18.24	3.52		1.24	
30	0.00	0.16	0.21	2.53	65.53	248.49	339.59	27.98	16.26	3.31		1.01	
31		0.12		902.37	127.20		734.59		14.83	3.31		1.01	
Total	0.00	8.64	179.84	1028.11	11001.52	5434.42	33243.94	4325.63	591.83	205.32	73.46	49.11	56141.82 Ton
Mean	0.00	0.28	5.99	33.16	354.89	181.15	1072.39	144.19	19.09	6.62	2.62	1.58	
Max	0.00	4.36	59.60	902.37	1421.70	757.72	8031.78	802.06	43.84	12.97	3.52	4.36	8031.78
Min	0.00	0.00	0.00	0.02	14.83	42.23	239.72	27.98	10.85	3.31	1.47	1.01	0.00

WATER YEAR 1992

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 Office, Chiang Mai.
Drainage Area	240 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1992
Actual Measurement	1992
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:08:17.52

LQS/LQS02DL/1

Station - Ban Muang Pok, K.A Wiang Haeng, Chiangmai, (P.65)
Stream - Mae Taeng
River - Ping
River System - Ping River

Royal Irrigation Department
Thailand
Hydrology Division
1.82827
QS = 3.3630 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	********	********	********	0.88	38.06	295.19	79.48	30.17	13.28	7.06	4.69	2.77	
2	********	********	********	0.88	357.67	102.45	76.42	28.69	13.28	7.06	4.69	2.77	
3	********	********	********	0.98	99.01	73.41	70.94	27.24	12.38	7.58	4.69	2.77	
4	********	********	********	0.98	41.44	68.51	63.77	25.83	12.38	7.06	4.69	2.77	
5	********	********	********	0.98	189.07	52.60	52.60	25.83	12.38	7.06	4.69	3.12	
6	********	********	********	0.98	390.94	52.60	48.61	24.46	12.38	5.13	4.69	2.77	
7	********	********	********	0.98	131.89	39.73	44.96	24.46	12.38	5.13	4.69	2.77	
8	********	********	********	1.20	120.45	46.77	43.19	24.46	11.51	5.59	4.69	2.45	
9	********	********	********	0.98	59.19	43.19	41.44	105.94	11.51	5.13	4.27	2.14	
10	********	********	********	0.98	50.48	43.19	46.77	61.46	11.51	5.59	4.27	2.45	
11	********	********	********	0.98	50.48	41.44	43.19	38.06	11.51	6.06	3.87	4.27	
12	********	********	********	0.98	34.80	33.22	41.44	34.80	11.51	6.06	3.49	4.27	
13	********	********	********	1.09	31.68	38.06	39.73	31.68	11.51	6.06	3.49	3.49	
14	********	********	********	1.32	39.73	52.60	39.73	30.17	12.38	6.06	3.49	3.49	
15	********	********	********	79.48	30.17	216.62	48.61	28.69	12.38	5.59	3.49	3.12	
16	********	********	********	76.42	31.68	927.27	46.77	27.24	12.38	5.13	3.49	3.12	
17	********	********	********	19.29	28.69	927.27	54.76	21.81	12.38	5.13	3.49	3.12	
18	********	********	********	10.66	21.81	979.67	50.48	19.29	6.55	5.13	3.49	2.77	
19	********	********	********	5.13	19.29	470.64	46.77	18.22	6.06	4.69	3.49	2.45	
20	********	********	********	3.87	18.22	222.34	44.96	16.16	6.06	4.69	3.49	2.14	
21	********	********	********	2.45	17.18	183.76	44.96	15.17	6.06	4.69	3.49	2.14	
22	********	********	********	2.14	14.22	143.79	46.77	14.22	5.59	4.69	3.49	1.84	
23	********	********	********	163.22	17.18	120.45	44.96	12.38	6.55	4.69	3.49	1.84	
24	********	********	********	139.77	24.46	120.45	43.19	12.38	189.07	4.69	3.87	1.84	
25	********	********	********	61.46	34.80	95.62	41.44	13.28	61.46	4.69	3.87	1.84	
26	********	********	********	168.25	46.77	89.00	48.61	16.16	18.22	4.69	3.49	2.14	
27	********	********	********	109.49	38.06	76.42	39.73	27.24	13.28	4.69	3.12	2.14	
28	********	********	1.20	38.06	34.80	70.94	36.41	16.16	12.38	5.13	2.77	1.84	
29	********	********	1.20	20.53	30.17	148.54	33.22	14.22	12.38	5.13		1.84	
30	********	********	0.98	14.22	24.46	99.01	31.68	13.28	10.66	4.69		1.84	
31		********		21.81	38.06		34.80		8.12	4.69		1.57	
Total	**********	**********	**********	950.44	2104.91	5874.75	1470.39	799.15	569.48	169.46	108.93	79.89	********* Ton
Mean	**********	**********	**********	30.66	67.90	195.82	47.43	26.64	18.37	5.47	3.89	2.58	
Max	**********	**********	1.20	168.25	390.94	979.67	79.48	105.94	189.07	7.58	4.69	4.27	979.67
Min	**********	**********	**********	0.88	14.22	33.22	31.68	12.38	5.59	4.69	2.77	1.57	*********

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:08:50.65

LQS/LQS02DL/1

Station - Ban Wang Man, Sam Ngao, Tak, (W.4A)
Stream - Wang
River - Wang
River System - Wang River

Royal Irrigation Department
Thailand
Hydrology Division 090693
1.44920
QS = 0.8307 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.95	1.35	0.00	0.00	0.00	9.31	1187.70	208.67	24.74	144.18	7.58	3.32	
2	1.79	1.35	0.00	0.00	0.00	8.56	1263.97	187.01	23.37	103.37	7.35	3.13	
3	1.79	1.35	0.00	0.00	5.32	8.31	1740.74	177.41	22.86	84.62	8.07	3.32	
4	1.79	1.35	0.00	0.00	9.57	9.57	1502.61	162.38	21.86	68.49	7.82	3.69	
5	1.95	1.64	0.00	0.00	10.61	13.65	1049.56	147.76	20.87	51.50	7.58	4.48	
6	2.11	1.50	0.00	0.00	26.83	75.69	739.92	133.59	20.38	43.08	7.35	5.97	
7	1.95	1.35	0.00	0.00	31.92	119.86	545.34	116.51	19.90	36.49	7.11	6.19	
8	1.79	1.08	0.00	0.00	32.67	106.61	411.69	95.42	19.42	30.44	6.88	5.75	
9	1.79	0.77	0.00	0.00	32.67	111.53	320.79	87.66	18.94	26.13	6.19	5.53	
10	1.95	0.66	0.00	0.00	34.18	86.14	253.78	79.37	18.47	26.13	5.97	5.75	
11	1.95	0.44	0.00	0.00	28.98	61.51	130.11	68.49	18.47	24.74	5.75	4.89	
12	1.79	0.30	0.00	0.00	33.42	39.04	55.88	59.24	18.47	24.74	5.53	4.89	
13	1.64	0.11	0.00	0.00	38.06	34.94	37.27	52.58	18.00	21.37	5.10	4.89	
14	1.79	0.03	0.00	0.00	42.06	45.14	25.43	47.23	17.53	19.42	4.89	4.69	
15	1.95	0.01	0.00	0.00	29.70	62.66	18.47	46.18	16.61	18.94	4.69	4.48	
16	1.95	0.00	0.00	0.00	21.37	98.58	15.70	45.14	15.70	18.00	4.48	4.89	
17	1.50	0.00	0.00	0.00	22.36	126.67	21.86	46.18	14.37	17.53	4.28	5.75	
18	1.64	0.00	0.00	0.00	28.26	133.59	173.61	41.04	13.94	17.53	4.08	5.97	
19	1.50	0.00	0.00	0.00	28.26	119.86	779.78	40.04	13.08	15.70	4.08	5.53	
20	1.35	0.00	0.00	0.00	26.13	108.24	1413.59	37.27	12.24	13.36	4.08	4.89	
21	1.50	0.00	0.00	0.00	24.74	114.84	1900.10	34.18	11.96	11.42	4.28	4.28	
22	1.35	0.00	0.00	0.00	22.36	236.59	1776.93	32.67	11.96	10.61	4.48	4.08	
23	1.50	0.00	0.00	0.00	18.47	867.11	1413.59	31.92	10.88	10.35	4.48	3.69	
24	1.50	0.00	0.00	0.00	14.37	1055.63	1086.10	29.70	11.15	9.83	4.08	2.95	
25	1.79	0.00	0.00	0.00	12.52	1135.42	855.71	30.44	12.80	9.31	3.69	2.78	
26	1.50	0.00	0.00	0.00	11.42	1167.16	623.87	29.70	68.49	8.81	3.50	2.60	
27	1.50	0.00	0.00	0.00	10.61	1049.56	462.47	29.70	424.94	8.56	3.50	2.43	
28	1.50	0.00	0.00	0.00	10.35	867.11	363.19	28.26	375.94	8.56	3.50	2.11	
29	1.50	0.00	0.00	0.00	9.31	784.81	315.47	27.54	344.32	8.07		1.95	
30	1.35	0.00	0.00	0.00	9.57	918.96	291.85	25.43	253.78	7.82		2.11	
31		0.00		0.00	9.57		246.37		188.94	7.82		2.11	
Total	50.91	13.29	0.00	0.00	635.66	9576.65	21023.45	2178.71	2084.38	906.92	150.37	129.09	36749.43 Ton
Mean	1.70	0.43	0.00	0.00	20.51	319.22	678.18	72.62	67.24	29.26	5.37	4.16	
Max	2.11	1.64	0.00	0.00	42.06	1167.16	1900.10	208.67	424.94	144.18	8.07	6.19	1900.10
Min	1.35	0.00	0.00	0.00	0.00	8.31	15.70	25.43	10.88	7.82	3.50	1.95	0.00

WATER YEAR 1992

YOM RIVER BASIN

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

Location	Lat. 18°35'03" N., Long. 100°09'17" E., on left bank about 1 kilometer downstream from Sop Ngao, Tambon Tao Poon, Amphoe Song, Phrae.
Drainage Area	5,410 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1983 - Cont'd
Actual Measurement	1983 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:09:26.70 LQS/LQS02DL/1

Station - Ban Ngao Sak, Song, Phrae, (Y.20)
Stream - Yom
River - Yom
River System - Yom River

Royal Irrigation Department
Thailand
Hydrology Division
2.63794
QS = 0.0264 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.1	0.1	0.0	0.1	3305.4	821.6	24777.8	101.8	11.0	26.8	1.3	0.5	
2	0.1	0.1	0.0	0.1	2710.7	910.2	10738.4	90.2	11.0	18.3	1.3	0.4	
3	0.1	0.1	0.0	0.1	1759.4	1266.3	21408.9	69.7	11.0	12.7	1.3	0.4	
4	0.1	0.1	0.4	0.1	606.1	2203.3	7301.9	55.0	10.3	9.6	1.3	0.4	
5	0.1	0.1	0.3	0.1	2398.5	1211.0	4009.4	44.8	10.3	7.6	1.3	0.4	
6	0.1	0.1	0.4	0.1	1130.8	606.1	1503.4	37.9	10.3	5.9	1.3	0.4	
7	0.1	0.1	1.4	0.1	336.4	588.5	1381.7	32.0	8.9	4.9	1.3	0.4	
8	0.1	0.1	9.6	0.1	388.0	226.8	1472.4	30.2	8.2	4.5	1.3	0.4	
9	0.1	0.1	3.2	0.1	127.5	163.1	779.4	26.8	8.2	4.1	1.1	0.4	
10	0.1	0.0	1.4	0.1	55.0	184.7	571.2	23.7	8.2	3.8	1.1	0.7	
11	0.1	0.0	1.4	0.2	57.8	170.1	679.8	26.8	7.0	3.5	1.0	1.3	
12	0.1	0.0	1.6	0.2	127.5	217.3	571.2	33.9	6.4	3.5	1.0	2.4	
13	0.1	0.0	11.8	0.3	109.9	136.9	324.3	28.5	5.4	3.2	1.0	3.2	
14	0.1	0.0	19.4	0.4	47.2	127.5	177.3	26.8	5.4	2.9	1.0	2.4	
15	0.1	0.0	3.2	0.8	25.2	336.4	226.8	23.7	4.9	2.9	1.0	2.0	
16	0.1	0.1	1.4	1.3	17.3	956.7	289.4	23.7	4.5	2.7	1.0	2.2	
17	0.1	0.2	1.0	2.7	13.5	521.3	8272.4	20.7	4.1	2.4	0.9	2.0	
18	0.1	0.1	0.7	3.2	10.3	348.9	91236.6	18.3	3.8	2.2	0.9	1.6	
19	0.1	0.1	0.4	2.2	8.2	642.3	34824.5	17.3	3.2	2.2	0.8	1.1	
20	0.1	0.2	0.4	1.7	7.0	821.6	10299.5	15.3	3.2	2.0	0.7	1.0	
21	0.1	0.1	0.2	1.1	5.4	980.5	3110.5	15.3	2.9	2.0	0.5	0.8	
22	0.1	0.1	0.2	0.8	4.5	1411.6	1411.6	15.3	2.7	2.2	0.7	0.6	
23	0.1	0.1	0.2	0.9	4.9	1323.2	933.3	16.3	2.7	2.0	0.8	0.6	
24	0.1	0.1	0.2	3.2	69.7	1294.6	1004.6	20.7	18.3	2.2	0.6	0.5	
25	0.1	0.1	0.1	9.6	256.9	1411.6	956.7	19.4	2932.3	2.0	0.5	0.4	
26	0.1	0.1	0.1	17.3	105.8	1323.2	554.3	13.5	2604.0	1.7	0.6	0.4	
27	0.1	0.1	0.1	11.0	200.0	2203.3	336.4	12.7	624.0	1.7	0.8	0.4	
28	0.1	0.1	0.2	8.2	267.4	6087.9	217.3	12.7	177.3	1.7	0.6	0.4	
29	0.1	0.1	0.2	55.0	2156.1	4647.0	143.2	13.5	94.0	1.4		0.4	
30	0.2	0.1	0.2	97.8	1411.6	12192.8	109.9	11.8	57.8	1.4		0.4	
31		0.1		1211.0	1238.4		97.8		37.9	1.4		0.4	
Total	3.1	2.7	59.7	1429.9	18962.4	45336.3	229721.9	898.3	6699.2	145.4	27.0	28.9	303314.8 Ton
Mean	0.1	0.1	2.0	46.1	611.7	1511.2	7410.4	29.9	216.1	4.7	1.0	0.9	
Max	0.2	0.2	19.4	1211.0	3305.4	12192.8	91236.6	101.8	2932.3	26.8	1.3	3.2	91236.6
Min	0.1	0.0	0.0	0.1	4.5	127.5	97.8	11.8	2.7	1.4	0.5	0.4	0.0

WATER YEAR 1992

NAN RIVER BASIN

Nan River at Nan, Nan (N.1)

Location	Lat. 18°-46'-23" N., Long. 100°-46'-51" E., on right bank infront of forestry office, Amphoe Muang, Nan.
Drainage Area	4,609 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1982 - Cont'd
Actual Measurement	1982 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:09:36.83

LQS/LQS02DL/1

Station - Forestry Offiec, Muang, Nan, (N.1)
Stream - Nan
River - Nan
River System - Nan River

Royal Irrigation Department
Thailand
Hydrology Division
1.93613
QS = 0.0937 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.54	3.51	4.64	9.73	5459.66	1543.54	1187.09	228.92	105.67	82.62	31.12	10.61	
2	2.54	3.51	3.78	9.14	3882.20	1381.21	1054.55	204.36	100.84	70.11	28.62	9.87	
3	2.54	3.78	3.01	8.57	2420.63	1232.95	1012.05	175.55	96.12	66.16	26.21	10.61	
4	2.54	3.78	2.77	8.01	1571.44	991.13	852.04	175.55	91.51	58.59	23.91	10.61	
5	2.54	3.26	3.01	7.48	1164.47	799.26	852.04	168.68	91.51	54.97	22.35	10.61	
6	2.54	2.77	4.64	7.48	4536.02	782.03	748.11	161.94	91.51	51.47	22.35	9.16	
7	2.32	2.54	5.98	6.46	9586.86	5525.65	682.46	155.34	87.01	45.15	20.84	9.16	
8	2.32	2.32	5.98	6.96	3928.83	1714.58	589.46	155.34	82.62	42.14	20.84	9.16	
9	2.32	2.11	7.48	9.73	2133.40	1187.09	489.30	155.34	78.34	42.14	20.84	9.16	
10	2.54	2.11	12.50	32.79	1714.58	4479.39	475.73	189.69	74.17	39.24	20.84	131.46	
11	2.54	1.75	14.02	117.37	2030.21	2924.69	545.43	228.92	70.11	36.43	19.38	91.51	
12	2.11	1.75	14.80	117.37	1407.66	2098.73	449.14	182.55	66.16	39.24	19.38	51.47	
13	2.11	2.32	22.30	87.01	991.13	1256.19	410.64	161.94	62.32	39.24	19.38	82.62	
14	2.32	2.32	26.46	74.17	991.13	991.13	387.94	155.34	58.59	36.43	17.97	82.62	
15	2.32	2.32	29.43	1336.43	748.11	949.90	355.06	155.34	58.59	39.24	16.62	51.47	
16	1.93	2.11	32.79	487.02	782.03	1012.05	333.92	155.34	54.97	39.24	16.62	33.72	
17	2.32	2.32	20.99	232.08	574.60	1279.65	449.14	148.87	51.47	39.24	15.31	23.91	
18	4.64	3.51	14.02	117.37	489.30	1515.88	1012.05	148.87	48.26	39.24	15.31	20.84	
19	7.48	2.32	10.39	74.17	559.92	4423.09	1033.20	142.53	51.47	42.14	15.31	17.97	
20	5.06	2.11	11.78	51.47	462.34	2532.86	764.98	142.53	48.26	45.15	15.31	16.62	
21	3.78	2.11	14.02	40.59	365.86	1833.42	545.43	142.53	45.15	51.47	14.06	15.31	
22	3.26	2.11	14.02	76.94	313.41	1863.73	436.12	142.53	45.15	51.47	12.86	15.31	
23	2.77	2.11	17.29	22258.72	619.72	1543.54	376.82	142.53	42.14	51.47	12.86	15.31	
24	2.77	2.11	36.59	10605.05	799.26	1407.66	365.86	136.94	62.32	48.26	11.71	15.31	
25	2.32	2.11	25.04	3835.84	970.41	1685.47	313.41	131.46	3172.84	45.15	11.71	14.06	
26	2.11	2.11	16.44	2310.87	1896.48	1488.46	293.53	126.08	1279.65	39.24	11.71	14.06	
27	2.11	2.32	14.02	3563.35	1571.44	1232.95	274.28	126.08	387.94	36.43	11.71	14.06	
28	3.01	2.11	12.50	5998.26	2168.34	1164.47	246.59	115.66	204.36	36.43	11.71	14.06	
29	3.51	3.01	11.08	3789.75	1599.59	1434.35	220.32	115.66	142.53	36.43		12.86	
30	3.51	9.73	10.39	3006.32	1407.66	1232.95	204.36	110.61	110.61	36.43		12.86	
31		8.01		1962.79	2532.86		255.66		91.51	31.12		12.86	
Total	86.72	90.36	422.16	60249.29	59679.55	53508.00	17216.71	4683.02	7053.70	1412.08	506.84	849.22	205757.67 Ton
Mean	2.89	2.91	14.07	1943.53	1925.15	1783.60	555.38	156.10	227.54	45.55	18.10	27.39	
Max	7.48	9.73	36.59	22258.72	9586.86	5525.65	1187.09	228.92	3172.84	82.62	31.12	131.46	22258.72
Min	1.93	1.75	2.77	6.46	313.41	782.03	204.36	110.61	42.14	31.12	11.71	9.16	1.75

WATER YEAR 1992

CHAO PHRAYA RIVER BASIN

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

Location	Lat. 15°-40'-15" N., Long. 100°-06'-45" E., on left bank at Khai Chira Prawat about 3 kilometers downstream from Dechatiwong Bridge, Amphoe Muang, Nakhon Sawan.
Drainage Area	110,569 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.P - 61
Period of Available Records	1960 - Cont'd
Actual Measurement	1962 - 1965, 1972, 1974 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:10:10.46

LQS/LQS02DL/1

Station - Nakhon Sawan, Muang, Nakhon Sawan, (C.2)
Stream - Chao Phraya
River - Chao Phraya
River System - Chao Phraya River

Royal Irrigation Department
Thailand
Hydrology Division 270593
1.07530
QS = 10.5035 QW

Water Year - 1992

Suspended Sediment, in Hundred Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	48.45	49.07	22.53	20.48	23.67	67.23	173.66	136.33	78.55	46.27	30.97	53.78		
2	40.14	52.52	23.87	19.98	36.84	67.23	173.66	156.07	75.91	49.07	30.16	51.89		
3	44.09	55.99	23.09	18.82	58.83	63.77	177.57	150.84	71.66	50.64	26.19	42.23		
4	50.64	56.62	20.81	17.83	87.50	59.46	184.56	140.74	78.89	46.27	24.43	34.31		
5	53.78	53.46	19.32	16.85	103.57	54.72	194.75	130.78	91.14	41.05	28.29	38.34		
6	52.84	51.89	21.83	16.51	105.07	50.64	201.49	122.11	97.16	34.31	35.14	46.27		
7	50.64	51.89	24.81	17.01	109.11	46.27	202.99	115.83	104.08	33.19	38.94	50.01		
8	46.58	52.21	25.01	19.32	120.22	39.83	179.40	112.36	109.62	34.87	40.43	51.27		
9	36.26	50.64	24.05	18.98	136.46	36.55	174.09	107.15	97.64	36.84	40.14	54.09		
10	36.26	52.21	23.49	16.19	147.97	36.84	166.46	103.48	93.45	34.58	34.31	54.41		
11	40.74	51.27	21.15	17.01	154.23	37.75	156.07	103.04	102.57	31.81	26.89	45.95		
12	45.95	50.33	19.15	23.49	150.45	39.54	148.31	99.09	102.57	30.16	30.16	49.07		
13	50.33	46.58	23.09	24.05	146.11	41.65	141.99	93.76	93.00	28.05	45.33	55.35		
14	48.14	38.65	27.59	19.98	145.55	42.54	126.64	89.78	84.90	26.42	55.35	59.46		
15	42.23	38.04	25.01	16.51	151.07	42.23	113.84	87.54	83.60	23.87	60.41	60.10		
16	35.99	40.74	21.99	13.01	150.45	40.43	103.48	84.14	72.66	27.12	55.35	57.25		
17	32.08	41.94	19.49	11.25	144.41	38.04	104.40	81.89	59.46	29.36	41.34	49.70		
18	31.81	36.84	20.65	10.23	137.04	38.04	123.76	80.20	61.37	27.35	29.63	40.43		
19	38.04	35.14	21.48	10.37	134.21	40.74	194.79	78.28	66.20	27.82	32.64	46.27		
20	47.51	30.97	21.83	11.11	128.57	49.07	245.25	78.55	62.41	25.77	38.94	55.67		
21	50.95	28.55	22.91	13.46	120.78	62.74	249.53	81.60	57.25	23.09	43.16	61.05		
22	48.45	29.89	22.35	16.51	111.13	79.30	235.70	83.58	50.01	21.32	47.82	64.12		
23	42.85	32.91	21.99	16.03	92.54	95.32	215.87	86.69	43.47	27.35	48.45	64.46		
24	45.33	33.47	21.32	14.39	79.71	103.57	204.62	86.13	36.84	36.26	39.83	57.25		
25	47.82	32.64	20.99	12.57	69.73	109.11	192.48	81.33	34.87	39.83	30.70	46.89		
26	50.01	29.36	20.16	13.01	65.17	118.56	182.46	76.66	43.47	30.16	37.15	49.70		
27	53.46	28.29	20.32	12.87	62.06	137.60	169.92	76.41	48.14	25.01	45.95	51.58		
28	53.46	24.61	20.65	14.55	56.62	154.87	160.22	80.49	51.58	20.99	50.95	53.15		
29	47.20	22.53	20.16	16.19	54.72	168.44	152.74	80.76	45.95	21.15		54.72		
30	41.94	22.15	19.65	17.83	59.46	174.30	137.60	79.64	38.65	27.12		55.04		
31		22.71		18.98	64.12		132.62		37.75	29.89		51.27		
Total	1353.97	1244.11	660.74	505.37	3207.37	2136.38	5320.92	2965.25	2174.82	986.99	1089.05	1605.08	23250.05	100To
Mean	45.13	40.13	22.02	16.30	103.46	71.21	171.64	98.84	70.16	31.84	38.89	51.78		
Max	53.78	56.62	27.59	24.05	154.23	174.30	249.53	156.07	109.62	50.64	60.41	64.46	249.53	
Min	31.81	22.15	19.15	10.23	23.67	36.55	103.48	76.41	34.87	20.99	24.43	34.31	10.23	

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:09:45.75 LQS/LQS02DL/1

Station - Seri Prachathipatai Bridge, Muang, Ubon Ratchathani, (M.7)
Stream - Mun
River - Mun
River System - Mun

Royal Irrigation Department
Thailand
Hydrology Division 050693
1.26097
QS = 0.6748 QW

Water Year - 1992

Suspended Sediment, in Hundred Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.58	1.82	3.39	9.54	22.49	92.68	88.30	15.30	3.53	1.76	1.24	1.29	
2	2.78	1.70	3.39	8.63	26.64	94.15	84.03	16.05	3.39	1.88	1.24	1.29	
3	2.85	1.70	3.53	7.74	30.09	98.22	79.77	16.20	3.12	2.01	1.24	1.29	
4	2.85	1.64	3.67	7.20	33.84	104.57	77.49	15.59	2.78	2.07	1.29	1.35	
5	2.85	1.64	4.32	6.66	37.68	107.59	76.52	14.87	2.58	2.07	1.29	1.35	
6	2.65	1.58	4.51	6.14	38.14	109.48	75.23	14.03	2.52	2.07	1.29	1.35	
7	2.39	1.58	4.32	5.62	37.91	111.00	73.95	13.20	2.45	2.01	1.29	1.35	
8	2.26	1.58	4.22	5.21	37.68	111.76	72.03	12.24	2.39	2.01	1.24	1.35	
9	2.19	1.58	3.93	5.51	37.45	116.36	69.80	11.70	2.39	1.95	1.24	1.35	
10	2.19	1.58	4.81	8.30	38.14	117.90	66.02	11.03	2.32	1.82	1.24	1.29	
11	2.13	1.58	7.20	9.08	39.75	117.51	62.72	10.25	2.26	1.76	1.24	1.29	
12	2.13	1.64	9.65	9.54	41.14	115.59	57.48	9.42	2.19	1.70	1.24	1.29	
13	2.13	1.70	9.88	10.11	43.27	114.82	52.43	8.86	2.19	1.58	1.24	1.29	
14	2.07	1.82	11.17	11.43	44.84	115.59	46.95	8.41	2.19	1.52	1.18	1.29	
15	2.07	1.95	11.43	12.93	49.11	114.06	40.67	7.96	2.19	1.46	1.13	1.29	
16	2.13	2.13	11.30	13.89	56.35	107.96	36.54	7.52	2.19	1.41	1.13	1.29	
17	2.13	2.39	11.30	14.17	60.95	104.19	31.54	7.20	2.19	1.35	1.13	1.29	
18	2.19	2.58	11.30	14.03	63.31	102.69	28.66	6.88	2.13	1.35	1.13	1.29	
19	2.26	2.65	11.97	13.20	63.91	99.33	25.26	6.66	2.13	1.35	1.13	1.35	
20	2.26	2.78	12.65	12.24	63.91	97.48	22.67	6.14	2.07	1.35	1.13	1.41	
21	2.19	2.85	14.17	11.17	62.72	98.96	20.32	5.51	2.01	1.35	1.13	1.41	
22	2.19	2.85	14.87	10.51	61.24	100.08	18.39	5.01	2.01	1.24	1.13	1.46	
23	2.13	2.98	14.59	10.51	60.36	104.19	16.82	4.61	2.01	1.24	1.13	1.46	
24	2.13	2.91	14.31	10.77	60.95	111.00	15.89	4.32	2.01	1.18	1.13	1.46	
25	2.07	2.85	13.62	11.70	61.54	111.76	14.59	4.32	1.95	1.08	1.18	1.46	
26	2.01	2.98	12.24	14.59	62.72	110.62	13.48	4.22	1.88	1.08	1.18	1.41	
27	1.95	3.05	11.84	16.82	71.71	107.96	13.20	4.03	1.82	1.08	1.24	1.24	
28	1.88	3.26	11.43	17.76	82.71	104.19	12.93	3.84	1.82	1.08	1.24	1.24	
29	1.88	3.39	11.03	17.29	86.85	100.08	12.79	3.84	1.76	1.08		1.24	
30	1.82	3.39	10.25	17.45	89.76	94.52	13.48	3.67	1.76	1.08		1.24	
31		3.46		19.35	91.22		14.59		1.76	1.13		1.24	
Total	67.34	71.59	276.29	349.09	1658.38	3196.29	1334.54	262.88	69.99	47.10	33.64	41.20	7408.33 100To
Mean	2.24	2.31	9.21	11.26	53.50	106.54	43.05	8.76	2.26	1.52	1.20	1.33	
Max	2.85	3.46	14.87	19.35	91.22	117.90	88.30	16.20	3.53	2.07	1.29	1.46	117.90
Min	1.82	1.58	3.39	5.21	22.49	92.68	12.79	3.67	1.76	1.08	1.13	1.24	1.08

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:09:55.28

LQS/LQS02DL/1

Station - Det Udom, Det Udom, Ubon Ratchathani, (M.80)
Stream - Lam Dom Yai
River - Mun
River System - Mun

Royal Irrigation Department
Thailand
Hydrology Division
1.64435
QS = 0.3026 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.41	0.00	0.41	2.96	164.06	4164.61	1202.88	810.27	32.89	2.49	0.66	1.28	
2	0.21	0.07	0.07	2.49	183.25	2804.06	1553.44	684.46	31.31	2.49	0.66	1.28	
3	0.21	0.00	0.07	2.49	216.17	3618.28	2008.13	497.38	31.31	2.96	0.66	1.28	
4	0.21	0.00	0.07	2.05	200.71	3298.82	1831.34	345.87	29.76	2.96	0.66	1.64	
5	0.07	0.00	0.21	2.05	166.42	2610.56	2993.79	256.75	29.02	2.96	0.66	2.05	
6	0.07	0.00	0.41	1.64	159.40	1861.62	3002.94	200.71	28.25	2.96	0.66	1.64	
7	0.07	0.07	0.41	1.28	190.65	1407.65	2875.76	159.40	19.84	2.96	0.66	1.64	
8	0.07	0.21	0.41	1.28	109.64	1102.18	2697.84	130.38	12.65	2.96	0.66	2.05	
9	0.00	0.00	0.41	1.28	65.10	1065.31	2372.19	111.65	6.79	2.96	0.95	2.05	
10	0.00	0.21	0.21	0.66	52.15	877.11	1869.23	90.33	2.46	2.49	0.95	1.64	
11	0.07	0.00	0.21	0.66	51.18	693.72	1869.23	75.96	2.49	2.49	0.95	1.64	
12	0.07	0.00	0.21	0.95	92.20	577.16	1808.75	67.20	5.76	2.49	0.66	1.64	
13	0.07	0.00	2.49	0.95	374.60	522.07	1307.00	63.03	5.76	2.49	0.66	1.64	
14	0.07	0.21	0.66	1.28	652.42	719.18	957.68	60.99	6.40	2.49	0.95	2.05	
15	0.00	0.21	0.66	0.95	517.93	963.54	740.23	55.02	5.14	2.49	1.28	1.64	
16	0.00	0.66	2.49	1.28	1177.38	871.46	590.18	52.15	5.14	2.49	1.28	2.49	
17	0.00	0.41	2.96	1.28	2015.96	647.90	427.87	51.18	3.99	2.49	1.28	2.49	
18	0.00	0.07	2.96	1.64	2264.59	612.13	345.87	50.25	3.99	2.05	1.28	2.49	
19	0.00	0.21	2.49	1.28	2330.57	698.37	302.99	47.48	3.99	1.64	1.28	2.05	
20	0.00	0.21	3.46	1.28	2305.74	934.38	256.75	47.48	3.99	1.64	1.28	2.96	
21	0.00	0.07	2.96	1.28	2023.80	2063.19	218.79	44.73	3.46	1.64	1.28	5.14	
22	0.07	0.07	3.46	0.66	1434.99	3104.38	195.66	43.85	3.99	1.28	1.28	3.99	
23	0.00	0.21	3.99	1.28	1497.24	3457.10	173.55	43.85	3.46	1.28	1.28	3.99	
24	0.00	0.00	4.55	2.96	2000.31	3435.83	147.97	42.08	3.99	1.28	1.28	2.96	
25	0.00	0.00	5.14	11.22	2355.51	3542.71	134.69	39.50	3.99	1.28	1.28	2.96	
26	0.00	0.00	3.46	14.46	2804.06	3760.29	150.23	37.80	2.96	1.28	1.28	2.96	
27	0.00	0.07	3.46	20.54	3446.46	3596.63	134.69	36.95	2.96	1.28	1.28	2.49	
28	0.00	0.00	2.49	39.33	3694.48	2993.79	113.67	35.30	2.96	1.28	1.28	2.49	
29	0.00	0.00	2.49	75.96	3772.30	2008.13	109.64	34.50	2.96	0.95		2.49	
30	0.00	0.21	2.49	698.37	3966.56	1254.51	134.69	33.67	2.96	0.95		2.49	
31		0.21		279.49	4214.72		449.42		2.96	0.66		2.49	
Total	1.67	3.38	55.76	1175.28	44500.55	59266.67	32977.09	4250.17	307.58	64.11	28.32	72.09	142702.67 Ton
Mean	0.06	0.11	1.86	37.91	1435.50	1975.56	1063.78	141.67	9.92	2.07	1.01	2.33	
Max	0.41	0.66	5.14	698.37	4214.72	4164.61	3002.94	810.27	32.89	2.96	1.28	5.14	4214.72
Min	0.00	0.00	0.07	0.66	51.18	522.07	109.64	33.67	2.46	0.66	0.66	1.28	0.00

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:11:19.82 LQS/LQS02DL/1

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
1.60469
QS = 1.4173 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	8.35	314.90	117.03	237.11	11.47	0.11	0.05	0.00	0.00	
2	0.00	0.00	0.00	7.14	148.19	74.39	183.46	7.74	0.09	0.05	0.00	0.00	
3	0.00	0.00	0.00	12.43	90.14	237.11	171.39	5.47	0.07	0.05	0.00	0.00	
4	0.00	0.00	0.00	24.99	71.38	517.46	183.46	4.95	0.07	0.05	0.00	0.00	
5	0.00	0.00	0.00	17.68	62.63	463.93	148.19	3.61	0.07	0.04	0.00	0.00	
6	0.00	0.00	0.00	11.47	45.11	306.58	97.98	3.26	0.07	0.04	0.00	0.00	
7	0.00	0.00	0.00	7.14	65.50	395.02	71.38	2.60	0.07	0.03	0.00	0.00	
8	0.00	0.00	0.00	7.14	42.79	177.39	54.86	2.29	0.07	0.02	0.00	0.00	
9	0.00	0.00	0.00	21.60	32.33	117.03	47.48	1.72	0.07	0.02	0.00	0.00	
10	0.00	0.00	0.00	21.60	26.76	83.70	42.79	0.99	0.07	0.02	0.00	0.00	
11	0.00	0.00	0.01	11.47	189.61	65.50	40.51	0.89	0.07	0.02	0.00	0.00	
12	0.00	0.00	0.01	7.14	117.03	52.35	34.27	0.89	0.07	0.02	0.00	0.00	
13	0.00	0.00	0.00	4.95	77.45	62.63	34.27	0.89	0.07	0.02	0.00	0.00	
14	0.00	0.00	0.01	60.00	54.86	159.63	30.43	0.89	0.06	0.02	0.00	0.00	
15	0.00	0.00	0.05	34.27	47.48	107.35	23.27	0.80	0.06	0.02	0.00	0.01	
16	0.00	0.00	0.09	18.81	38.28	83.70	54.86	0.71	0.05	0.01	0.00	0.00	
17	0.00	0.00	0.54	9.63	49.90	137.33	77.45	0.62	0.04	0.01	0.00	0.00	
18	0.00	0.00	0.62	7.14	259.09	77.45	49.90	0.54	0.04	0.01	0.00	0.00	
19	0.00	0.00	0.62	4.95	112.15	65.50	36.26	0.47	0.04	0.01	0.00	0.00	
20	0.00	0.00	0.89	3.26	86.90	71.38	28.57	0.47	0.04	0.01	0.00	0.00	
21	0.00	0.00	4.95	3.26	65.50	244.35	23.27	0.33	0.04	0.01	0.00	0.01	
22	0.00	0.00	3.26	3.26	52.35	331.80	19.97	0.26	0.03	0.01	0.00	0.02	
23	0.00	0.00	2.00	4.45	42.79	298.34	16.58	0.26	0.03	0.01	0.00	0.02	
24	0.00	0.00	0.80	12.43	40.51	290.19	14.45	0.26	0.04	0.01	0.00	0.02	
25	0.00	0.00	6.57	38.28	52.35	414.17	11.47	0.26	0.04	0.01	0.00	0.01	
26	0.00	0.00	117.03	165.47	121.99	251.68	9.63	0.26	0.05	0.01	0.00	0.01	
27	0.00	0.00	11.47	357.76	244.35	189.61	8.98	0.18	0.05	0.01	0.00	0.01	
28	0.00	0.00	4.45	90.14	127.03	121.99	7.74	0.16	0.06	0.01	0.00	0.01	
29	0.00	0.00	2.60	183.46	107.35	202.14	7.14	0.14	0.06	0.01		0.00	
30	0.00	0.00	4.95	681.08	86.90	208.97	7.74	0.14	0.07	0.00		0.00	
31		0.00		681.08	68.41		8.98		0.05	0.00		0.00	
Total	0.00	0.00	160.92	2521.83	2942.01	5925.70	1783.84	53.52	1.82	0.61	0.00	0.12	13390.37 Ton
Mean	0.00	0.00	5.36	81.35	94.90	197.52	57.54	1.78	0.06	0.02	0.00	0.00	
Max	0.00	0.00	117.03	681.08	314.90	517.46	237.11	11.47	0.11	0.05	0.00	0.02	681.08
Min	0.00	0.00	0.00	3.26	26.76	52.35	7.14	0.14	0.03	0.00	0.00	0.00	0.00

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

Prachin Buri River at Kabin Buri, Prachin Buri (KGT.3)

Location	Lat. 13°-59'-05" N., Long. 101°-42'-32" E., on left bank infront of Amphoe Kabin Buri office and about 500 meters downstream from the confluence of Lam Prong and Lam Hanuman, Amphoe Kabin Buri, Prachin Buri.
Drainage Area	7,502 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1964 - Cont'd
Actual Measurement	1966 - 1968, 1970 - 1972, 1982 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:10:25.24

LQS/LQS02DL/1

Station - A.Kabin Buri, Kabin Buri, Prachin Buri, (KGT.3)
Stream - Prachin Buri
River - Prachin Buri
River System - Prachin Buri River

Royal Irrigation Department
Thailand
Hydrology Division
1.28184
QS = 3.4933 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.57	2.97	29.05	47.66	2032.30	9173.75	1590.10	600.55	66.50	16.45	0.14	0.00	
2	5.57	2.62	22.39	44.66	2094.23	11471.77	1539.70	1152.22	73.08	14.10	0.00	0.00	
3	5.18	2.29	18.88	61.67	1529.81	11172.50	1921.87	2308.15	71.42	13.37	0.14	0.00	
4	5.18	1.97	14.90	73.08	1500.19	10270.28	1897.52	2812.55	68.14	13.37	0.00	0.00	
5	4.41	1.36	14.90	58.49	1631.49	7607.30	1610.77	2032.30	64.88	13.37	0.00	0.00	
6	4.04	1.66	37.27	49.17	1500.19	4822.67	2032.30	1203.91	63.27	11.89	1.08	0.00	
7	3.67	2.29	12.66	50.70	1310.24	3153.22	2069.41	887.68	71.42	11.19	1.08	0.00	
8	3.32	3.67	11.19	39.70	1045.20	2321.04	1641.88	658.06	71.42	9.04	0.14	0.00	
9	3.32	6.38	10.44	32.52	1101.52	1569.49	1195.35	514.24	73.08	8.39	0.00	0.00	
10	3.32	5.57	9.71	32.52	1273.60	1230.03	958.03	458.97	66.50	6.38	0.00	0.00	
11	3.32	5.57	10.44	30.20	1178.09	1077.30	806.67	354.66	74.74	6.38	0.00	0.00	
12	2.97	4.79	69.77	30.20	1061.22	894.65	832.99	307.88	92.65	5.97	0.00	0.00	
13	2.97	4.79	69.77	25.67	782.45	693.12	950.19	268.08	96.81	5.18	0.00	0.00	
14	2.97	5.18	111.64	32.52	716.71	535.27	950.19	236.53	90.63	4.41	0.00	0.00	
15	2.97	4.41	92.65	32.52	583.52	488.22	965.89	217.14	84.45	4.04	0.00	0.00	
16	2.62	37.27	68.14	66.50	454.39	409.20	1569.49	198.34	73.08	3.67	0.00	0.00	
17	2.62	36.07	53.79	86.44	409.20	422.65	6155.52	179.92	66.50	2.62	0.00	0.00	
18	2.62	176.95	47.66	76.42	404.74	334.99	8589.53	165.46	64.88	2.62	0.00	0.00	
19	2.62	73.08	47.66	66.50	561.81	285.88	7813.45	146.67	53.79	3.67	0.00	0.00	
20	3.32	47.66	52.24	64.88	973.76	545.85	6909.89	141.40	50.70	1.97	0.00	0.00	
21	4.04	32.52	149.33	60.07	1186.63	880.88	5769.81	125.83	40.93	0.81	0.00	0.00	
22	4.41	25.67	472.75	42.16	989.54	908.47	4069.05	125.83	34.88	1.66	0.00	0.00	
23	4.04	23.47	282.35	31.35	800.60	1029.23	2703.82	111.64	31.35	1.66	0.00	0.00	
24	3.67	22.39	154.66	31.35	1291.64	1061.22	1885.37	96.81	25.67	1.36	0.00	0.00	
25	4.41	29.05	130.98	31.35	2119.11	1203.91	1310.24	90.63	26.79	1.66	0.00	0.00	
26	4.04	31.35	109.54	37.27	3136.23	2257.12	989.54	84.45	24.57	1.36	0.00	0.00	
27	3.67	38.48	84.45	71.42	3759.99	2765.84	788.49	84.45	21.32	1.36	0.00	0.00	
28	3.32	52.24	74.74	179.92	5529.78	2144.06	646.47	86.44	19.67	1.08	0.00	0.00	
29	3.32	44.66	68.14	220.36	7198.69	1641.88	545.85	76.42	18.88	0.56		0.00	
30	2.97	33.69	56.91	846.59	9396.10	1662.70	488.22	69.77	18.04	0.33		0.00	
31		32.52		1610.77	11172.50		449.83		18.04	0.14		0.00	
Total	110.47	792.59	2389.00	4164.63	68725.48	84034.50	71647.43	15796.98	1718.08	170.06	2.58	0.00	249551.81 Ton
Mean	3.68	25.57	79.63	134.34	2216.95	2801.15	2311.21	526.57	55.42	5.49	0.09	0.00	
Max	5.57	176.95	472.75	1610.77	11172.50	11471.77	8589.53	2812.55	96.81	16.45	1.08	0.00	11471.77
Min	2.62	1.36	9.71	25.67	404.74	285.88	449.83	69.77	18.04	0.14	0.00	0.00	0.00

WATER YEAR 1992

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (KGT.10)

Location	Lat. 13°-48'-29" N., Long. 102°-03'-35" E., on left bank near Saha Charoen Sawmill, Ban Wang Khian, Amphoe Sa Kaeo, Prachin Buri.
Drainage Area	2,523 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1967 - Cont'd
Actual Measurement	1969 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:10:36.21 LQS/LQS02DL/1

Station - Ban Wang Khian, A.Muang, Sa Kaeo, (KGT.10)
Stream - Khlong Phra Sathung
River - Khlong Phra Prong
River System - Prachin Buri River

Royal Irrigation Department
Thailand
Hydrology Division
1.44197
QS = 4.3515 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.69	1.00	1.08	27.37	1328.41	10458.26	314.44	2147.71	21.73	9.35	0.00	0.00	
2	1.56	10.16	5.66	37.82	1096.34	6854.11	190.16	6020.26	21.21	10.16	0.00	0.00	
3	1.42	6.35	4.23	21.73	1226.02	2274.37	233.06	5944.39	20.20	10.57	0.00	0.00	
4	1.29	4.73	3.27	19.21	2317.22	913.16	602.81	1787.01	20.71	9.35	0.00	0.00	
5	1.16	3.74	2.82	41.78	1405.17	635.79	522.63	1149.00	22.87	9.35	0.00	0.00	
6	1.29	3.04	2.82	24.13	987.71	645.65	392.63	852.41	21.21	8.96	0.00	0.00	
7	1.16	2.82	2.29	14.46	962.66	462.75	344.93	454.38	20.71	8.19	0.00	0.00	
8	1.16	2.60	6.00	17.74	1485.49	311.19	258.33	307.94	18.22	7.81	0.00	0.00	
9	1.08	2.44	40.78	12.25	1585.50	244.19	198.00	238.60	17.74	6.71	0.00	0.00	
10	1.16	2.60	108.43	10.57	571.22	244.19	135.60	178.10	17.26	5.32	0.00	0.00	
11	1.29	2.44	60.43	7.81	227.55	264.05	157.92	135.60	16.31	4.48	0.00	0.00	
12	1.42	3.27	288.68	6.35	127.75	155.84	203.28	106.76	15.38	3.50	0.00	0.00	
13	1.69	3.27	143.60	7.81	115.22	116.94	203.28	92.03	14.46	3.50	0.00	0.00	
14	1.84	17.26	67.58	14.01	79.52	95.24	216.66	79.52	14.46	3.98	0.00	0.00	
15	1.42	24.77	37.82	60.43	129.70	77.99	858.43	69.04	14.01	3.74	0.00	0.00	
16	1.00	28.04	26.06	64.69	160.00	48.20	3453.68	54.89	14.01	3.27	0.00	0.00	
17	1.00	30.28	25.41	31.89	103.43	36.01	4985.05	39.79	14.01	3.27	0.00	0.00	
18	1.00	22.24	32.70	43.80	155.84	101.77	5887.69	46.89	13.56	3.04	0.00	0.00	
19	0.92	10.98	19.70	48.20	230.30	141.59	5588.09	45.85	13.12	3.04	0.00	0.00	
20	0.84	6.71	11.82	26.06	526.99	129.70	3118.90	52.18	11.82	2.82	0.00	0.00	
21	1.56	4.99	10.57	15.84	544.55	103.43	1226.02	46.89	10.57	2.60	0.00	0.00	
22	1.42	8.19	14.46	18.71	244.19	123.88	655.55	36.85	10.16	2.60	0.00	0.00	
23	1.16	10.57	34.34	10.98	434.44	151.73	411.47	34.34	8.19	2.60	0.00	0.00	
24	1.16	18.22	26.71	10.57	1750.61	327.57	269.81	34.34	6.71	2.82	0.00	0.00	
25	1.29	32.70	19.21	8.57	1732.50	222.08	192.76	36.85	7.44	2.82	0.00	0.00	
26	1.29	63.26	35.17	7.81	1879.00	168.78	153.78	34.34	7.44	2.82	0.00	0.00	
27	1.29	38.80	32.70	7.81	3053.21	103.43	129.70	28.71	8.19	2.60	0.00	0.00	
28	1.29	19.70	22.87	6.71	6307.36	137.59	103.43	26.06	8.96	3.50	0.00	0.00	
29	1.16	17.26	17.26	34.34	8821.24	178.10	82.59	24.13	10.57	0.00		0.00	
30	1.00	11.82	17.74	1298.08	10225.80	334.20	67.58	24.13	9.35	0.00		0.00	
31		8.57		2535.12	10588.10		115.22		9.35	0.00		0.00	
Total	38.01	422.82	1122.21	4492.65	60403.04	26061.78	31273.48	20128.99	439.93	142.77	0.00	0.00	144525.69 Ton
Mean	1.27	13.64	37.41	144.92	1948.49	868.73	1008.82	670.97	14.19	4.61	0.00	0.00	
Max	1.84	63.26	288.68	2535.12	10588.10	10458.26	5887.69	6020.26	22.87	10.57	0.00	0.00	10588.10
Min	0.84	1.00	1.08	6.35	79.52	36.01	67.58	24.13	6.71	0.00	0.00	0.00	0.00

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:10:46.47

LQS/LQS02DL/1

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
1.23228
QS = 3.2875 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.10	0.15	3.37	14.58	988.19	92.12	60.09	6.32	0.81	0.29	0.08	
2	0.15	0.06	0.17	2.89	19.21	1031.12	77.47	87.21	6.32	1.00	0.15	0.06	
3	0.15	0.15	0.27	1.82	21.79	890.45	75.05	144.97	6.55	0.93	0.24	0.04	
4	0.24	0.24	0.19	1.26	18.82	478.55	108.24	121.77	7.06	0.93	0.19	0.03	
5	0.17	0.17	0.15	0.81	13.84	206.12	196.27	67.89	6.55	0.87	0.15	0.03	
6	0.15	0.15	0.10	0.63	9.37	125.39	221.78	52.69	7.34	1.00	0.17	0.01	
7	0.15	0.12	0.10	0.54	6.09	90.15	174.01	43.75	7.06	0.93	0.17	0.00	
8	0.15	0.34	0.08	0.48	7.34	71.06	127.80	37.89	7.06	0.81	0.15	0.01	
9	0.10	0.19	0.10	0.45	9.97	54.06	104.10	33.32	7.06	0.65	0.15	0.03	
10	0.08	0.12	0.08	0.45	6.78	42.56	82.72	27.77	7.34	0.60	0.15	0.06	
11	0.08	0.08	0.08	0.40	4.98	37.89	72.65	23.18	8.49	0.54	0.17	0.06	
12	0.06	0.08	0.08	0.37	10.57	29.42	72.65	19.61	9.97	0.54	0.10	0.03	
13	0.06	0.08	0.12	0.34	21.79	23.18	83.62	17.64	7.91	0.51	0.08	0.03	
14	0.06	0.08	0.87	1.13	21.79	20.86	126.59	16.48	6.09	0.48	0.12	0.08	
15	0.04	0.29	2.27	3.37	15.34	20.41	176.58	14.21	4.98	0.40	0.22	0.17	
16	0.06	0.29	3.37	1.82	10.27	22.25	227.53	13.10	4.76	0.40	0.17	0.12	
17	0.24	0.37	2.89	3.53	8.20	21.33	306.15	11.49	4.03	0.32	0.12	0.08	
18	0.34	0.54	3.05	11.18	6.09	18.82	425.98	10.87	3.53	0.29	0.10	0.04	
19	0.22	0.34	1.97	6.09	5.20	15.34	532.02	11.18	2.57	0.29	0.10	0.12	
20	0.10	0.24	1.13	3.70	6.09	14.21	555.37	9.97	2.12	0.27	0.10	0.19	
21	0.08	0.19	1.00	1.97	8.49	15.34	469.87	8.78	1.68	0.27	0.10	0.19	
22	0.08	0.27	0.87	1.13	10.87	26.69	382.24	7.91	1.33	0.24	0.08	0.17	
23	0.12	0.27	1.97	0.81	10.87	43.16	280.74	8.20	1.13	0.32	0.06	0.12	
24	0.37	0.27	9.37	0.60	11.49	52.69	183.04	6.78	1.06	0.32	0.10	0.10	
25	0.22	0.48	9.67	0.63	29.97	75.05	130.23	6.55	1.26	0.27	0.06	0.10	
26	0.19	0.48	6.55	0.60	105.11	143.73	99.08	6.78	1.54	0.27	0.06	0.10	
27	0.19	0.42	3.86	1.06	214.64	197.67	80.05	6.32	1.33	0.29	0.06	0.08	
28	0.29	0.34	2.89	1.00	363.47	168.89	62.41	6.09	1.20	0.24	0.08	0.06	
29	0.24	0.29	3.37	1.33	557.71	129.02	49.29	5.64	1.06	0.22		0.03	
30	0.17	0.24	2.73	4.20	731.14	103.09	45.54	6.32	0.93	0.15		0.06	
31		0.22		9.67	879.75		47.34		0.87	0.27		0.17	
Total	4.70	7.50	59.50	67.63	3161.62	5156.69	5668.53	894.45	136.50	15.43	3.69	2.45	15178.69 Ton
Mean	0.16	0.24	1.98	2.18	101.99	171.89	182.86	29.82	4.40	0.50	0.13	0.08	
Max	0.37	0.54	9.67	11.18	879.75	1031.12	555.37	144.97	9.97	1.00	0.29	0.19	1031.12
Min	0.04	0.06	0.08	0.34	4.98	14.21	45.54	5.64	0.87	0.15	0.06	0.00	0.00

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:10:58.66 LQS/LQS02DL/1

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
1.12630
QS = 4.5686 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.23	1.81	109.24	337.67	93.44	895.96	2.00	0.92	0.16	0.09	
2	0.00	0.00	0.16	3.30	122.55	138.21	81.40	905.27	1.81	0.79	0.16	0.09	
3	0.00	0.00	0.12	4.06	111.45	90.41	80.48	237.51	1.72	0.70	0.16	0.16	
4	0.00	0.00	0.12	3.01	103.75	75.88	50.48	105.94	1.58	0.62	0.16	0.16	
5	0.00	0.00	0.12	2.19	94.45	99.52	46.86	82.40	1.54	0.58	0.16	0.16	
6	0.00	0.00	0.19	1.54	59.05	51.97	52.71	57.40	1.45	0.58	0.16	0.16	
7	0.00	0.00	0.16	1.31	71.31	38.79	65.88	42.87	1.40	0.54	0.16	0.19	
8	0.00	0.00	0.12	0.96	91.42	32.06	38.79	34.12	1.36	0.54	0.16	0.23	
9	0.00	0.00	0.12	0.92	62.35	25.48	27.49	26.48	1.36	0.46	0.16	0.27	
10	0.00	0.00	0.96	0.83	40.36	21.04	21.04	21.53	1.27	0.46	0.16	0.27	
11	0.00	0.00	7.76	0.79	27.49	16.75	18.43	18.43	1.27	0.42	0.16	0.16	
12	0.00	0.00	19.70	0.96	20.55	14.57	27.99	15.98	1.27	0.42	0.16	0.16	
13	0.00	0.79	34.63	1.05	14.92	12.48	38.79	13.87	1.22	0.38	0.16	0.16	
14	0.00	1.13	35.15	1.27	10.76	9.75	46.19	12.48	1.18	0.38	0.12	0.16	
15	0.00	1.36	31.04	1.09	9.08	8.09	79.56	11.10	1.18	0.34	0.12	0.23	
16	0.00	0.92	19.70	1.27	8.09	7.10	107.04	9.75	1.13	0.34	0.12	0.75	
17	0.00	0.75	12.48	2.19	9.75	5.93	301.71	8.75	1.09	0.30	0.12	1.22	
18	0.00	0.75	8.75	1.58	10.76	6.46	394.87	7.43	0.96	0.27	0.12	1.09	
19	0.00	0.96	5.09	1.72	11.10	8.09	189.38	6.46	0.92	0.27	0.12	1.05	
20	0.00	0.87	3.30	1.36	11.10	19.27	95.46	5.50	0.92	0.27	0.09	0.92	
21	0.00	0.62	3.01	1.05	9.41	21.53	62.35	5.09	0.75	0.27	0.09	0.92	
22	0.00	0.54	3.75	0.83	11.45	16.75	44.86	4.47	0.75	0.23	0.09	0.83	
23	0.00	0.54	5.09	0.79	27.49	14.57	35.67	3.91	0.70	0.23	0.09	0.79	
24	0.00	0.46	14.92	0.79	111.45	14.22	30.02	3.75	0.75	0.23	0.09	0.58	
25	0.00	0.42	9.75	0.66	200.75	11.79	23.99	4.26	0.87	0.23	0.09	0.42	
26	0.00	0.42	5.50	0.54	347.02	10.09	20.12	2.86	0.87	0.23	0.09	0.62	
27	0.00	0.38	2.72	0.50	344.68	8.09	17.17	2.72	0.83	0.19	0.09	0.96	
28	0.00	0.34	2.86	0.50	441.32	8.42	15.27	2.47	0.75	0.19	0.09	0.83	
29	0.00	0.27	2.47	16.34	488.24	36.70	14.22	2.38	0.75	0.19		0.75	
30	0.00	0.27	1.81	103.75	755.53	122.55	13.17	2.09	0.75	0.19		0.54	
31		0.27		145.93	815.93		152.62		0.75	0.19		0.54	
Total	0.00	12.06	231.78	304.89	4552.80	1284.23	2287.45	2553.23	35.15	11.95	3.61	15.46	11292.61 Ton
Mean	0.00	0.39	7.73	9.84	146.86	42.81	73.79	85.11	1.13	0.39	0.13	0.50	
Max	0.00	1.36	35.15	145.93	815.93	337.67	394.87	905.27	2.00	0.92	0.16	1.22	905.27
Min	0.00	0.00	0.12	0.50	8.09	5.93	13.17	2.09	0.70	0.19	0.09	0.09	0.00

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:11:08.66

LQS/LQS02DL/1

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
0.98930
QS = 20.1155 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.47	4.09	6.31	31.63	1164.74	408.70	136.15	362.63	14.13	6.92	3.28	2.88	
2	12.14	6.11	5.31	45.86	1012.26	183.83	105.12	427.76	14.13	7.12	2.88	2.67	
3	10.93	11.33	4.90	13.74	799.12	103.95	198.98	239.32	13.74	6.52	2.88	2.67	
4	5.71	7.12	4.70	9.13	487.60	77.32	185.19	100.43	13.74	5.91	2.88	2.67	
5	4.90	12.94	4.50	7.52	319.78	90.05	114.50	71.43	13.74	4.90	2.88	2.67	
6	4.09	54.53	4.50	7.12	182.47	52.16	103.95	56.10	13.74	5.10	3.28	2.67	
7	4.09	14.53	24.89	6.52	206.74	44.28	83.20	48.22	13.74	5.10	3.28	2.67	
8	3.89	7.12	107.46	6.11	279.78	34.79	82.22	41.91	13.74	4.09	2.88	2.47	
9	8.73	5.71	73.39	6.11	205.19	26.87	51.37	37.17	12.94	4.09	2.88	2.47	
10	26.08	5.10	141.61	8.33	101.60	21.91	37.17	31.63	12.94	4.30	2.47	2.47	
11	6.11	5.31	194.32	9.93	59.64	17.33	33.21	26.87	12.94	3.69	2.47	2.27	
12	4.70	80.26	136.15	8.73	39.54	15.73	69.47	22.50	12.54	3.69	2.47	2.27	
13	4.09	155.24	46.64	6.92	28.46	13.34	136.15	22.50	11.94	4.09	2.47	2.06	
14	3.69	29.25	30.04	8.13	22.50	11.53	387.70	20.71	11.74	4.30	2.47	3.28	
15	3.28	12.14	67.50	62.59	42.70	10.53	1164.74	18.52	11.13	4.90	2.67	14.13	
16	3.28	9.73	132.06	166.14	197.43	9.93	1012.26	18.52	10.53	4.30	2.88	0.00	
17	2.88	10.53	36.38	230.02	202.08	9.53	878.82	18.52	10.53	3.89	2.88	0.00	
18	2.88	8.13	15.73	121.52	60.62	11.74	995.09	17.33	10.13	3.69	2.67	0.00	
19	2.47	6.72	11.13	41.12	35.59	20.71	722.78	16.93	9.53	3.69	2.88	0.00	
20	2.47	5.91	11.53	59.64	23.69	86.14	381.91	16.93	9.73	4.09	2.88	0.00	
21	2.67	5.91	11.74	19.32	18.12	253.26	172.95	16.53	9.53	3.28	2.67	0.00	
22	3.69	6.31	9.93	10.73	14.93	84.18	112.15	16.53	9.13	3.28	2.67	0.00	
23	3.89	8.73	12.14	8.93	13.34	47.43	86.14	16.13	8.93	3.28	2.47	0.00	
24	3.49	22.50	34.79	8.33	13.74	44.28	70.45	15.33	8.13	3.49	2.47	0.00	
25	3.69	11.94	11.94	7.32	45.07	56.10	60.62	15.33	8.13	3.69	2.67	0.00	
26	6.31	7.92	9.13	7.12	179.75	52.95	54.53	14.93	8.33	3.69	2.67	0.00	
27	7.12	7.32	8.13	7.52	330.21	90.05	49.80	14.93	8.13	2.88	2.67	0.00	
28	4.90	6.31	8.13	8.53	417.17	43.49	42.70	14.53	7.92	3.08	2.88	0.00	
29	4.50	6.31	8.53	162.05	550.42	100.43	38.75	13.74	8.13	3.49		0.00	
30	4.09	6.31	10.13	1038.00	986.50	177.03	36.38	13.74	8.13	3.28		0.00	
31		7.52		1231.76	841.56		145.70		7.72	3.28		0.00	
Total	163.23	548.88	1183.64	3366.42	8882.34	2199.57	7750.15	1767.65	339.53	131.10	77.50	50.32	26460.33 Ton
Mean	5.44	17.71	39.45	108.59	286.53	73.32	250.00	58.92	10.95	4.23	2.77	1.62	
Max	26.08	155.24	194.32	1231.76	1164.74	408.70	1164.74	427.76	14.13	7.12	3.28	14.13	1231.76
Min	2.47	4.09	4.50	6.11	13.34	9.53	33.21	13.74	7.72	2.88	2.47	0.00	0.00

WATER YEAR 1992

MAE KLONG RIVER BASIN

Huai Tha Khaei at Ban Bung, Ratchaburi (K.25)

Location	Lat. 13-25-42 N., Long. 99-24-25 E., on left bank at Ban Bung, Tambon Suan Phung, Amphoe Suan Phung, Ratchaburi.
Drainage Area	482 sq.km.
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 1992

RID Computer Center, Processing : 31-MAR-1994 10:11:30.10

LQS/LQS02DL/1

Station - Ban Bung, Suan Phung, Ratchaburi, (K.25)
Stream - Huai Tha Khoei
River - Lam Pha Chi
River System - Mae Klong

Royal Irrigation Department
Thailand
Hydrology Division 170393
1.62159
QS = 6.2966 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.15	0.07	0.94	4.84	1.60	5.40	21763.31	9.64	2.39	0.94	0.32	
2	0.05	0.13	0.07	0.80	4.84	1.60	111.97	6101.67	9.04	2.39	0.94	0.32	
3	0.05	0.08	0.07	0.80	38.21	1.60	15.60	1884.76	7.90	2.18	0.94	0.32	
4	0.05	0.08	0.07	0.66	129.71	1.42	17.83	1031.27	7.35	2.18	0.80	0.32	
5	0.05	1.09	0.10	0.43	170.99	1.42	11.50	705.04	6.82	1.98	0.80	0.32	
6	0.05	0.32	0.23	0.43	41.94	1.42	57.46	506.25	6.30	1.98	0.80	0.32	
7	0.05	0.13	2.60	0.43	20.17	1.42	19.38	373.90	5.99	1.98	0.80	0.32	
8	0.05	0.08	41.94	0.54	12.82	1.26	32.28	337.02	5.70	1.79	0.66	0.23	
9	0.03	0.08	17.07	0.66	8.46	1.26	17.07	250.76	5.12	1.79	0.66	0.23	
10	0.03	0.07	20.17	0.43	9.64	1.26	32.28	188.70	5.12	1.79	0.54	0.23	
11	0.03	0.07	92.95	0.43	25.17	1.09	49.81	137.61	4.56	1.60	0.54	0.23	
12	0.03	0.07	12.82	3.05	7.90	0.94	107.09	111.97	4.30	1.60	0.54	1.60	
13	0.03	0.08	12.15	2.18	6.82	0.80	222.88	92.95	4.03	1.60	0.54	27.82	
14	0.03	0.07	4.84	1.09	5.70	0.80	194.75	76.91	4.03	1.60	0.54	3.53	
15	0.03	0.07	3.05	1.60	5.40	0.66	922.58	64.28	3.78	1.60	0.54	1.98	
16	0.03	0.08	2.39	24.30	5.12	0.66	937.82	59.14	3.78	1.42	0.54	1.26	
17	2.18	0.23	2.18	3.05	5.70	0.66	608.08	51.17	3.53	1.26	0.54	1.09	
18	0.15	0.10	1.98	1.60	5.70	0.66	1263.86	40.68	3.53	1.26	0.54	0.94	
19	0.08	0.10	1.98	1.09	4.30	0.66	492.06	34.61	3.29	1.26	0.54	0.80	
20	0.07	0.08	1.79	0.94	3.53	0.54	259.19	30.02	3.29	1.26	0.54	0.80	
21	0.05	0.15	1.60	1.09	3.29	0.43	173.89	26.93	3.05	1.26	0.54	0.94	
22	0.05	0.15	2.39	6.30	2.82	0.43	347.41	24.30	3.05	1.26	0.43	0.80	
23	0.05	0.10	1.60	1.42	2.39	0.32	165.23	21.79	3.05	1.26	0.43	0.80	
24	0.05	0.08	1.26	1.42	2.18	0.32	132.33	19.38	2.82	1.26	0.43	0.80	
25	0.05	0.08	1.09	1.09	3.78	0.32	99.93	16.33	2.82	1.09	0.43	0.66	
26	0.05	0.07	0.94	1.79	2.39	0.54	73.21	15.60	2.82	1.09	0.43	0.66	
27	0.03	0.07	1.26	4.03	2.18	1.09	59.14	14.18	3.05	0.94	0.43	0.66	
28	0.03	0.23	1.98	3.78	1.98	0.66	47.13	12.82	2.82	0.94	0.32	0.66	
29	0.07	0.15	1.26	121.99	1.79	0.66	43.22	11.50	2.60	0.94		0.54	
30	6.30	0.08	1.09	97.58	1.79	1.09	55.80	10.87	2.60	0.94		0.54	
31		0.08		9.64	1.60		581.81		2.60	0.94		0.80	
Total	9.85	4.40	232.99	295.58	543.15	27.59	7157.99	34015.72	138.38	46.83	16.72	50.84	42540.04 Ton
Mean	0.33	0.14	7.77	9.53	17.52	0.92	230.90	1133.86	4.46	1.51	0.60	1.64	
Max	6.30	1.09	92.95	121.99	170.99	1.60	1263.86	21763.31	9.64	2.39	0.94	27.82	21763.31
Min	0.03	0.07	0.07	0.43	1.60	0.32	5.40	10.87	2.60	0.94	0.32	0.23	0.03

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:11:38.91 LQS/LQS02DL/1

Station - Ban Kariang, Tha Yang, Phetchaburi, (B.8)
Stream - Huai Phak
River - Phetchaburi
River System - Phetchaburi River

Royal Irrigation Department
Thailand
Hydrology Division 010493
1.73389
QS = 2.7593 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.52	0.10	0.10	1049.07	0.13	0.07	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.45	0.10	0.09	197.76	0.10	0.07	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.34	0.07	0.17	54.54	0.10	0.06	0.00	0.00	
4	0.00	0.00	0.00	0.00	15.54	0.13	0.52	22.68	0.09	0.03	0.00	0.00	
5	0.00	0.00	0.00	0.00	16.45	0.10	1.27	12.96	0.09	0.02	0.00	0.00	
6	0.00	0.00	0.00	0.00	9.66	0.10	2.76	8.71	0.07	0.01	0.00	0.00	
7	0.00	0.00	0.00	0.00	4.82	0.10	2.43	6.37	0.07	0.01	0.00	0.00	
8	0.00	0.00	0.00	0.00	2.57	0.09	1.79	4.58	0.09	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	1.68	0.07	1.17	4.12	0.09	0.01	0.00	0.00	
10	0.00	0.00	0.00	0.00	1.04	0.06	0.95	3.10	0.07	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.66	0.04	1.79	2.25	0.06	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.52	0.02	2.25	1.68	0.06	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.45	0.04	1.52	1.17	0.02	0.01	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.38	0.09	2.57	1.04	0.04	0.01	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.34	0.07	31.19	0.95	0.03	0.01	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.29	0.07	13.80	0.83	0.02	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.34	0.03	9.02	0.83	0.01	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.52	0.02	14.66	0.75	0.01	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.52	0.17	8.09	0.56	0.02	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.45	0.10	4.58	0.45	0.01	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.38	0.10	3.26	0.34	0.01	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.38	0.09	3.46	0.29	0.01	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.29	0.07	2.12	0.25	0.01	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.20	0.07	1.68	0.29	0.01	0.01	0.00	0.00	
25	0.00	0.00	0.00	0.38	0.20	0.09	1.68	0.25	0.02	0.01	0.00	0.00	
26	0.00	0.00	0.00	1.52	0.13	0.09	3.68	0.20	0.09	0.02	0.00	0.00	
27	0.00	0.00	0.00	1.79	0.09	0.07	6.10	0.20	0.07	0.01	0.00	0.00	
28	0.00	0.00	0.00	1.27	0.09	0.06	3.68	0.17	0.06	0.01	0.00	0.00	
29	0.00	0.00	0.00	1.17	0.25	0.17	2.43	0.13	0.07	0.00		0.00	
30	0.00	0.00	0.00	0.95	0.17	0.13	1.96	0.17	0.09	0.00		0.00	
31		0.00		0.75	0.13		8.40		0.09	0.00		0.00	
Total	0.00	0.00	0.00	7.83	59.85	2.51	139.17	1376.69	1.71	0.37	0.00	0.00	1588.13 Ton
Mean	0.00	0.00	0.00	0.25	1.93	0.08	4.49	45.89	0.06	0.01	0.00	0.00	
Max	0.00	0.00	0.00	1.79	16.45	0.17	31.19	1049.07	0.13	0.07	0.00	0.00	1049.07
Min	0.00	0.00	0.00	0.00	0.09	0.02	0.09	0.13	0.01	0.00	0.00	0.00	0.00

WATER YEAR 1992

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 - 1992

RID Computer Center, Processing : 31-MAR-1994 10:11:51.57

LQS/LQS02DL/1

Station - Ban Wang Yao, Bang Saphan, Prachuap Khiri Khan, (GT.7)
Stream - Khlong Bang Saphan Yai
River - Khlong Bang Saphan Yai
River System - West Coast-Gulf

Royal Irrigation Department
Thailand
Hydrology Division 010493
1.46504
QS = 3.5512 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	2.56	10.60	195.05	6.43	1174.57	11.42	4.08	3.04	1.68	
2	0.12	0.00	0.00	2.56	9.80	125.54	14.00	2825.98	11.42	4.08	3.04	2.11	
3	0.00	0.00	0.00	2.11	7.07	100.59	7.73	617.03	9.80	4.08	3.04	3.04	
4	0.00	0.00	0.00	2.11	6.43	53.27	14.89	221.57	9.09	3.55	2.56	2.56	
5	0.00	0.00	0.00	2.11	5.81	35.14	42.93	119.14	8.40	3.55	3.04	2.11	
6	0.00	0.00	1.68	3.04	7.73	25.11	537.20	75.27	8.40	3.55	3.04	2.56	
7	0.00	0.00	2.56	2.11	4.64	16.73	291.31	62.74	7.73	3.55	2.56	2.11	
8	0.00	0.00	2.11	1.68	4.64	13.12	1189.37	47.83	7.73	6.43	2.56	2.11	
9	0.00	0.00	3.04	4.08	4.08	11.42	206.28	923.20	7.07	4.64	2.11	2.11	
10	0.00	0.00	2.56	7.73	4.08	9.80	138.66	933.86	6.43	4.08	2.56	1.68	
11	0.00	0.00	4.08	12.26	4.64	9.09	180.39	265.34	6.43	3.55	2.56	1.68	
12	0.00	0.00	2.56	5.22	5.22	7.73	870.50	138.66	7.07	3.55	2.56	1.29	
13	0.00	2.11	2.11	4.08	6.43	7.07	206.28	86.49	6.43	6.43	2.56	2.11	
14	0.00	1.29	2.11	3.55	5.81	9.09	225.44	62.74	6.43	3.55	2.56	3.04	
15	0.00	1.68	1.68	3.04	4.64	7.73	145.37	60.80	6.43	4.08	3.04	2.56	
16	0.00	4.08	2.11	2.56	4.08	6.43	97.60	641.25	6.43	3.55	4.64	5.22	
17	0.00	2.11	2.11	2.56	5.81	5.22	100.59	184.02	5.81	3.55	3.55	4.64	
18	0.00	1.68	3.55	3.04	42.93	5.81	68.78	100.59	5.81	13.12	3.04	3.55	
19	0.00	1.29	4.08	2.56	19.88	5.22	53.27	66.66	5.81	19.88	2.11	7.73	
20	0.00	0.61	3.55	2.11	18.63	5.81	39.75	49.62	5.81	8.40	2.11	296.59	
21	0.00	0.12	4.08	2.11	17.67	5.22	36.66	39.75	5.22	7.07	2.11	870.50	
22	0.00	0.00	4.64	2.11	13.12	5.22	26.47	36.66	4.64	5.81	2.11	75.27	
23	0.00	0.00	4.08	2.11	14.89	5.22	21.15	29.27	4.64	5.81	2.11	33.64	
24	0.00	0.12	3.55	4.64	19.88	4.64	17.67	23.76	4.64	5.22	2.11	17.67	
25	0.00	0.00	6.43	13.12	18.63	6.43	17.67	21.15	5.81	4.64	2.11	12.26	
26	0.00	0.00	5.22	33.64	14.00	9.09	36.66	17.67	6.43	4.08	1.68	8.40	
27	0.00	0.00	5.22	35.14	11.42	5.81	32.16	16.73	5.22	4.08	1.68	7.07	
28	0.00	0.34	4.64	23.76	9.80	5.22	25.11	14.89	4.64	4.08	1.68	7.07	
29	0.00	0.61	4.08	23.76	13.12	9.09	18.63	13.12	4.64	3.55		6.43	
30	0.00	0.00	3.04	17.67	25.11	4.64	17.67	12.26	4.64	3.04		5.22	
31		0.00		0.93	79.70		14.89		4.08	3.04		4.64	
Total	0.12	16.04	84.87	230.06	420.29	715.55	4701.51	8882.62	204.55	161.67	71.87	1398.65	16887.80 Ton
Mean	0.00	0.52	2.83	7.42	13.56	23.85	151.66	296.09	6.60	5.22	2.57	45.12	
Max	0.12	4.08	6.43	35.14	79.70	195.05	1189.37	2825.98	11.42	19.88	4.64	870.50	2825.98
Min	0.00	0.00	0.00	0.93	4.08	4.64	6.43	12.26	4.08	3.04	1.68	1.29	0.00

WATER YEAR 1992

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 - 1992

RID Computer Center, Processing : 31-MAR-1994 10:12:00.70 LQS/LQS02DL/1

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 010493
1.29774
QS = 34.1205 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.29	0.36	0.00	1.50	39.07	31.92	18.73	190.31	2.42	1.29	2.18	0.89	
2	1.08	0.36	0.00	1.29	28.48	124.42	11.41	346.76	2.18	1.29	2.18	1.08	
3	1.29	0.21	0.00	1.08	15.71	75.81	12.81	148.14	2.18	1.50	1.95	0.89	
4	0.70	0.21	0.00	0.89	10.05	60.76	39.07	75.81	1.95	1.29	1.72	0.89	
5	0.70	0.21	0.00	0.52	6.84	37.25	28.48	40.91	1.95	1.29	1.72	0.89	
6	0.70	0.09	0.00	1.29	4.50	17.20	60.76	30.19	1.95	1.08	1.72	0.89	
7	0.70	0.21	0.00	1.29	2.91	12.81	70.54	20.29	1.95	1.08	1.50	0.89	
8	0.89	0.21	0.00	1.08	2.42	11.41	40.91	14.24	2.18	6.24	1.50	0.89	
9	1.29	0.00	0.00	1.29	1.95	5.65	30.19	331.02	1.95	3.42	1.50	0.89	
10	1.29	0.00	0.00	1.29	1.72	2.91	28.48	336.25	1.95	2.42	1.29	0.89	
11	1.29	0.00	1.08	1.29	1.72	2.91	15.71	114.97	1.95	1.95	1.50	0.70	
12	1.08	0.09	0.89	1.29	1.95	2.42	51.83	58.25	2.18	1.95	1.29	0.70	
13	0.89	0.09	0.89	1.29	1.95	1.95	31.92	31.92	1.95	40.91	1.29	1.08	
14	0.70	0.00	0.89	1.29	1.72	1.29	23.49	20.29	2.42	11.41	1.29	0.89	
15	0.70	0.21	0.89	7.46	1.72	0.89	28.48	12.81	2.18	5.65	1.29	0.89	
16	0.89	0.21	0.89	3.42	1.50	0.70	21.88	311.02	1.95	3.95	1.29	0.89	
17	0.70	0.21	0.89	1.29	1.95	0.52	117.91	103.41	1.95	3.42	1.29	0.89	
18	0.70	0.21	0.89	1.72	6.24	0.52	100.56	58.25	2.42	8.09	1.08	0.89	
19	0.70	0.09	1.29	1.95	8.09	0.36	62.79	37.25	2.18	11.41	1.08	0.89	
20	1.29	0.09	2.91	1.29	6.84	0.52	42.76	26.79	1.72	6.24	1.08	3.42	
21	1.08	0.00	2.91	1.50	12.81	0.52	31.92	15.71	1.50	5.65	1.08	801.88	
22	1.08	0.00	2.42	1.29	6.84	0.52	20.29	15.71	1.29	25.13	0.89	218.34	
23	0.89	0.00	1.95	0.89	4.50	2.18	8.74	11.41	1.95	10.05	0.89	70.54	
24	0.89	0.00	1.72	1.29	2.91	8.09	6.24	8.09	1.50	6.84	0.89	40.91	
25	0.36	0.00	1.72	3.42	2.18	2.42	3.95	7.46	1.29	6.24	0.89	20.29	
26	0.36	0.00	1.50	25.13	2.18	2.42	20.29	6.24	1.08	4.50	0.89	12.81	
27	0.36	0.00	1.50	31.92	2.18	2.42	11.41	5.65	1.50	3.95	0.89	8.09	
28	0.21	0.00	1.72	8.09	2.18	2.18	6.84	5.07	1.50	2.91	0.89	6.84	
29	0.09	0.00	1.72	6.84	2.91	1.95	5.65	3.42	1.29	2.91		5.65	
30	0.36	0.00	1.29	53.78	5.07	25.13	4.50	2.91	1.50	2.42		5.65	
31		0.00		23.49	10.05		3.95		1.72	2.42		5.65	
Total	24.55	3.06	29.96	191.45	201.14	440.05	962.49	2390.55	57.68	188.90	37.05	1216.98	5743.86 Ton
Mean	0.82	0.10	1.00	6.18	6.49	14.67	31.05	79.68	1.86	6.09	1.32	39.26	
Max	1.29	0.36	2.91	53.78	39.07	124.42	117.91	346.76	2.42	40.91	2.18	801.88	801.88
Min	0.09	0.00	0.00	0.52	1.50	0.36	3.95	2.91	1.08	1.08	0.89	0.70	0.00

WATER YEAR 1992

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 - 1992

RID Computer Center, Processing : 31-MAR-1994 10:12:10.59

LQS/LQS02DL/1

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 010493
1.43784
QS = 52.5480 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.39	0.34	0.19	1.92	80.04	230.94	49.55	878.31	14.07	0.92	2.80	0.07	
2	1.15	0.34	0.34	1.65	63.44	554.65	87.00	710.85	11.14	0.92	1.92	0.19	
3	1.15	0.34	0.51	1.15	44.44	230.94	66.67	269.82	8.43	0.92	1.65	0.19	
4	1.15	0.34	0.71	0.92	32.77	136.26	94.13	150.62	7.16	0.71	1.39	0.71	
5	1.15	0.34	0.92	0.51	25.82	101.44	63.44	101.44	5.96	0.71	1.39	0.51	
6	0.92	0.19	3.77	0.34	17.75	69.94	120.40	83.50	5.96	0.71	1.15	0.19	
7	0.92	0.19	30.18	0.51	14.07	60.27	116.53	66.67	5.96	0.71	1.15	0.07	
8	0.92	0.07	3.77	0.34	9.75	47.34	83.50	60.27	5.96	1.65	1.15	0.07	
9	0.71	0.07	1.39	0.34	7.16	37.44	60.27	526.99	5.96	3.77	0.92	0.00	
10	0.71	0.07	1.92	3.77	7.16	30.18	52.55	235.70	4.83	1.65	0.92	0.00	
11	0.51	0.19	8.43	52.55	11.14	24.01	42.30	128.25	3.77	1.65	0.92	0.00	
12	0.51	0.19	5.96	12.58	11.14	21.67	427.94	87.00	3.77	1.15	0.92	0.00	
13	0.51	0.34	1.65	3.77	21.67	14.07	141.34	73.26	2.80	15.61	0.71	0.00	
14	0.34	0.34	1.15	3.77	28.28	17.75	145.44	63.44	1.92	4.83	0.71	0.00	
15	0.34	0.34	1.15	17.75	19.40	14.07	150.62	57.92	1.92	1.65	0.71	0.00	
16	0.34	0.34	1.15	2.80	15.61	12.58	141.34	508.80	1.65	1.15	4.83	0.00	
17	0.34	0.34	0.92	1.65	24.01	11.14	150.62	132.24	1.65	1.15	5.96	0.00	
18	0.34	0.34	7.16	3.77	150.62	9.75	160.08	87.00	1.65	132.24	0.92	0.00	
19	0.34	0.34	12.58	8.43	132.24	5.96	108.90	47.34	1.65	34.75	0.71	0.00	
20	0.51	0.19	14.07	1.65	108.90	14.07	87.00	32.77	1.39	14.07	0.34	5.96	
21	0.51	0.00	24.01	1.15	80.04	12.58	69.94	54.83	1.39	12.58	0.19	150.62	
22	0.51	0.00	14.07	1.15	60.27	17.75	57.92	47.34	1.65	14.07	0.19	30.18	
23	0.51	0.00	11.14	0.92	49.55	11.14	44.44	42.30	1.39	12.58	0.19	12.58	
24	0.51	0.51	8.43	1.92	54.83	14.07	42.30	32.77	1.39	9.75	0.19	7.16	
25	0.34	0.51	7.16	57.92	39.50	12.58	37.44	28.28	1.39	9.75	0.19	4.83	
26	0.34	0.34	14.07	508.80	37.44	17.75	34.75	28.28	1.39	7.16	0.34	2.80	
27	0.34	0.19	9.75	120.40	34.75	12.58	34.75	24.01	1.39	7.16	0.19	1.65	
28	0.34	0.07	7.16	52.55	39.50	11.14	28.28	19.40	1.39	7.16	0.19	1.39	
29	0.34	0.00	4.83	209.90	25.82	21.67	24.01	17.75	1.15	5.96		1.15	
30	0.34	0.00	2.80	124.31	73.26	52.55	24.01	14.07	1.15	4.83		0.92	
31		0.07		90.55	195.09		21.67		0.92	3.77		0.92	
Total	18.33	6.93	201.34	1289.74	1515.46	1828.28	2769.13	4611.22	112.20	315.69	32.84	222.16	12923.32 Ton
Mean	0.61	0.22	6.71	41.60	48.89	60.94	89.33	153.71	3.62	10.18	1.17	7.17	
Max	1.39	0.51	30.18	508.80	195.09	554.65	427.94	878.31	14.07	132.24	5.96	150.62	878.31
Min	0.34	0.00	0.19	0.34	7.16	5.96	21.67	14.07	0.92	0.71	0.19	0.00	0.00

WATER YEAR 1992

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 - 1992

RID Computer Center, Processing : 31-MAR-1994 10:12:20.50 LQS/LQS02DL/1

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
1.23799
QS = 0.8793 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	198.98	144.42	160.85	462.28	188.23	1019.25	209.84	347.43	62.22	30.73	60.86	122.42	
2	207.66	97.42	462.28	367.02	173.38	879.22	303.47	319.82	60.86	32.68	56.83	99.01	
3	175.49	205.48	429.87	336.34	74.73	401.06	364.21	485.03	59.51	31.71	70.46	40.37	
4	198.98	91.11	412.54	412.54	87.99	563.48	263.92	424.08	63.58	19.55	54.41	132.33	
5	216.41	383.97	341.88	306.18	84.88	578.60	330.81	432.77	74.73	128.35	30.73	100.61	
6	142.39	498.55	447.44	144.42	89.55	540.95	438.58	432.77	63.58	107.69	38.11	116.68	
7	100.61	552.19	256.60	555.95	76.17	426.97	401.06	462.28	62.22	77.61	36.99	171.28	
8	303.47	530.12	116.68	508.96	69.07	415.42	325.31	395.35	63.58	70.46	38.11	53.21	
9	266.36	355.80	328.06	424.08	69.07	328.06	447.44	183.97	194.67	52.02	134.33	92.68	
10	186.10	80.50	186.10	317.08	186.10	308.90	339.10	111.27	183.97	79.05	111.27	190.37	
11	214.21	132.33	232.52	244.50	175.49	212.02	268.81	465.25	169.18	74.73	116.68	183.97	
12	203.31	179.72	268.81	167.09	216.41	207.66	276.59	254.17	140.37	120.45	122.42	91.11	
13	60.86	227.76	300.76	107.69	263.92	160.85	317.08	181.84	124.39	92.68	99.01	73.30	
14	50.83	268.81	251.75	209.84	177.60	91.11	372.65	156.71	55.62	111.27	109.48	59.51	
15	58.17	188.23	268.81	152.59	156.71	175.49	322.56	138.35	55.62	94.26	35.88	47.29	
16	100.61	138.35	261.47	114.87	126.36	220.81	333.57	266.36	132.33	77.61	124.39	73.30	
17	190.37	114.87	298.05	289.97	132.33	254.17	232.52	757.71	295.35	60.86	81.96	142.39	
18	198.98	71.88	347.43	116.68	173.38	142.39	227.76	453.36	308.90	41.51	70.46	146.46	
19	70.86	165.00	339.10	94.26	169.18	156.71	162.92	378.30	140.37	87.99	80.50	171.28	
20	49.64	177.60	418.30	100.61	167.09	158.77	140.37	459.30	122.42	203.31	81.96	97.42	
21	64.94	162.92	271.27	99.01	124.39	122.42	401.06	254.17	146.46	126.36	134.33	91.11	
22	314.35	216.41	120.45	66.31	154.65	192.52	508.96	201.14	154.65	87.99	80.50	64.94	
23	246.91	169.18	308.90	77.61	113.07	167.09	432.77	181.84	271.27	67.69	124.39	130.34	
24	284.60	179.72	303.47	196.82	132.33	190.37	276.59	181.84	194.67	49.64	124.39	116.68	
25	268.81	146.46	256.60	154.65	271.27	120.45	220.81	128.35	186.10	42.65	114.87	80.50	
26	196.82	97.42	298.05	80.50	355.80	201.14	173.38	130.34	70.46	54.41	109.48	76.17	
27	322.56	126.36	216.41	48.47	429.87	171.28	263.92	124.39	74.73	76.17	138.35	80.50	
28	364.21	322.56	126.36	89.55	1443.48	179.72	459.30	80.50	80.50	76.17	114.87	77.61	
29	415.42	249.33	146.46	158.77	2135.98	171.28	745.75	79.05	173.38	79.05		42.65	
30	232.52	298.05	289.97	116.68	1775.81	209.84	495.16	79.05	100.61	44.96		102.37	
31		183.97		205.48	1192.10		364.21		74.73	46.12		148.49	
Total	5905.03	6756.49	8467.24	6726.80	10986.39	8968.00	10420.48	8546.79	3961.03	2345.73	2496.02	3216.35	78796.35 Ton
Mean	196.83	217.95	282.24	216.99	354.40	298.93	336.14	284.89	127.78	75.67	89.14	103.75	
Max	415.42	552.19	462.28	555.95	2135.98	1019.25	745.75	757.71	308.90	203.31	138.35	190.37	2135.98
Min	49.64	71.88	116.68	48.47	69.07	91.11	140.37	79.05	55.62	19.55	30.73	40.37	19.55

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:12:31.59 LQS/LQS02DL/1

Station - Phrasaeng, Phrasaeng, Surat Thani, (X.37A)
Stream - Tapi
River - Tapi
River System - PENINSULAR EAST COAST

Royal Irrigation Department
Thailand
Hydrology Division
1.18638
QS = 1.7028 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.47	21.57	41.31	44.32	215.59	1202.02	537.39	979.63	557.40	227.56	109.45	40.31	
2	31.51	24.00	48.40	41.31	237.62	1144.50	563.43	1004.35	501.91	217.57	88.35	37.34	
3	32.47	26.78	49.43	38.32	229.57	1076.85	683.91	1117.03	440.11	197.81	76.38	36.36	
4	32.47	29.60	47.37	36.36	180.29	1063.51	800.83	1206.84	384.89	176.43	69.67	34.40	
5	30.55	35.38	44.32	33.43	147.92	1067.95	963.21	1202.02	341.83	159.23	74.70	32.47	
6	28.65	43.32	46.35	32.47	153.56	1025.02	1121.50	1121.50	311.47	146.05	66.36	31.51	
7	27.71	36.36	50.46	32.47	184.16	946.83	1202.02	1004.35	288.89	136.74	62.00	30.55	
8	26.78	37.34	52.53	31.51	211.61	859.47	1257.99	893.90	272.32	127.54	58.81	31.51	
9	26.78	35.38	55.66	33.43	227.56	765.89	1274.25	815.19	276.45	118.44	56.71	30.55	
10	28.65	47.37	58.81	43.32	295.51	661.18	1312.34	833.59	295.51	111.23	54.61	31.51	
11	28.65	60.93	73.02	69.67	339.32	572.49	1379.47	967.31	288.89	105.88	53.57	34.40	
12	26.78	95.30	69.67	78.08	356.93	496.49	1452.95	1045.76	297.79	100.57	50.46	32.47	
13	26.78	140.45	69.67	81.48	416.28	421.56	1527.02	1090.21	280.59	97.05	49.43	30.55	
14	25.84	149.79	78.08	79.77	408.38	351.89	1567.66	1108.08	253.86	93.55	49.43	30.55	
15	25.84	122.07	88.35	69.67	364.52	313.76	1567.66	1112.55	233.59	88.35	46.35	35.38	
16	24.92	122.07	83.19	58.81	311.47	293.24	1567.66	1178.00	219.57	86.62	45.34	39.31	
17	25.84	98.81	74.70	49.43	259.99	280.59	1540.55	1312.34	217.57	81.48	44.32	44.32	
18	31.51	71.34	79.77	43.32	225.56	255.90	1452.95	1412.80	209.63	84.90	42.31	42.31	
19	43.32	62.00	86.62	43.32	249.78	237.62	1334.18	1459.66	195.85	81.48	40.31	43.32	
20	33.43	51.49	88.35	42.31	272.32	235.61	1202.02	1466.37	182.22	81.48	39.31	55.66	
21	29.60	44.32	79.77	42.31	264.09	237.62	1117.03	1466.37	170.66	83.19	42.31	74.70	
22	28.65	41.31	68.01	48.40	235.61	235.61	1045.76	1466.37	159.23	79.77	40.31	97.05	
23	26.78	40.31	62.00	47.37	215.59	253.86	885.80	1432.85	151.67	73.02	38.32	97.05	
24	24.92	44.32	56.71	42.31	227.56	280.59	734.72	1352.90	147.92	69.67	38.32	78.08	
25	24.00	43.32	51.49	38.32	247.75	302.34	645.74	1226.12	144.18	69.67	37.34	62.00	
26	23.08	40.31	48.40	36.36	276.45	411.01	581.57	1067.95	155.44	71.34	37.34	51.49	
27	22.32	44.32	46.35	36.36	346.85	474.88	563.43	950.92	227.56	69.67	36.36	43.32	
28	22.32	56.71	45.34	42.31	537.39	493.78	645.74	837.28	311.47	69.67	36.36	38.32	
29	21.57	50.46	47.37	59.87	910.13	504.63	840.98	710.94	339.32	83.19		36.36	
30	21.57	43.32	45.34	100.57	1085.76	545.63	938.65	608.94	286.81	81.48		33.43	
31		40.31		170.66	1173.21		955.01		241.67	123.89		33.43	
Total	835.76	1800.36	1836.84	1647.64	10808.33	17012.32	33263.42	33452.12	8386.27	3394.52	1484.53	1370.01	115292.13 Ton
Mean	27.86	58.08	61.23	53.15	348.66	567.08	1073.01	1115.07	270.52	109.50	53.02	44.19	
Max	43.32	149.79	88.35	170.66	1173.21	1202.02	1567.66	1466.37	557.40	227.56	109.45	97.05	1567.66
Min	21.57	21.57	41.31	31.51	147.92	235.61	537.39	608.94	144.18	69.67	36.36	30.55	21.57

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:12:41.36 LQS/LQS02DL/1

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

$QS = 1.65195 \times 0.9724\ QW$

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.89	0.74	0.74	0.21	0.54	3.11	1.86	3.42	27.13	101.29	20.34	2.96	
2	0.82	0.54	0.74	0.17	0.31	4.86	1.28	22.52	20.34	43.34	15.29	2.81	
3	0.74	1.50	0.67	0.10	0.26	3.82	2.11	28.94	15.77	28.33	28.94	2.96	
4	0.89	1.62	2.52	0.13	1.07	3.26	6.30	11.24	13.43	24.20	16.74	2.81	
5	0.97	2.66	1.17	0.10	5.14	4.59	5.71	7.24	11.67	20.34	13.88	2.52	
6	0.82	0.67	0.82	0.10	1.39	2.66	6.61	6.00	12.10	17.74	20.87	2.38	
7	0.82	0.48	0.97	0.21	0.89	2.52	2.81	13.43	9.25	18.76	13.43	2.25	
8	0.74	0.97	1.07	1.07	1.62	1.86	98.29	7.24	8.22	14.81	11.67	4.33	
9	1.98	0.48	6.61	1.39	2.11	1.74	10.41	102.80	11.67	13.43	10.41	2.81	
10	0.97	2.38	1.28	0.42	1.28	1.74	14.81	355.43	30.18	12.10	8.90	2.38	
11	0.89	1.17	0.97	0.31	2.66	1.98	6.92	93.86	21.96	11.24	8.56	2.38	
12	0.82	11.67	0.82	0.67	2.96	1.28	6.61	37.47	15.29	10.00	8.22	3.82	
13	0.74	2.81	1.86	0.31	2.52	0.89	5.14	23.64	12.10	9.60	7.56	3.26	
14	0.67	2.38	0.97	0.26	2.38	0.74	3.11	16.25	10.00	8.90	7.24	13.88	
15	0.67	0.97	0.74	0.21	1.39	0.67	2.52	15.29	9.25	8.22	6.61	12.98	
16	0.60	1.28	0.67	0.13	0.97	0.82	2.25	773.50	12.98	7.88	6.30	5.42	
17	0.54	1.07	0.60	0.07	1.39	0.60	2.52	182.76	10.41	7.24	6.00	4.07	
18	0.54	0.82	0.67	0.07	3.11	0.48	1.86	55.36	10.00	12.98	5.71	8.56	
19	0.54	0.67	0.60	0.54	1.86	0.89	1.74	29.56	7.88	11.67	5.14	15.29	
20	0.48	0.60	0.67	1.74	1.39	0.48	2.38	21.96	6.92	7.88	4.86	53.00	
21	0.48	0.60	1.17	0.48	1.07	0.48	1.74	18.76	6.30	6.61	4.33	70.32	
22	0.48	4.59	0.60	0.17	0.89	0.42	1.39	19.81	5.71	6.30	4.33	30.18	
23	0.60	1.86	0.48	0.13	0.67	0.36	1.17	15.29	5.42	5.71	3.82	25.94	
24	0.54	1.28	0.42	0.10	1.07	0.48	0.97	20.87	5.14	6.00	3.58	16.74	
25	0.42	1.28	0.36	0.07	3.82	1.17	1.39	15.29	70.32	5.71	3.42	12.53	
26	0.36	0.97	0.36	0.04	5.42	1.28	1.62	11.67	372.92	6.92	3.42	10.41	
27	0.31	0.89	0.89	0.31	6.61	0.60	9.60	12.10	412.54	15.29	3.42	8.90	
28	0.42	0.74	0.48	1.74	6.92	0.42	25.94	11.24	63.91	7.56	3.11	7.88	
29	0.60	0.97	0.48	1.74	6.00	0.31	7.56	31.94	55.36	332.64		6.92	
30	0.36	1.17	0.31	1.17	3.58	0.31	4.33	81.06	35.59	66.45		6.00	
31		1.28		1.39	2.66		3.42		86.66	24.20		6.61	
Total	20.70	51.11	30.71	15.55	73.95	44.82	244.37	2045.94	1396.42	873.34	256.10	353.30	5406.31 Ton
Mean	0.69	1.65	1.02	0.50	2.39	1.49	7.88	68.20	45.05	28.17	9.15	11.40	
Max	1.98	11.67	6.61	1.74	6.92	4.86	98.29	773.50	412.54	332.64	28.94	70.32	773.50
Min	0.31	0.48	0.31	0.04	0.26	0.31	0.97	3.42	5.14	5.71	3.11	2.25	0.04

WATER YEAR 1992

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 1992

RID Computer Center, Processing : 31-MAR-1994 10:12:50.14

LQS/LQS02DL/1

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
1.91346
QS = 1.6086 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.57	0.81	1.26	0.57	0.57	0.68	1.02	4.24	13.00	32.88	10.16	1.43	
2	0.51	0.68	1.18	0.57	0.57	0.95	0.51	8.66	9.29	16.73	8.45	1.34	
3	0.51	0.57	1.02	0.51	0.75	0.62	0.88	9.86	7.46	9.86	11.07	1.34	
4	0.51	0.46	3.95	0.68	0.68	0.57	4.69	4.85	6.00	7.85	7.66	1.26	
5	0.57	0.46	2.78	0.75	0.88	0.57	2.78	3.54	5.01	6.53	6.35	1.26	
6	0.81	0.57	1.61	0.62	0.62	0.51	4.85	2.90	5.17	6.18	7.08	1.18	
7	0.62	0.57	2.90	0.81	0.68	0.51	1.70	4.24	4.39	6.71	5.33	1.18	
8	0.51	0.57	2.21	5.49	4.54	0.46	19.16	3.02	3.68	5.01	4.54	2.00	
9	1.18	0.62	6.53	1.61	1.43	0.46	4.69	176.53	4.24	4.39	3.95	1.26	
10	0.68	2.43	2.10	0.88	0.95	0.41	6.53	220.63	36.88	3.95	3.68	1.18	
11	0.57	2.43	1.70	0.81	1.10	0.51	3.15	38.55	16.73	3.95	3.41	1.10	
12	0.51	2.43	1.52	0.81	1.18	0.36	2.54	11.69	8.05	3.54	2.90	1.26	
13	0.46	1.43	1.26	1.18	0.95	0.41	3.15	8.87	6.35	3.28	2.90	1.18	
14	0.46	1.18	1.02	0.81	0.75	0.41	2.10	6.18	5.17	3.15	2.78	1.34	
15	0.46	1.02	1.26	0.81	0.68	0.41	1.80	6.53	4.39	2.90	2.66	3.15	
16	0.51	1.10	0.95	0.81	0.68	0.51	1.70	340.42	5.01	2.66	2.43	1.34	
17	0.46	0.81	1.02	0.81	0.81	0.41	1.70	60.21	4.24	2.54	2.32	1.34	
18	0.68	0.81	0.88	0.81	0.95	0.32	1.52	15.07	4.10	3.41	2.10	1.61	
19	0.46	0.75	0.95	0.68	0.68	0.46	1.26	9.57	3.68	2.90	2.10	2.10	
20	0.41	0.62	0.88	0.68	0.57	0.36	2.10	7.85	3.28	2.90	2.00	5.33	
21	0.41	0.57	1.34	0.81	0.51	0.41	1.43	6.71	2.90	2.43	2.00	4.54	
22	0.41	0.62	0.88	0.81	0.51	0.36	1.18	5.33	2.66	2.00	1.80	5.17	
23	0.57	1.34	0.81	0.81	0.46	0.32	1.02	4.69	2.66	1.90	1.70	3.28	
24	0.46	0.88	0.75	0.81	0.57	0.36	0.88	6.71	2.32	1.90	1.61	2.21	
25	0.51	1.10	0.75	0.81	0.68	0.32	1.10	4.85	29.09	2.66	1.61	2.10	
26	0.46	0.95	0.68	0.75	1.10	0.32	0.88	4.39	214.86	2.78	1.61	1.80	
27	0.46	0.81	0.68	0.75	0.75	0.51	7.08	4.54	250.57	5.49	1.52	1.70	
28	0.46	0.81	0.68	0.81	0.81	0.36	17.68	4.39	64.44	4.54	1.43	1.52	
29	0.46	0.95	0.62	0.68	0.81	0.32	4.69	15.07	26.92	787.36		1.43	
30	0.46	1.61	0.62	0.62	0.81	0.32	2.90	66.61	15.07	69.92		1.34	
31		3.15		0.75	0.68		2.43		20.18	18.17		1.52	
Total	16.11	33.11	44.79	29.11	27.71	13.50	109.10	1066.70	787.79	1030.47	107.15	59.79	3325.33 Ton
Mean	0.54	1.07	1.49	0.94	0.89	0.45	3.52	35.56	25.41	33.24	3.83	1.93	
Max	1.18	3.15	6.53	5.49	4.54	0.95	19.16	340.42	250.57	787.36	11.07	5.33	787.36
Min	0.41	0.46	0.62	0.51	0.46	0.32	0.51	2.90	2.32	1.90	1.43	1.10	0.32

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Tan Yong Mat at Rangae, Narathiwat (X.73)

Location	Lat. 6°-17'-44" N., Long. 101°-44'-04" E., on right bank about 20 meters upstream from the bridge on highway, Amphoe Rangae, Narathiwat.
Drainage Area	336 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1989 - Cont'd
Actual Measurement	1989 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:12:59.23

LQS/LQS02DL/1

Station - Rangae, Rangae, Narathiwat, (X.73)
Stream - Ya Kang
River - Ya Kang
River System - PENINSULAR EAST COAST

Royal Irrigation Department
Thailand
Hydrology Division
1.16388
QS = 1.6402 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.35	3.89	8.72	11.50	8.47	4.54	8.72	33.86	58.05	132.80	41.46	13.46	
2	6.12	4.54	10.18	11.23	7.52	4.32	9.44	45.76	53.54	107.12	58.62	13.17	
3	5.66	4.54	8.47	10.43	7.05	4.11	11.50	26.87	49.07	96.00	97.36	12.33	
4	6.12	4.32	10.95	9.69	7.05	4.32	11.78	24.34	50.74	84.19	63.19	11.78	
5	6.58	3.89	19.64	8.72	10.68	4.11	15.48	35.74	59.76	83.56	48.52	11.50	
6	6.12	3.68	19.64	8.23	12.89	3.89	19.64	35.27	74.17	75.41	40.98	10.68	
7	6.58	3.50	14.13	8.72	12.89	4.54	16.85	29.43	91.95	67.39	36.69	10.95	
8	7.28	4.32	13.79	9.69	10.43	5.89	13.46	25.18	216.42	60.33	32.93	11.78	
9	8.47	3.68	12.33	8.00	11.23	5.21	12.33	21.05	357.00	56.35	30.29	12.61	
10	8.72	7.28	13.17	7.76	10.43	4.32	11.50	27.72	670.04	56.92	27.72	11.78	
11	8.23	8.72	15.82	8.72	10.43	3.89	14.13	74.17	418.06	55.79	27.29	11.50	
12	7.76	8.72	23.20	8.72	9.44	3.68	14.46	140.30	276.92	51.86	29.00	23.20	
13	7.52	8.96	31.16	8.00	13.79	3.50	11.78	938.85	195.54	44.66	26.87	50.18	
14	6.82	6.82	23.56	9.69	13.17	3.34	12.61	735.92	146.61	43.03	24.76	38.59	
15	6.35	5.66	22.12	9.69	10.95	3.17	37.63	298.69	108.57	54.66	23.20	71.08	
16	5.89	4.99	44.12	9.44	9.93	3.00	41.46	225.98	89.93	45.76	21.76	73.55	
17	5.44	9.44	51.30	8.72	8.96	4.54	30.73	231.95	78.53	40.02	20.34	52.41	
18	5.21	12.89	64.34	8.00	8.23	6.58	27.29	159.04	68.01	39.06	18.93	46.31	
19	4.99	9.20	55.79	7.76	7.76	5.66	43.03	110.02	61.47	40.50	18.24	93.97	
20	5.21	7.28	49.63	8.23	7.52	5.44	34.80	92.62	56.35	37.16	17.89	106.40	
21	7.05	6.12	29.43	8.96	7.05	4.54	27.72	84.82	54.10	38.11	16.85	225.98	
22	6.12	6.12	21.76	8.72	6.82	5.21	23.92	81.04	52.97	70.46	15.48	236.94	
23	5.21	12.06	17.89	9.44	6.35	10.43	19.28	82.30	108.57	59.19	14.80	121.70	
24	4.76	32.03	15.48	8.00	6.12	17.89	16.16	82.93	278.18	45.21	13.79	79.78	
25	4.54	18.58	16.16	7.52	5.89	13.46	13.79	77.28	331.07	38.59	14.80	62.05	
26	4.32	13.17	15.82	7.05	5.44	11.23	12.89	112.92	468.16	34.33	15.82	50.74	
27	4.11	10.95	12.89	6.58	4.99	9.44	11.50	129.82	775.98	31.16	16.16	43.03	
28	4.11	9.69	11.78	7.05	4.76	8.72	10.95	88.63	505.82	31.59	14.46	37.63	
29	4.11	8.47	11.23	9.20	4.54	8.96	9.69	74.17	267.82	66.78		33.40	
30	3.68	8.00	11.78	8.47	4.32	9.93	8.96	70.46	186.96	76.04		30.29	
31		8.72		8.23	4.11		13.17		176.73	51.86		28.15	
Total	179.43	260.23	676.28	270.16	259.21	187.86	566.65	4197.13	6387.09	1815.89	828.20	1636.92	17265.05 Ton
Mean	5.98	8.39	22.54	8.71	8.36	6.26	18.28	139.90	206.04	58.58	29.58	52.80	
Max	8.72	32.03	64.34	11.50	13.79	17.89	43.03	938.85	775.98	132.80	97.36	236.94	938.85
Min	3.68	3.50	8.47	6.58	4.11	3.00	8.72	21.05	49.07	31.16	13.79	10.68	3.00

WATER YEAR 1992

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 - 1992

RID Computer Center, Processing : 31-MAR-1994 10:13:10.35

LQS/LQS02DL/1

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
1.14699
QS = 3.5312 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.62	5.19	8.72	3.53	21.35	32.37	21.35	16.82	56.99	36.16	13.55	0.00	
2	5.41	7.82	10.57	3.94	17.96	24.43	37.80	23.29	52.96	32.37	10.10	0.00	
3	5.41	7.60	9.18	4.35	12.83	16.82	32.37	58.73	49.54	27.20	8.50	0.00	
4	6.27	8.95	8.72	3.94	10.80	12.83	29.69	66.93	46.14	24.43	7.15	0.00	
5	5.84	15.74	8.27	4.77	10.33	12.21	45.58	86.14	47.27	23.29	6.93	0.00	
6	5.84	15.74	8.72	5.62	10.33	11.03	33.98	112.85	56.99	19.07	6.71	0.00	
7	5.62	14.28	11.74	6.27	11.27	9.87	42.78	112.85	85.53	17.96	6.71	0.00	
8	5.84	15.74	13.55	6.93	10.80	9.18	51.81	106.56	123.13	16.08	6.71	0.00	
9	6.27	10.10	10.57	7.82	10.33	8.95	94.74	83.10	174.98	15.00	6.05	0.00	
10	12.83	8.72	13.55	7.60	10.33	8.50	97.95	88.59	243.62	13.89	4.98	0.00	
11	11.27	8.95	10.57	8.27	13.89	7.60	124.73	97.21	265.70	12.45	4.35	0.00	
12	11.27	8.04	9.41	8.95	30.76	6.27	148.21	189.08	241.53	11.74	3.94	0.11	
13	9.41	6.71	8.50	10.57	59.89	5.84	130.70	1295.65	194.15	11.50	3.73	0.89	
14	7.37	7.60	6.93	11.98	68.11	5.62	104.18	3463.95	154.11	10.80	3.13	1.59	
15	6.93	8.72	6.27	62.23	69.30	4.98	74.66	2576.82	117.60	10.33	2.73	4.15	
16	6.71	9.18	6.05	59.31	63.98	4.35	66.93	1888.56	92.89	9.64	2.54	13.17	
17	6.71	10.10	5.62	53.53	52.39	3.73	74.06	1325.48	77.66	9.18	2.35	13.89	
18	7.82	15.74	5.41	32.37	33.44	3.13	73.46	807.56	66.93	8.95	2.15	13.89	
19	8.04	15.00	4.98	24.85	23.29	3.13	78.87	493.85	57.57	8.72	1.78	13.17	
20	7.60	11.98	4.98	29.69	19.07	2.93	84.32	345.65	51.24	8.27	1.23	15.74	
21	7.15	9.87	4.98	33.44	15.35	3.13	101.87	267.81	46.14	8.50	1.06	11.50	
22	6.71	8.27	4.56	27.20	12.83	3.33	96.59	224.90	41.11	8.50	1.06	10.57	
23	6.93	9.87	4.35	20.23	12.21	3.13	94.74	185.04	53.53	8.95	1.06	11.03	
24	11.98	10.57	4.35	14.61	11.03	3.13	77.66	146.25	77.06	8.72	0.89	11.50	
25	11.98	9.18	4.15	14.61	9.41	3.33	56.41	114.43	83.10	8.27	0.56	9.64	
26	7.60	8.95	3.53	15.00	8.27	13.89	40.56	97.95	73.46	7.82	0.40	7.37	
27	6.27	8.50	4.56	13.17	8.72	12.45	30.76	87.98	67.52	7.37	0.25	5.62	
28	5.84	7.60	4.15	11.27	10.80	16.08	23.29	78.26	63.40	6.93	0.25	4.35	
29	5.41	6.49	3.94	10.80	24.85	19.07	19.07	69.30	56.99	6.71		3.53	
30	5.19	6.05	3.94	15.74	43.34	17.22	19.82	62.81	50.67	9.18		2.93	
31		6.05		19.82	43.34		19.07		42.78	12.83		2.54	
Total	223.14	303.30	214.82	552.41	760.60	288.53	2028.01	14574.40	2912.29	420.81	110.85	157.18	22546.34 Ton
Mean	7.44	9.78	7.16	17.82	24.54	9.62	65.42	485.81	93.94	13.57	3.96	5.07	
Max	12.83	15.74	13.55	62.23	69.30	32.37	148.21	3463.95	265.70	36.16	13.55	15.74	3463.95
Min	5.19	5.19	3.53	3.53	8.27	2.93	19.07	16.82	41.11	6.71	0.25	0.00	0.00

WATER YEAR 1992

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 - 1992

RID Computer Center, Processing : 31-MAR-1994 10:13:20.76

LQS/LQS02DL/1

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
1.31526
QS = 1.1145 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.02	0.02	0.02	0.23	0.12	0.19	41.90	15.78	2.49	0.58	0.08	
2	0.05	0.02	0.01	0.01	0.25	0.12	0.90	56.19	12.49	2.27	0.51	0.08	
3	0.05	0.02	0.01	0.01	0.23	0.10	1.03	38.57	11.05	2.07	0.47	0.08	
4	0.05	0.03	0.03	0.00	0.23	0.10	1.42	39.81	9.84	2.00	0.44	0.07	
5	0.05	0.02	0.00	0.00	0.21	0.10	2.14	42.32	8.87	1.87	0.40	0.07	
6	0.05	0.02	0.01	0.00	0.19	0.10	2.56	37.34	8.11	1.80	0.40	0.07	
7	0.04	0.02	0.03	0.00	0.19	0.08	2.92	27.87	7.54	1.67	0.37	0.05	
8	0.04	0.03	0.00	0.01	0.17	0.08	4.16	23.34	6.81	1.61	0.33	0.05	
9	0.04	0.02	0.00	0.01	0.15	0.07	8.87	27.11	6.18	1.48	0.31	0.05	
10	0.04	0.02	0.00	0.10	0.17	0.07	18.60	48.30	5.79	1.42	0.29	0.07	
11	0.04	0.02	0.00	0.23	0.19	0.05	19.76	75.41	5.79	1.29	0.27	0.07	
12	0.03	0.02	0.00	0.66	0.17	0.04	16.33	80.61	5.66	1.23	0.25	0.05	
13	0.03	0.02	0.02	1.17	0.19	0.03	12.49	46.57	5.27	1.11	0.25	0.05	
14	0.05	0.02	0.02	0.90	0.17	0.03	11.66	33.32	4.77	1.07	0.25	0.05	
15	0.05	0.02	0.01	0.70	0.15	0.03	12.07	26.73	4.40	0.98	0.23	0.05	
16	0.05	0.07	0.00	0.58	0.13	0.03	11.25	53.28	5.40	0.94	0.23	0.05	
17	0.04	0.07	0.01	0.51	0.12	0.03	10.24	160.18	5.27	0.90	0.21	0.07	
18	0.04	0.03	0.01	0.51	0.10	0.03	8.68	128.91	4.64	0.90	0.19	0.29	
19	0.03	0.03	0.03	0.44	0.08	0.04	7.73	64.58	4.04	0.86	0.17	0.25	
20	0.03	0.03	0.07	0.37	0.08	0.05	34.11	42.74	3.76	0.82	0.17	0.21	
21	0.03	0.02	0.04	0.31	0.07	0.04	34.91	33.71	3.45	0.74	0.15	0.21	
22	0.03	0.02	0.05	0.29	0.07	0.07	22.34	27.87	3.22	0.70	0.15	0.17	
23	0.03	0.02	0.04	0.27	0.05	0.12	14.41	24.34	3.14	0.66	0.13	0.15	
24	0.03	0.01	0.05	0.25	0.07	0.13	11.05	21.35	2.99	0.62	0.12	0.15	
25	0.02	0.01	0.07	0.25	0.05	0.33	9.26	19.18	2.92	0.58	0.12	0.13	
26	0.02	0.01	0.05	0.25	0.05	0.21	8.48	16.89	3.37	0.54	0.12	0.12	
27	0.02	0.01	0.04	0.23	0.05	0.17	13.76	15.23	3.53	0.51	0.10	0.08	
28	0.02	0.02	0.04	0.25	0.05	0.13	38.57	13.76	3.37	0.54	0.10	0.08	
29	0.02	0.01	0.03	0.25	0.10	0.10	38.98	12.91	3.07	0.74		0.07	
30	0.02	0.00	0.03	0.23	0.10	0.08	26.73	18.60	2.77	0.70		0.07	
31		0.00		0.23	0.13		32.52		2.63	0.58		0.07	
Total	1.09	0.68	0.72	9.04	4.19	2.68	438.12	1298.92	175.92	35.69	7.31	3.11	1977.47 Ton
Mean	0.04	0.02	0.02	0.29	0.14	0.09	14.13	43.30	5.67	1.15	0.26	0.10	
Max	0.05	0.07	0.07	1.17	0.25	0.33	38.98	160.18	15.78	2.49	0.58	0.29	160.18
Min	0.02	0.00	0.00	0.00	0.05	0.03	0.19	12.91	2.63	0.51	0.10	0.05	0.00

WATER YEAR 1992

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 - 1992

RID Computer Center, Processing : 31-MAR-1994 10:13:50.47

LQS/LQS02DL/1

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

$QS = 1.9186\ QW^{1.22526}$

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.73	0.70	1.73	6.77	5.61	39.47	3.15	203.79	25.27	7.37	3.41	1.20	
2	1.73	0.70	1.55	5.61	5.61	36.22	18.51	115.69	23.10	7.37	3.41	1.20	
3	1.73	0.70	1.55	6.19	6.48	31.44	40.38	93.06	21.77	7.07	3.41	1.20	
4	1.73	0.70	1.55	5.32	6.19	29.10	30.66	138.14	21.11	7.07	3.15	1.20	
5	1.55	0.70	1.73	4.76	5.90	28.33	23.77	103.92	19.16	7.07	3.15	1.03	
6	1.55	0.55	1.73	4.49	6.19	25.27	26.79	82.43	17.87	6.77	3.15	1.03	
7	1.55	0.55	2.16	4.21	8.84	20.45	45.88	64.79	17.24	6.77	2.90	1.03	
8	1.55	0.70	5.04	3.94	8.47	15.98	56.97	69.12	15.98	6.77	2.90	1.03	
9	1.37	0.86	5.61	3.68	8.10	13.52	52.79	73.51	15.35	6.48	2.90	1.20	
10	1.37	0.86	5.61	3.94	7.07	11.72	76.46	203.79	14.74	6.48	2.65	1.20	
11	1.37	0.86	5.61	9.60	5.90	11.13	88.47	369.15	14.12	6.19	2.65	1.03	
12	1.37	0.86	5.32	12.91	6.77	10.74	74.98	177.14	13.52	5.90	2.65	1.20	
13	1.37	1.03	5.04	20.45	13.52	10.36	55.92	117.39	14.74	5.61	2.40	1.20	
14	1.37	1.03	5.32	14.74	11.72	9.98	79.43	91.53	13.52	5.32	2.40	1.20	
15	1.20	1.03	5.04	10.74	8.84	9.60	69.12	77.94	11.72	5.04	2.40	1.20	
16	1.20	1.03	4.76	8.47	7.73	9.22	54.88	122.52	11.13	4.76	2.40	1.20	
17	1.20	1.92	5.04	8.10	6.19	7.73	54.88	316.35	12.91	4.76	2.16	1.37	
18	1.20	3.15	4.76	8.10	5.32	5.90	47.74	213.82	11.72	4.49	2.16	1.37	
19	1.20	3.68	5.04	7.37	5.04	5.61	44.95	138.14	10.74	4.49	2.16	2.40	
20	1.03	3.94	5.32	7.07	4.76	5.32	96.14	102.35	9.98	4.49	2.16	3.41	
21	1.03	3.68	5.32	6.77	4.76	5.04	76.46	80.93	9.60	4.21	1.92	3.94	
22	1.03	3.41	5.04	5.32	4.49	4.76	85.44	66.22	8.84	4.21	1.92	3.68	
23	1.03	3.15	4.76	3.68	4.21	4.49	60.50	56.97	8.10	3.94	1.92	5.04	
24	0.86	3.15	6.77	3.15	3.94	4.21	38.66	49.70	7.73	3.94	1.37	4.21	
25	0.86	3.15	10.74	2.90	3.68	3.94	41.29	39.47	7.73	3.94	1.37	3.94	
26	0.86	3.15	11.13	2.65	3.68	3.94	37.03	39.47	9.60	3.68	1.37	2.90	
27	0.86	3.41	10.36	2.65	3.68	3.68	43.11	37.03	9.22	3.68	1.37	2.65	
28	0.86	3.68	9.60	6.19	5.32	3.41	122.52	34.61	9.60	3.68	1.37	1.92	
29	0.70	1.55	8.47	5.90	5.04	2.65	102.35	29.10	9.22	3.68		1.73	
30	0.70	1.73	7.07	5.90	24.52	2.40	70.58	26.79	8.84	3.68		1.73	
31		1.73		5.90	40.38		138.14		8.10	3.41		1.73	
Total	37.16	57.34	158.77	207.47	247.95	375.61	1857.95	3334.86	412.27	162.32	67.18	60.37	6979.25 Ton
Mean	1.24	1.85	5.29	6.69	8.00	12.52	59.93	111.16	13.30	5.24	2.40	1.95	
Max	1.73	3.94	11.13	20.45	40.38	39.47	138.14	369.15	25.27	7.37	3.41	5.04	369.15
Min	0.70	0.55	1.55	2.65	3.68	2.40	3.15	26.79	7.73	3.41	1.37	1.03	0.55

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Sadao at Ban Phrai, Songkhla (X.111)

Location	Lat. 6°-39'-37" N., Long. 100°-26'-09" E., on left bank at Ban Phrai, Amphoe Sadao, Songkhla.
Drainage Area	256 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1980 - Cont'd
Actual Measurement	1980 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:13:59.82 LQS/LQS02DL/1

Station - Ban Phrai, Sadao, Songkhla, (X.111)
Stream - Khlong Sadao
River - Khlong Lam
River System - PENINSULAR EAST COAST

Royal Irrigation Department
Thailand
Hydrology Division
1.50154
QS = 3.2070 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	0.75	1.64	0.47	1.34	3.02	4.11	1.56	4.54	1.72	0.58	0.31	
2	0.93	1.49	1.45	0.33	1.07	2.29	1.96	19.97	4.43	1.49	0.58	0.31	
3	0.93	1.72	1.20	0.33	1.00	1.72	1.72	26.10	4.11	1.38	0.58	0.31	
4	0.90	3.40	1.07	0.31	1.00	1.45	1.34	6.50	4.01	1.34	0.58	0.31	
5	0.93	7.62	1.07	0.31	1.88	1.42	1.31	5.43	4.01	1.34	0.55	0.31	
6	0.97	3.21	1.07	0.31	1.38	1.38	1.24	6.80	4.43	1.34	0.53	0.31	
7	0.97	1.72	3.30	0.33	4.43	1.20	1.31	9.77	4.76	1.31	0.45	0.31	
8	1.00	3.30	1.49	0.81	4.98	1.42	6.50	5.54	11.94	1.24	0.38	0.31	
9	1.03	1.34	1.49	1.20	2.83	1.27	38.12	4.87	20.50	1.20	0.38	0.31	
10	1.42	1.20	1.56	3.02	2.92	0.93	16.61	4.01	23.24	1.20	0.35	0.31	
11	1.64	1.13	3.21	1.80	21.86	0.84	6.37	4.65	19.97	1.20	0.35	0.31	
12	1.20	1.27	2.04	26.68	57.04	0.75	3.40	61.11	11.94	1.20	0.35	0.31	
13	1.10	3.90	1.49	84.00	37.69	0.72	2.74	857.95	8.41	1.07	0.33	0.33	
14	1.13	1.56	1.03	21.31	14.65	0.63	3.90	496.16	6.25	1.00	0.33	0.61	
15	1.13	1.45	0.53	5.43	7.11	0.63	24.94	191.22	4.87	1.00	0.33	1.34	
16	1.10	2.83	0.53	3.11	4.22	0.55	16.61	128.01	4.54	0.93	0.33	3.90	
17	1.17	5.20	0.45	2.65	2.74	0.53	4.32	62.15	4.22	1.24	0.33	1.27	
18	1.03	2.29	0.38	4.98	2.29	0.78	2.47	41.70	3.80	1.03	0.31	0.69	
19	0.97	1.45	0.33	6.80	2.12	0.72	17.37	31.30	3.11	1.00	0.31	0.42	
20	0.87	1.27	0.33	3.80	2.29	0.69	28.76	23.24	2.83	0.97	0.24	0.33	
21	1.10	1.72	0.33	2.12	1.96	0.75	12.54	17.88	2.74	0.97	0.22	0.33	
22	4.43	2.29	0.35	1.49	1.42	0.66	8.27	13.93	2.56	0.93	0.20	0.33	
23	1.07	1.80	0.38	2.21	1.27	0.58	3.21	17.88	3.50	0.87	0.19	0.33	
24	0.90	1.31	0.45	2.04	1.20	0.58	2.12	12.54	3.70	0.78	0.17	0.33	
25	0.87	1.13	0.55	1.38	1.34	0.58	1.96	9.08	3.30	0.72	0.15	0.35	
26	0.87	1.03	0.63	1.20	1.20	0.84	1.56	7.75	2.83	0.69	0.13	0.47	
27	0.84	1.00	0.63	1.00	5.90	2.74	1.49	7.30	2.56	0.72	0.12	0.38	
28	0.75	1.07	1.10	1.24	18.91	5.09	1.49	5.90	2.47	0.72	0.09	0.31	
29	0.75	1.13	1.88	2.21	16.11	24.37	2.12	5.43	2.83	0.72		0.31	
30	0.75	1.13	0.90	4.01	8.54	18.39	1.45	4.87	2.29	0.72		0.31	
31		3.02		2.65	4.11		1.42		1.96	0.69		0.31	
Total	33.75	64.73	32.86	189.53	236.80	77.52	222.73	2090.60	186.65	32.73	9.44	16.37	3193.71 Ton
Mean	1.13	2.09	1.10	6.11	7.64	2.58	7.18	69.69	6.02	1.06	0.34	0.53	
Max	4.43	7.62	3.30	84.00	57.04	24.37	38.12	857.95	23.24	1.72	0.58	3.90	857.95
Min	0.75	0.75	0.33	0.31	1.00	0.53	1.24	1.56	1.96	0.69	0.09	0.31	0.09

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Lam at Ban Thung Prap (1), Songkhla (X.113)

Location	Lat. 6°-37'-59" N., Long. 100°-23'-46" E., on right bank at Ban Thung Prap (i), Amphoe Sadao, Songkhla.
Drainage Area	129 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1980 - Cont'd
Actual Measurement	1980 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:14:10.03

LQS/LQS02DL/1

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
1.44025
QS = 16.1898 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.37	2.59	2.33	2.07	2.33	3.87	3.87	2.59	5.97	3.28	3.00	2.07	
2	1.37	125.72	1.71	1.71	1.71	3.42	3.14	68.41	5.97	3.14	3.00	2.07	
3	1.16	3.42	1.48	1.59	12.59	3.14	2.72	4.02	5.79	3.42	3.00	2.07	
4	1.26	148.10	6.31	1.59	3.14	3.00	8.90	17.61	5.63	3.28	2.86	2.07	
5	1.37	3.72	14.36	1.48	14.36	2.86	4.80	30.15	5.46	3.28	2.72	2.07	
6	1.16	2.59	2.59	1.37	3.57	2.59	4.96	8.90	5.29	3.00	2.46	2.07	
7	1.05	1.95	1.71	2.07	3.14	2.59	3.28	9.29	7.21	3.00	2.33	2.07	
8	1.59	1.59	1.59	1.48	1.95	2.33	1211.63	4.33	25.21	3.00	2.33	2.07	
9	2.33	1.71	1.59	1.95	1.71	1.71	308.50	4.17	24.15	2.86	2.33	2.20	
10	1.95	1.71	1.37	1.59	69.87	1.59	32.43	6.14	25.75	2.86	2.33	2.46	
11	1.83	1.71	1.37	36.55	430.19	1.59	7.57	19.55	13.47	2.86	2.33	2.59	
12	1.48	1.59	1.37	139.01	66.97	1.48	5.63	3776.45	5.13	2.86	2.33	2.59	
13	1.26	3.00	1.37	8.13	33.59	1.37	4.33	1155.35	8.51	2.86	2.33	2.46	
14	1.26	3.42	1.16	3.72	12.59	1.37	4.64	228.30	5.79	2.86	2.33	2.46	
15	22.07	7.76	1.16	2.59	5.63	1.37	3.72	37.15	5.29	2.72	2.33	2.20	
16	15.73	5.46	1.16	2.07	4.17	1.26	2.86	28.47	4.96	2.72	2.33	2.20	
17	4.17	4.80	1.16	5.97	3.42	1.16	2.46	21.56	4.64	2.72	2.33	2.20	
18	1.83	6.31	1.16	4.17	3.57	1.16	2.46	17.13	4.33	2.72	2.33	2.07	
19	1.48	2.86	1.16	2.59	4.17	1.83	622.38	17.13	4.02	2.72	2.33	2.07	
20	1.37	2.86	1.16	1.95	4.64	1.83	10.90	13.91	4.02	2.72	2.20	2.07	
21	271.89	64.11	1.16	1.59	3.87	1.37	10.90	14.81	3.87	2.72	2.20	2.59	
22	8.51	3.57	1.16	1.48	2.86	1.26	5.13	11.74	3.87	2.72	2.20	2.20	
23	3.00	5.97	1.16	71.33	2.59	1.16	4.02	16.66	4.02	2.59	2.20	2.07	
24	2.46	3.28	1.16	2.46	2.33	1.16	3.14	10.90	4.17	2.59	2.20	2.07	
25	2.72	2.20	1.16	1.83	2.46	3.87	2.72	8.90	4.02	2.59	2.20	2.07	
26	1.59	1.95	1.16	1.48	6.31	117.08	2.59	7.57	3.72	2.59	2.07	1.95	
27	1.48	1.83	13.03	1.71	31.29	5.63	2.59	7.21	3.72	2.59	2.07	1.95	
28	1.37	1.71	16.19	13.03	110.73	12.16	6.14	6.84	3.72	3.42	2.07	1.95	
29	1.26	1.71	6.14	7.02	16.19	286.36	4.02	6.67	3.57	34.77		2.20	
30	1.26	15.27	2.72	8.51	6.49	8.90	2.86	6.49	3.57	5.13		2.07	
31		4.33		4.96	4.80		2.46		3.28	3.57		2.59	
Total	362.63	438.80	92.31	339.05	873.23	480.47	2297.75	5568.40	218.12	124.16	66.74	67.84	10929.50 Ton
Mean	12.09	14.15	3.08	10.94	28.17	16.02	74.12	185.61	7.04	4.01	2.38	2.19	
Max	271.89	148.10	16.19	139.01	430.19	286.36	1211.63	3776.45	25.75	34.77	3.00	2.59	3776.45
Min	1.05	1.59	1.16	1.37	1.71	1.16	2.46	2.59	3.28	2.59	2.07	1.95	1.05

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Kolok River at Sungai Kolok, Narathiwat (X.119A)

Location	Lat. 6-01-07 N., Long. 101-58-43 E., on left bank at the railway bridge near the immigration division, Amphoe Sungai Kolok, Narathiwat.
Drainage Area	1,358 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1989 - Cont'd
Actual Measurement	1989 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:14:20.55 LQS/LQS02DL/1

Station - Sungai Kolok, Sungai Kolok, Narathiwat, (X.119A)
Stream - Kolok
River - Kolok
River System - PENINSULAR EAST COAST

Royal Irrigation Department
Thailand
Hydrology Division
1.70734
QS = 0.1945 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.60	10.95	26.03	38.40	34.06	6.77	40.20	65.45	426.27	870.62	245.77	28.35	
2	9.58	12.03	36.64	34.06	29.93	6.49	61.61	87.50	334.35	597.11	183.27	25.28	
3	9.25	12.40	31.56	62.88	27.57	10.95	130.78	88.97	264.95	452.74	231.54	23.32	
4	9.92	20.96	25.28	76.14	31.56	18.70	97.32	99.07	228.74	418.26	188.41	22.12	
5	10.95	14.52	122.99	41.11	26.03	11.31	78.92	245.77	240.04	547.15	159.58	20.38	
6	19.82	12.03	149.02	37.52	23.92	9.58	124.92	209.51	323.52	527.68	126.86	18.70	
7	29.14	10.95	170.70	49.69	21.54	13.15	228.74	136.75	430.30	363.96	102.61	17.08	
8	33.22	9.92	136.75	46.75	33.22	12.03	130.78	97.32	808.34	271.59	88.97	18.70	
9	136.75	13.54	88.97	38.40	41.11	10.26	100.83	74.77	1924.32	231.54	77.53	23.92	
10	108.02	14.02	83.17	29.93	43.89	9.92	206.82	84.60	3951.87	398.51	69.38	21.54	
11	86.05	28.35	66.75	25.28	38.40	8.92	170.70	144.88	4354.50	327.11	69.38	19.82	
12	88.97	57.87	146.94	22.12	42.03	7.67	130.78	418.26	3891.37	234.36	73.41	201.49	
13	100.83	36.64	136.75	20.96	51.85	6.77	83.17	3266.59	2785.09	201.49	72.05	461.84	
14	69.38	24.54	173.19	41.11	46.75	5.93	126.86	6904.18	1629.59	206.82	62.88	557.00	
15	40.20	19.26	356.46	51.85	33.22	5.39	323.52	5266.76	956.63	330.73	55.43	341.66	
16	29.93	17.61	302.30	42.96	26.80	4.88	319.94	3639.55	628.42	295.36	47.72	674.43	
17	23.92	20.96	248.66	48.70	22.12	7.67	338.00	2634.56	443.70	214.93	46.75	662.80	
18	20.96	31.56	209.51	80.33	19.82	10.26	338.00	1843.94	341.66	175.69	43.89	439.22	
19	18.15	25.28	212.22	204.15	17.08	14.52	278.30	1398.59	264.95	188.41	40.20	657.02	
20	21.54	18.15	180.73	166.05	14.52	20.96	327.11	1159.19	245.77	168.24	37.52	913.21	
21	26.03	13.15	111.69	140.79	12.78	23.92	190.99	1061.17	240.04	153.21	34.06	1289.89	
22	22.72	11.67	78.92	119.17	11.67	34.06	153.21	986.04	261.66	173.19	31.56	863.61	
23	18.70	17.61	60.35	99.07	10.95	61.61	134.75	856.62	668.60	190.99	28.35	480.28	
24	16.03	84.60	49.69	72.05	10.60	138.76	108.02	898.92	1475.08	159.58	26.03	383.00	
25	12.78	72.05	44.84	51.85	9.92	97.32	87.50	891.81	2173.90	142.83	25.28	196.21	
26	11.31	54.23	47.72	42.03	8.92	93.86	74.77	920.38	3160.74	121.08	29.93	140.79	
27	9.92	38.40	37.52	42.03	8.28	78.92	73.41	971.29	3221.85	100.83	34.91	109.84	
28	18.15	66.75	34.06	70.71	7.97	57.87	57.87	703.87	2350.50	92.14	33.22	87.50	
29	17.08	64.16	32.38	87.50	7.67	53.03	45.79	513.27	1435.63	386.85		74.77	
30	14.02	42.96	34.06	56.64	7.07	60.35	42.03	547.15	956.63	1008.34		64.16	
31		33.22		42.03	7.07		47.72		993.45	499.02		56.64	
Total	1043.92	910.34	3435.85	1982.26	728.32	901.83	4653.36	36216.73	41412.46	10050.36	2266.49	8894.57	112496.49 Ton
Mean	34.80	29.37	114.53	63.94	23.49	30.06	150.11	1207.22	1335.89	324.21	80.95	286.92	
Max	136.75	84.60	356.46	204.15	51.85	138.76	338.00	6904.18	4354.50	1008.34	245.77	1289.89	6904.18
Min	9.25	9.92	25.28	20.96	7.07	4.88	40.20	65.45	228.74	92.14	25.28	17.08	4.88

WATER YEAR 1992

SOUTHERN PENINSULA EAST COAST

Khlong Waeng at Waeng, Narathiwat (X.121)

Location	Lat. 5-55-26 N., Long. 101-53-14 E., on right bank at the bridge of Sungai Kolok -Malasia Highway, Amphoe Waeng, Narathiwat.
Drainage Area	43 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1985 - Cont'd
Actual Measurement	1985 - cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:14:30.11 LQS/LQS02DL/1

Station - Waeng, Waeng, Narathiwat, (X.121)
Stream - Khlong Waeng
River - Kolok
River System - PENINSULAR EAST COAST

Royal Irrigation Department
Thailand
Hydrology Division
1.20861
QS = 2.2316 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	1.50	3.50	3.06	2.92	1.50	1.30	2.50	13.23	23.48	12.90	3.21	
2	1.40	1.60	2.92	2.50	3.21	1.50	2.50	3.35	12.25	19.85	10.95	2.92	
3	1.40	1.91	2.50	2.64	3.06	1.81	2.78	2.37	10.64	19.85	12.57	2.78	
4	1.81	2.02	2.50	2.50	3.06	1.60	2.37	3.50	8.15	28.05	10.64	2.64	
5	2.78	1.70	10.95	2.50	2.92	1.50	2.02	5.35	13.23	29.05	11.27	2.64	
6	2.12	1.60	10.32	4.27	2.78	1.40	4.48	4.06	13.89	19.46	9.69	2.50	
7	1.70	1.50	12.57	3.06	2.64	1.50	3.06	3.64	24.38	16.37	8.45	2.50	
8	4.69	1.40	9.69	2.64	2.64	1.50	2.12	3.06	51.67	12.90	7.85	2.50	
9	4.27	1.40	8.15	2.50	3.06	1.40	2.23	3.06	139.41	29.05	6.95	2.50	
10	3.21	1.60	7.25	3.21	3.35	1.40	4.27	4.27	87.84	19.46	8.15	2.50	
11	2.64	1.70	4.91	3.06	2.64	1.30	2.92	6.66	73.41	14.90	10.32	2.37	
12	2.64	1.91	9.07	2.92	4.69	1.20	2.50	200.30	42.09	12.57	8.76	28.05	
13	4.69	1.50	7.25	3.50	4.48	1.20	1.91	83.78	23.93	12.57	7.25	30.57	
14	2.78	1.60	5.57	3.35	3.64	1.11	8.76	32.62	21.83	20.25	6.36	29.05	
15	2.12	1.50	4.69	2.64	3.35	1.01	6.07	4.69	19.07	16.75	4.91	22.23	
16	1.81	1.50	8.15	8.45	3.06	1.11	4.27	38.89	16.75	16.37	4.48	24.83	
17	1.70	1.40	6.07	5.13	2.78	1.11	3.35	23.93	14.56	14.56	4.27	12.57	
18	1.50	1.40	5.13	11.27	2.64	1.01	2.92	22.64	12.57	15.61	3.85	23.04	
19	1.60	1.20	7.25	7.85	2.50	1.50	8.45	21.44	9.38	12.57	3.64	20.25	
20	5.13	1.11	5.35	8.15	2.50	1.40	4.91	24.38	13.56	11.60	3.50	185.74	
21	2.50	1.01	3.85	5.35	2.37	1.30	3.64	21.83	10.32	14.23	3.35	36.25	
22	1.91	0.92	3.64	6.95	2.23	1.40	2.92	17.52	15.61	12.57	3.21	21.04	
23	1.70	40.48	3.21	5.35	2.23	4.91	2.50	15.61	82.98	10.95	3.06	16.75	
24	1.50	11.27	2.92	4.27	2.12	2.78	2.12	14.23	85.40	11.27	3.06	13.23	
25	1.50	13.89	2.78	3.64	2.12	2.12	2.12	22.23	99.35	12.25	3.35	11.60	
26	1.81	5.35	2.64	3.50	2.02	2.02	2.02	37.83	58.23	9.38	4.06	10.00	
27	6.66	5.79	2.64	3.35	1.91	1.91	1.81	18.29	48.48	8.76	3.85	9.07	
28	2.02	4.69	2.50	7.85	1.81	1.81	1.70	13.89	75.78	7.85	3.64	7.85	
29	2.12	4.48	2.37	4.06	1.70	1.70	1.60	22.23	36.25	93.56		6.95	
30	1.70	6.95	2.23	3.21	1.70	1.40	1.81	14.23	37.30	26.18		6.66	
31		4.48		2.92	1.60		2.92		31.59	18.29		5.79	
Total	74.91	130.36	162.57	135.65	83.73	48.41	98.35	692.38	1203.13	590.56	184.34	550.58	3954.97 Ton
Mean	2.50	4.21	5.42	4.38	2.70	1.61	3.17	23.08	38.81	19.05	6.58	17.76	
Max	6.66	40.48	12.57	11.27	4.69	4.91	8.76	200.30	139.41	93.56	12.90	185.74	200.30
Min	1.40	0.92	2.23	2.50	1.60	1.01	1.30	2.37	8.15	7.85	3.06	2.37	0.92

WATER YEAR 1992

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	1989 - Cont'd
Actual Measurement	1989 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:14:58.55

LQS/LQS02DL/1

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
1.44549
QS = 1.5423 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.57	2.51	3.38	2.15	3.61	7.99	5.08	9.82	12.28	17.65	6.69	4.08	
2	4.82	3.38	2.33	2.15	3.15	12.28	9.35	30.04	11.77	13.13	6.97	4.08	
3	4.32	2.93	2.15	1.98	4.32	21.56	8.44	16.72	11.77	11.28	7.26	4.08	
4	4.08	3.84	1.98	2.15	3.15	15.79	34.59	11.77	10.78	11.28	6.41	4.08	
5	3.84	3.61	2.72	2.15	10.78	21.56	17.65	9.82	10.78	10.30	6.41	4.08	
6	3.15	3.15	2.33	2.15	10.78	12.28	13.13	8.89	10.78	10.78	6.97	4.08	
7	2.93	3.15	6.14	2.15	5.34	8.44	8.44	8.89	10.30	9.82	6.69	4.08	
8	3.38	6.69	7.26	2.15	41.78	6.41	87.94	7.99	10.30	9.35	6.69	7.55	
9	3.38	3.15	11.77	2.51	9.35	6.14	30.04	39.34	8.89	9.35	5.34	5.08	
10	3.38	7.99	7.55	2.33	5.87	6.69	26.76	46.80	11.28	9.35	5.08	4.57	
11	2.93	4.08	7.55	2.15	8.44	6.97	21.56	25.69	11.28	9.35	5.34	4.08	
12	2.93	12.28	9.35	1.98	6.69	5.34	20.56	17.65	9.82	8.89	5.34	4.32	
13	2.72	4.32	64.26	2.15	7.26	3.84	17.65	15.79	9.35	8.44	5.34	4.08	
14	3.61	4.32	17.65	1.98	7.55	3.84	11.77	12.28	9.82	8.44	5.34	6.69	
15	2.93	3.84	4.57	1.82	5.60	3.84	10.30	21.56	9.35	8.44	5.34	6.41	
16	2.93	3.84	3.61	1.65	4.57	3.84	8.44	152.49	11.77	7.99	5.34	4.82	
17	2.93	2.72	3.61	1.82	7.26	3.61	7.99	49.37	8.89	6.97	4.82	4.32	
18	2.93	2.51	3.61	1.98	9.82	3.38	7.55	35.76	8.44	7.26	4.82	4.57	
19	2.93	2.33	3.38	2.15	7.55	4.08	7.99	27.84	7.99	8.44	4.82	4.08	
20	2.93	2.51	3.38	1.65	5.08	3.84	7.26	22.57	7.55	6.97	4.82	5.34	
21	3.38	2.51	3.15	1.65	4.82	3.84	6.69	23.59	7.55	6.69	4.57	7.26	
22	4.32	2.51	2.93	1.65	4.08	3.84	6.41	21.56	7.55	6.97	4.32	5.08	
23	3.38	2.33	2.72	1.65	3.61	3.15	5.87	17.65	6.97	6.97	4.32	4.57	
24	3.38	2.15	2.51	1.65	4.32	2.93	5.87	18.61	6.41	7.26	4.32	3.84	
25	2.72	2.33	2.51	1.65	5.08	4.82	5.60	14.00	19.57	6.14	4.32	3.38	
26	2.93	1.98	2.72	1.65	5.60	5.60	5.87	14.00	38.13	5.87	4.08	3.38	
27	2.93	1.98	4.08	4.82	38.13	5.34	12.28	15.79	51.99	6.14	4.08	3.15	
28	3.15	2.15	2.93	4.32	45.53	4.08	18.61	13.13	23.59	6.14	4.08	3.15	
29	3.61	2.15	2.93	6.41	28.93	4.08	8.89	19.57	15.79	10.78		2.93	
30	3.15	5.08	2.51	5.34	19.57	4.32	9.35	18.61	12.28	9.35		2.93	
31		4.82		5.87	10.30		9.35		21.56	7.26		4.57	
Total	100.57	113.14	197.57	77.86	337.92	203.72	457.28	747.59	414.58	273.05	149.92	138.71	3211.91 Ton
Mean	3.35	3.65	6.59	2.51	10.90	6.79	14.75	24.92	13.37	8.81	5.35	4.47	
Max	4.82	12.28	64.26	6.41	45.53	21.56	87.94	152.49	51.99	17.65	7.26	7.55	152.49
Min	2.72	1.98	1.98	1.65	3.15	2.93	5.08	7.99	6.41	5.87	4.08	2.93	1.65

WATER YEAR 1992

SOUTHERN PENINSULA WEST COAST

Khlong Palian at Ban Lam Khlaeng(2), Trang (X.139)

Location	Lat. 7°-19'-08" N., Long. 99°-49'-03" n., on right bank at Ban Lam Khlaeng(2), Amphoe Palian, Trang.
Drainage Area	153 sq.km.
Method of Sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1986 - Cont'd
Actual Measurement	1986 - Cont'd
Remarks	Continued Sediment Station Using Rating Curve Water Year 1992

RID Computer Center, Processing : 31-MAR-1994 10:14:45.15

LQS/LQS02DL/1

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
1.52091
QS = 0.7355 QW

Water Year - 1992

Suspended Sediment, in Tons per Day, Water Year April 1, 1992 to March 31, 1993

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.25	1.34	2.05	6.29	18.25	28.02	14.46	11.36	10.63	4.82	3.44	2.05	
2	1.25	1.77	3.44	5.29	13.27	24.03	20.48	14.87	9.56	4.58	2.86	2.05	
3	1.25	1.50	2.05	4.58	11.74	20.93	14.87	12.12	9.21	4.35	2.71	1.95	
4	2.14	2.44	2.34	4.35	10.63	16.53	258.51	9.56	8.87	4.35	2.71	1.95	
5	1.50	1.34	5.29	3.75	8.20	99.89	131.87	8.87	9.21	4.35	2.58	1.86	
6	1.34	1.25	9.91	4.58	13.27	34.85	218.50	8.53	9.21	4.13	2.58	1.86	
7	1.25	1.50	8.20	4.13	12.50	25.15	51.69	7.87	8.20	3.91	2.58	1.77	
8	1.25	4.82	4.35	8.20	9.21	20.02	38.48	7.54	7.87	3.91	2.44	1.95	
9	1.95	2.05	4.13	5.29	19.13	16.95	28.60	10.27	9.56	3.91	2.44	2.34	
10	1.42	3.00	3.15	4.13	31.59	14.87	29.19	33.44	8.53	3.75	2.44	2.05	
11	1.68	1.86	3.29	6.90	58.36	13.27	47.67	17.81	8.87	3.75	2.44	1.95	
12	1.42	1.95	8.20	9.21	39.96	12.12	53.33	107.94	8.20	3.60	2.44	2.05	
13	1.25	1.95	14.87	5.78	28.02	10.99	29.19	265.54	7.22	3.60	2.44	2.34	
14	1.02	1.77	6.90	5.54	22.39	10.63	25.15	48.46	6.90	3.60	2.44	2.58	
15	1.17	3.44	4.82	4.82	16.95	9.56	20.93	54.16	6.29	3.44	2.44	3.29	
16	1.25	2.58	4.35	4.13	13.67	8.87	18.69	50.07	6.03	3.44	2.44	2.44	
17	1.17	1.86	3.44	3.75	11.74	8.53	16.53	32.20	5.78	3.29	2.44	3.75	
18	1.10	1.77	3.15	5.29	10.63	9.91	15.28	25.72	5.54	3.15	2.44	3.00	
19	1.02	1.68	2.86	6.03	10.27	10.99	14.46	21.39	5.29	3.44	2.44	2.86	
20	1.25	1.86	2.71	5.78	10.27	10.63	14.46	18.69	5.54	3.15	2.34	2.71	
21	1.25	2.05	2.44	4.35	8.53	13.67	13.27	18.25	5.54	3.15	2.34	4.35	
22	1.34	2.24	2.24	4.13	7.54	12.12	12.12	15.69	5.54	3.60	2.34	4.35	
23	1.17	1.77	2.44	4.82	6.59	10.63	11.36	14.46	5.78	3.29	2.24	3.00	
24	1.25	3.15	6.03	3.91	8.53	10.27	10.27	15.69	6.59	3.15	2.14	2.58	
25	1.10	2.05	8.20	3.60	23.48	16.11	9.91	13.27	8.20	3.15	2.14	2.44	
26	1.10	1.86	5.54	3.44	31.59	14.06	9.56	14.46	6.90	3.15	2.14	2.34	
27	1.10	1.86	20.93	3.29	92.06	11.74	9.21	12.12	6.29	3.15	2.05	2.24	
28	1.10	1.86	16.53	11.74	230.88	16.53	8.87	12.50	6.90	3.15	2.05	2.24	
29	1.10	1.86	13.67	117.59	184.04	29.19	7.87	11.74	5.78	6.59		2.14	
30	1.10	1.86	8.87	153.26	57.51	17.38	7.54	11.74	5.05	3.75		2.24	
31		1.77		26.86	37.74		7.54		4.82	3.29		2.24	
Total	38.54	64.06	186.39	444.81	1058.54	558.44	1169.86	906.33	223.90	115.94	68.52	76.96	4912.29 Ton
Mean	1.28	2.07	6.21	14.35	34.15	18.61	37.74	30.21	7.22	3.74	2.45	2.48	
Max	2.14	4.82	20.93	153.26	230.88	99.89	258.51	265.54	10.63	6.59	3.44	4.35	265.54
Min	1.02	1.25	2.05	3.29	6.59	8.53	7.54	7.54	4.82	3.15	2.05	1.77	1.02